

GENERAL NOTES

1. THE WORK INCLUDED UNDER THIS CONTRACT CONSISTS OF ALL LABOR, MATERIALS, TRANSPORTATION, TOOLS AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE PROJECT LEAVING ALL WORK READY FOR USE.
2. ALL CONSTRUCTION SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING, MECHANICAL, PLUMBING, ELECTRICAL AND THE 2019 CALIFORNIA ENERGY CODE. IN THE EVENT OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH AIA GENERAL CONDITIONS DOC. A-201, 2007 EDITION.
4. OMISSIONS FROM THE DRAWINGS AND SPECIFICATION OR THE MISDESCRIPTION OF THE WORK WHICH IS MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH IS CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK AS IF FULLY AND COMPLETELY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
5. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY TO THE EXISTING SITE. ANY ERRORS, OMISSIONS, CONFLICTS, DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE DESIGNER'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, THEY SHALL BE PROCEEDING AT HIS OWN RISK. ANY REVISION TO THE APPROVED SET OF PLANS MUST BE SUBMITTED TO AND APPROVED BY SOUTHERN CALIFORNIA COUNTY BUILDING DEPARTMENT PRIOR TO THE REVISION BEING COMPLETED.
6. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF THE CONSTRUCTION DOCUMENTS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL THE TRADES, AND SHALL PROVIDE ALL THE SUBCONTRACTORS WITH CURRENT CONSTRUCTION DOCUMENTS AS REQUIRED.
7. THE GENERAL CONTRACTOR SHALL VERIFY AND ASSUME RESPONSIBILITY FOR ALL DIMENSIONS AND SITE CONDITIONS. THE GENERAL CONTRACTOR SHALL INSPECT THE EXISTING PREMISES AND TAKE NOTE OF EXISTING CONDITIONS PRIOR TO SUBMITTING PRICES. NO CLAIM SHALL BE ALLOWED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE REASONABLY BEEN INFERRED FROM SUCH AN EXAMINATION.
8. WRITTEN DIMENSIONS TAKE PRECEDENCE. DO NOT SCALE DRAWINGS.
9. ALL DIMENSIONS TO AND FROM NEW CONSTRUCTION WHEN SHOWN IN PLAN ARE TO FACE OF GYP. BOARD, FACE OF MASONRY, FACE OF CEMENT PLASTER UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ON REFLECTED CEILING PLANS, ELEVATIONS, AND ELECTRICAL PLANS ARE FROM FACE OF FINISH TO CENTER LINE OF FIXTURE OR GROUP OF FIXTURES UNLESS OTHERWISE NOTED.
11. ALL VERTICAL DIMENSIONS ARE TO FACE OF FINISH AND FINISH FLOOR UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS NOTED "VIF" OR "VERIFY" ARE TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO CONSTRUCTION. IMMEDIATELY REPORT ANY VARIANCE TO THE DESIGNER FOR RESOLUTION.
13. ALL WALLS ARE WOOD STUDS @ 16" O.C. UNLESS OTHERWISE NOTED.
14. CONTRACTOR SHALL PROVIDE ALL SEISMIC BRACING AND HOLD-DOWN CLIPS AS REQUIRED BY CODE FOR ALL SUSPENDED CEILING AND SOFFIT FRAMING CONDITIONS.
15. COORDINATE ALL WORK WITH EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO: IRRIGATION PIPES, ELECTRICAL CONDUIT, WATER LINES, GAS LINES, DRAINAGE LINES, ETC.
16. PROVIDE ADEQUATE TEMPORARY SUPPORT AS NECESSARY TO ASSURE THE STRUCTURAL VALUE OR INTEGRITY OF THE BUILDING.
17. PROTECT ALL EXISTING BUILDING AND SITE CONDITIONS TO REMAIN INCLUDING WALLS, CABINETS, FINISHES, TREES AND SHRUBS, PAVING, ETC.
18. DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
19. VERIFY ALL ARCHITECTURAL DETAILS WITH STRUCTURAL, CIVIL, KITCHEN EQUIPMENT, AND SHOP OR DESIGN/BUILD DRAWINGS BEFORE ORDERING OR INSTALLATION OF ANY WORK.
20. WHERE LOCATIONS OF WINDOWS AND DOORS ARE NOT DIMENSIONED, THEY SHALL BE CENTERED IN THE WALL OR PLACED TWO STUD WIDTHS FROM ADJACENT WALL AS INDICATED ON THE DRAWINGS.
21. ALL REQUIRED EXITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
22. ALL CHANGES IN FLOOR MATERIALS OCCUR AT CENTERLINE OF DOOR OR FRAMED OPENING UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
23. INSTALL ALL FIXTURES, EQUIPMENT AND MATERIALS PER MANUFACTURERS RECOMMENDATIONS.
24. VERIFY CLEARANCES FOR FLUES, VENTS, CHASES, SOFFITS, FIXTURES, ETC. BEFORE ANY CONSTRUCTION, ORDERING, OR INSTALLATION OF ANY ITEMS OF WORK.
25. SEALANT, CAULKING AND FLASHING, ETC. LOCATIONS SHOWN ON DRAWINGS ARE NOT INTENDED TO BE INCLUSIVE. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND STANDARD INDUSTRY AND BUILDING PRACTICES.
26. ALL ROOF DECK PENETRATIONS AND EXTERIOR WALL OPENINGS SHALL BE GUARANTEED BY THE CONTRACTOR TO BE WATER TIGHT FOR A MINIMUM PERIOD OF FIVE YEARS AFTER SUBSTANTIAL COMPLETION OF ALL WORK UNDER THIS CONTRACT.
27. THE GENERAL CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS OF ALL SUBCONTRACTORS AND TRADES ON A REGULAR BASIS, AND SHALL EXERCISE A STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIRECT DEBRIS OR DUST FROM AFFECTING, IN ANY WAY, FINISHED AREAS IN OR OUTSIDE JOB SITE.
28. CONTRACTOR SHALL LEAVE PREMISES AND ALL AFFECTED AREAS CLEAN AND ORDERLY, READY FOR OCCUPANCY. THIS INCLUDES CLEANING OF ALL GLASS (INSIDE AND OUTSIDE) AND FRAMES, BOTH NEW AND EXISTING.
29. INSTALL SMOKE DETECTORS IN ACCORDANCE WITH THE SPECIFICATIONS AND IN CONFORMANCE WITH LOCAL FIRE MARSHAL REQUIREMENTS.
30. ALL EXTERIOR DOORS AND WINDOWS ARE TO BE WEATHER STRIPPED PER TITLE 24 REQUIREMENTS, UNLESS OTHERWISE NOTED IN DOOR DETAILS.
31. GLASS SUBJECT TO HUMAN IMPACT SHALL BE OF SAFETY GLAZING MATERIAL TO MEET STATE AND FEDERAL REQUIREMENTS.
32. ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A REGISTERED CIVIL ENGINEER OR A LICENSED LAND SURVEYOR.
33. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
34. ACCESS FOR THE PHYSICALLY DISABLED IS REQUIRED BY THE TITLE 24 CALIFORNIA ADMINISTRATIVE CODE AND THE AMERICANS WITH DISABILITIES ACT. ALL REQUIRED FEATURES SHALL BE INCLUDED IN THE CONSTRUCTION WHETHER SPECIFICALLY DETAILED OR NOT.
35. INSTALL FIRE EXTINGUISHERS AND SELF-ILLUMINATING EXIT SIGNS PER CODE TO THE SATISFACTION OF THE COUNTY OF SANTA CLARA. REVIEW LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
36. ALL DOOR HARDWARE TO MEET ADA AND TITLE 24 REQUIREMENTS FOR ACCESSIBILITY.
37. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS, AND ALL CODE REQUIREMENTS UNDER WHICH THE PLANS AND SPECIFICATIONS WERE APPROVED.

LARSON RESIDENCE

Alum Rock

10818 Crothers Rd \\ San Jose, CA 95127

AREA CALCULATIONS

BUILDING AREA:	
STORAGE	900 Sq Ft
MAIN LEVEL	3229 Sq Ft
GARAGE	928 Sq Ft
TOTAL AREA: TOTAL	5057 Sq Ft
PARCEL AREA:	6.58 Acres

AGRICULTURAL BARN 3500 sq. ft

DRAFTING/DESIGN FIRM

ECOCONSTRUCTION
PO BOX 62
Geyserville, CA 95441
ecoconstruction@att.net
831-588-0234

GEOTECHNICAL ENGINEER

BUTANO GEOTECHNICAL
213 Green Vally Rd. Suite E
Freedom, CA 95019
(831)724-2612
www.butanogeotech.com



SURVEY

CARROLL ENGINEERING
1101 S. Winchester Blvd. #H-184
San Jose, CA 95128

SEPTIC ENGINEER

ACORN ONSITE, INC 2288
Buena Vista Ave Livermore, CA
94550
(800) 832-7711
www.AcornOnsite.com

OWNER/MANAGER

Mack Larson & Jothi
Murali-Larson
larsonmack@icloud.com

STRUCTURAL ENGINEER

THANG LE and ASSOCIATES
319 E. Foothill Blvd.
Arcadia, CA 91006
(626) 538-2702
info@thanglese.com

CIVIL ENGINEER

DVC Group, Inc.
513 Center St.
Healdsburg, CA 95448
(707)775-8986
dan@dvcgroup.net

GEOLOGIST

BAYSIDE GEOLOGY
BUTANO GEOTECHNICAL
213 Green Vally Rd. Suite E
Freedom, CA 95019
(831)724-2612
www.butanogeotech.com

CONSTRUCTION OBSERVATION REQUIRED

GENERAL CONTRACTOR IS REQUIRED TO SCHEDULE & COORDINATE THE FOLLOWING MANDATORY CONSTRUCTION OBSERVATION SITE VISITS WITH DESIGNER PRESENT. PROVIDE NOTICE TO DESIGNER AT LEAST 48 HOURS PRIOR TO SUCH VISITS. PRIOR TO BEGINNING WORK, PROVIDE DESIGNER & OWNER WITH A CRITICAL PATH SCHEDULE SHOWING THE FOLLOWING CONSTRUCTION MILESTONES:

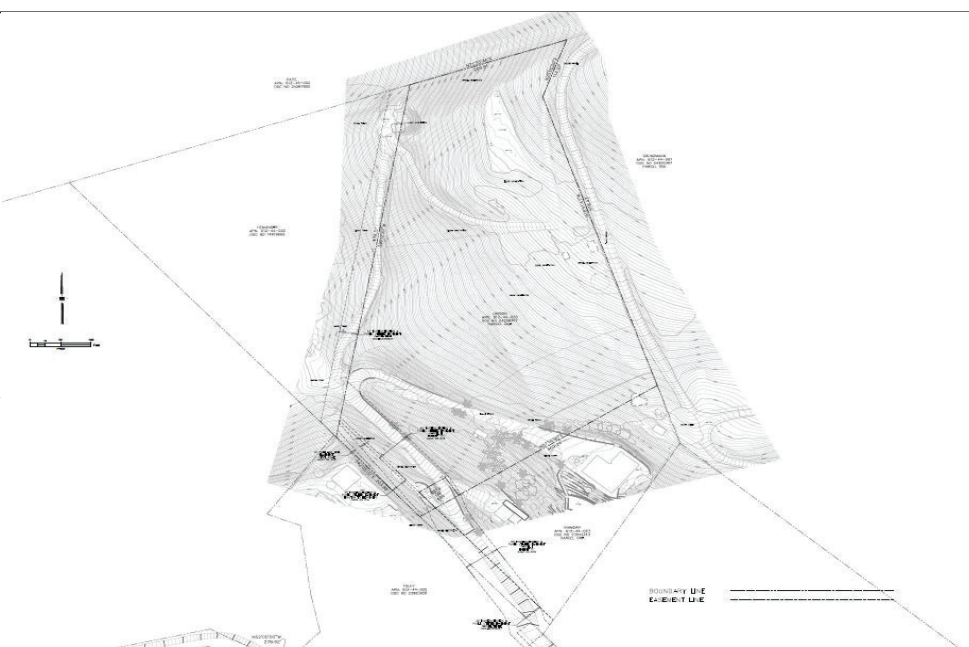
INITIALS	REQD	SITE VISIT MILESTONE
_____	<input type="checkbox"/>	PRE CONSTRUCTION SITE MEETING
_____	<input checked="" type="checkbox"/>	AFTER FINISH REMOVAL, PRIOR TO STRUCTURAL DEMOLITION
_____	<input checked="" type="checkbox"/>	ROUGH FRAMING
_____	<input type="checkbox"/>	WINDOW SELECTION, PRIOR TO ORDERING WINDOWS
_____	<input type="checkbox"/>	ROUGH ELECTRICAL, MOUNTED BOXES PRIOR TO PULLING WIRE
_____	<input type="checkbox"/>	FRAMING & INSULATION, PRIOR TO COVERING FRAMING W/ FINISHES

ADDITIONALLY, CONTRACTOR SHALL SCHEDULE A MANDATORY WALK THRU WITH DESIGNER & OWNER PRESENT AT SUBSTANTIAL COMPLETION.

SUBSTANTIAL COMPLETION PRIOR TO GRANTING OCCUPANCY

DESIGNER'S INITIALS ARE REQUIRED TO THE LEFT OF EACH SITE VISIT LISTED PRIOR TO PROCEEDING WITH SUBSEQUENT WORK & INDICATE ONLY THAT DESIGNER WAS PRESENT & PROVIDED WITH THE OPPORTUNITY TO OBSERVE CONSTRUCTION AT THAT PHASE.

PARCEL MAP



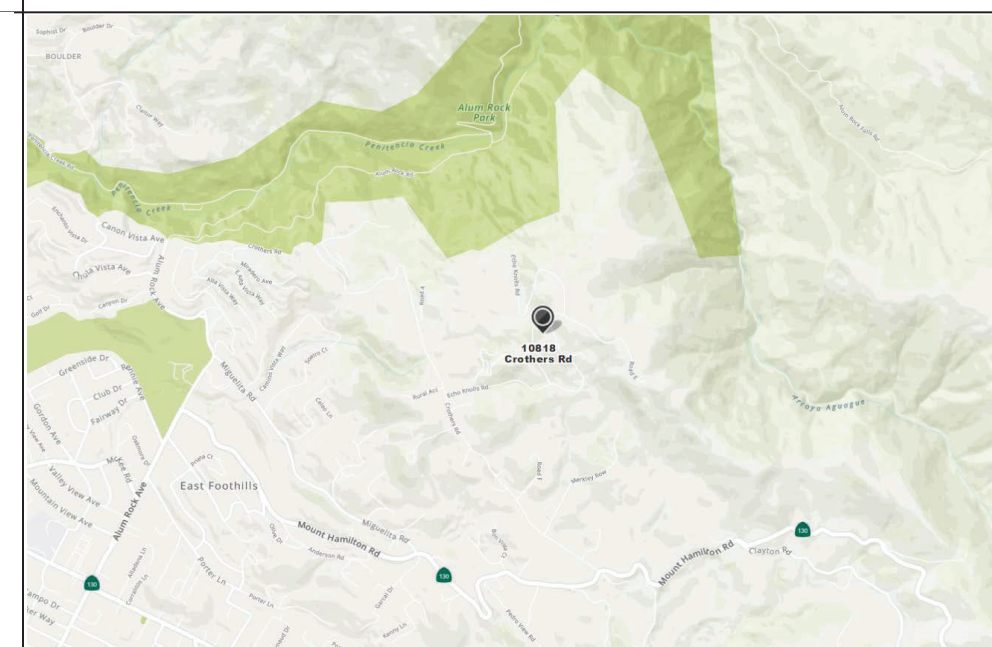
Please Note: Orientation of other plans within the set may vary from this Parcel Map.

PROJECT DATA

PROJECT ADDRESS: 10818 Crothers Rd. San Jose, CA
 OWNER/MANAGER: Mack Larson & Jothi Murali-Larson
 APN: 612-44-033
 ZONING: Residential /Agricultural
 LOT AREA: 6.58 Acres
 BUILDING AREA: See Area Calculations on this sheet
 STORIES: 2 story residential
 CONSTRUCTION TYPE: Typ V/A
 FIRE SPRINKLERS: Deferred Submittal
 OCCUPANCY: Group R-4
 APPLICABLE CODES: County of Santa Clara Municipal Code

2022 CA RESIDENTIAL BUILDING CODE
 2022 CA Bldg Code, 2022 CA Res Bldg Code, 2022 CA Elec Code
 20122 CA Mech Code, 2013 CA Plmbg Code, 2022 CA Energy Code
 2022 CA Fire Code, 2022 CalGreen Code, 2022 CA Ref Stds Code
 All as amended by The State Of California and Local Jurisdiction(s).

VICINITY MAP



Please Note: Orientation of other plans within the set may vary from this Vicinity Map.

ADDITIONAL DOCUMENTS & REQUIREMENTS

GEOTECHNICAL INVESTIGATION / SOIL REPORT- Attached

SPRINKLER PLAN - Differed Submittal SEPTIC DESIGN - Deferred Submittal

TITLE 24 CALIFORNIA ENERGY CODE COMPLIANCE- Attached

ARBORIST DUE TO THE SCOPE OF WORK FOR THIS PROJECT, NO ARBORIST REPORT HAS BEEN PREPARED. IN THE EVENT THAT PROJECT SCOPE CHANGES, CONTACT ARCHITECT & AUTHORITY HAVING JURISDICTION (AHJ) TO DETERMINE IF AN ARBORIST REPORT IS REQUIRED. NO WORK SHALL BE COMMENCED WITHIN THE DRIPLINE OF ANY TREE PROTECTED BY ANY AHJ PRIOR TO RETAINING A LICENSED ARBORIST.

COORDINATION REQUIREMENTS COORDINATE WITH DESIGNER

SEE CONSTRUCTION OBSERVATION NOTE ON THIS SHEET. PROVIDE ARCHITECT WITH MINIMUM 48 HOUR NOTICE OF MILESTONE REQUIRING CONSTRUCTION OBSERVATION. COPY ARCHITECT ON ALL CORRESPONDENCE WITH ALL PROJECT CONSULTANTS.

ABBREVIATIONS

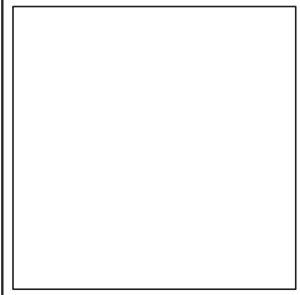
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
1A	ADJUST	10	DOOR
1B	ADJUST	11	DOOR
1C	ADJUST	12	DOOR
1D	ADJUST	13	DOOR
1E	ADJUST	14	DOOR
1F	ADJUST	15	DOOR
1G	ADJUST	16	DOOR
1H	ADJUST	17	DOOR
1I	ADJUST	18	DOOR
1J	ADJUST	19	DOOR
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1R	ADJUST	27	DOOR
1S	ADJUST	28	DOOR
1T	ADJUST	29	DOOR
1U	ADJUST	30	DOOR
1V	ADJUST	31	DOOR
1W	ADJUST	32	DOOR
1X	ADJUST	33	DOOR
1Y	ADJUST	34	DOOR
1Z	ADJUST	35	DOOR
2A	ADJUST	36	DOOR
2B	ADJUST	37	DOOR
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3W	ADJUST	84	DOOR
3X	ADJUST	85	DOOR
3Y	ADJUST	86	DOOR
3Z	ADJUST	87	DOOR
4A	ADJUST	88	DOOR
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4D	ADJUST	91	DOOR
4E	ADJUST	92	DOOR
4F	ADJUST	93	DOOR
4G	ADJUST	94	DOOR
4H	ADJUST	95	DOOR
4I	ADJUST	96	DOOR
4J	ADJUST	97	DOOR
4K	ADJUST	98	DOOR
4L	ADJUST	99	DOOR
4M	ADJUST	100	DOOR

SHEET INDEX

NO.	DESCRIPTION	NO.	DESCRIPTION
5-1-2	SITE PLAN/BOUNDARY MAP	CG-2	CAL GREEN WRK SHEET
A-1	FLOOR PLAN	CG-3	CAL GREEN WRK SHFLOOR PLAN
A-1.1	1st FLOOR PLAN .25"	CG-4	CAL GREEN WRK SHEET
A-1.2	2nd FLOOR PLAN .25"	S.1.1	STRUCTURAL GEN. NOTES
A-2	ROOF PLAN	S.1.2	STRUCTURAL TYP. CONCRETE DTL
A-3	ELEVATION W/E	S.1.3	BAMCORE DETAILS
A-4	ELEVATION S/N	S.2.1	FOUNDATION
D-1	ARCHITECTURAL DETAILS	S.2.2	FRAMING DETAILS
D-2	ARCHITECTURAL DETAILS	S.2.3	ROOF FRAMING DETAILS
D-3	ARCHITECTURAL DETAILS	S.3.0	FOUNDATION DETAILS
D-4	BAMCORE DETAILS	S.4.0	FOUNDATION DETAILS
D-5	BAMCORE DETAILS	S.5.0	FRAMING DETAILS
D-6	BAMCORE DETAILS	S.6.0	FRAMING DETAILS - SHEAR WALL
D-7	SKYLIGHT DETAILS	C-2	ECHO KNOLL APPROACH
E-1	ELECTRICAL PLAN	C-3	ECHO KNOLL APPROACH
R-1	RADIANT PLAN	C-4	ECHO KNOLL APPROACH
S-C1	WINDOW /DOOR SCHD	C-5	ECHO KNOLL APPROACH
T-24	TITLE 24	EAS-1	EASEMENT APPROACH
CG-1	CAL GREEN WRK SHEET	C-6	OVERALL ROUGH GRADING
*A-5	See Barn Site Plan/ New Index	C-7	RESIDENCE ROUGH GRADING
		C-8	BARN ROUGH GRADING

PROJECT SCOPE

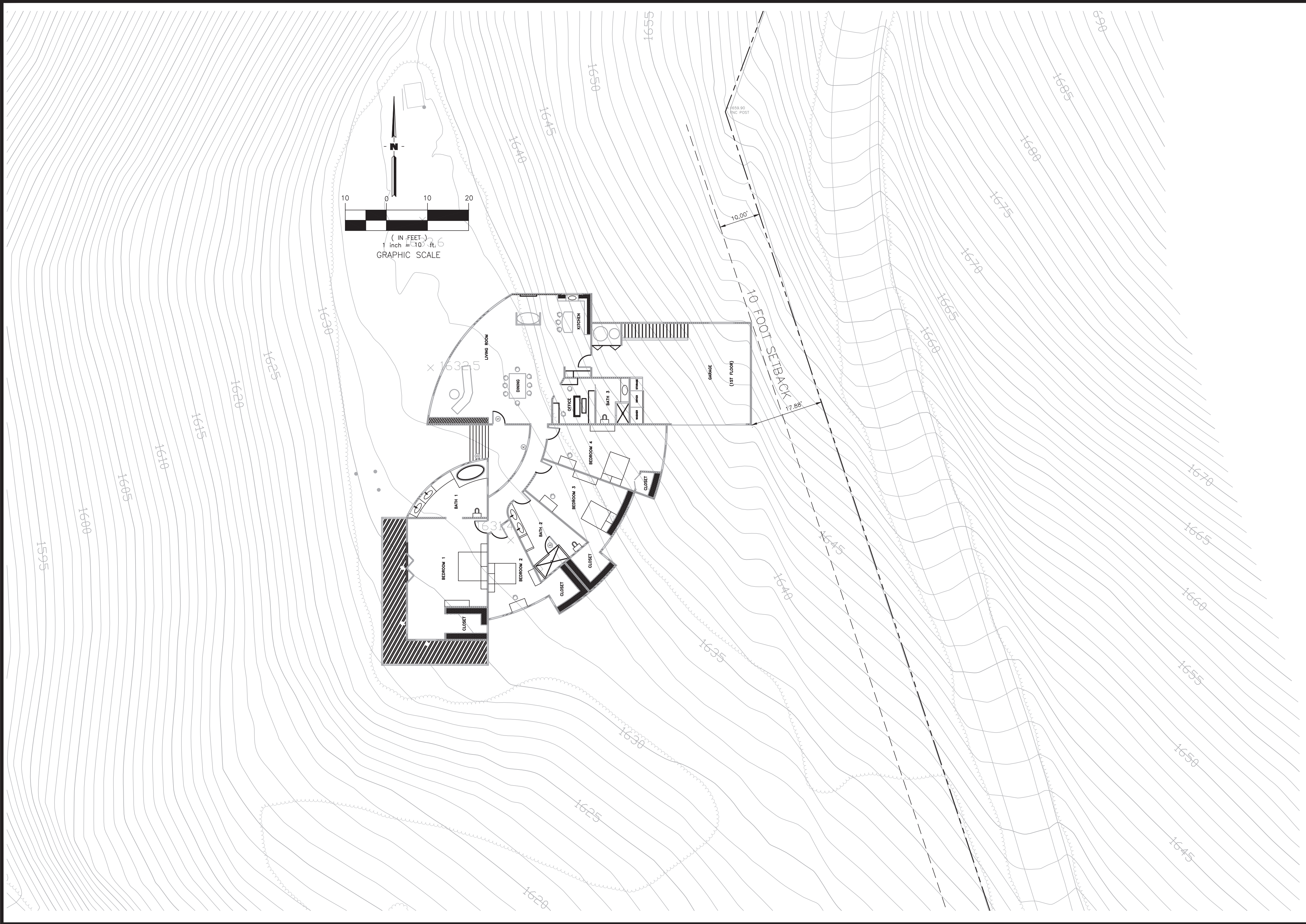
New 3229sq. ft SFD with 928 sq. ft Attached Garage, 900sq. ft storage, PV Solar System, 3500 sq. ft Agricultural barn, and Gardens.



Print Date: 02/02/2022

Date:	FEB. 2022
Project:	#15057
Scale:	As Noted
Drawn by:	MS
Sheet Title:	
Building & Site Approval Application	
Rev	Description
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Contractor: Contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to ensure safe and complete responsibility for job site conditions during the course of construction of the project including safety of all persons and property on the site. The contractor shall be made to apply continuously and not be limited to the following: safety, health and environmental protection, fire protection, and other safety and health measures. The contractor shall be responsible for the safety of all persons and property on the site. The contractor shall be responsible for the safety of all persons and property on the site. The contractor shall be responsible for the safety of all persons and property on the site.



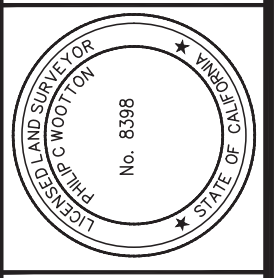
JOB NO. 2459

SHEET

1

CARROLL
 ENGINEERING
engineers and surveyors
 1101 S. WINCHESTER BLVD.
 SAN JOSE, CA 95128
 TEL: 408-261-0895
 FAX: 408-261-0895
 E-MAIL: Robert@carroll-engineering.com

DATE: 10/21/2022
 SCALE: 1"=10'
 DRAWN BY: KWC
 DESIGNED BY: PCW
 CHECKED BY: PCW
 COPYRIGHT 2022, CARROLL ENGINEERING
 ALL RIGHTS RESERVED

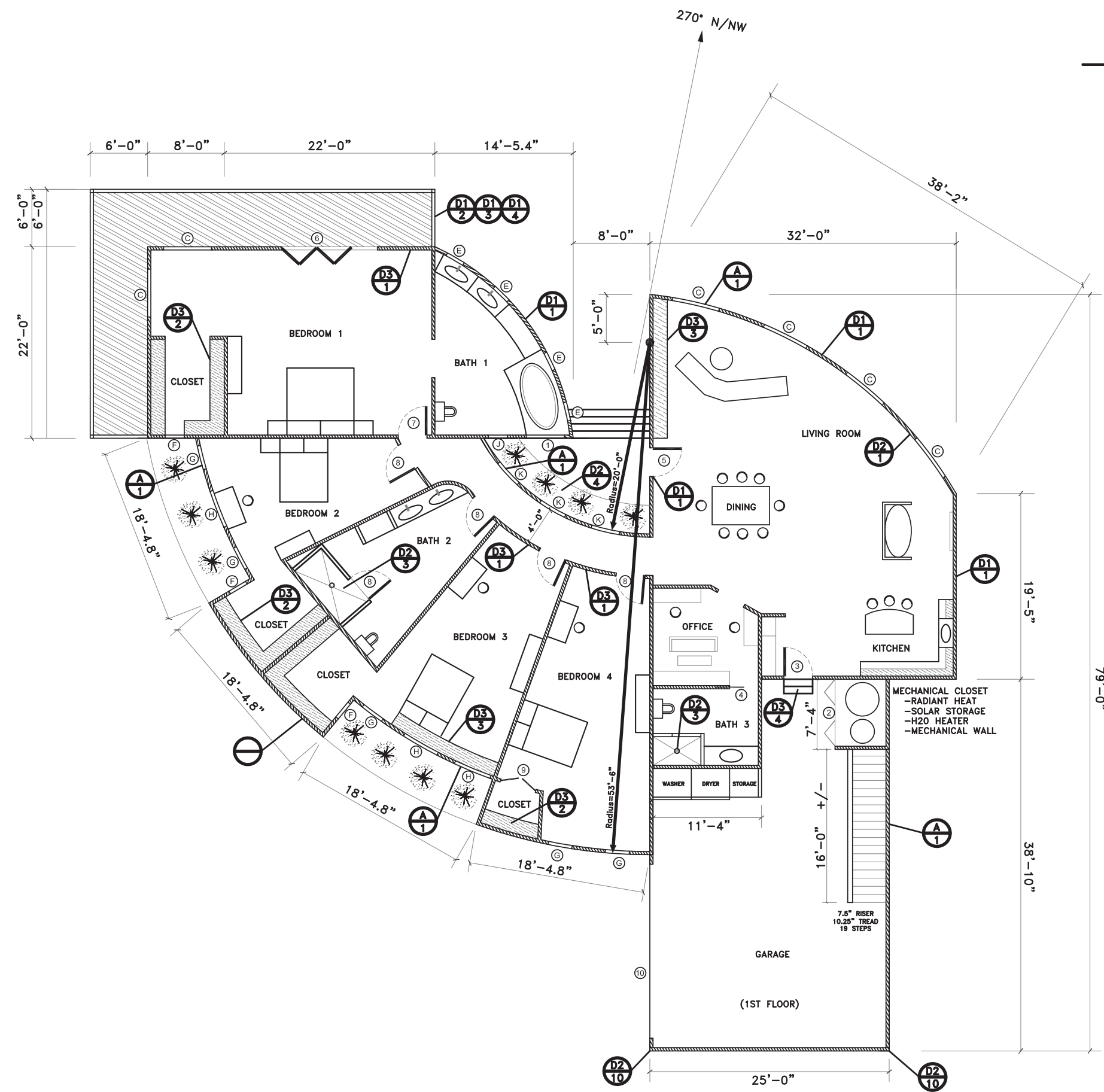


BUILDING STAKING
LARSON RESIDENCE
 10818 Crothers Road
 San Jose California

MARK	DATE	DESCRIPTION	BY

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

C:\2459 - Larson Residence_LDW\2459st1.dwg 10-25-22 09:23:55 AM philip



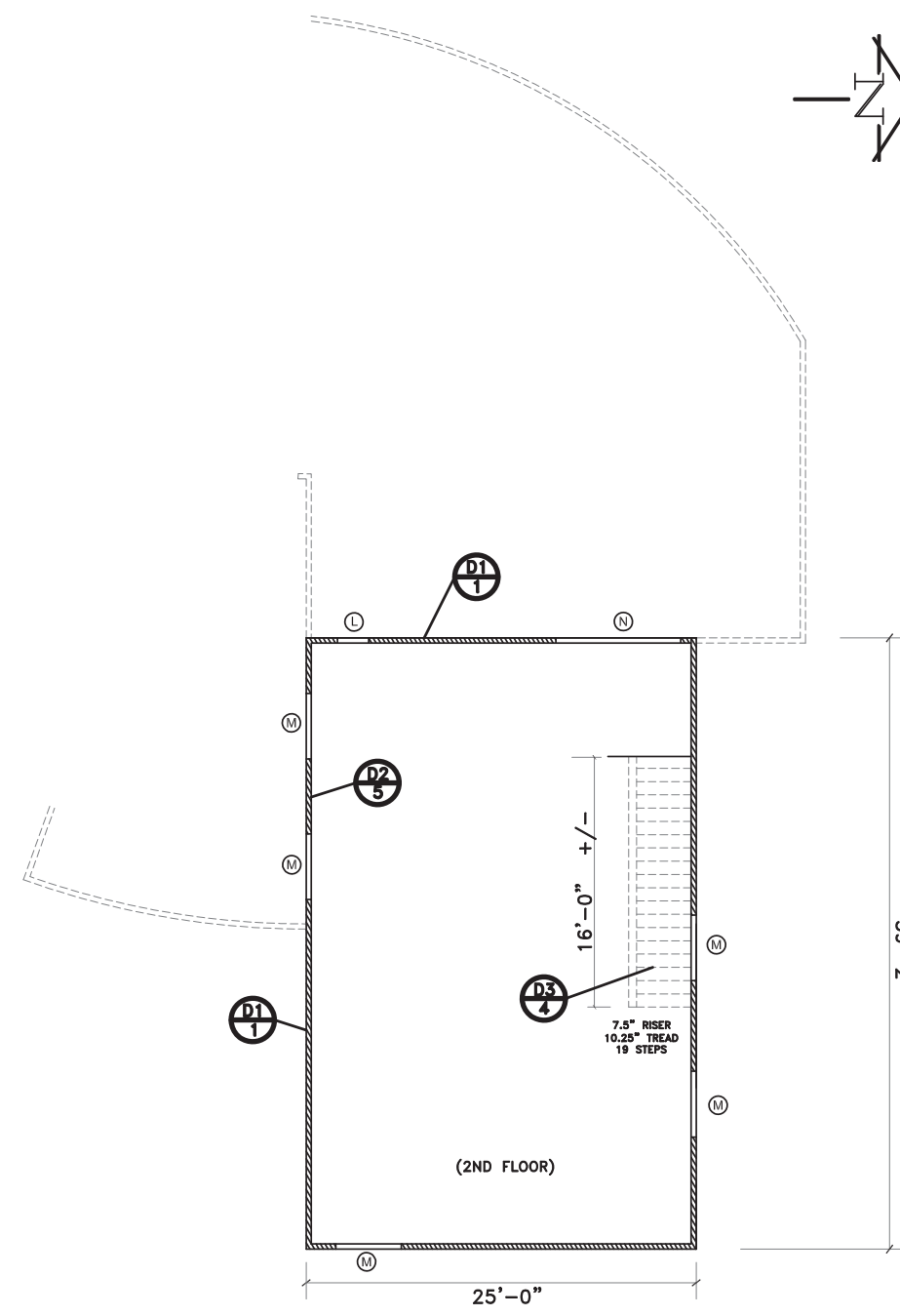
PLAN VIEW (1st FLOOR)
SCALE 1/8" = 1'

FLOOR PLAN NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
2. VERIFY IN FIELD ALL EXISTING DIMENSIONS.
3. ALL GYPSUM BOARD TO BE TYPE "X".
4. SEE INTERIOR ELEVATIONS FOR HEIGHTS OF HALF WALLS.
5. ALL ENTRANCES SHALL BE ACCESSIBLE.
6. PROVIDE METAL CORNER GUARDS ON ALL KITCHEN CORNERS, S.K.D.
7. ALL THRESHOLDS TO BE ADA COMPLIANT.
8. ALL LEVEL LANDINGS TO BE ADA COMPLIANT.
9. PER 1011.1 & 1011.3 TACTILE EXIT SIGNS EACH GRADE-LEVEL EXTERIOR EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1 SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT." - IF APPLICABLE
10. ALL INTERIOR WALLS TO BE TYPE 1; UNLESS OTHERWISE NOTED. WALLS TO BE FINISHED LEVEL 5

LEGEND

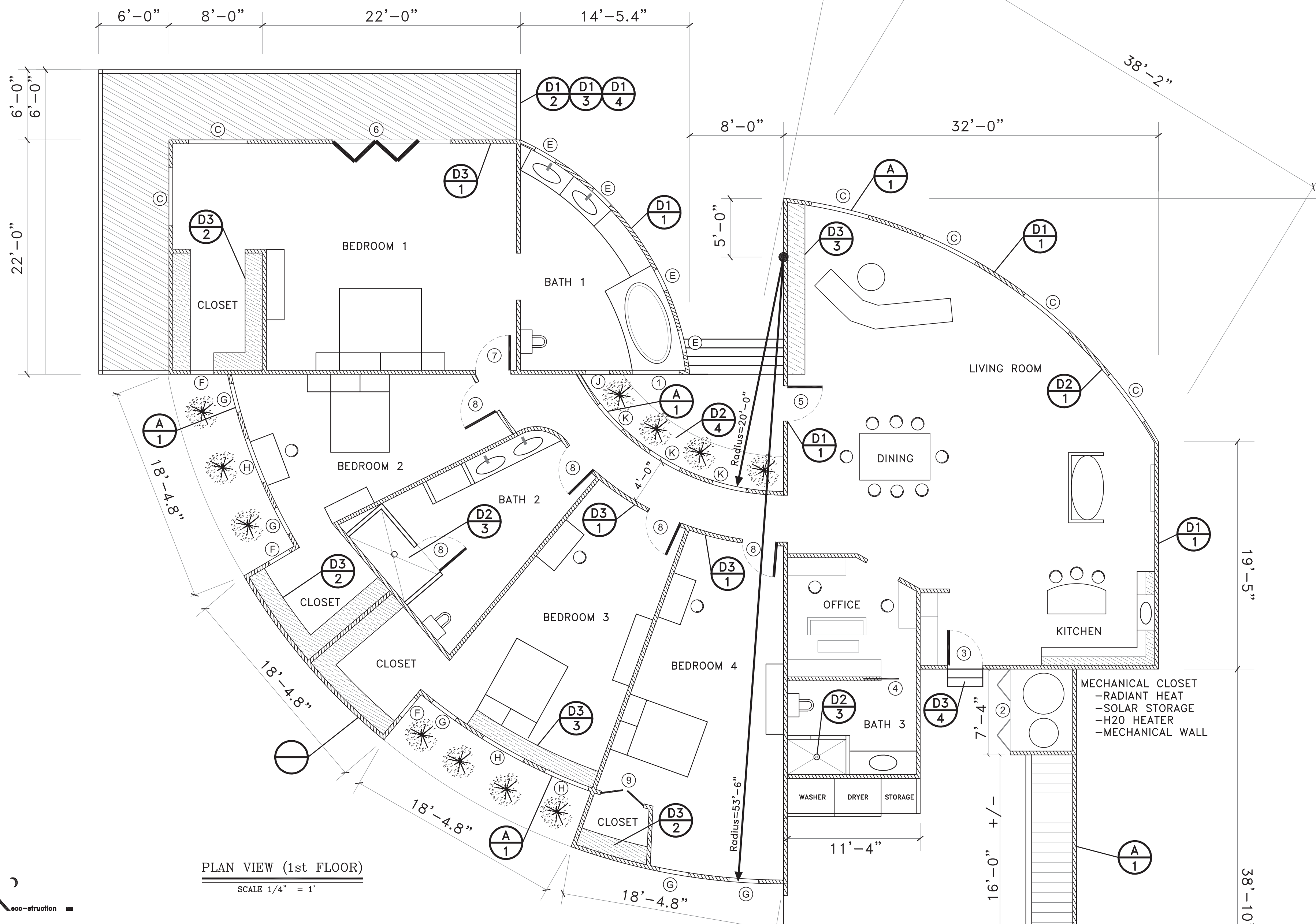
- | | |
|----------------------------|--|
| (N) CONSTRUCTION TO REMAIN | (W) DOOR NOTE, SEE A6.1A |
| (R) CONSTRUCTION TO REMAIN | (W) WINDOW NOTE, SEE A6.1B |
| (N/C) AREA NOT IN CONTRACT | (D) DUPLEX RECEPTACLE/OUTLET |
| (R) 1HR RATED WALL | (D) DUPLEX RECEPTACLE/OUTLET UNDER COUNTER |
| (K) KEYNOTE, SEE A6.3 | (C) CABLE |
| (F) FINISH NOTE, SEE A6.2 | (D) COMBINATION DUPLEX/DATA FLOOR OUTLET |
| | (A) DATA/TELEPHONE |



PLAN VIEW (2nd FLOOR)
SCALE 1/8" = 1'



DATE	REVISION	BY
LARSON RESIDENCE 10818 Crothers Road San Jose, CA 95127		
PLAN VIEW		
1st FLOOR		
2nd FLOOR		
DRAWN: NN		
CHECKED: MS		
DATE: 2-22-23		
SCALE: 1/8"=1'		
SHEET		
A1		



PLAN VIEW (1st FLOOR)
SCALE 1/4" = 1'



DATE	REVISION	BY

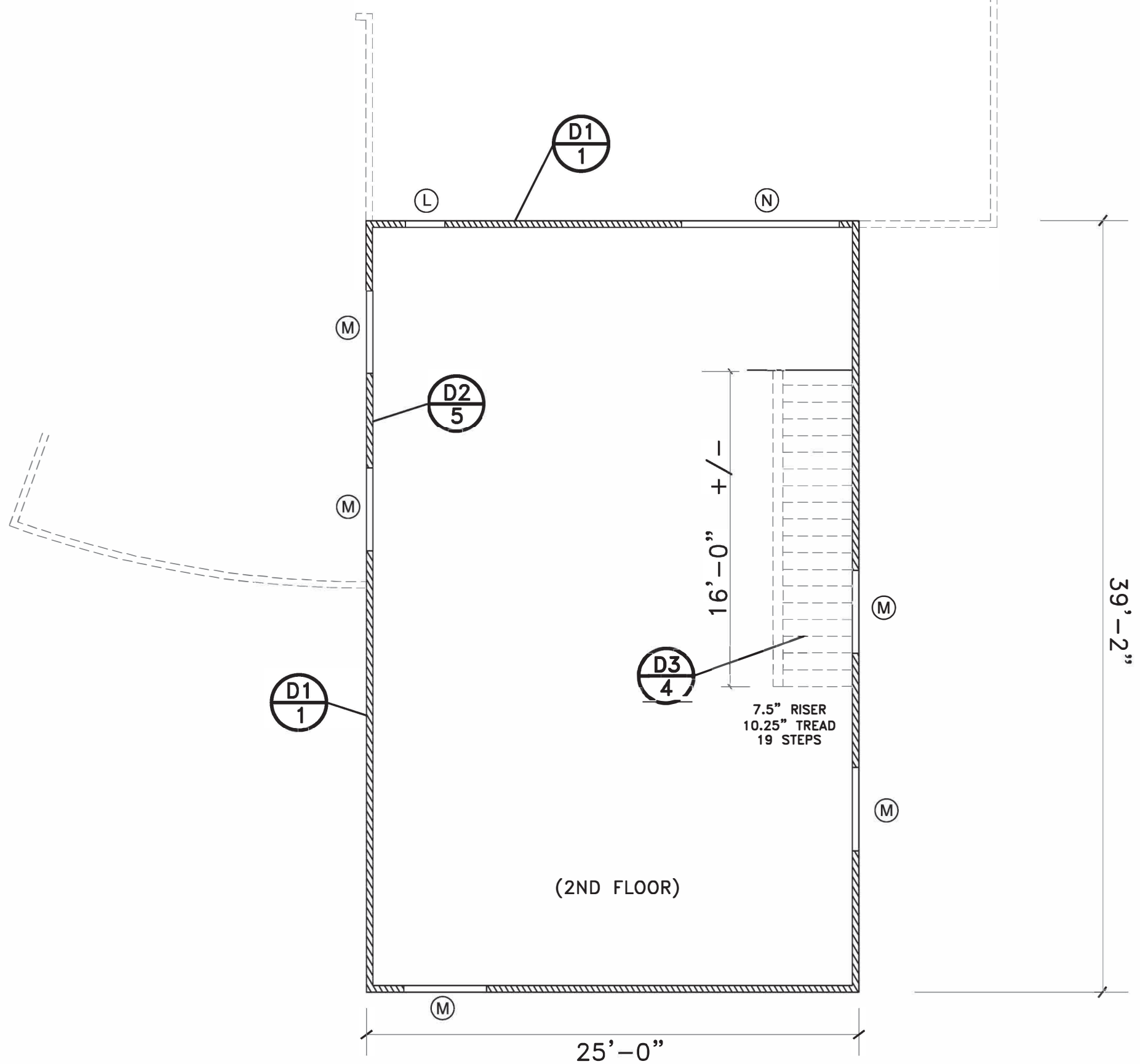


LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

PLAN VIEW
1ST FLOOR

DRAWN: NN
CHECKED: MS
DATE: 2-22-23
SCALE: 1/4"=1'

SHEET
A1.1



PLAN VIEW (2nd FLOOR)
 SCALE 1/4" = 1'



DATE	REVISION	BY

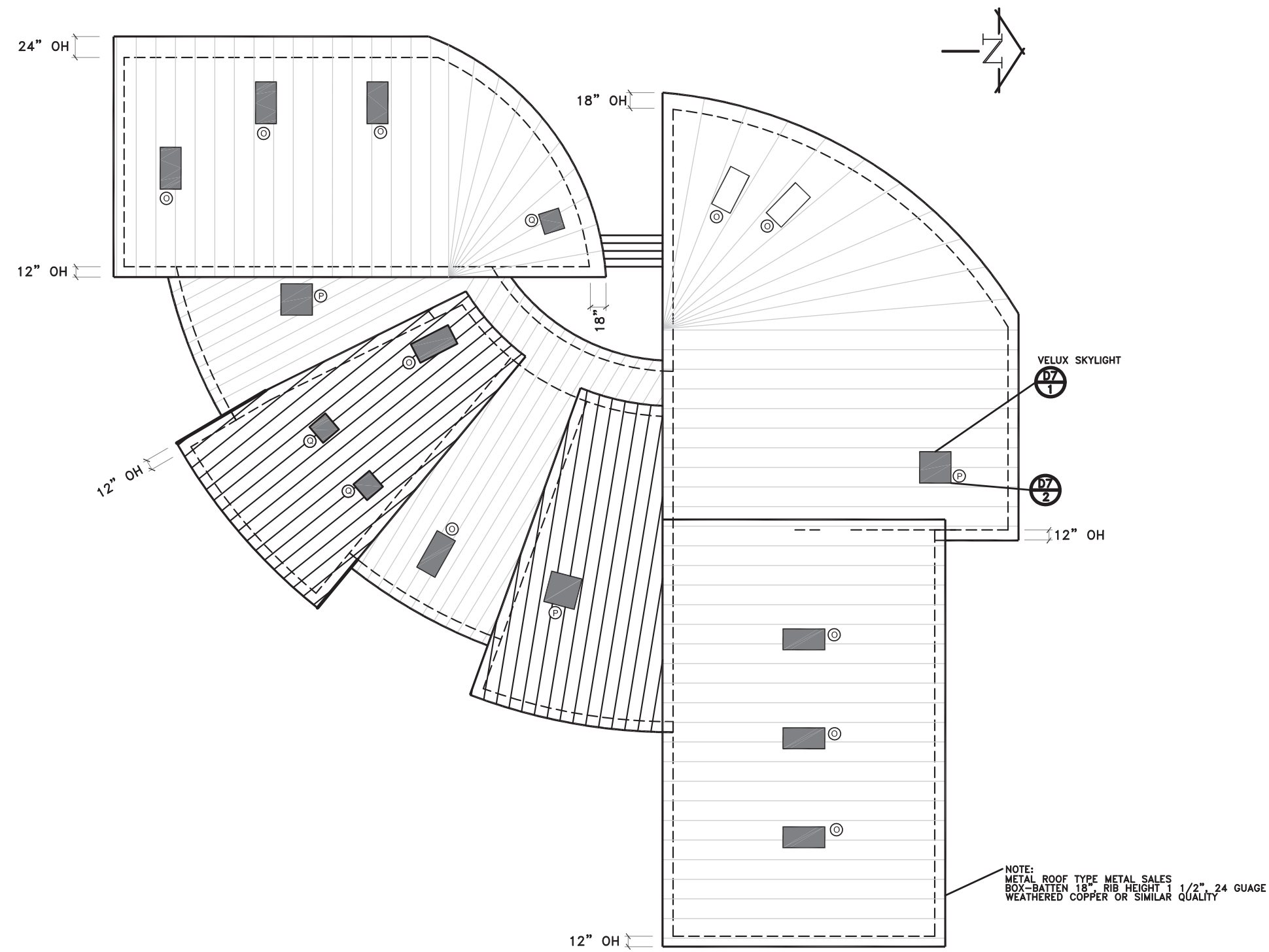


LARSON RESIDENCE
 10818 Crothers Road
 San Jose, CA 95127

PLAN VIEW
 2ND FLOOR

DRAWN: NN
 CHECKED: MS
 DATE: 2-22-23
 SCALE: 1/4"=1'

SHEET
 A1.2



ROOF PLAN VIEW

SCALE 1/8" = 1'

DATE	REVISION	BY

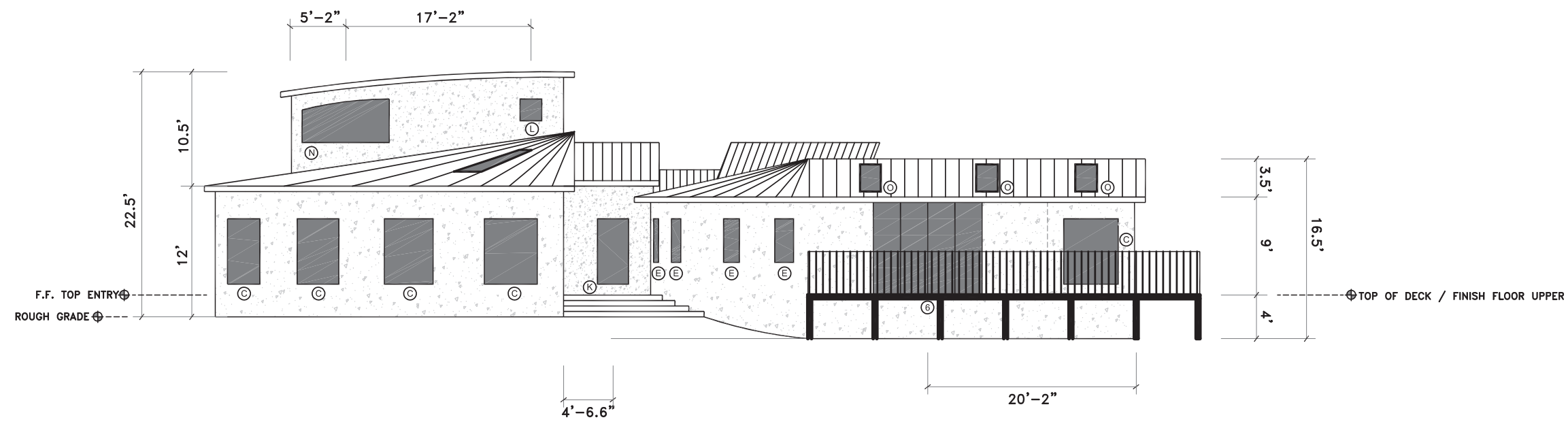


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10818 Crothers Road
San Jose, CA 95127

ROOF PLAN
VIEW

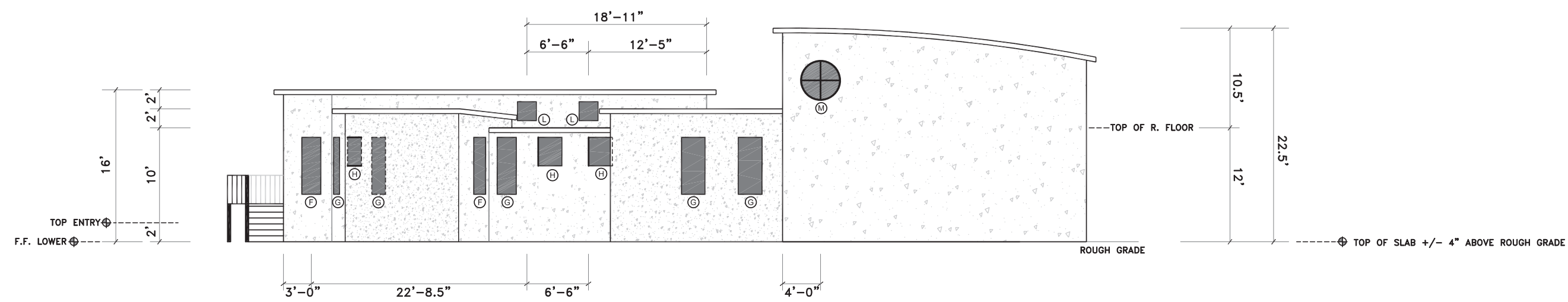
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CHECKED: MS
DATE: 2-22-23
SCALE: 1/8"=1'

SHEET
A2



WEST ELEVATION

SCALE 1/8" = 1'



EAST ELEVATION

SCALE 1/8" = 1'



DATE	REVISION	BY

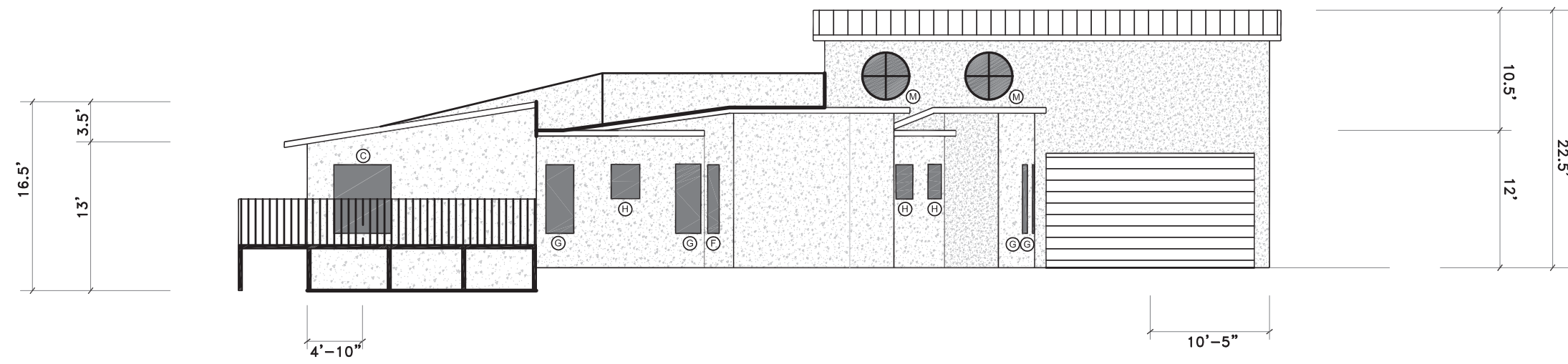


LARSON RESIDENCE
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San Jose, CA 95127

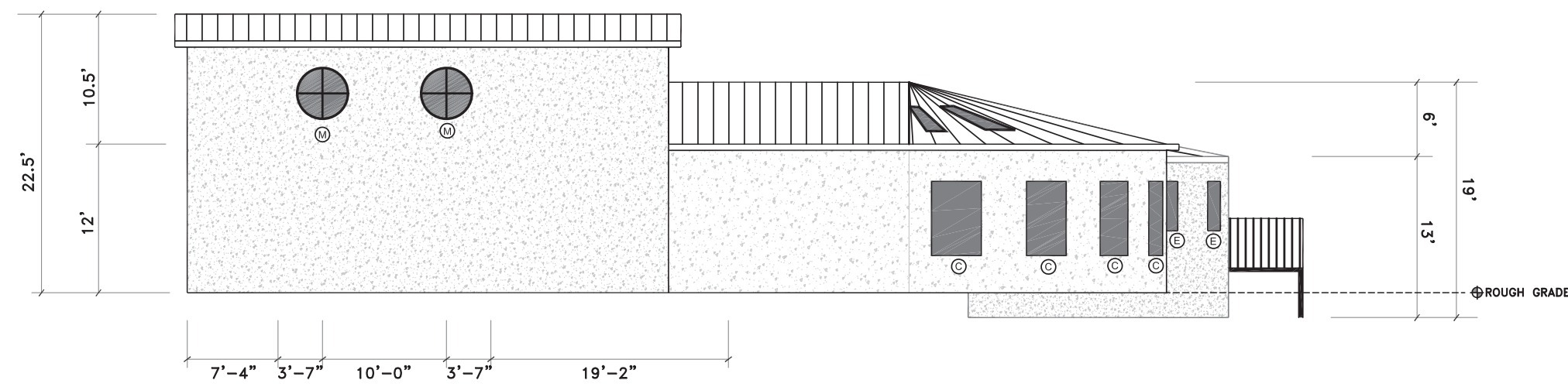
WEST / EAST
ELEVATIONS

DRAWN: NN
CHECKED: MS
DATE: 2-22-23
SCALE: 1/8"=1'

SHEET
A3



SOUTH ELEVATION
SCALE 1/8" = 1'



NORTH ELEVATION
SCALE 1/8" = 1'



DATE	REVISION	BY

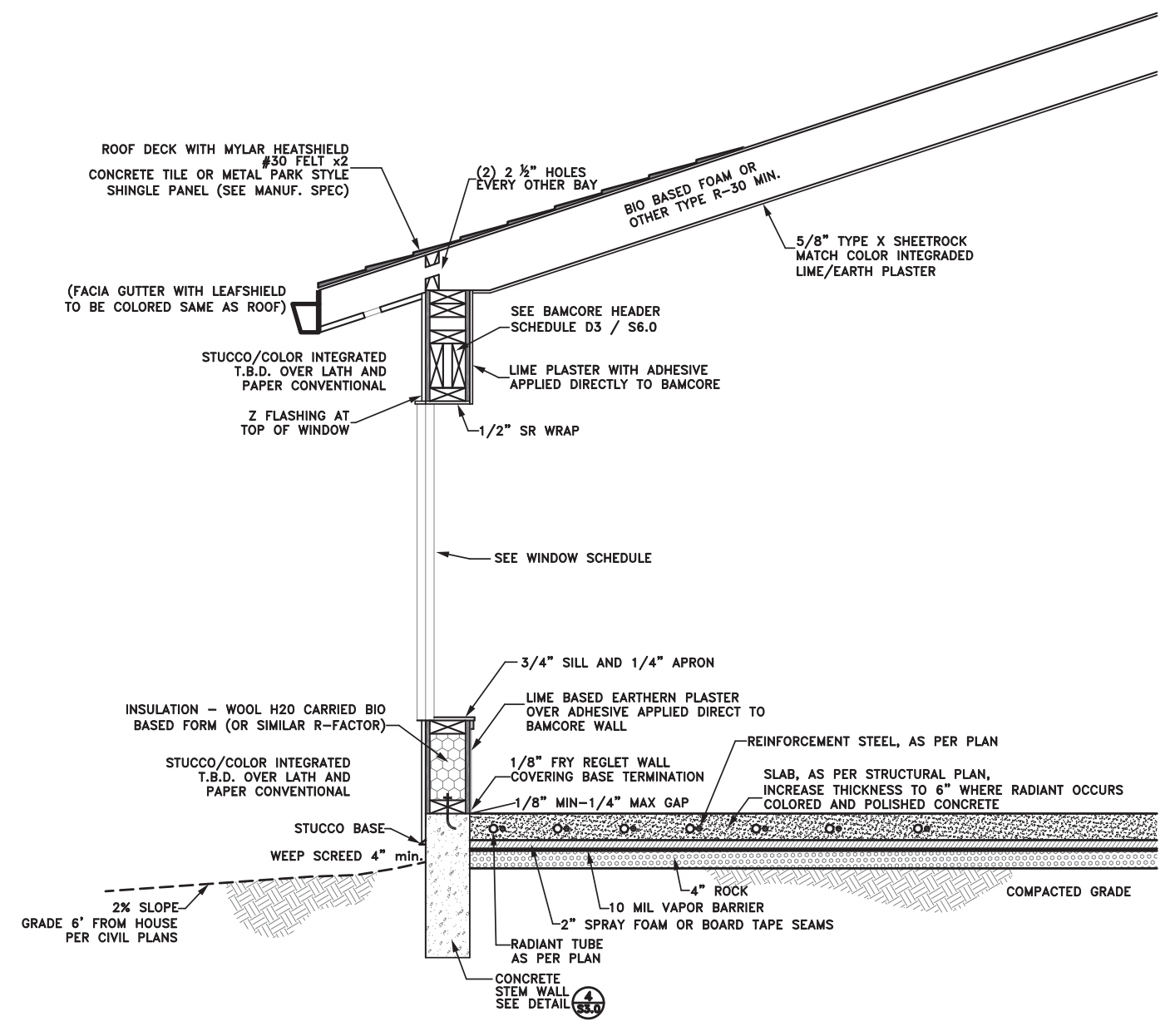


LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

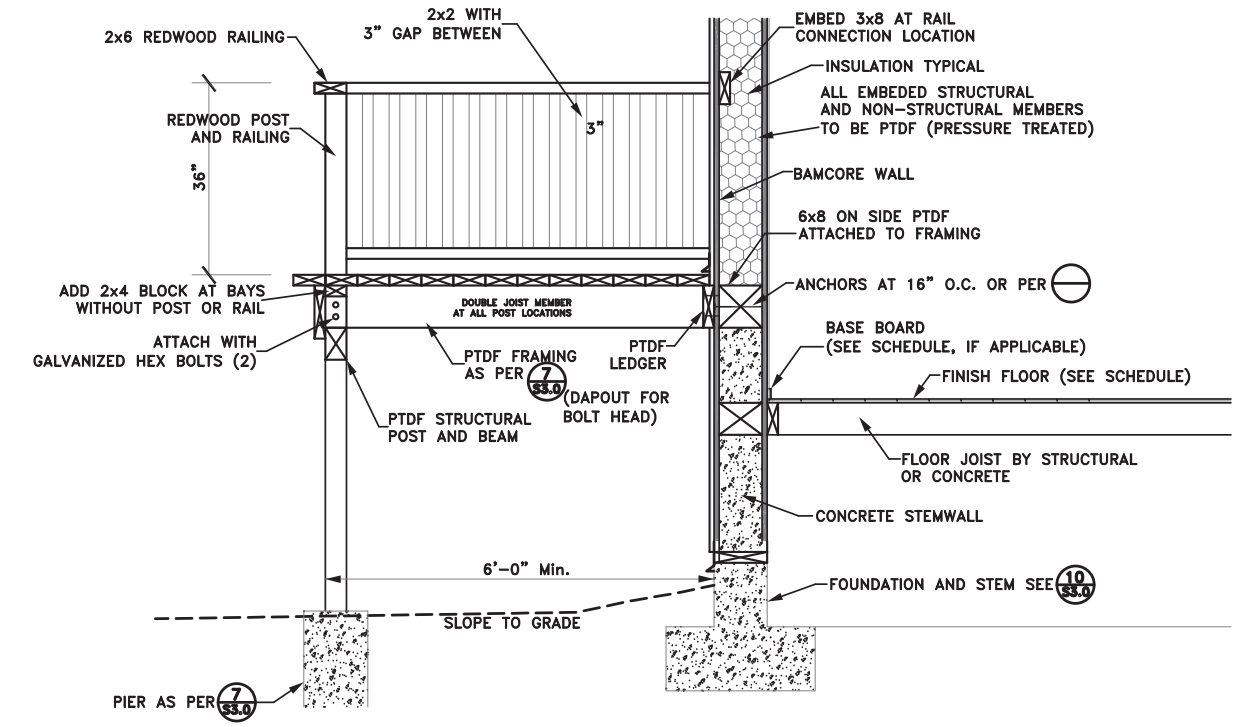
SOUTH / NORTH
ELEVATIONS

DRAWN: NN
CHECKED: MS
DATE: 2-22-23
SCALE: 1/8"=1'

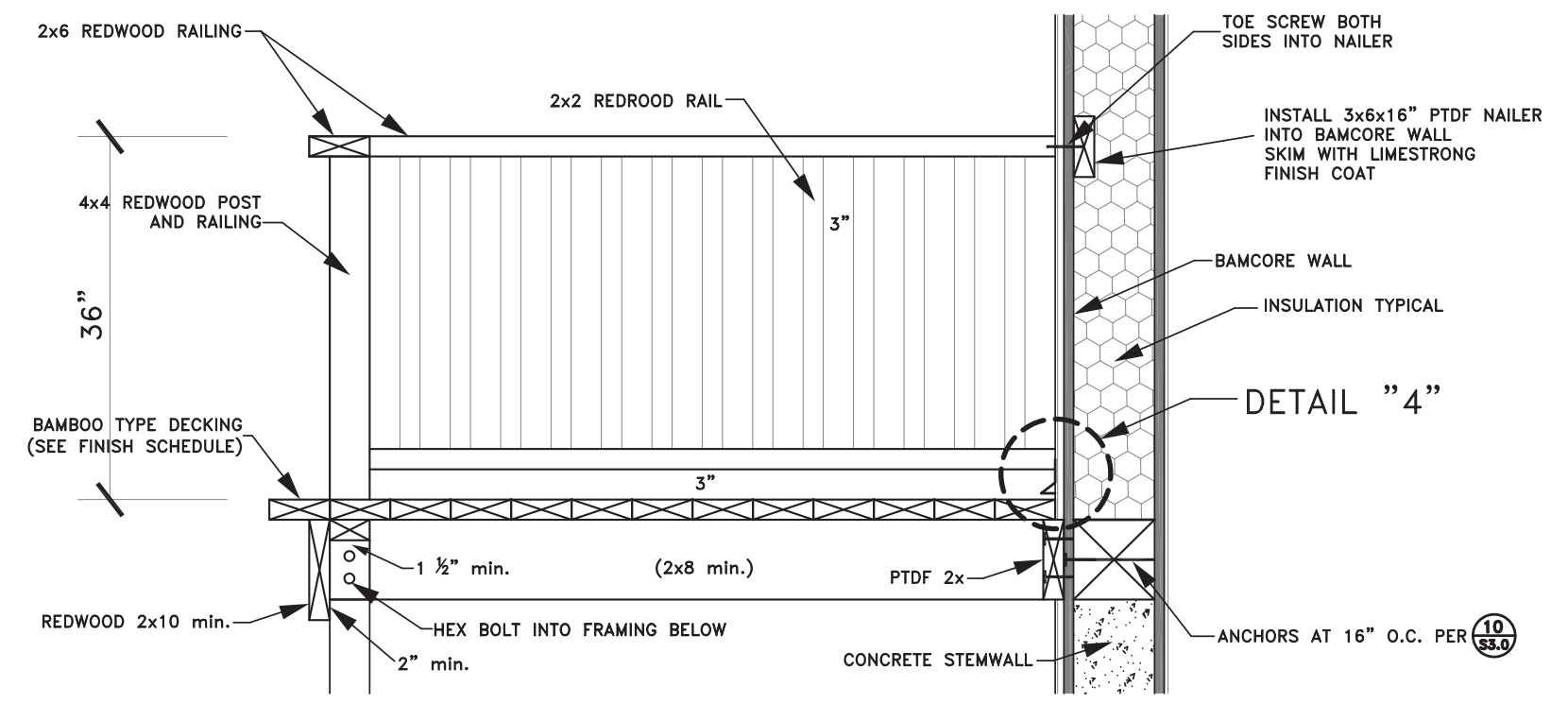
SHEET
A4



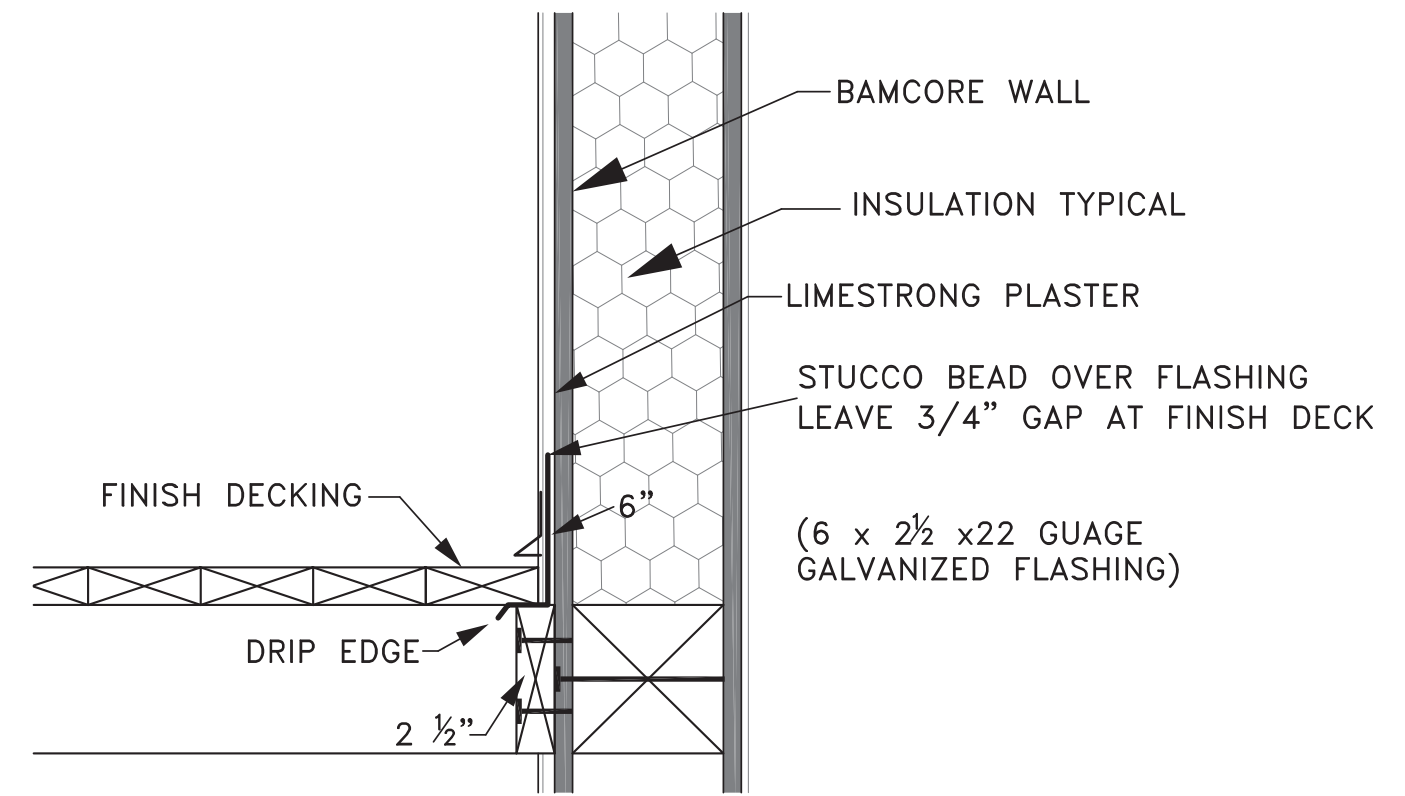
WALL DETAIL 1
SCALE 1/2" = 1'




DECK TO WALL 2
SCALE 1/2" = 1'

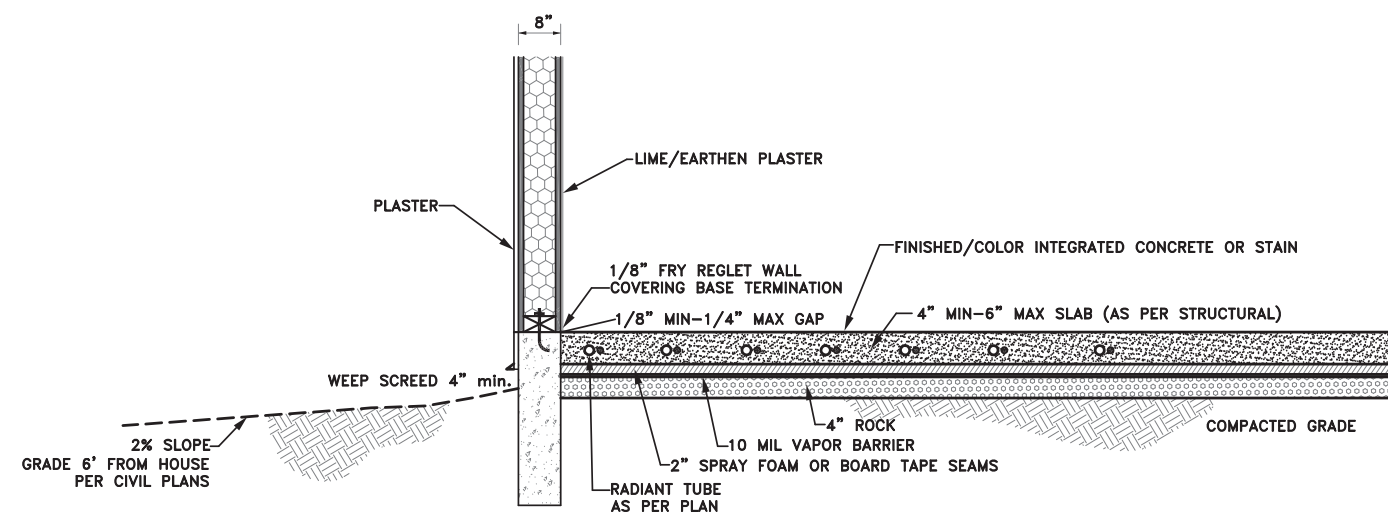


DECK RAILING 3
SCALE 1" = 1'

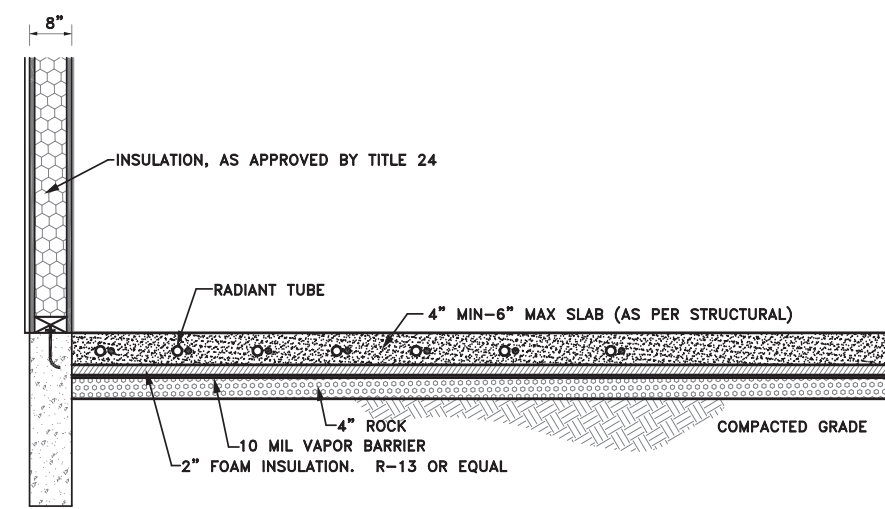


DETAIL 4
NOT TO SCALE

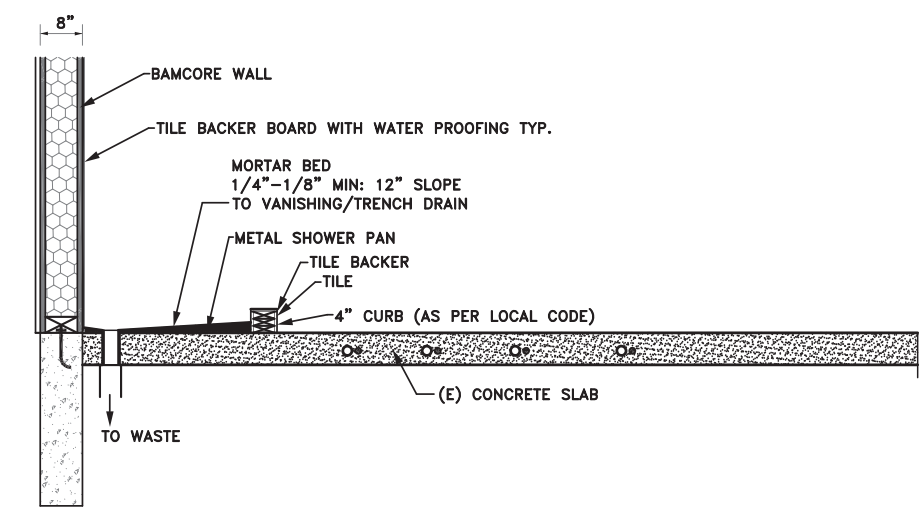
BY	
REVISION	
DATE	
	
LARSON RESIDENCE 10818 Crothers Road San Jose, CA 95127	
DETAILS	
DRAWN: NN	
CHECKED: MS	
DATE: 2-22-23	
SCALE: AS NOTED	
SHEET	D1



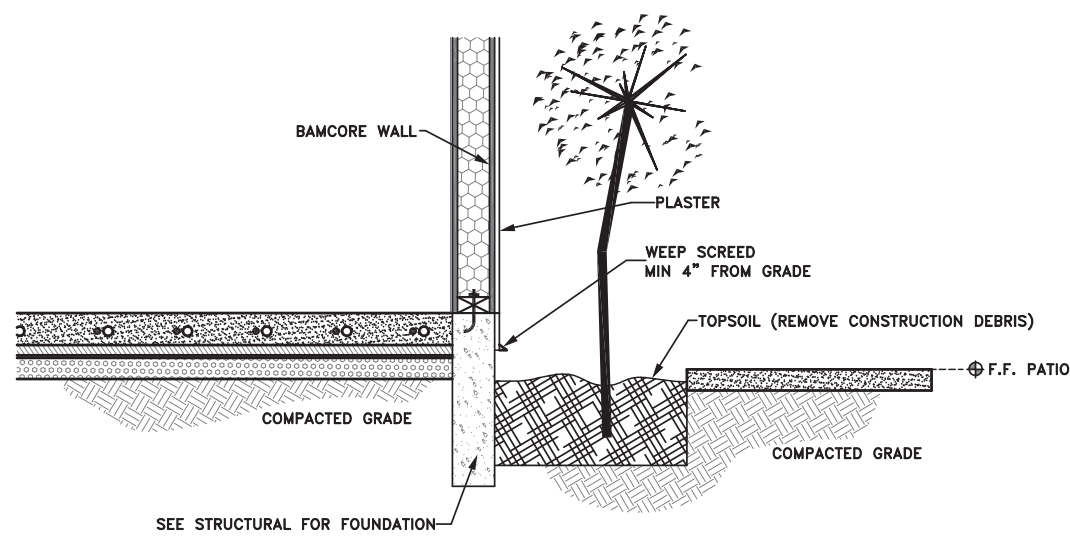
FINISH FLOOR CONCRETE 1
SCALE 1/2" = 1'



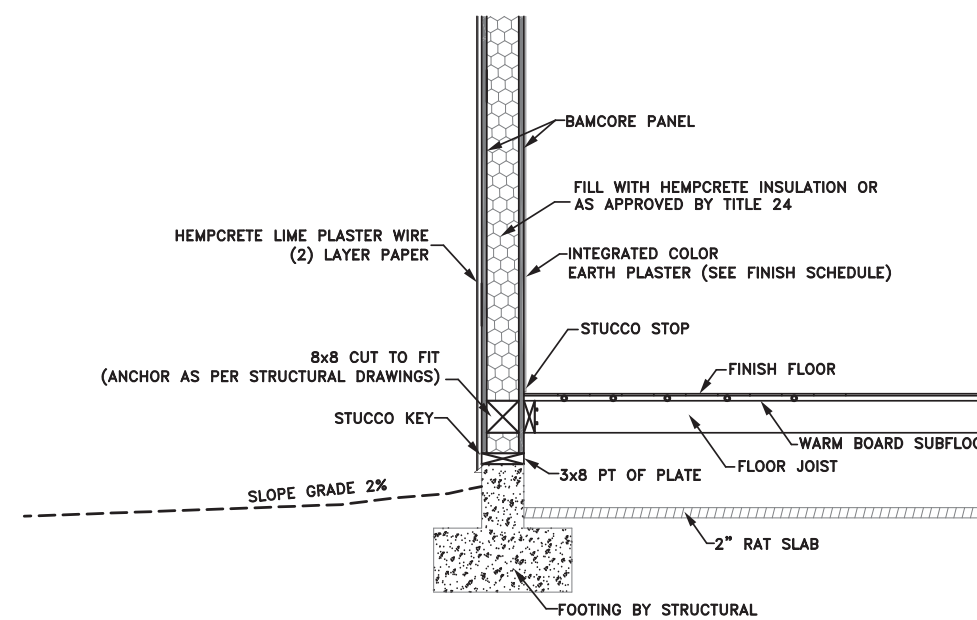
INSULATED RADIANT SLAB 2
SCALE 1/2" = 1'



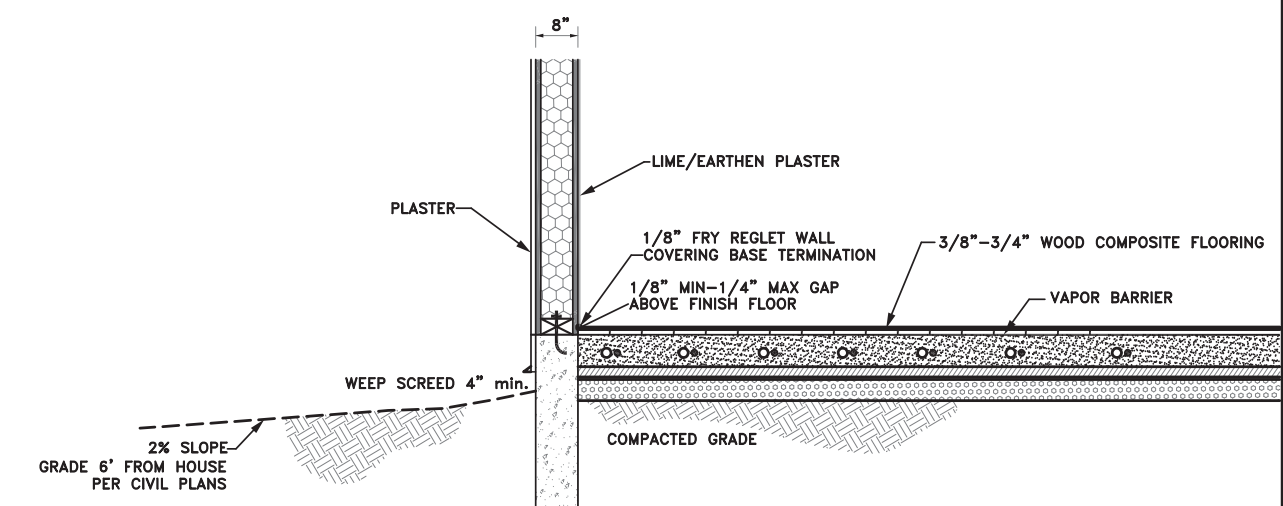
SHOWER PAN DETAIL 3
SCALE 1/2" = 1'



PATIO PLANTING DETAIL 4
SCALE 1/2" = 1'



BAMCORE WALL DETAIL 5
SCALE 1/2" = 1'



FINISH FLOOR WOOD FLOOR 6
SCALE 1/2" = 1'

REVISION	DATE	BY

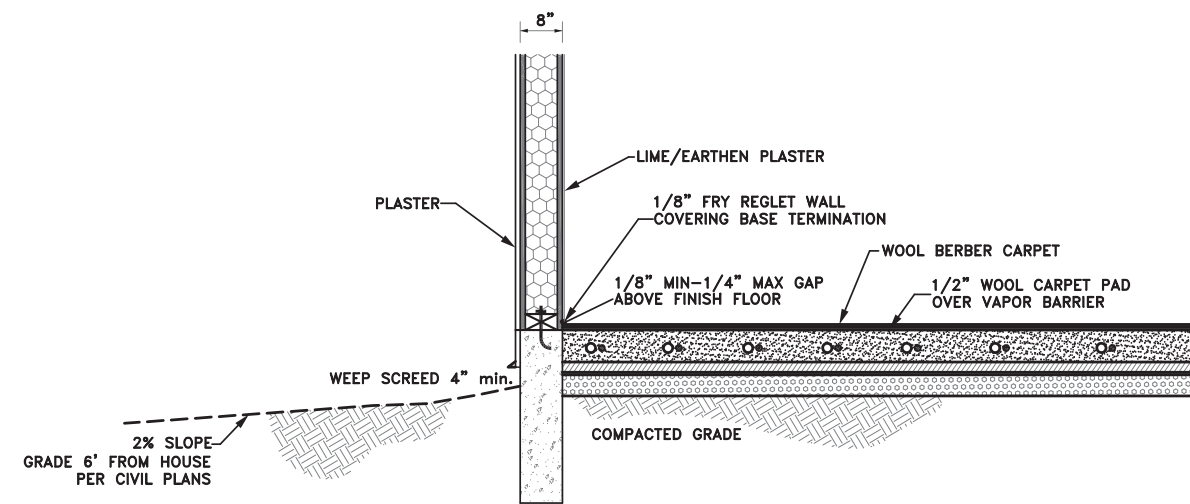


LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

DETAILS

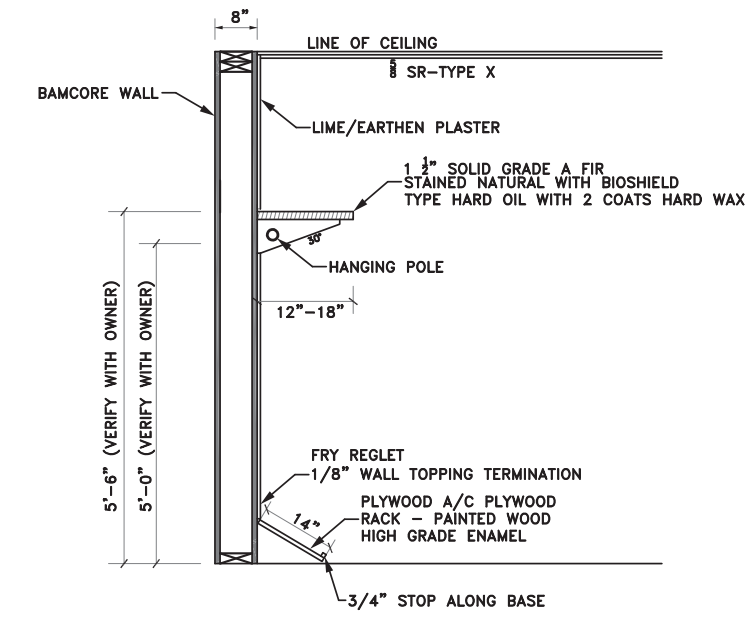
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DATE: 2-22-23
SCALE: AS NOTED

SHEET
D2



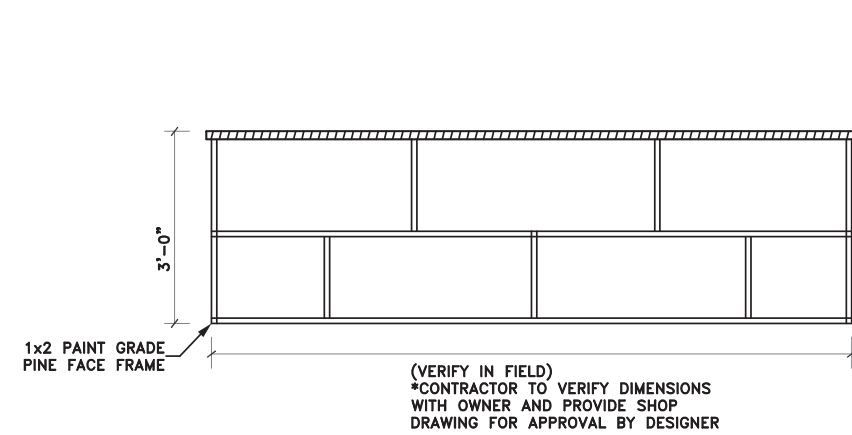
FINISH FLOOR CARPET 1

SCALE 1/2" = 1'



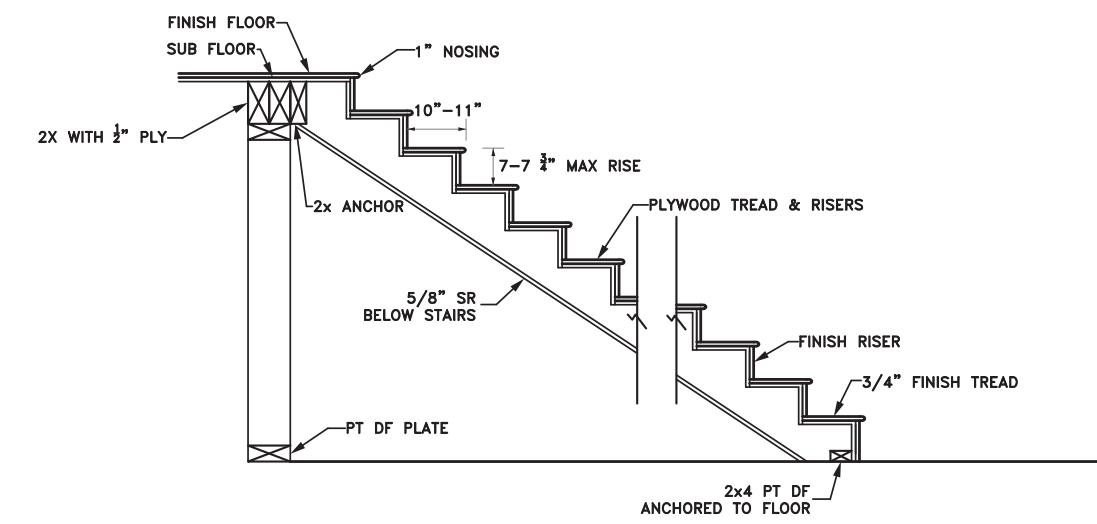
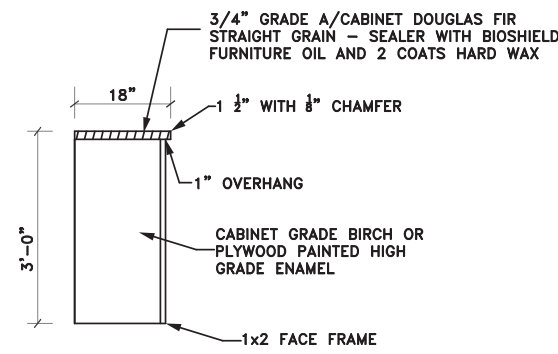
CLOSET SHELF & SHOE RACK DETAIL 2

SCALE 1/2" = 1'



ENTRY SHELF 3

SCALE 1/2" = 1'



STAIR DETAIL 4

SCALE 1/2" = 1'

REVISION	DATE	BY

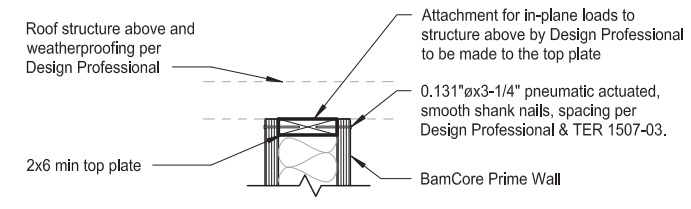


LARSON RESIDENCE
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San Jose, CA 95127

DETAILS

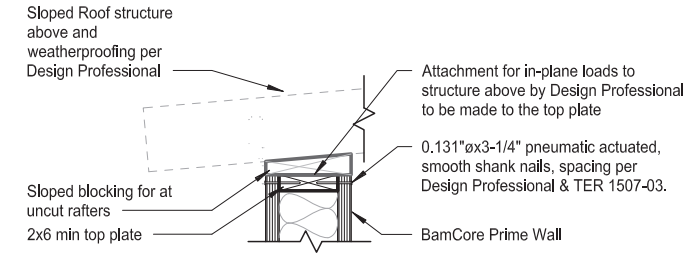
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SCALE: AS NOTED

SHEET
D3



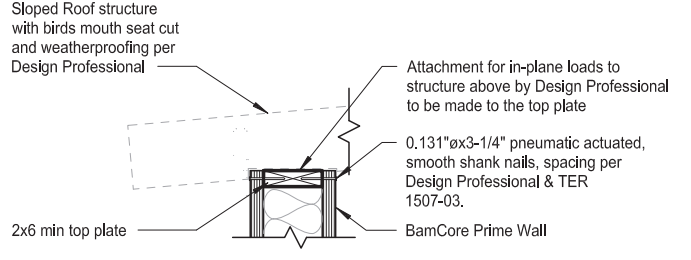
BamCore Top Plate (Section View)

1 Top Plate
1" = 1'-0"



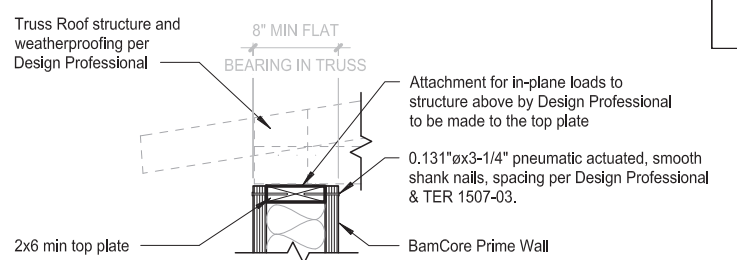
BamCore Top Plate Sloped Block (Section View)

2 Top Plate Alternate
1" = 1'-0"



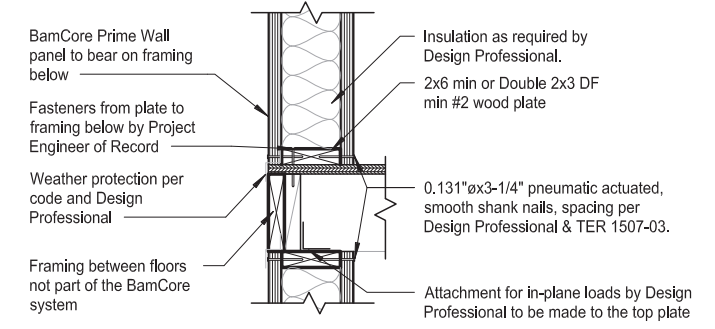
BamCore Top Plate Seat Cut Rafter (Section View)

3 Top Plate Alternate 2
1" = 1'-0"



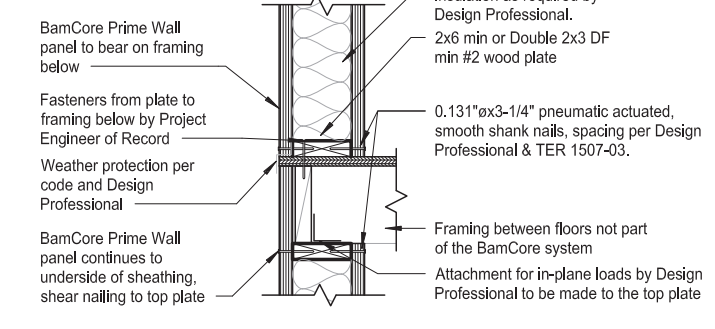
BamCore Top Plate Truss (Section View)

4 Top Plate Alternate 3
1" = 1'-0"



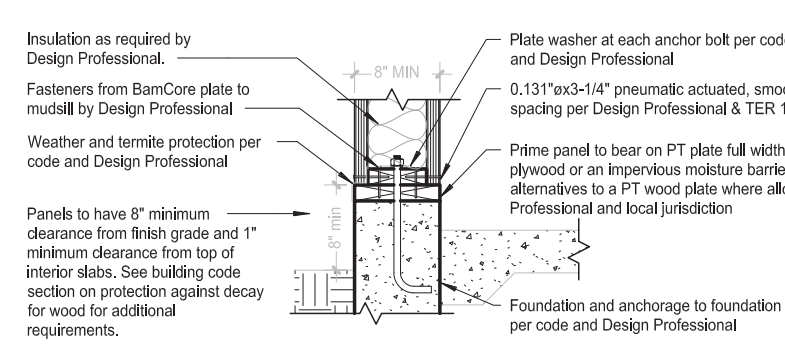
BamCore Bottom Plate on Framing (Section View)

6 BamCore Framing Between Floors
1" = 1'-0"



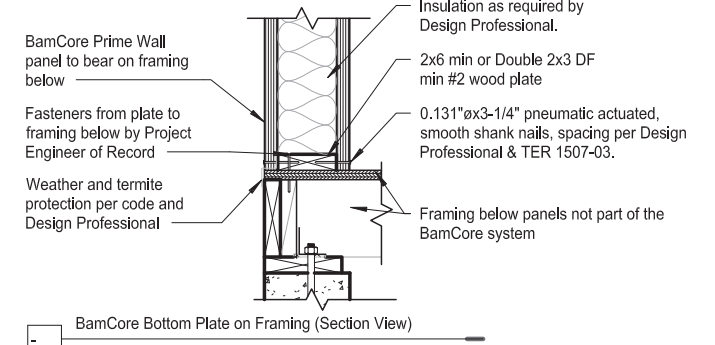
BamCore Framing Between Floors Alternate (Section View)

7 BamCore Framing Between Floors Alternate
1" = 1'-0"



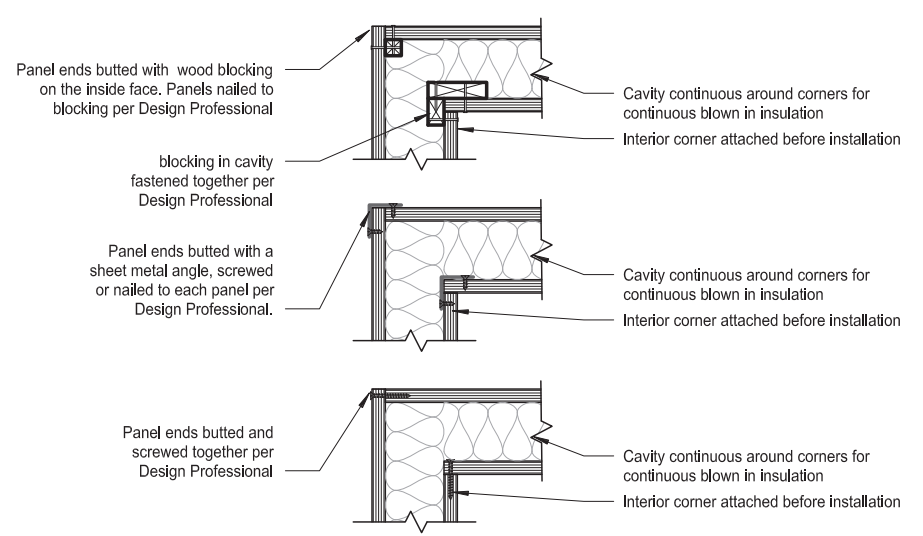
BamCore Bottom Plate on Concrete (Section View)

8 Bottom Plate Concrete
1" = 1'-0"



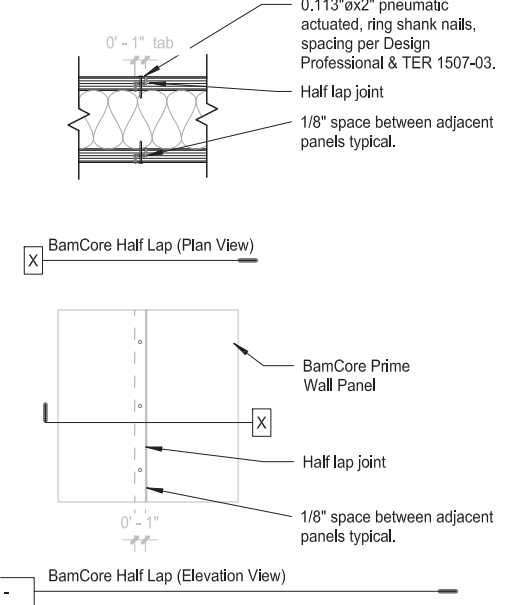
BamCore Bottom Plate on Framing (Section View)

9 Bottom Plate on Framing
1" = 1'-0"



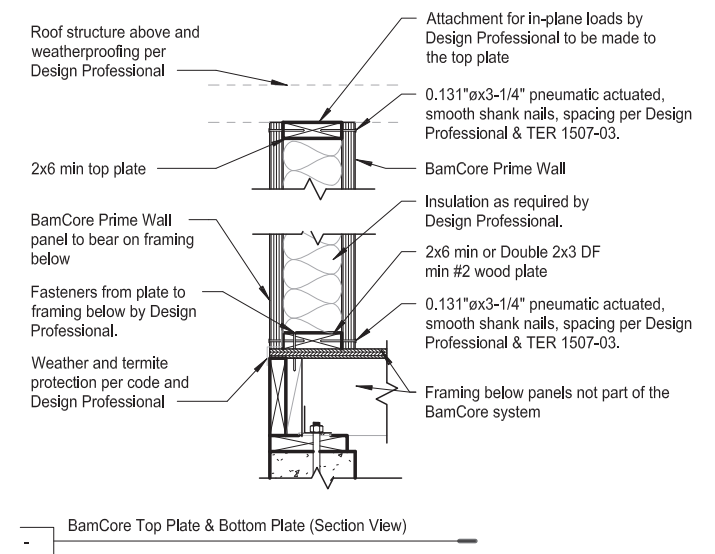
BamCore Corner Options (Plan View)

10 Corner Options
1" = 1'-0"



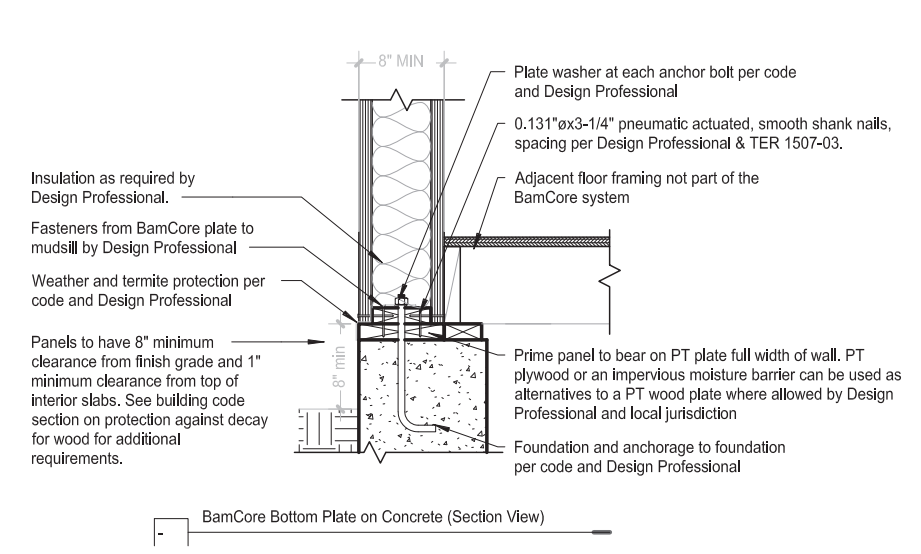
BamCore Half Lap (Elevation View)

11 Panel to Panel Half Lap
1" = 1'-0"



BamCore Top Plate & Bottom Plate (Section View)

12 Top and Bottom Plate
1" = 1'-0"



BamCore Bottom Plate on Concrete (Section View)

13 Bottom Plate Concrete Alternate
1" = 1'-0"

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TYPICAL
DETAILS 1

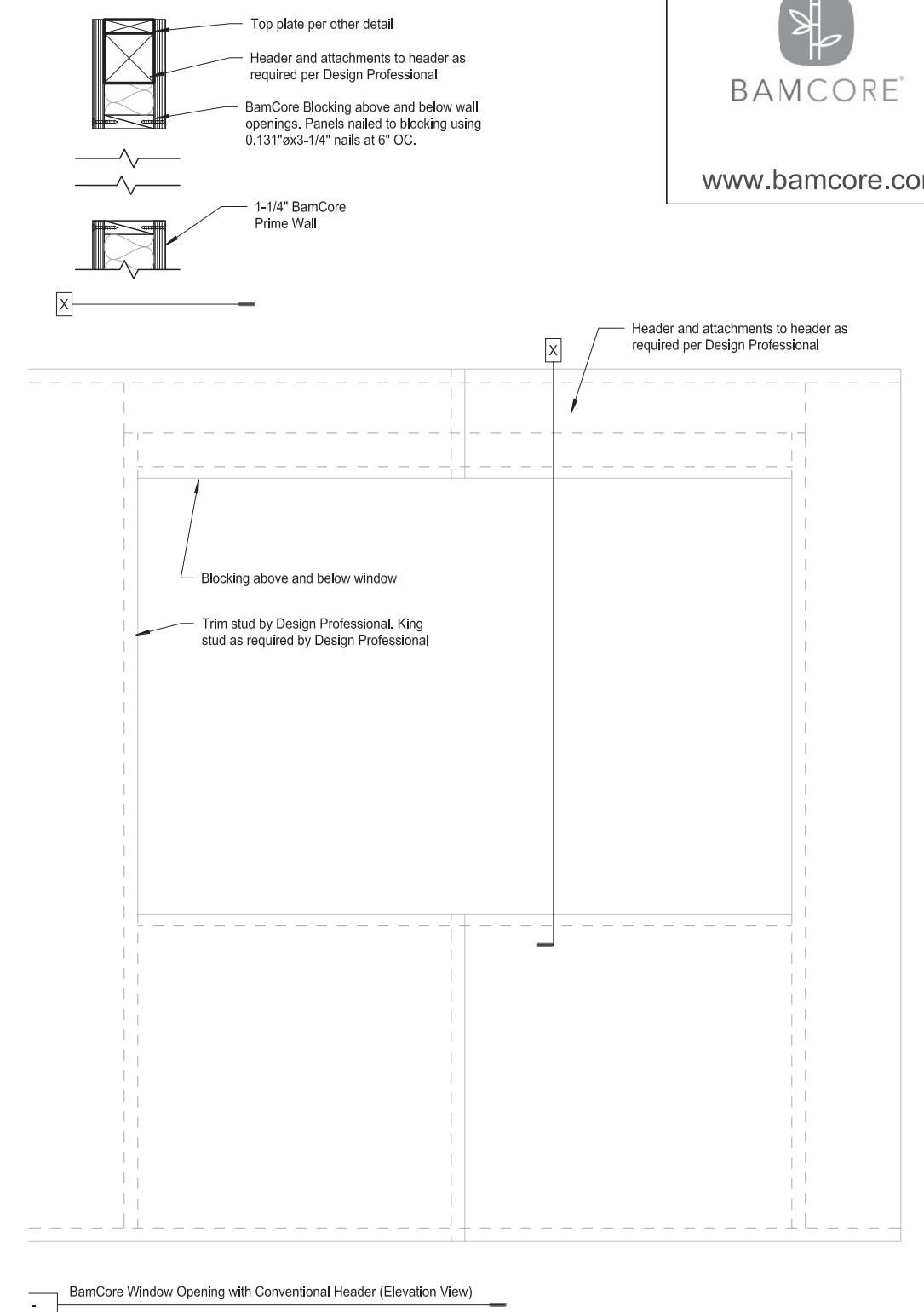
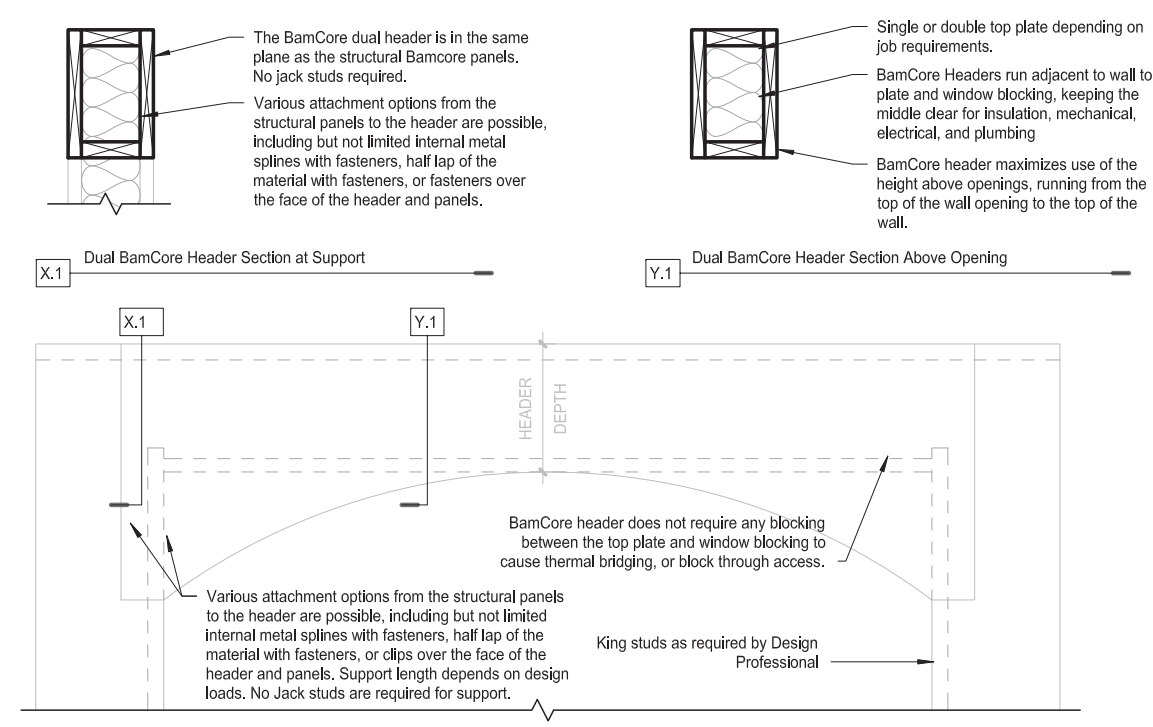
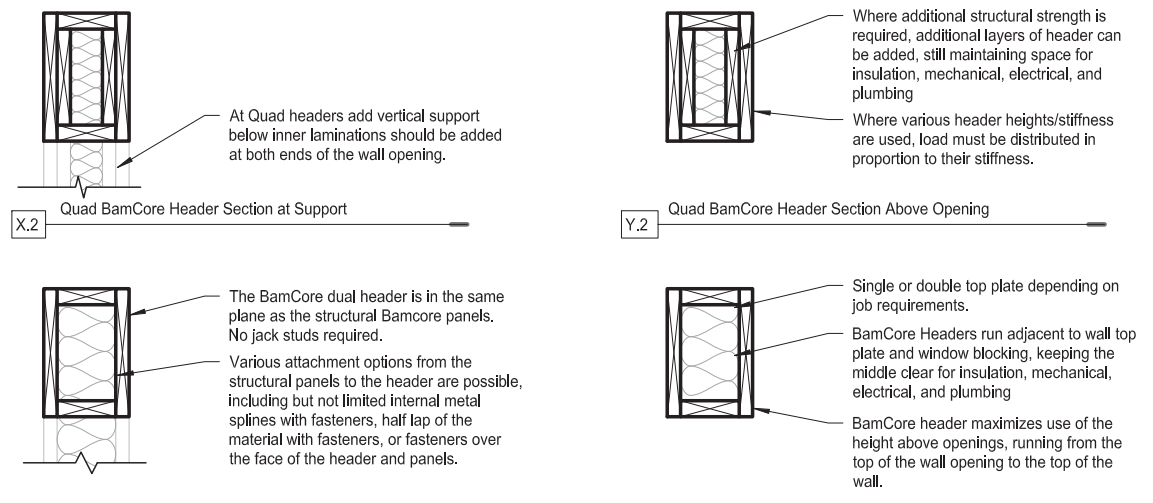
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CHECKED: NA
DATE: 5-14-21
SCALE: AS NOTED

SHEET
D4



HEADER SPAN TABLE

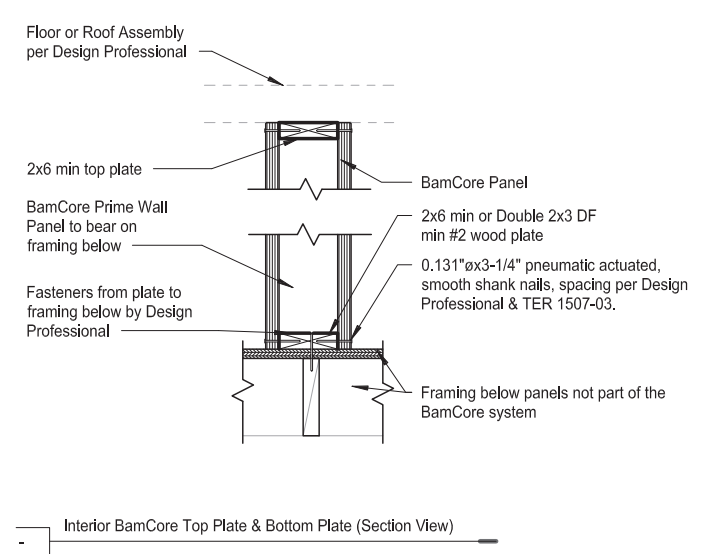
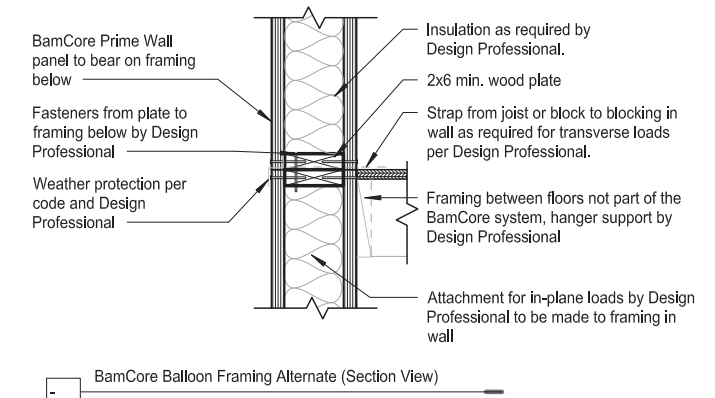
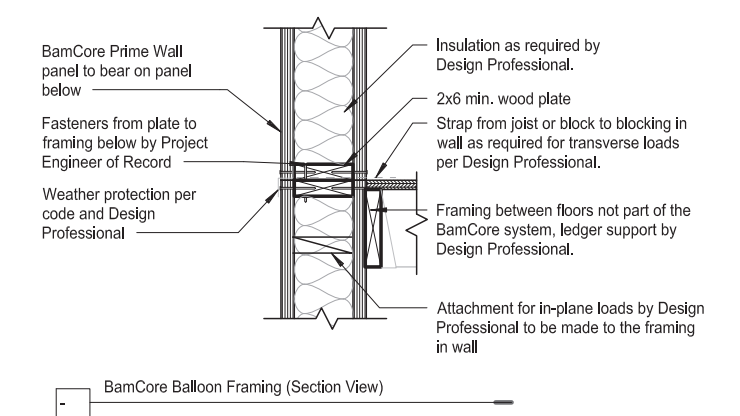
Max Opening Width (ft)	Min Header Depth (in)	Min Bearing Length (in)	King Stud Requirement



14 BamCore On-Edge Headers 1" = 1'-0"

16 Window Opening BamCore Box-Beam Header 1" = 1'-0"

17 Window Opening with Conventional Header by Design Professional 1" = 1'-0"



18 BamCore Balloon Framing 1" = 1'-0"

19 BamCore Balloon Framing Alternate 1" = 1'-0"

20 T&B plate - Interior 1" = 1'-0"

BY	REVISION	DATE

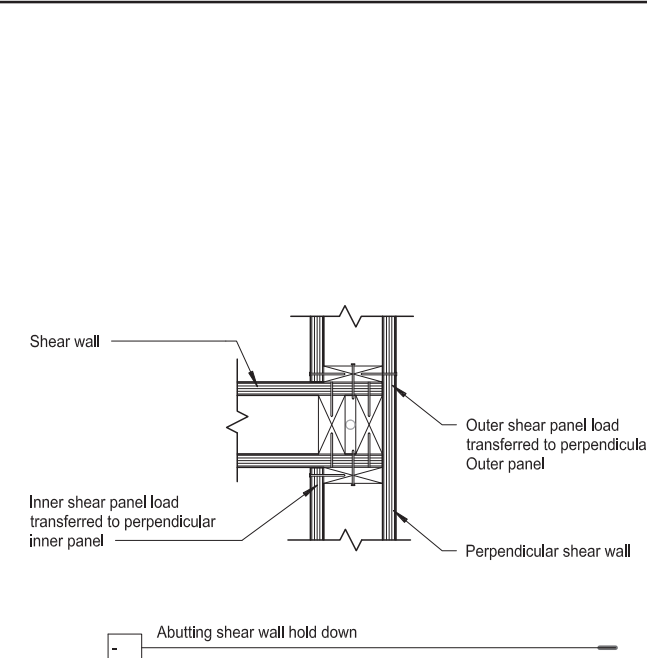


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San Jose, CA 95127

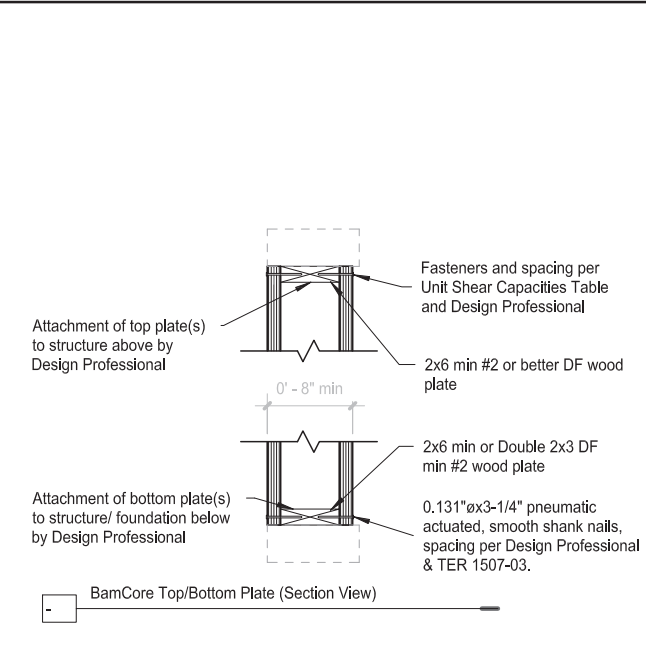
BAMCORE.COM
TYPICAL
DETAILS 2

DRAWN: JB
CHECKED: NA
DATE: 5-14-21
SCALE: AS NOTED

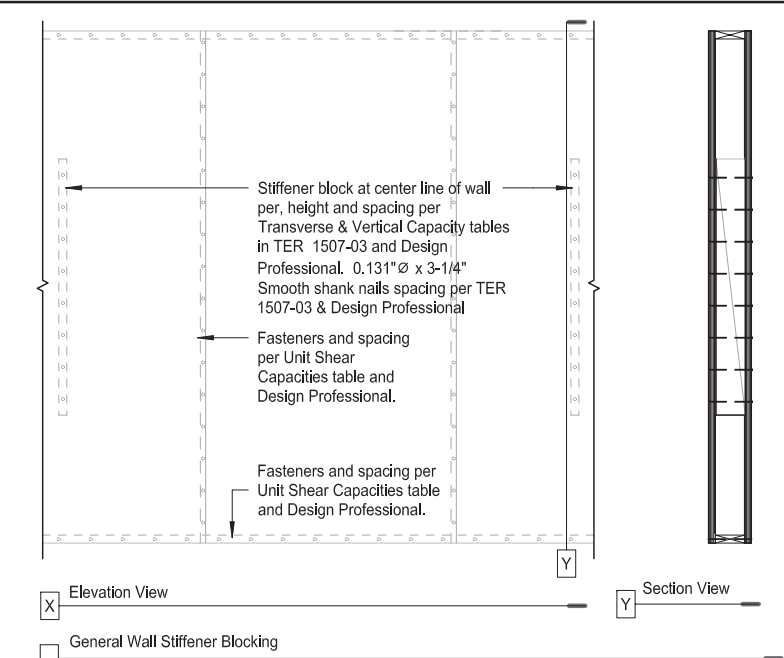
SHEET
D5



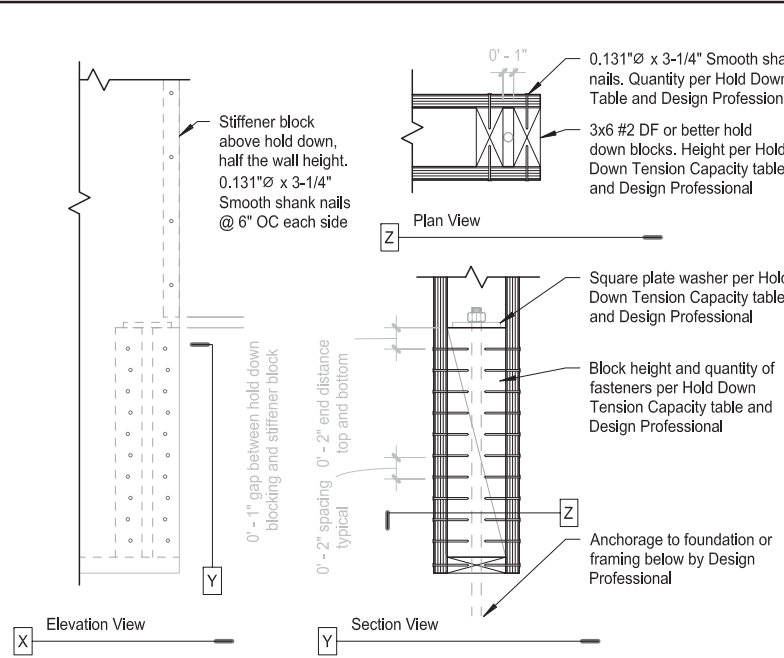
1 Abutting Hold downs
1" = 1'-0"



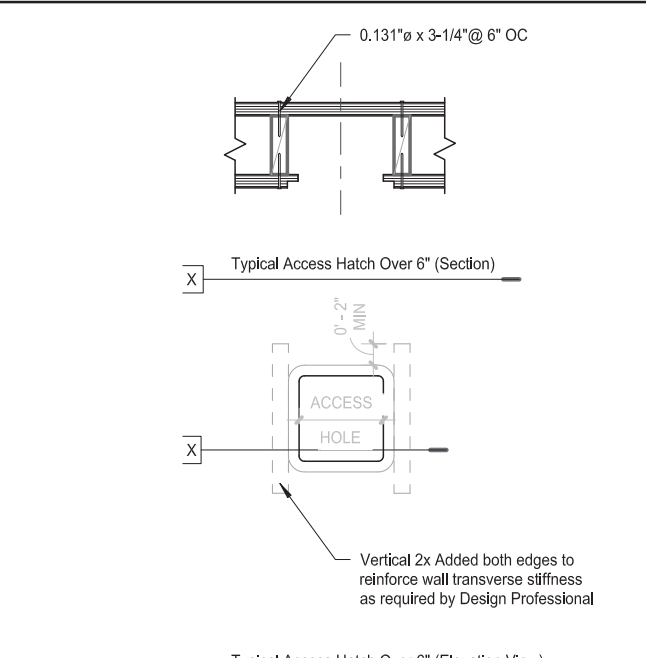
2 Top/Bottom Plate only
1" = 1'-0"



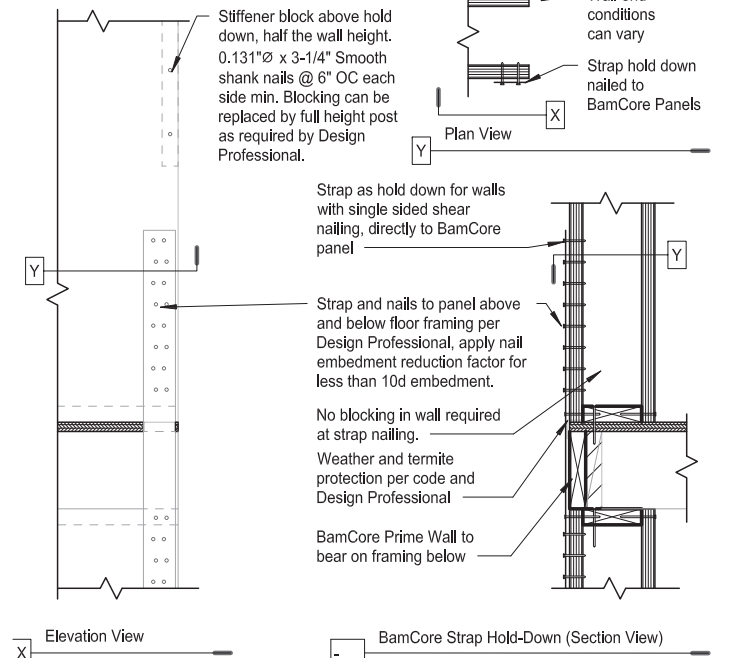
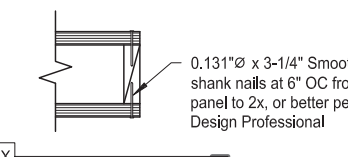
3 General Wall Stiffener Blocking
1/2" = 1'-0"



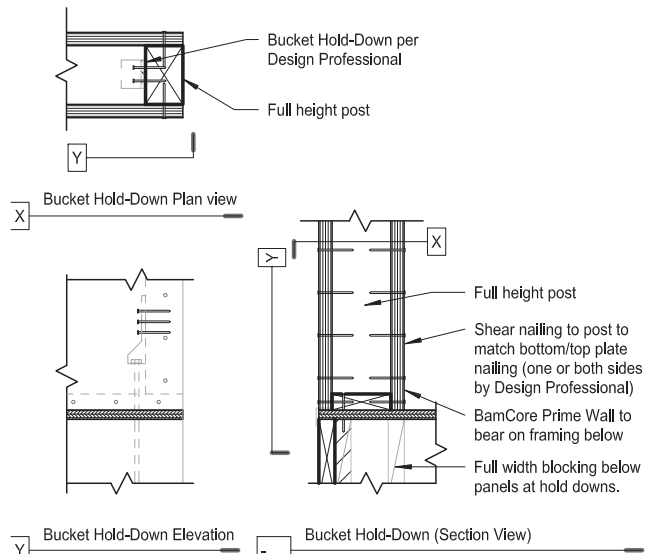
4 BamCore Hold-Down
1" = 1'-0"



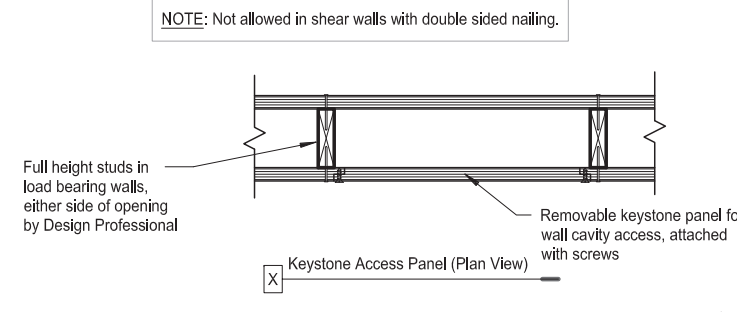
5 Typical Access Hatch Over 6"
1" = 1'-0"



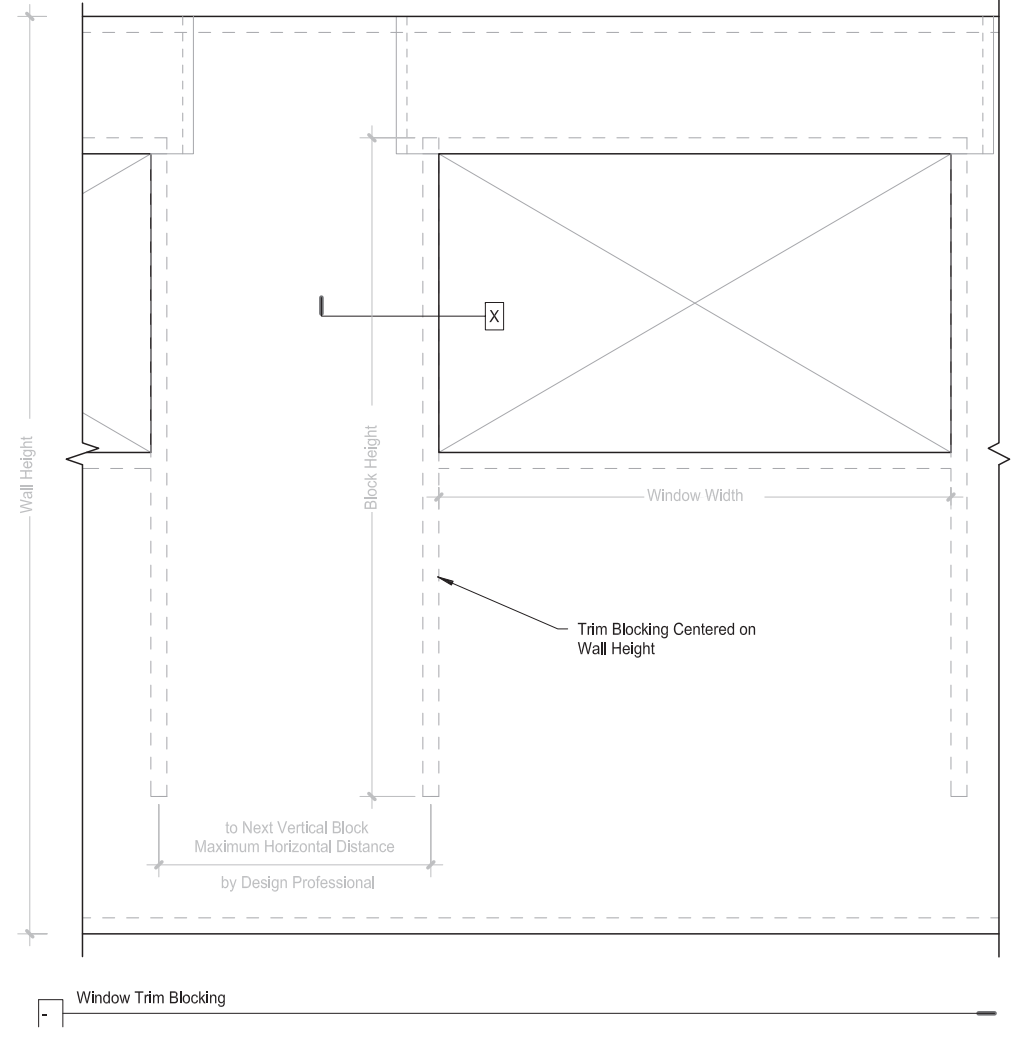
6 Strap Hold-Down to BamCore Panel
1" = 1'-0"



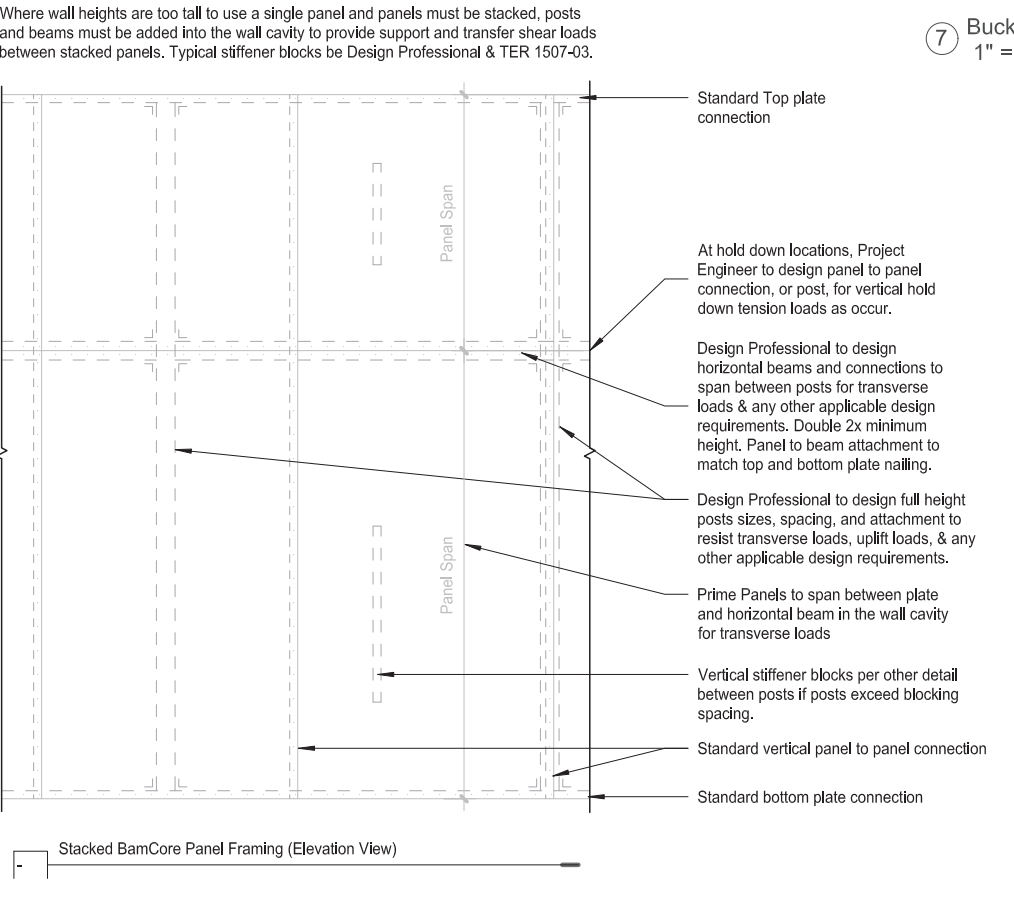
7 Bucket Hold-Down to BamCore Panel
1" = 1'-0"



8 Keystone Panel Detail
1" = 1'-0"

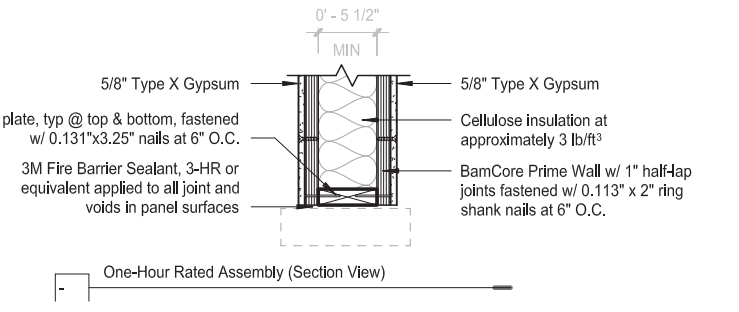


9 Window Trim Blocking
1" = 1'-0"



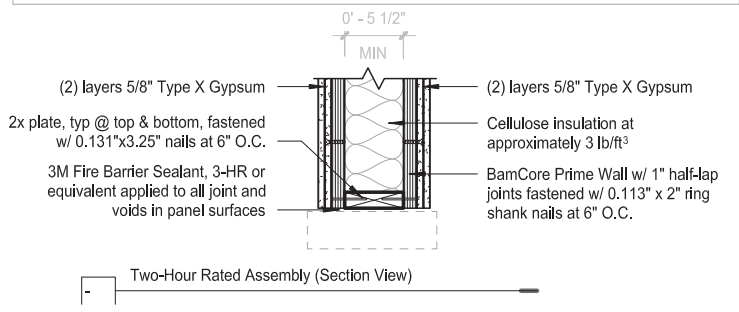
10 Tall Wall Framing
1/2" = 1'-0"

NOTE: TYPE X GYPSUM TO BE INSTALLED ON EACH FACE OF ASSEMBLY WITH 1 5/8" DRYWALL SCREWS FASTENED 12" O.C. ALL JOINTS TO BE TAPED AND COVERED WITH TWO COATS OF JOINT COMPOUND. GYPSUM ON ONE SIDE OF THE WALL TO BE STAGGERED FROM JOINTS ON THE OPPOSITE SIDE BY 24". A PANEL STIFFENER (MIN 1 1/4" X 5 1/2" X 5'-0") TO BE INSTALLED VERTICALLY AT MID-HEIGHT WITHIN 5'-0" OF THE END OF THE WALL & EVER 10'-0" O.C. ALONG THE LENGTH OF THE WALL, ATTACHED W/ MINIMUM #8 X 3" SCREWS.



11 1-Hr Fire Rating
1" = 1'-0"

NOTE: TWO LAYERS OF TYPE X GYPSUM TO BE INSTALLED ON EACH FACE OF ASSEMBLY WITH 1 5/8" DRYWALL SCREWS FASTENED 12" O.C. ALL JOINTS TO BE TAPED AND COVERED WITH TWO COATS OF JOINT COMPOUND. FACE LAYER TO BE ATTACHED W/ 2 1/2" SCREWS @ 6" O.C. GYPSUM ON ONE SIDE OF THE WALL TO BE STAGGERED FROM JOINTS ON THE OPPOSITE SIDE BY 24". A PANEL STIFFENER (MIN 1 1/4" X 5 1/2" X 5'-0") TO BE INSTALLED VERTICALLY AT MID-HEIGHT WITHIN 5'-0" OF THE END OF THE WALL & EVER 10'-0" O.C. ALONG THE LENGTH OF THE WALL, ATTACHED W/ MINIMUM #8 X 3" SCREWS.



12 2-Hr Fire Rating
1" = 1'-0"

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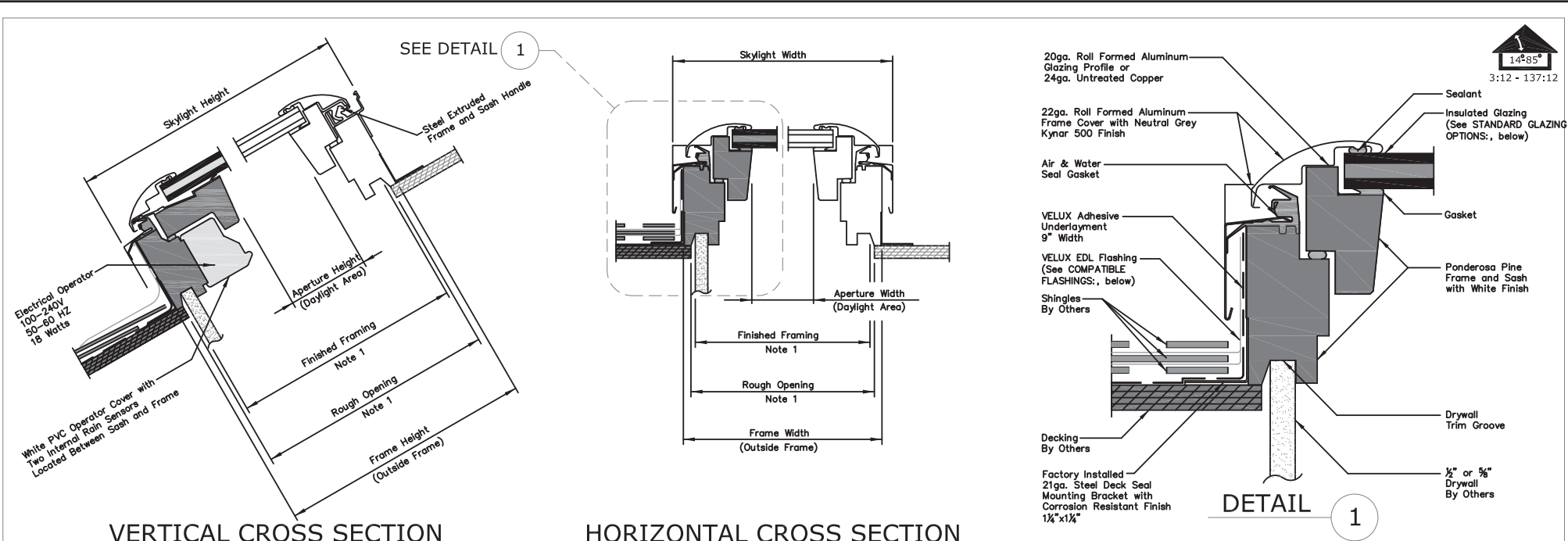


LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

BAMCORE.COM
TYPICAL
DETAILS 3

DRAWN: JB
CHECKED: NA
DATE: 5-14-21
SCALE: AS NOTED

SHEET
D6



- STANDARD GLAZING OPTIONS:**
- Laminated LowE3 (04)
 - Impact (05)
 - Snowload (10)
- *Tempered Exterior Pane used with all options

- COMPATIBLE FLASHINGS:**
- EDL Step flashing
 - EKL/EKX Comb Flashing
 - EDW Tile flashing
 - EKW/EKX Comb tile flashing
 - EDM Metal roof flashing
 - ECS Counter flashing for curbs

- ELECTRICAL/CONTROL DATA:**
- VSE Skylight controlled via 2.4 GHz radio frequency KLR 200 remote control provided with skylight. Optional controls for VSE Skylight are KLI 110 Wall Mounted Keypad or KLF 100 Home Automation Integration Kit.
 - Electrical Operator 100-240V, 50-60 HZ, 18 WATTS

PRODUCT DIMENSIONS

Size	METRIC UNITS (MILLIMETERS)							IMPERIAL UNITS (INCHES)										
	Rough Opening Width	Frame Width	Frame Aperture Width	Skylight Width	Rough Opening Height	Frame Aperture Height	Skylight Height	Daylight Area (Sq. Meters)	Rough Opening Width	Frame Width	Frame Aperture Width	Skylight Width	Rough Opening Height	Frame Aperture Height	Skylight Height	Daylight Area (Sq. Feet)		
CD1	533	546	407	566.7	862	895	519	720	.21	CD1	21	21 1/2	16	22 5/16	26 7/8	27 3/8	28 3/8	2.27
CD4	533	546	407	566.7	862	895	519	1000	.33	CD4	21	21 1/2	16	22 5/16	37 7/8	39 3/8	31 7/8	3.50
CO6	533	546	407	566.7	1162	1175	999	1200	.41	CO6	21	21 1/2	16	22 5/16	45 3/4	48 1/4	39 5/8	4.38
CO8	533	546	407	566.7	1362	1395	1219	1420	.50	CO8	21	21 1/2	16	22 5/16	54 7/8	54 15/16	48	5.34
MD4	763	776	637	786.7	862	875	799	1000	.51	MD4	30 1/8	30 9/16	25	31 3/8	37 7/8	38 3/8	31 7/8	5.48
MD6	763	776	637	786.7	1162	1175	999	1200	.84	MD6	30 1/8	30 9/16	25	31 3/8	45 3/4	46 1/4	39 5/8	8.86
MO6	763	776	637	786.7	1362	1395	1219	1420	.78	MO6	30 1/8	30 9/16	25	31 3/8	54 7/8	54 15/16	48	8.36
SD1	1123	1136	997	1156.7	862	895	519	720	.52	SD1	44 1/4	44 3/4	39 1/4	45 9/16	26 7/8	27 3/8	20 7/8	5.57
SD6	1123	1136	997	1156.7	1162	1175	999	1200	1.0	SD6	44 1/4	44 3/4	39 1/4	45 9/16	45 3/4	46 1/4	39 5/8	10.73

NOTES:

- The ROUGH OPENING and FINISHED FRAMING dimensions are based on perpendicular interior finish material on all four sides and these dimensions will vary depending on the roof construction, the thickness and the design of the interior finish material.
- Max sash opening is 11" by stainless steel chain.

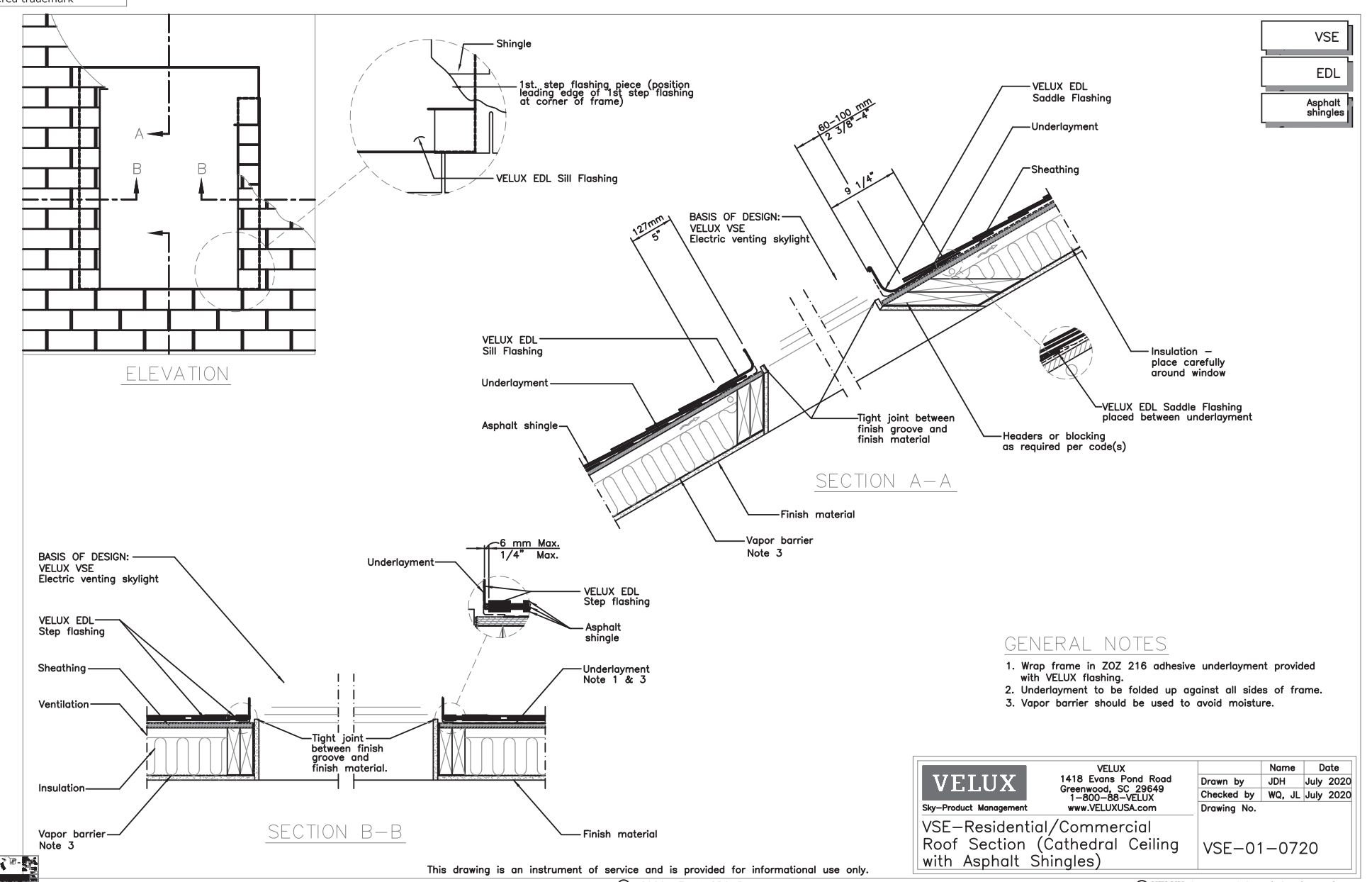
VELUX
Sky-Global Product Management

VELUX
1418 Evans Pond Road
Greenwood, SC 29649
1-800-88-VELUX
www.VELEXUSA.com

VSE - Electric Venting Skylight

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- GENERAL NOTES**
- Wrap frame in 202 216 adhesive underlayment provided with VELUX flashing.
 - Underlayment to be folded up against all sides of frame.
 - Vapor barrier should be used to avoid moisture.

VELUX
Sky-Product Management

VELUX
1418 Evans Pond Road
Greenwood, SC 29649
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www.VELEXUSA.com

VSE-Residential/Commercial Roof Section (Cathedral Ceiling with Asphalt Shingles)

VSE-01-0720

Name: JQH
Date: July 2020
Drawn by: JQH
Checked by: WQ, JL
Drawing No.:
Date: July 2020

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DATE	REVISION	BY



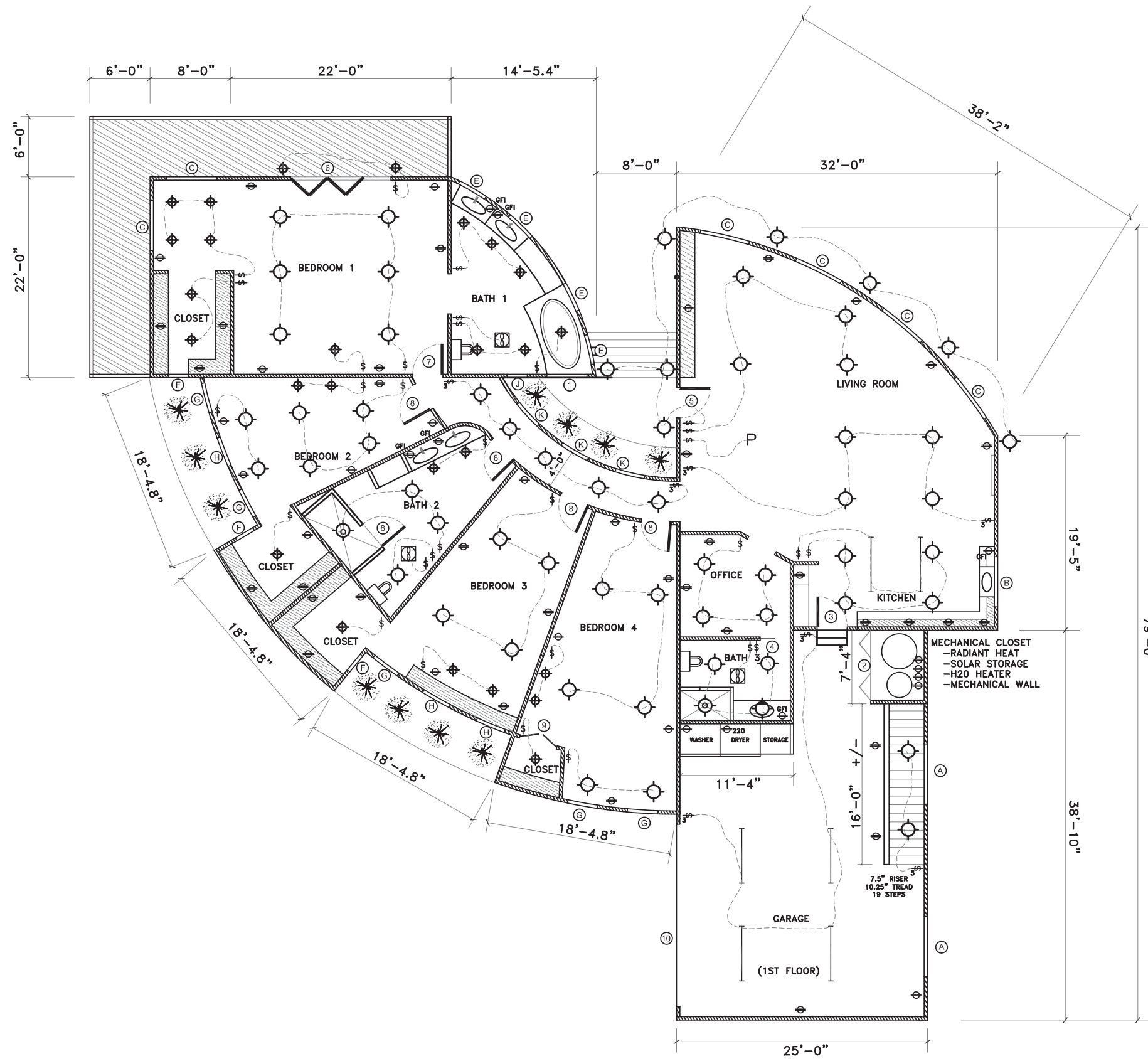
LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

VELUX
VENTING SKYLIGHT
ROOF SECTION

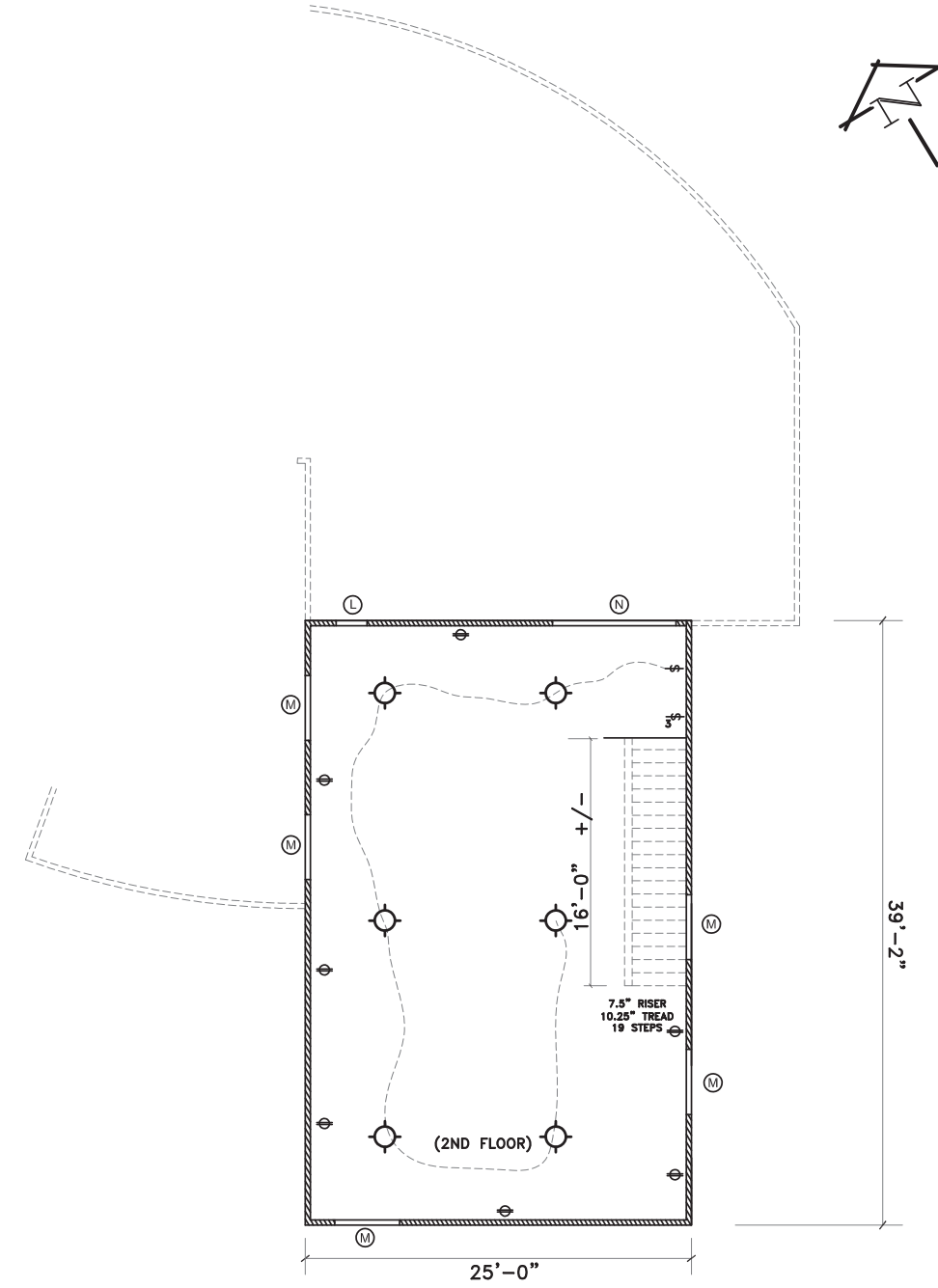
DRAWN: JQH
CHECKED: WQ
DATE: 2-22-23
SCALE: AS NOTED

SHEET
D7

-
-
-
-
-
-
-
-
-



PLAN VIEW (1st FLOOR)
SCALE 1/8" = 1'



PLAN VIEW (2nd FLOOR)
SCALE 1/8" = 1'



DATE	REVISION	BY

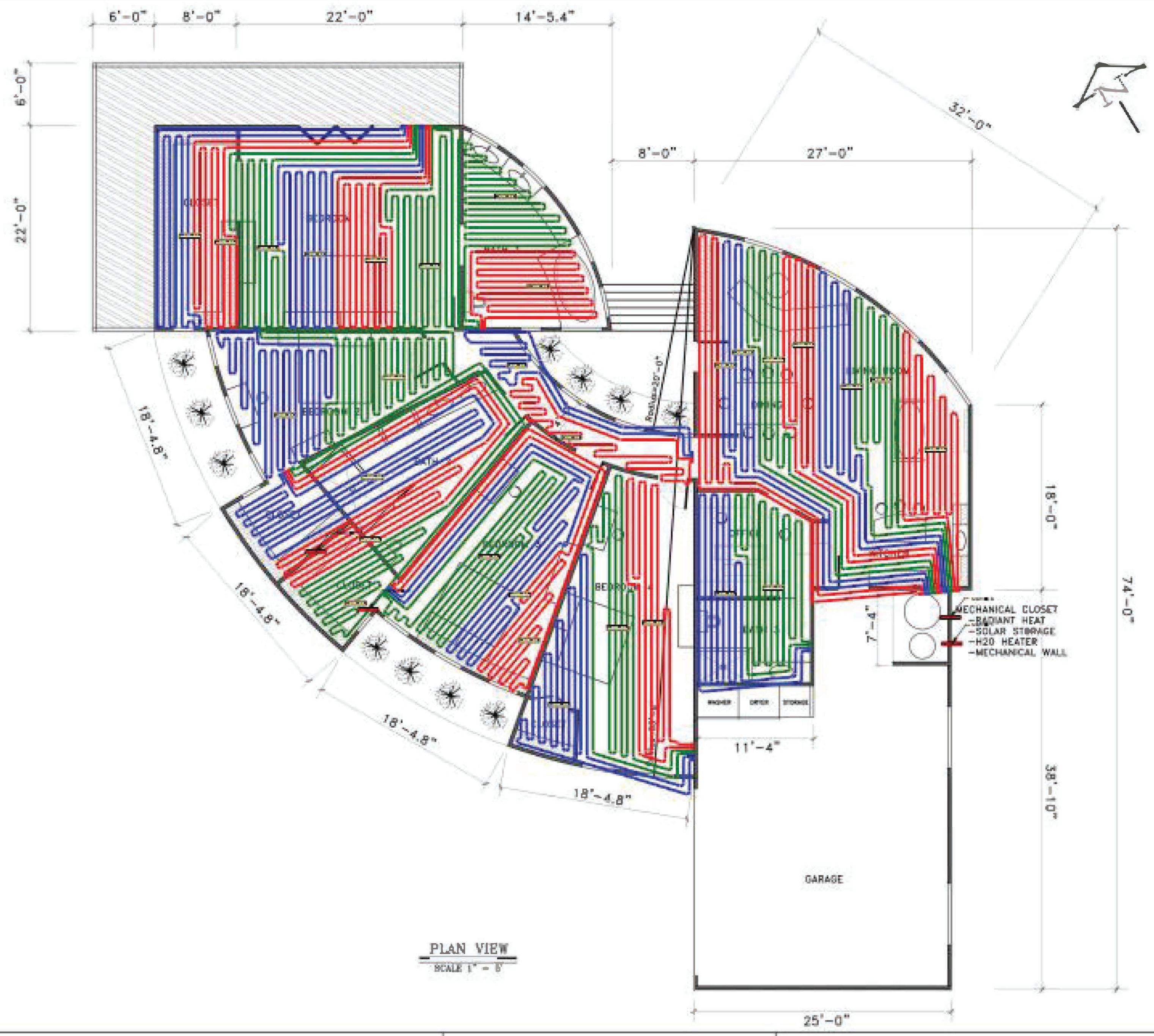


LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

ELECTRICAL PLAN

DRAWN: NN
CHECKED: MS
DATE: 2-22-23
SCALE: 1/8"=1'

SHEET
E1



DATE	REVISION	BY



LARSON RESIDENCE
 10818 Crothers Road
 San Jose, CA 95127

PLAN VIEW

DRAWN: NN
 CHECKED: MS
 DATE: 1-30-21
 SCALE: 1" = 5'

SHEET
 A1

WINDOW SCHEDULE

LABEL	BRAND	SERIES	QTY	STYLE	MATERIAL Int/ Ext.	SIZE WxH	TEMPERED	GLASS TYPE	LOW E	SWING	COLOR	SHUTTER	SCREEN	PLACEMENT	Int. Lintel	Ext. Lintel	SILL	RO - W/H
A	Anderson	E	2	GLIDE	Wood/Aluminum	4/0 - 4/0	N	Clr	Low E4/heatlock	OX	Sandtone	No	Yes	Exterior	N	N	Int - Wood	
B	Anderson	E	1	GLIDE	Wood/Aluminum	5/0 - 3/0	Y	Clr	Low E4/heatlock	OX	Sandtone	No	Yes	Exterior	N	N	Int - Wood	
C	Anderson	E	6	FIXED	Wood/Aluminum	5/0 - 6/0	Y	Clr	Sun Glass	O	Sandtone	No	No	Exterior	N	N	Int - Wood	
D	Anderson	E	2	FIXED	Wood/Aluminum	3/0 - 5/0	Y	Clr	Smart Sun/heatlock	O	Sandtone	No	No	Exterior	N	N	Int - Wood	
E	Anderson	E	3	FIXED	Wood/Aluminum	2/0 - 4/0	Y	Clr	Smart Sun/heatlock	O	Sandtone	No	No	Exterior	N	N	Int - Wood	
F	Anderson	E	3	FIXED	Wood Aluminum	2/0 - 6/0	Y	Clr	Low E4/heatlock	O	Sandtone	No	No	Exterior	N	N	Int - Wood	
G	Anderson	E	5	FIXED	Wood/Aluminum	2/6 - 6/0	Y	Clr	Low E4/heatlock	O	Sandtone	No	No	Exterior	N	N	Int - Wood	
H	Anderson	E	3	GLIDE	Wood/Aluminum	4/0 - 3/0	Y	Clr	Low E4/heatlock	OX	Sandtone	No	No	Exterior	N	N	Int - Wood	
I	Anderson	E	1	FIXED	Wood/Aluminum	2/0 - 4/0	Y	Cascade	Low E4/heatlock	O	Sandtone	No	No	Exterior	N	N	Int - Wood	
J	Anderson	E	1	FIXED	Wood/Aluminum	1/6 - 6/0	Y	Cascade	Low E4/heatlock	O	Sandtone	No	No	Exterior	N	N	Int - Wood	
K	Anderson	E	3	FIXED	Wood Aluminum	3/0 - 6/0	Y	Clr	Low E4/heatlock	O	Sandtone	No	No	Exterior	N	N	Int-Wood	
L	Anderson	E	3	AWNING	Wood Aluminum	2/0 - 2/0	Y	Clr	Low E4/heatlock	X	Santone	No	Yes	Exterior	N	N	Int - Wood	
M	Anderson	E	5	FIXED	Wood/Aluminum	R=4' - Circular	Y	Clr	Smart Sun/heatlock	O	Sandtone	No	No	Exterior	N	N	Int. Wood	
N	Anderson	E	1	FIXED	Wood/Aluminum	8/0 - 4/0 custom top	Y	Clr	Smart Sun/heatlock	O	Sandtone	No	No	Exterior	N	N	Int-Wood	
O	Velux	VCE	10	Electric	Wood/Aluminum	2/0 - 4/0	Y	Clr	Low E	X	Brn	Yes	Yes	Curb Mounted	N	N	Sheetrock Wrap	
P	Velux	FS	2	FIXED	Wood/Aluminum	3/0 - 3/0	Y	Clr	Low E	O	Brn	Yes	No	Curb Mounted	N	N	Sheetrock Wrap	
Q	Velux	FS	3	FIXED	Wood/Aluminum	2/0 - 2/0	Y	Clr	Low E	O	Brn	Yes	No	Curb Mounted	N	N	Sheetrock Wrap	

DOOR SCHEDULE

LABEL	BRAND	SERIES	QTY	STYLE	MATERIAL Int/ Ext.	SIZE WxH	TEMPERED	GLASS TYPE	LOW E	SWING	COLOR	1HR FIRE	SCREEN	PLACEMENT	Int. Lintel	Ext. Lintel	SILL	RO - W/H
1	Simpson	55	1	POCKET	Wood - Fir	3/0 - 7/0	N/A	N/A	N/A	PCKT	Stain	No	No	Center	N	N	No	
2	Simpson	63	2	BIFOLD	Wood - Fir	3/0 - 6/8	N/A	NA	N/A	TRACK	Stain	Yes	No	Exterior of Closet	N	N	Metal - By Others	
3	Simpson	55	1	SINGLE	Wood - Fir	3/0 - 7/0	N/A	NA	N/A	LHS	Stain	Yes	No	Center	N	N	No	
4	Simpson	55	1	POCKET	Wood - Fir	3/0 - 6/8	N/A	N/A	N/A	PCKT	Stain	No	No	Center	N	N	No	
5	Anderson	PIVOT	1	SINGLE	Glass/Aluminum	3/0 - 7/0	Y	Monolythic	Smart Sun/heatlock	LHS	Sandtone	No	Yes	Interior	N	N	High performance Flush	
6	Anderson	FOLDING	1	4PNL	Glass/Aluminum	10/0 - 7/0 (2/6-3/8)	Y	Clr	Smart Sun/heatlock	3L1R	Sandtone	No	Yes	Interior	N	N	High performance Flush	
7	Simpson	55	1	SINGLE	Wood - Fir	3/0 - 7/0	N/A	N/A	N/A	RHS	Stain	No	No	Exterior towards Hall	N	N	No	
8	Simpson	55	4	SINGLE	Wood - Fir	3/0 - 6/8	N/A	N/A	N/A	LHS	Stain	No	No	Exterior of Hall	N	N	No	
9	Simpson	FOLDING	1	BIFOLD	Wood - Fir	4/0 - 6/8	N/A	N/A	N/A	TRACK	Stain	No	No	Exterior of Room	N	N	No	
10	Carriage	SONOMA	1	GARAGE	Glass/Wood	18/0 - 7/0	No	Obscure	N/A	X	Stain	No	No	Center	N	N	As per Manuf.	

REVISION		BY		DATE	
					
LARSON RESIDENCE 10818 Crothers Road San Jose, CA 95127					
WINDOW SCHEDULE DOOR SCHEDULE					
DRAWN: NN					
CHECKED: MS					
DATE: 2-22-23					
SCALE: AS NOTED					
SHEET					
SC1					

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Larson Residence
Calculation Date/Time: 2023-01-23T17:16:50-08:00
Calculation Description: Title 24 Analysis
Input File Name: 89823new.rbd22x

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(Page 1 of 17)

Table with 2 columns: Item ID and Description. Includes Project Name, Run Title, Project Location, City, Zip code, Climate Zone, Building Type, Project Scope, Addition Cond. Floor Area (ft²), Existing Cond. Floor Area (ft²), Total Cond. Floor Area (ft²), ADU Bedroom Count, Standards Version, Software Version, Front Orientation, Number of Dwelling Units, Number of Bedrooms, Number of Stories, Fenestration Average U-factor, Glazing Percentage.

Table with 2 columns: Item ID and Description. Includes Building Complies with Computer Performance, This building incorporates features that require field testing and/or verification by a certified HERS provider, This building incorporates one or more Special Features shown below.

Registration Number: 223-P010009376B-000-000-0000000-0000
Registration Date/Time: 2023-01-23 17:37:13
HERS Provider: CalCERTS Inc.
CA Building Energy Efficiency Standards - 2022 Residential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220901
Report Generated: 2023-01-23 17:18:54

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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Calculation Description: Title 24 Analysis
Input File Name: 89823new.rbd22x

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Table with 6 columns: Energy Design Ratings, Compliance Margins, Source Energy (EDR1), Efficiency² EDR (EDR2efficiency), Total² EDR (EDR2total), Source Energy (EDR1), Efficiency² EDR (EDR2efficiency), Total² EDR (EDR2total). Includes Standard Design and Proposed Design rows.

RESULT: PASS
Efficiency EDR includes improvements like a better building envelope and more efficient equipment
Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries
Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Standard Design PV Capacity: 3.22 kWdc
PV System resized to 3.22 kWdc (a factor of 3.225) to achieve Standard Design PV PV scaling

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Table with 7 columns: Energy Use, Standard Design Source Energy (EDR1) (kBtu/ft² - yr), Standard Design TDV Energy (EDR2) (KTDV/ft² - yr), Proposed Design Source Energy (EDR1) (kBtu/ft² - yr), Proposed Design TDV Energy (EDR2) (KTDV/ft² - yr), Compliance Margin (EDR1), Compliance Margin (EDR2). Includes rows for Space Heating, Space Cooling, IAQ Ventilation, Water Heating, Self Utilization/Flexibility Credit, Efficiency Compliance Total, Photovoltaics, Battery, Flexibility, Indoor Lighting, Appl. & Cooking, Plug Loads, Outdoor Lighting, and TOTAL COMPLIANCE.

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Table with 5 columns: Gross EU¹, Standard Design (kBtu/ft² - yr), Proposed Design (kBtu/ft² - yr), Compliance Margin (kBtu/ft² - yr), Margin Percentage. Includes Net EU² row.

Notes
1. Gross EU1 is Energy Use Total (not including PV) / Total Building Area.
2. Net EU1 is Energy Use Total (including PV) / Total Building Area.

Table with 12 columns: Item ID, Exception, Module Type, Array Type, Power Electronics, CFI, Azimuth (deg), Tilt Input, Array Angle (deg), Tilt: (x in 12), Inverter Eff. (%), Annual Solar Access (%).

Table with 7 columns: Item ID, Capacity (kWh), Charging Efficiency, Charging Rate (kW), Discharging Efficiency, Discharging Rate (kW), Round Trip Efficiency.

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Table with 1 column: REQUIRED SPECIAL FEATURES. Lists features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

Table with 1 column: HERS FEATURE SUMMARY. Lists features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis.

Table with 7 columns: Item ID, Project Name, Conditioned Floor Area (ft²), Number of Dwelling Units, Number of Bedrooms, Number of Zones, Number of Ventilation Cooling Systems, Number of Water Heating Systems.

Table with 7 columns: Item ID, Zone Name, Zone Type, HVAC System Name, Zone Floor Area (ft²), Avg. Ceiling Height, Water Heating System 1, Status.

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Table with 8 columns: Item ID, Name, Zone, Construction, Azimuth, Orientation, Gross Area (ft²), Window and Door Area (ft²), Tilt (deg). Includes rows for Front Wall-Entry, Curved Wall-Living, Curved Wall-Living 2, Curved Wall-Living 3, Curved Wall-Living 4, BackWall, Right Wall-Kitchen, Curved Wall-BR4, Wall-BR4 Closet, Curved Wall-BR3, Wall-BR3 Closet, Curved Wall-closets-BR2/3, Wall-BR2 Closet, Curved Wall-BR2, Right Wall-BR1/High, Front Wall-BR1, Left Wall, Curved Wall-Bath1, Curved Wall-Bath1 2, Curved Wall-Bath1 3, Right Wall-Bath1/High, Curved Wall-Bath-Hall, Curved Wall-Hall 2, Curved Wall-Hall 3.

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Documentation Author: easyTitle24.com
Tel: (415) 259-4068 or (925) 671-4789
e-mail: skmeans@easytitle24.com
654 Oakland Avenue, Oakland, CA 94611

LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

California Building Energy Efficiency
Certificates of Compliance
Filed on the Plans pursuant to
California Code of Regulations,
Title 24, Part 1, Article 1,
Section 10-103(a)2.A.

CZ
4

Project No.: 89822

Sheet No.: EC1

Date: 1-23-2023

Energy Compliance

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft²)	Tilt (deg)
BamCore Adj.Garage	1st Floor>>_Garage_	BamCore Wall1	n/a	n/a	110	0	n/a
2x6 Adj.Garage	1st Floor>>_Garage_	2x6 Wall	n/a	n/a	524	21	n/a
GarageWallFront	_Garage_	BamCore Wall	180	Front	576	151.13	90
GarageWallLeft	_Garage_	BamCore Wall	270	Left	160	34	90
GarageWallBack	_Garage_	BamCore Wall	0	Back	790	12.57	90
GarageWallRight	_Garage_	BamCore Wall	90	Right	678	73.13	90

01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft²)	Skylight Area (ft²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
Roof 3:12 Liv/Din	1st Floor	R-30 No Attic	315	n/a	455	14.53	3	0.1	0.85	No
Roof 3:12 Kit/Off	1st Floor	R-30 No Attic	90	Right	590	6.26	3	0.1	0.85	No
Roof 5:12 BR4	1st Floor	R-30 No Attic	285	n/a	358	6.26	5	0.1	0.85	No
Roof 0.25:12 BR2/BR3/Hall	1st Floor	R-30 No Attic	300	n/a	616	13.53	0.3	0.1	0.85	No
Roof 2:12 closets/bath 2	1st Floor	R-30 No Attic	315	n/a	337	14.44	2	0.1	0.85	No
Roof 2:12 BR1	1st Floor	R-30 No Attic	270	Left	572	21.8	2	0.1	0.85	No
Roof 2:12 Bath1	1st Floor	R-30 No Attic	325	n/a	200	3.58	2	0.1	0.85	No
Mezzanine Roof 1.5:12	_Garage_	Garage Roof	0	Back	762	24	1.5	0.1	0.85	No

Registration Number: 223-P010009376B-000-000-0000000-0000
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01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Door 5	Window	Front Wall-Entry	Front	180			1	21	0.35	NFRC	0.17	NFRC	Bug Screen
C	Window	Curved Wall-Living		282			1	30	0.3	NFRC	0.24	NFRC	Bug Screen
C 2	Window	Curved Wall-Living 2		305			1	30	0.3	NFRC	0.24	NFRC	Bug Screen
C 3	Window	Curved Wall-Living 3		327			1	30	0.3	NFRC	0.24	NFRC	Bug Screen
C 4	Window	Curved Wall-Living 4		349			1	30	0.3	NFRC	0.24	NFRC	Bug Screen
B	Window	BackWall	Back	0			1	15	0.31	NFRC	0.22	NFRC	Bug Screen
G X 2	Window	Curved Wall-BR4		102			1	30	0.3	NFRC	0.24	NFRC	Bug Screen
H X 2	Window	Curved Wall-BR3		125			1	15	0.31	NFRC	0.22	NFRC	Bug Screen
G	Window	Curved Wall-BR3		125			1	15	0.3	NFRC	0.24	NFRC	Bug Screen
F	Window	Wall-BR3 Closet		40			1	12	0.3	NFRC	0.24	NFRC	Bug Screen
F 2	Window	Wall-BR2 Closet		240			1	12	0.3	NFRC	0.24	NFRC	Bug Screen
G X 2.	Window	Curved Wall-BR2		169			1	30	0.3	NFRC	0.24	NFRC	Bug Screen

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FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
H	Window	Curved Wall-BR2		169			1	7.5	0.31	NFRC	0.22	NFRC	Bug Screen
F 3	Window	Right Wall-BR1/High	Right	90			1	12	0.31	NFRC	0.22	NFRC	Bug Screen
L	Window	Right Wall-BR1/High	Right	90			1	4	0.31	NFRC	0.22	NFRC	Bug Screen
C 5	Window	Front Wall-BR1	Front	180			1	30	0.3	NFRC	0.24	NFRC	Bug Screen
C 6	Window	Left Wall	Left	270			1	30	0.3	NFRC	0.24	NFRC	Bug Screen
Door 6	Window	Left Wall	Left	270			1	70	0.3	NFRC	0.2	NFRC	Bug Screen
E X 2	Window	Curved Wall-Bath1		300			1	16	0.3	NFRC	0.24	NFRC	Bug Screen
E X 2.	Window	Curved Wall-Bath1 3		350			1	16	0.3	NFRC	0.24	NFRC	Bug Screen
I	Window	Right Wall-Bath1/High	Right	90			1	8	0.31	NFRC	0.22	NFRC	Bug Screen
J	Window	Right Wall-Bath1/High	Right	90			1	9	0.31	NFRC	0.22	NFRC	Bug Screen
L 2	Window	Right Wall-Bath1/High	Right	90			1	4	0.31	NFRC	0.22	NFRC	Bug Screen
K	Window	Curved Wall-Hall		315			1	18	0.3	NFRC	0.24	NFRC	Bug Screen

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01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
K 2	Window	Curved Wall-Hall 2		300			1	18	0.3	NFRC	0.24	NFRC	Bug Screen
K 3	Window	Curved Wall-Hall 3		285			1	18	0.3	NFRC	0.24	NFRC	Bug Screen
M X 2	Window	GarageWallFront	Front	180			1	25.13	0.3	NFRC	0.24	NFRC	Bug Screen
L 3	Window	GarageWallLeft	Left	270			1	4	0.3	NFRC	0.24	NFRC	Bug Screen
N	Window	GarageWallLeft	Left	270			1	30	0.3	NFRC	0.24	NFRC	Bug Screen
M	Window	GarageWallBack	Back	0			1	12.57	0.3	NFRC	0.24	NFRC	Bug Screen
A X 2	Window	GarageWallRight	Right	90			1	48	0.31	NFRC	0.22	NFRC	Bug Screen
M X 2.	Window	GarageWallRight	Right	90			1	25.13	0.3	NFRC	0.24	NFRC	Bug Screen
VCE 2246 O X 2	Skylight	Roof 3:12 Liv/Din		315			1	14.53	0.52	NFRC	0.24	NFRC	
FS M02 P	Skylight	Roof 3:12 Kit/Off	Right	90			1	6.26	0.44	NFRC	0.26	NFRC	
FS M02 P 2	Skylight	Roof 5:12 BR4		285			1	6.26	0.44	NFRC	0.26	NFRC	
VCE 2246 O	Skylight	Roof 0.25:12 BR2/BR3/Hall		300			1	7.27	0.52	NFRC	0.24	NFRC	
FS M02 P 3	Skylight	Roof 0.25:12 BR2/BR3/Hall		300			1	6.26	0.44	NFRC	0.26	NFRC	

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01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
FS D26 O X 2	Skylight	Roof 2:12 closets/bath 2		315			1	7.17	0.44	NFRC	0.26	NFRC	
VCE 2246 O 2	Skylight	Roof 2:12 closets/bath 2		315			1	7.27	0.52	NFRC	0.24	NFRC	
VCE 2246 O X 3	Skylight	Roof 2:12 BR1	Left	270			1	21.8	0.52	NFRC	0.24	NFRC	
FS D26 Q	Skylight	Roof 2:12 Bath1		325			1	3.58	0.44	NFRC	0.26	NFRC	
Skylight O X 3	Skylight	Mezzanine Roof 1.5:12	Back	0			1	24	0.52	NFRC	0.24	NFRC	

01	02	03	04
Name	Side of Building	Area (ft²)	U-factor
Door 3	2x6 Adj.Garage	21	0.2
GarageDoor 10	GarageWallFront	126	1

01	02	03	04	05	06	07	08
Name	Zone	Area (ft²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Heated Slab	1st Floor	3233	329	R-5	48	80%	Yes
GarageSlab	_Garage_	762	128	none	0	0%	No

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OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
BamCore Wall	Exterior Walls	Wood Framed Wall	2x6 @ 24 in. O. C.	R-23	5 / None	0.045	Inside Finish: Gypsum Board Sheathing / Insulation: R-5 Sheathing Cavity / Frame: R-23 / 2x6 Exterior Finish: 3 Coat Stucco
Garage Roof	Cathedral Ceilings	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / None	0.494	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4 Inside Finish: Gypsum Board
R-30 No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x12 @ 16 in. O. C.	R-30	None / None	0.036	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-30 / 2x12 Inside Finish: Gypsum Board
BamCore Wall1	Interior Walls	Wood Framed Wall	2x6 @ 24 in. O. C.	R-23	5 / None	0.043	Inside Finish: Gypsum Board Sheathing / Insulation: R-5 Sheathing Cavity / Frame: R-23 / 2x6 Other Side Finish: Gypsum Board
2x6 Wall	Interior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.064	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Other Side Finish: Gypsum Board

01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Not Required	Not Required	N/A	n/a	n/a

Registration Number: 223-P010009376B-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-01-23 17:37:13
Report Version: 2022.0.000
Schema Version: rev 20220901

HERS Provider: CalCERTS Inc.
Report Generated: 2023-01-23 17:18:54

Documentation Author:
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654 Oakland Avenue, Oakland, CA 94611

LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

California Building Energy Efficiency
Certificates of Compliance
Filed on the Plans pursuant to
California Code of Regulations,
Title 24, Part 1, Article 1,
Section 10-103(a)2.A.

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CZ
4
Project No.: 89822
Sheet No.: **EC2**
Energy Compliance
Date: 1-23-2023

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
 Project Name: Larson Residence
 Calculation Date/Time: 2023-01-23T17:16:50-08:00
 Calculation Description: Title 24 Analysis
 Input File Name: 89823new.rbd22x
 CF1R-PRF-01-E
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01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)	Demand Recirculation Manual Control	DHW Heater 1	1	Solar-DHW	None	n/a	DHW Heater 1 (1)

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Heating Efficiency Type	Efficiency	Rated Input Type	Input Rating or Pilot	Tank Insulation R-value (In/Ext)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	Tank Location
DHW Heater 1	Electric Resistance	Consumer Storage	1	80	UEF	0.92	kW	12	0	98	87	Garage

01	02	03	04	05
Water Heating System Name	Number of Recirculation Loops	Loop Insulation Thickness (in)	Recirculation Loop Location	Recirculation Pump Power (W)
DHW Sys 1	1	1.5	Conditioned	0

01	02	03	04	05	06	07	08	09	10
Name	Collector Manufacturer	Collector Brand	Collector Model	Number of Collectors	Azimuth from North	Tilt from Horizontal	Tank Volume (gal)	SRCC/IAPMO Number	Solar Savings Fraction
Solar-DHW	(DG-300 rated system)	n/a	Solar Assist	n/a	n/a	n/a	n/a	n/a	0.53

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01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
Hydronic Radiant + Heatp1	Heat pump heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	HVAC Fan 1	Air Distribution System 1	Setback

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating Efficiency Type	HSPF / HSPF2 / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	Air to water HP	1	COP	4.6	56983	37636	EER	n/a	10.27	Not Zonal	Single Speed	Heat Pump System 1-HERS-HPump

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-HERS-HPump	Required	350	Not Required	Not Required	No	No	Yes	Yes

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01	02	03	04	05	06	07	08	09	10	11	12
Name	Type	Design Type	Duct Ins. R-value		Duct Location		Surface Area		Bypass Duct	Duct Leakage	HERS Verification
			Supply	Return	Supply	Return	Supply	Return			
Air Distribution System 1	Conditioned space-entirely	Non-Verified	R-0.0	R-0.0	Conditioned Zone	Conditioned Zone	n/a	n/a	No Bypass Duct	Sealed and Tested	Air Distribution System 1-HERS-dist

01	02	03	04	05	06	07	08	09
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space
Air Distribution System 1-HERS-dist	Yes	5.0	Required	Not Required	Not Required	Credit not taken	Not Required	No

01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan 1	HVAC Fan	0.58	HVAC Fan 1-HERS-fan

01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)
HVAC Fan 1-HERS-fan	Required	0.58

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01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
Sfam IAQVentHgt 1-1	130	0.130769	Exhaust	No	n/a	Yes	Yes	

PROJECT NOTES
 Since the current version of software does not include the BamCore assembly, the wall is modeled to support U-factor 0.045 from JA. We use the staff report: <https://www.energy.ca.gov/publications/2020/bamcore-prime-wall-exceptional-method-compliance-option>
 Modeled Bathroom IAQ fan: Panasonic FV-115VW2, or equal.



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 CF1R-PRF-01-E
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Documentation Author Name: Steve Means
 Documentation Author Signature: *Steve K. Means*
 Company: EasyTitle24.com
 Signature Date: 2023-01-23 17:24:31
 Address: 654 Oakland Ave
 City/State/Zip: Oakland, CA 94611
 Phone: 925-671-4789

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name: mitchel slade
 Responsible Designer Signature: *mitchel slade*
 Company: ECOSTRUCTION
 Date Signed: 2023-01-23 17:37:13
 Address: P O BOX 62
 City/State/Zip: GEYSERVILLE, CA 95441
 License: B-823495
 Phone: 707-672-9672

Registration Number: 223-P0100093768-000-000-0000000-0000
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Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.



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LARSON RESIDENCE
 10818 Crothers Road
 San Jose, CA 95127

California Building Energy Efficiency Certificates of Compliance

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Project No.: 89822
 Sheet No.: EC3
 Energy Compliance
 Date: 1-23-2023

Mandatory Measures Summary: Residential



2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. (04/2022)

Table of mandatory requirements for residential buildings, including sections on Building Envelope, Energy Efficiency, and Space Conditioning.

Kitchen Range Hoods

Airflow, controls, and HERS verification requirements for range hoods depend on the kitchen configuration (enclosed or nonenclosed), area of the dwelling unit, and whether the range is electric or gas.

Table showing Hood Over Electric Range and Hood Over Natural Gas Range requirements based on Dwelling Unit Floor Area (ft2).

without heat exchange, if desired. See "IAQ (Indoor Air Quality) Fans" - "Balanced" below.

IAQ (Indoor Air Quality) Fans

If the "IAQ (Indoor Air Quality) Fans" section of Title 24 form CFIR-PRF-01E says "Not Required" under HERS Verification, then this type of fan is not required. If it says "Yes" under HERS Verification, then this type of fan is required.

Exhaust: This is an exhaust-only (negative pressure) system. Often, a Bathroom exhaust fan will double as the IAQ fan. Kitchen Range Hoods are not allowed to provide exhaust-only IAQ ventilation.

Note: If a thru-wall HRV fan is mentioned in the PROJECT NOTES section of the Certificate of Compliance, allowing it is at the discretion of the building official (planchecker), because those kinds of units are not yet listed by HVI. This note hereby brings this to the attention of the building official.

Fan HERS Measures - Basic Descriptions



2022 Single-Family Residential Mandatory Requirements Summary

Table of mandatory requirements for residential buildings, including sections on Pilot Lights, Cooling and Heating Loads, Water Piping, and Ducts and Fans.



2022 Single-Family Residential Mandatory Requirements Summary

Table of mandatory requirements for residential buildings, including sections on Light Sources, Interior Switches and Controls, Energy Management Control Systems, and Residential Garages.

Table of mandatory requirements for residential buildings, including sections on Solar Readiness, Minimum Solar Zone Area, Azimuth, Shading, Structural Design Loads on Construction Documents, and Documentation.

Mandatory Measures Summary: Residential (continued)



2022 Single-Family Residential Mandatory Requirements Summary

Table of mandatory requirements for residential buildings, including sections on Space Conditioning System Airflow Rate and Fan Efficacy, Ventilation and Indoor Air Quality, Pool and Spa Systems and Equipment, and Lighting.



2022 Single-Family Residential Mandatory Requirements Summary

Table of mandatory requirements for residential buildings, including sections on Energy Storage System (ESS) Ready, Heat Pump Space Heater Ready, Electric Cooktop Ready, and Electric Clothes Dryer Ready.

*Exceptions may apply.

Documents to be Provided to Owner

§10-103(b)1A: Compliance Information. At final inspection, builder/installers shall leave in the building copies of the completed, signed, and submitted compliance documents for the building owner at occupancy.

§10-103(b)2: Operating Information. At occupancy, builder/installers shall leave in the building, or with the owner, operating information for all applicable features, materials, components, and mechanical devices installed in the building.

§10-103(b)3: Maintenance Information. At occupancy, builder/installers shall leave in the building maintenance information for all features, materials, components, and manufactured devices that require routine maintenance for efficient operation.

§10-103(b)4: Ventilation Information. New dwellings and additions larger than 1,000 sqft: At occupancy, builder/installers shall leave in the building for the building owner at occupancy, a description of the quantities of outdoor air that the ventilation system(s) are designed to provide.

Installation and Acceptance forms are filled out within the project on the HERS Provider's website. Installers and HERS Raters will need to be added to, or "Shared" within, the project.

Certified HERS raters can be contacted through the HERS providers' websites linked here: https://www.energy.ca.gov/programs-and-topics/programs/home-energy-rating-sys-tem-hers-program

Documentation Author: easyTitle24.com Tel. (415) 259-4068 or (925) 671-4789 e-mail: skmeane@easytitle24.com 654 Oakland Avenue, Oakland, CA 94611

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CZ 4

Project No.: 89822

Sheet No.: EC4

Date: 1-23-2023

Energy Compliance



COUNTY OF SANTA CLARA
2022 CALGREEN RESIDENTIAL CHECKLIST (MANDATORY+TIER 1)

County Amendments to CALGreen are in Italic.
 - Designer to cross out items that are not applicable to the project.
 - Installer or Designer shall verify all applicable requirements have been satisfied and sign and date each row. County Inspectors will verify completion signatures and supporting documentation DURING CONSTRUCTION.

ITEM #	CALGreen CODE SECTION	REQUIREMENT	APPLICANT TO COMPLETE Plan Check Review Data		Installer or Designer Verification	
			REFERENCE SHEET	Note or Detail No.	Date	Installer or Designer Signature
PLANNING AND DESIGN: MANDATORY REQUIREMENTS						
1	4.106.2	A plan is developed and implemented to manage storm water drainage during construction.	CG-3	NOTE 1		Mitchel Slade
2	4.106.3	Construction plans indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.	CG-3	NOTE 2		Mitchel Slade
3	4.106.4.1	For new dwellings with attached garages and rebuilt of existing dwellings that include a panel upgrade or construction between panel and parking area, a Level 2 EV Ready Space and Level 1 EV Ready Space, is installed.	CG-3	NOTES 3 & 4		Mitchel Slade
PLANNING AND DESIGN: TIER 1 MANDATORY REQUIREMENTS						
4	A4.106.2.3	Displaced topsoil is stockpiled for reuse in a designated area and covered or protected from erosion.	CG-4	NOTE 7		Mitchel Slade
5	A4.106.4	Not less than 20 percent of the total parking, walking or patio surfaces are permeable.	CG-4	NOTE 9		Mitchel Slade
PLANNING AND DESIGN: TIER 1 ELECTIVE REQUIREMENTS						
6	A4.103.1	Building site is an infill site, greyfield site or EPA-recognized and Brownfield site.	CG-4	NOTE 1		Mitchel Slade
7	A4.103.2	Community connectivity is facilitated by one of the approved methods.	CG-4	NOTE 2		Mitchel Slade
8	A4.104.1	An individual with oversight responsibility for the project has participated in an educational program promoting environmentally friendly design or development and has provided instruction to appropriate entities.	CG-4	NOTE 3		Mitchel Slade
9	A4.105.2	Existing buildings are disassembled for reuse or recycling of building materials. The proposed structure utilizes at least one of the listed materials.	CG-4	NOTE 4		Mitchel Slade
10	A4.106.2.1	Soil analysis is performed by a licensed design professional and the findings are utilized in the structural design of the building.	CG-4	NOTE 5		Mitchel Slade
11	A4.106.2.2	Soil disturbance and erosion are minimized by using one or more of the methods listed.	CG-4	NOTE 6		Mitchel Slade
12	A4.106.3	Landscape areas disrupted during construction are restored to be consistent with native vegetation and/or at least 75% native California or drought tolerant plant and tree are utilized.	CG-4	NOTE 8		Mitchel Slade
13	A4.106.6	A vegetated roof for at least 50% of the roof area is installed. Vegetated roof complies with CBC chapters 15 and 16.	CG-4	NOTE 10		Mitchel Slade
14	A4.106.7	Nonroof heat islands are reduced for 50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.	CG-4	NOTE 11		Mitchel Slade
ENERGY EFFICIENCY: MANDATORY REQUIREMENTS						
15	4.201.1	Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.	T24 SHEETS			Mitchel Slade
WATER EFFICIENCY & CONSERVATION: MANDATORY REQUIREMENTS						
16	4.303.1	Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.	CG-3	NOTE 5		Mitchel Slade
17	4.303.3	Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC and meet the applicable referenced standards.	CG-3	Note 6		Mitchel Slade
18	4.304.1	Outdoor potable water use in landscape areas comply with a local water efficient landscape or the current California DWR MWELO, whichever is more stringent.	CG-3	Note 7		Mitchel Slade

Comply with at least two Tier 1 elective measures - Cross out the rows not applicable

ITEM #	CALGreen CODE SECTION	REQUIREMENT	APPLICANT TO COMPLETE Plan Check Review Data		Installer or Designer Verification	
			REFERENCE SHEET	Note or Detail No.	Date	Installer or Designer Signature
WATER EFFICIENCY & CONSERVATION: TIER 1 ELECTIVE REQUIREMENTS						
19	A4.303.1	Kitchen faucet maximum flow rate does not exceed 1.5 gpm at 60 psi. See exceptions.	CG-4	NOTE 14		Mitchel Slade
20	A4.303.2	Alternate nonpotable water resources are used for indoor potable water reduction and are installed in accordance with CPC.	CG-4	NOTE 15		Mitchel Slade
21	A4.303.3	At least one qualified ENERGY STAR dishwasher or clothes washer is installed.	CG-4	NOTE 16		Mitchel Slade
22	A4.303.4	Nonwater urinals or composting toilets are installed.	CG-4	NOTE 17		Mitchel Slade
23	A4.303.5	Dwelling is equipped with a demand hot water recirculation system. The system is installed per CPC, CEC, and the manufacturer's installation instructions.	CG-4	NOTE 18		Mitchel Slade
24	A4.304.1	An approved rainwater catchment system is designed and installed to use rainwater generated by at least 65% of the available roof area. The system is installed per CPC.	CG-4	NOTE 19		Mitchel Slade
25	A4.304.2	A water efficient landscape irrigation design that eliminates the use of potable water, is provided. Method used to accomplish the requirements comply with California Building Standards Code and one or more of listed methods.	CG-4	NOTE 20		Mitchel Slade
26	A4.304.3	Separate submeters or metering devices for outdoor potable water use is provided for landscape areas less than 5000 sq.ft.	CG-4	NOTE 21		Mitchel Slade
27	A4.305.1	Alternative plumbing piping is installed to permit the discharge from the clothes washer or other fixtures to be used for an irrigation system in compliance with CPC.	CG-4	NOTE 22		Mitchel Slade
28	A4.305.2	Dual water piping is installed for future use of recycled water at listed locations.	CG-4	NOTE 23		Mitchel Slade
29	A4.305.3	Recycled water is used for landscape irrigation.	CG-4	Note 24		Mitchel Slade
MATERIAL CONSERVATION & RESOURCE EFFICIENCY: MANDATORY REQUIREMENTS						
30	4.406.1	Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls are protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the County of Santa Clara.	CG-3	Note 9		Mitchel Slade
31	4.408.1	Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste. Submit either a Construction Waste management plan (CALGreen 4.408.2) or Utilize a waste management company (CALGreen 4.408.3).	CG-3	Note 10		Mitchel Slade
32	4.408.5	Documentation is provided to County of Santa Clara which demonstrates compliance with CALGreen sections 4.408.2 or 4.408.3.	CG-2	Construction Waste Management Forms Note 11		Mitchel Slade
33	4.410.1	An operation and maintenance manual is placed in the building at the time of final inspection.	CG-3	Note 12		Mitchel Slade
MATERIAL CONSERVATION & RESOURCE EFFICIENCY: TIER 1 MANDATORY REQUIREMENTS						
34	A4.403.2	Reduction in cement use in foundation mix design is not less than 20 percent. Use materials with a total RCV (recycled content value) not less than a 10 percent of the total material cost of the project except structural framing material.	CG-4	Note 26		Mitchel Slade
35	A4.405.3.1	Reduce construction waste by at least 65%. Documentation is submitted to the County of Santa Clara demonstrating compliance.	CG-4	Note 33		Mitchel Slade
36	A4.408.1	Reduce construction waste by at least 65%. Documentation is submitted to the County of Santa Clara demonstrating compliance.	CG-2	Construction Waste Management Forms Note 41		Mitchel Slade
MATERIAL CONSERVATION & RESOURCE EFFICIENCY: TIER 1 ELECTIVE REQUIREMENTS						
37	A4.403.1	A Frost-Protected Shallow Foundation (FPSF) is utilized in compliance with CRC. The required manual includes instructions to the owner or occupant regarding the necessity for heating the structure per CRC 8403.3.	CG-4	NOTE 25		Mitchel Slade
38	A4.404.1	Beams, headers and trimmers are sized and installed as specified in Chapter 23 of CBC or Chapter 6 of CRC.	CG-4	NOTE 27		Mitchel Slade
39	A4.404.2	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure.	CG-4	NOTE 28		Mitchel Slade
40	A4.404.3	Premanufactured building system, as listed, is used to eliminate solid sawn lumber.	CG-4	NOTE 29		Mitchel Slade
41	A4.404.4	Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems.	CG-4	NOTE 30		Mitchel Slade
42	A4.405.1	Prefinished building materials are utilized which do not require additional painting or staining. Acceptable material list is per CALGreen A4.405.1.	CG-4	NOTE 31		Mitchel Slade
43	A4.405.2	Concrete floors that do not require additional coverings are used.	CG-4	NOTE 32		Mitchel Slade
44	A4.405.4	One or more of the listed materials from rapidly renewable sources or agricultural byproducts are used.	CG-4	NOTE 34		Mitchel Slade
45	A4.407.1	Foundation and landscape drains with discharge to an approved on-site location is installed.	CG-4	NOTE 35		Mitchel Slade
46	A4.407.2	Roof gutter and downspout system is installed to route water at least 5 feet away from the foundation or connect to landscape drains with approved on-site discharge.	CG-4	NOTE 36		Mitchel Slade
47	A4.407.3	Flashing details complying with accepted industry standards or manufacturer's instructions are provided on the plans.	CG-4	NOTE 37		Mitchel Slade
48	A4.407.4	Building materials delivered to the construction site are protected from rain and other sources of moisture.	CG-4	NOTE 38		Mitchel Slade
49	A4.407.6	Exterior doors are covered to prevent water intrusion by one or more listed methods.	CG-4	NOTE 39		Mitchel Slade
50	A4.407.7	A permanent overhang or awning at least two feet in depth is provided at all exterior walls.	CG-4	Note 40		Mitchel Slade

Comply with at least two Tier 1 elective measures - Cross out the rows not applicable

ITEM #	CALGreen CODE SECTION	REQUIREMENT	APPLICANT TO COMPLETE Plan Check Review Data		Installer or Designer Verification	
			REFERENCE SHEET	Note or Detail No.	Date	Installer or Designer Signature
ENVIRONMENTAL QUALITY: MANDATORY REQUIREMENTS						
51	4.503.1	Any installed gas fireplace is a direct-vent sealed-combustion type. Any installed woodstove or pellet stove comply with US EPA Phase II emission limits where applicable.	CG-3	Note 13		Mitchel Slade
52	4.504.1	Duct openings and other related air distribution component openings are covered during construction until final startup of the HVAC equipment.	CG-3	Note 14		Mitchel Slade
53	4.504.2.1	Adhesives, sealants and caulks are compliant with VOC and other toxic compound limits.	CG-2	Table 4.504.1 Table 4.504.2 Note 15		Mitchel Slade
54	4.504.2.2	Architectural paints and coatings are compliant with VOC limits.	CG-2	Table 4.504.3		Mitchel Slade
55	4.504.2.3	Aerosol paints and coatings are compliant with product weighted MIR limits for ROC and other toxic compounds.	CG-3	Note 16		Mitchel Slade
56	4.504.2.4	Documentation are provided to the County of Santa Clara to verify that compliant VOC limit finish materials have been used.	CG-3	Note 17		Mitchel Slade
57	4.504.3	Carpet and carpet systems meet the applicable testing and product requirements.	CG-2	Table 4.504.1 Note 19		Mitchel Slade
58	4.504.5	Hardwood plywood, particleboard and medium density fiberboard composite wood meet formaldehyde limits.	CG-3	Table 4.504.5 Note 21		Mitchel Slade
59	4.504.5.1	Documentation is provided to the County of Santa Clara to verify composite wood meets applicable formaldehyde limits.	CG-3	Note 22		Mitchel Slade
60	4.505.2	Vapor retarder and capillary break is installed at slab-on-grade foundations.	CG-3	Note 23		Mitchel Slade
61	4.505.3	Moisture content of building materials used in wall and floor framing do not exceed 19% prior to enclosure and is checked before enclosure. Insulation products are dry prior to enclosure.	CG-3	Note 24		Mitchel Slade
62	4.506.1	Each bathroom is mechanically ventilated and comply with applicable requirements.	CG-3	Note 25		Mitchel Slade
63	4.507.2	Heating and air-conditioning systems are sized, designed, and equipment is selected by using one of the methods listed.	CG-3	Note 26		Mitchel Slade
ENVIRONMENTAL QUALITY: TIER 1 MANDATORY REQUIREMENTS						
64	A4.504.2	At least 90% of resilient flooring complies with applicable VOC limits.	CG-4	Note 43		Mitchel Slade
65	A4.504.3	Thermal insulation in the building is installed in compliance with applicable standards.	CG-4	Note 44		Mitchel Slade
ENVIRONMENTAL QUALITY: TIER 1 ELECTIVE REQUIREMENTS						
66	A4.504.1	Composite wood products made with NAF or ULEF resins are used.	CG-4	Note 42		Mitchel Slade
67	A4.506.2	Filters at MERV 8 or higher are used on return air openings, during construction.	CG-4	Note 45		Mitchel Slade
68	A4.506.3	Direct vent heating and cooling equipment are utilized where the equipment will be located in the conditioned space or the space heating and water heating equipment is installed in an isolated mechanical room.	CG-4	Note 46		Mitchel Slade
INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS: MANDATORY REQUIREMENTS						
69	702.1	HVAC system installers are trained and certified in the proper installation of HVAC systems.	CG-3	Note 27		Mitchel Slade
70	702.2	If required by County of Santa Clara, owner or owner's agent shall employ special inspector who are qualified and able to demonstrate competence in the discipline they are inspecting.	CG-3	Note 28		Mitchel Slade
71	703.1	Documentation used to show compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to County of Santa Clara which show substantial conformance.	CG-3	Note 29		Mitchel Slade

Comply with at least one Tier 1 elective measure - Cross out the rows not applicable

TABLE 4.504.5
FORMALDEHYDE LIMITS*
 Maximum Formaldehyde Emissions in Parts per Million

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard ²	0.13

1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. For additional information, see California Code of Regulations, Title 17, Sections 93120 through 93120.12.
 2. Thin medium density fiberboard has a maximum thickness of 7/8 inch (8 mm).

TABLE A4.106.10
MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS^{1,2}

ALLOWABLE RATING	LIGHTING ZONE 1	LIGHTING ZONE 2	LIGHTING ZONE 3	LIGHTING ZONE 4
Maximum Allowable Backlight Rating³				
Luminaire greater than 2 mounting heights (MH) from property line	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1 – 2 MH from property line	B2	B3	B4	B4
Luminaire back hemisphere is 0.5 – 1 MH from property line	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	B0	B0	B1	B2
Maximum Allowable Uplight Rating				
For area lighting ⁴	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	U1	U2	U3	U4
Maximum Allowable Glare Rating⁵				
Luminaire greater than 2 MH from property line	G1	G2	G3	G4
Luminaire front hemisphere is 1 – 2 MH from property line	G0	G1	G1	G2
Luminaire front hemisphere is 0.5 – 1 MH from property line	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.
 2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.
 3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.
 4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting."
 5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

Project Information

CALGreen One or Two Family Residential Project Mandatory and Tier 1 Requirements
 County of Santa Clara



CG-1

CALGREEN 2022 NOTES – MANDATORY REQUIREMENTS:

1. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. SEE CALGREEN 4.106.2 FOR FURTHER DETAILS.

2. CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. SWALES, WATER COLLECTION AND DISPOSAL SYSTEMS, FRENCH DRAINS, WATER RETENTION GARDENS, AND OTHER MEASURES CAN BE USED. EXCEPTION: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

3. FOR ANY NEW DWELLING UNITS WITH ATTACHED GARAGES AND FOR REBUILDS OF EXISTING DWELLING UNITS THAT INCLUDE A PANEL UPGRADE OR CONSTRUCTION BETWEEN THE PANEL AND PARKING AREA, INSTALL A LEVEL 2 EV READY SPACE AND LEVEL 1 EV READY SPACE. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "LEVEL 2 EV-READY."

EXCEPTION: FOR EACH DWELLING UNIT WITH ONLY ONE PARKING SPACE, INSTALL A LEVEL 2 EV READY SPACE.

LEVEL 1 EV READY SPACE IS A PARKING SPACE SERVED BY A COMPLETE ELECTRIC CIRCUIT WITH A MINIMUM OF 110/120 VOLT, 20-AMPERE CAPACITY, INCLUDING ELECTRICAL PANEL CAPACITY; AN OVERPROTECTION DEVICE; A MINIMUM 1" DIAMETER RACEWAY THAT MAY INCLUDE MULTIPLE CIRCUITS AS ALLOWED BY THE COUNTY ELECTRICAL CODE; PROPERLY SIZED CONDUCTORS; GROUNDING AND BONDING; AND EITHER (A) A RECEPTACLE LABELLED "ELECTRIC VEHICLE OUTLET" WITH AT LEAST A ½" FONT ADJACENT TO THE PARKING SPACE, OR (B) LABELED ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).

LEVEL 2 EV READY SPACE IS A PARKING SPACE SERVED BY A COMPLETE ELECTRIC CIRCUIT WITH A MINIMUM OF 208/240 VOLT, 40-AMPERE CAPACITY, INCLUDING THE REQUIRED ELECTRICAL PANEL CAPACITY; AN OVERCURRENT PROTECTION DEVICE; A MINIMUM 1" DIAMETER RACEWAY THAT MAY INCLUDE MULTIPLE CIRCUITS AS ALLOWED BY THE COUNTY ELECTRICAL CODE; PROPERLY SIZED CONDUCTORS; GROUNDING AND BONDING; AND EITHER (A) A RECEPTACLE LABELED "ELECTRIC VEHICLE OUTLET" WITH A MINIMUM ½" FONT, ADJACENT TO THE PARKING SPACE, OR (B) A BLANK LABELED ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) WITH A MINIMUM OUTPUT OF 40 AMPERES.

4. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING SPACES AND WITHOUT ELECTRICAL PANEL UPGRADE OR NEW PANEL INSTALLATION ARE EXEMPT FROM REQUIREMENTS ON NOTE 3. ADUS AND JADUS WITHOUT ADDITIONAL PARKING BUT WITH ELECTRICAL PANEL UPGRADES OR NEW PANELS MUST HAVE RESERVED BREAKERS AND ELECTRICAL CAPACITY ACCORDING TO THE REQUIREMENTS OF NOTE 3.

5. ALL NONCOMPLIANT PLUMBING FIXTURES SHALL BE REPLACED WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY, OR FINAL PERMIT APPROVAL BY BUILDING AND INSPECTION DIVISION. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

- A. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- B. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.
- C. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWER-HEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.
- D. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.
- E. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

6. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

7. RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH COUNTY OF SANTA CLARA WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT.

8. Not used.

9. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

A. A CONSTRUCTION WASTE MANAGEMENT PLAN IS PROVIDED. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE COUNTY OF SANTA CLARA.

- 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
 - 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
 - 3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.
 - 4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
 - 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
- B. A WASTE MANAGEMENT COMPANY CAN BE UTILIZED IF APPROVED BY THE COUNTY OF SANTA CLARA. SEE CALGREEN 4.408.3 FOR FURTHER .DETAILS

11. DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATES COMPLIANCE WITH NOTE 10.

12. AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE, OR OTHER MEDIA ACCEPTABLE TO THE COUNTY OF SANTA CLARA INCLUDES ALL OF THE REQUIRED INFORMATION, SHALL BE PLACED IN THE BUILDING. SEE CALGREEN 4.410.1 FOR DETAILS OF REQUIRED INFORMATION.

13. ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE SANTA CLARA COUNTY ORDINANCES AND BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATION 6, RULE 3.

14. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

15. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF CALGREEN TABLES 4.504.1 OR 4.504.2 AS REPRODUCED ON SHEET CG-1. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED BELOW.

AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

16. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS AS SHOWN IN TABLE 4.504.3 SHEET CG-1. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NON-FLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3, SHEET CG-1 SHALL APPLY.

17. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

18. VERIFICATION OF COMPLIANCE WITH NOTES 15, 16, AND 17 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

19. ALL CARPET AND CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350) ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1, SHEET CG-1.

20. WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350)

21. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN TABLE 4.504.5 SHEET CG-1.

22. VERIFICATION OF COMPLIANCE WITH NOTE 21 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

23. CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY CBC, CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY CRC CHAPTER 5, SHALL COMPLY WITH FOLLOWING REQUIREMENT:

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

- A. A 4-INCH-THICK BASE OF 1/2 INCH OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED.
- B. A SLAB DESIGN SPECIFIED BY THE LICENSED DESIGN PROFESSIONAL.

24. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

25. EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

Project Information



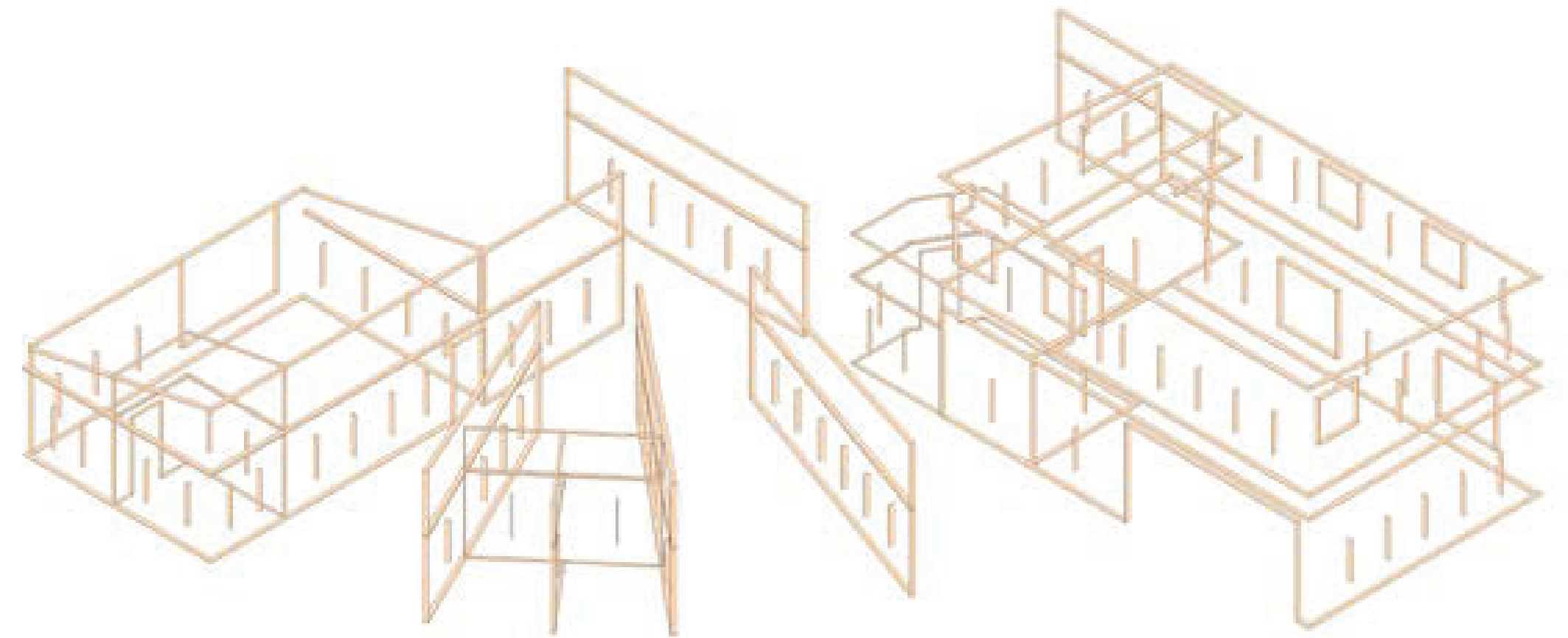
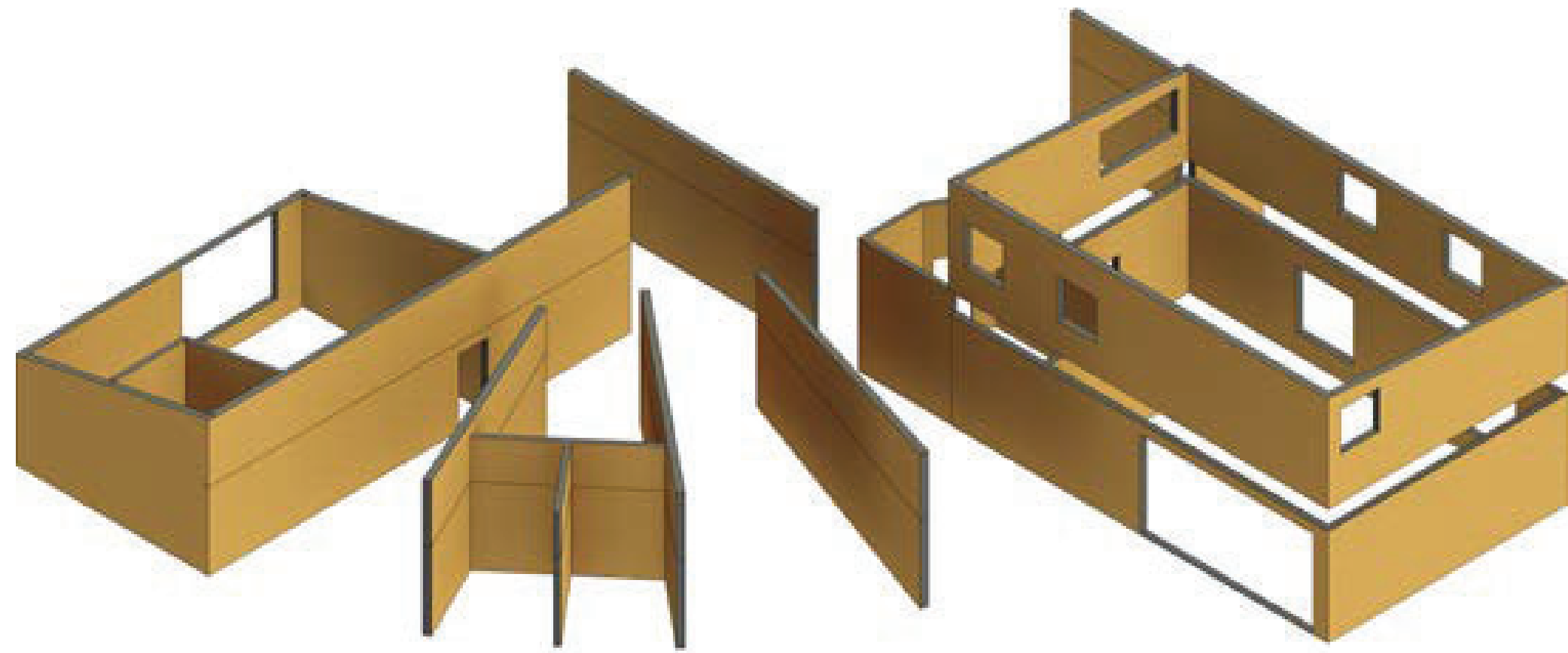
Project Information





BamCore Takeoff

Larson Residence



Wall Takeoff

8' Panels: 235
10' Panels: 176
Area Feedstock: 14,560

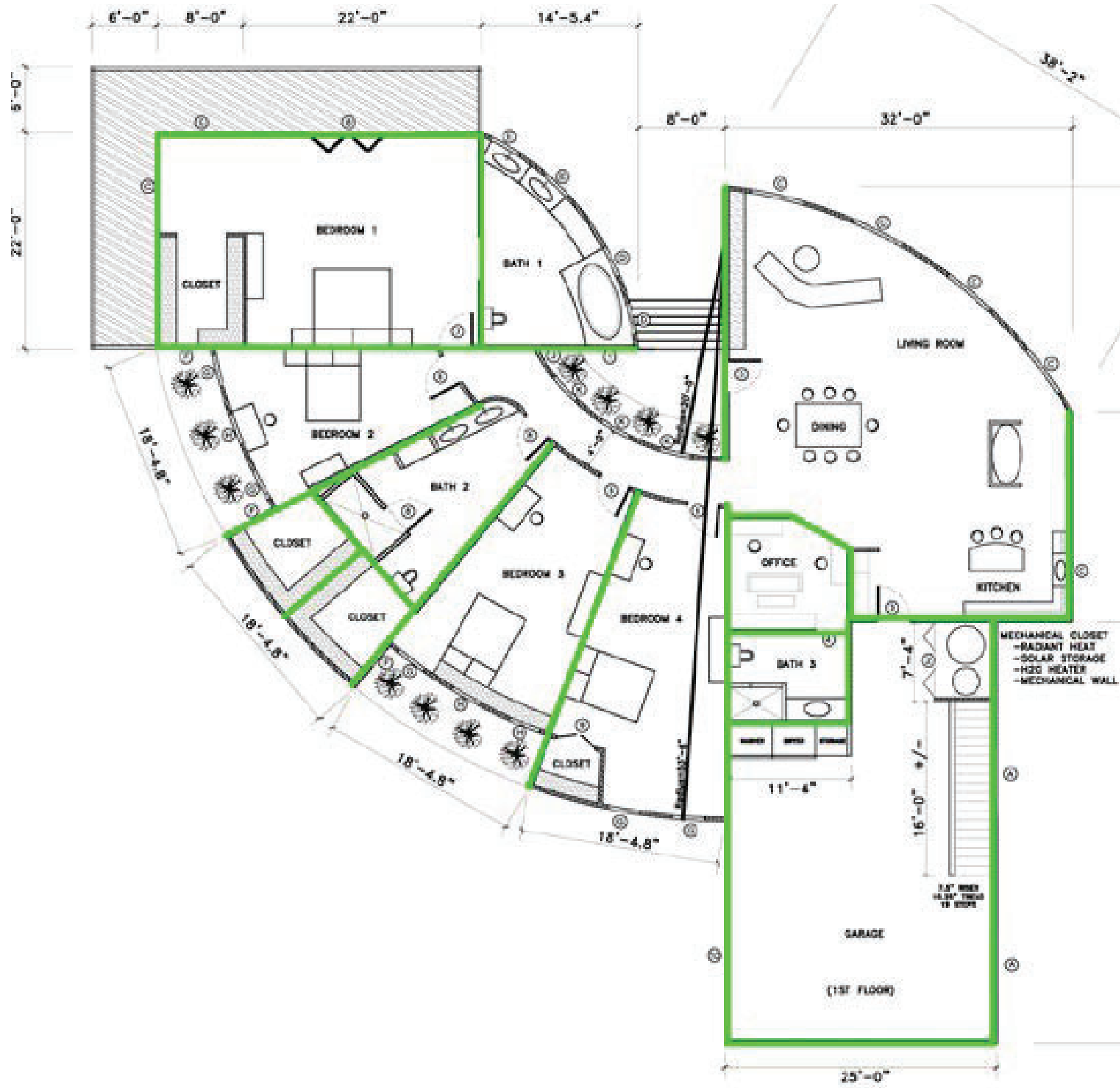
Lumber Takeoff (linear feet)

2x4" Plate: 284 ft 2x6" Plate: 1,552 ft
2x4" Stud: 134 ft 2x6" Stud: 604 ft

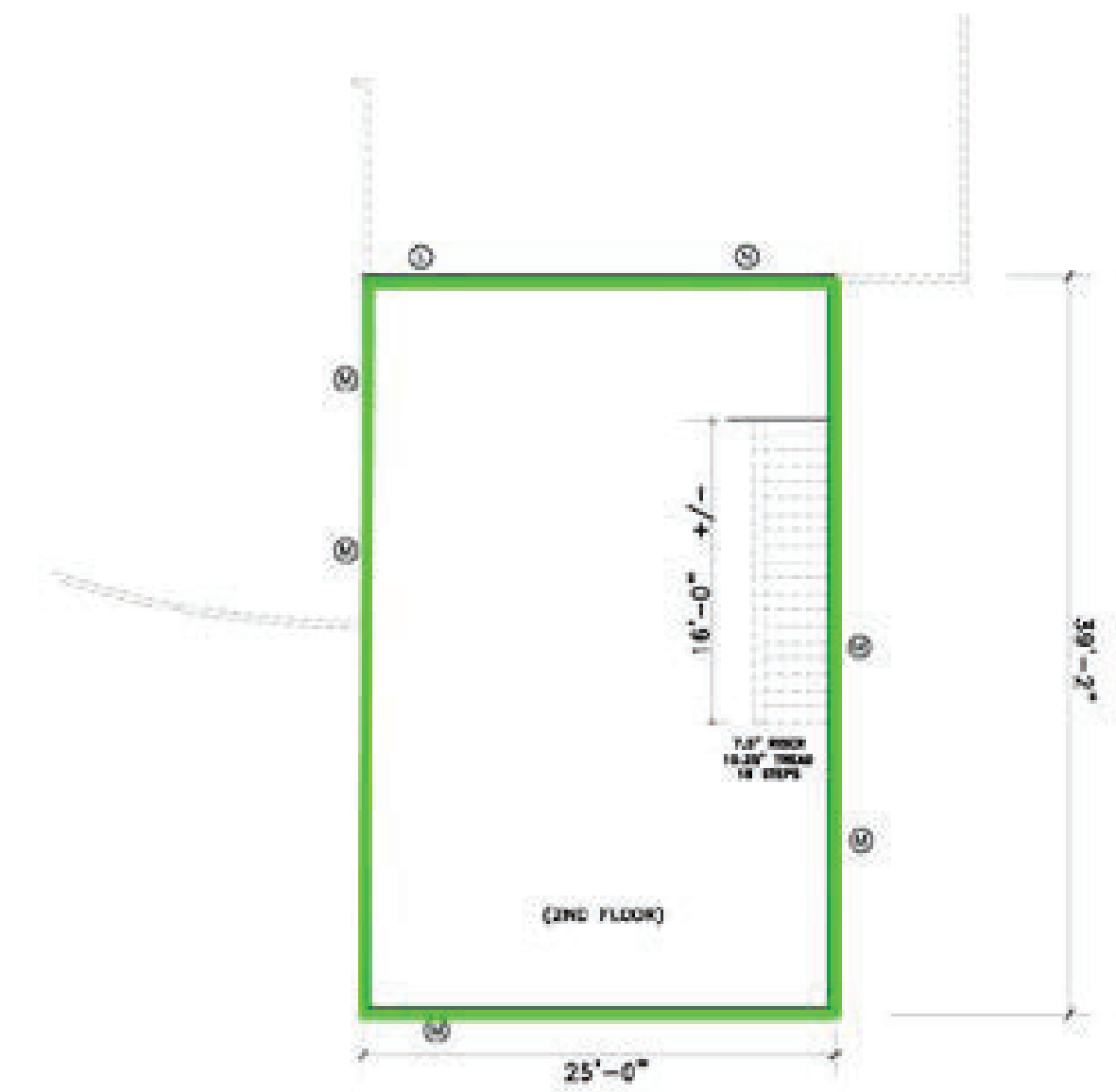
*BamCore does not provide lumber, these numbers are for reference only



BamCore Takeoff Larson Residence



Utilization of BamCore Panels
Level 1



Utilization of BamCore Panels
Level 2

STRUCTURAL GENERAL NOTES

STATEMENT OF SPECIAL INSPECTIONS

- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION DURING CONSTRUCTION. THE SPECIAL INSPECTOR(S) SHALL BE QUALIFIED TO THE SATISFACTION OF THE BUILDING OFFICIAL TO INSPECT THE KIND OF CONSTRUCTION BEING EMPLOYED IN THIS PROJECT. THE SPECIAL INSPECTOR SHALL SUBMIT REPORTS INDICATING RESULTS AND OBSERVATIONS OF TESTS AND INSPECTIONS AND STATING COMPLIANCE OR NONCOMPLIANCE WITH CONTRACT DOCUMENTS TO STRUCTURAL ENGINEER AND TO GOVERNING CODE AUTHORITY.
- TESTING LABORATORY SHALL PROVIDE SPECIAL INSPECTION, COMPLYING WITH LABC SECTION 1701 (UNLESS OTHERWISE NOTED), FOR THE FOLLOWING:
 - EPOXY ANCHORS
 - BOLTS INSTALLED IN CONCRETE
 - CONCRETE STRENGTH $f'_c > 2,500$ PSI
 - SHEATHED SHEAR WALL WHEN SHEAR EXCEEDS 350 POUNDS PER LINEAR FOOT WHERE THE FASTENER SPACING OF THE SHEATHING IS 4 INCHES ON CENTER OR LESS.
- CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTIONS" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LADBS INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SECTION 1704.4.
- CONTINUOUS SPECIAL INSPECTOR BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, POST-INSTALLED ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED TO RESIST SUSTAINED TENSION LOADS, SHOTCRETE PLACEMENT, CONCRETE STRENGTH $f'_c > 2,500$ PSI, HIGH STRENGTH BOLTING, SPRAYED-ON FIREPROOFING, ENGINEERED MASONRY, HIGH-LIFT GROUTING, PRE-STRESSED CONCRETE, HIGH LOAD DIAPHRAGMS, SPECIAL MOMENT-RESISTING CONCRETE FRAMES, AND HELICAL PILE FOUNDATIONS.
- PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING TO COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. SPECIAL INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEATHING IS 4 INCHES ON CENTER OR LESS.

STRUCTURAL OBSERVATIONS

- STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH CITY OF SAN JOSE ORDINANCES. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
- THE OWNER SHALL EMPLOY A CIVIL OR STRUCTURAL ENGINEER OR ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE ENGINEER OR ARCHITECT SHALL BE REGISTERED OR LICENSED IN THE STATE OF CALIFORNIA. THE DEPARTMENT OF BUILDING & SAFETY RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN WHEN THEY ARE INDEPENDENT OF THE CONTRACTOR.
- THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER. A LETTER FROM THE OWNER OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT. THE STRUCTURAL OBSERVER SHALL ALSO INFORM THE OWNER OF THE REQUIREMENTS FOR A PRE-CONSTRUCTION MEETING AND SHALL PRESIDE OVER THAT MEETING.
- THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT AND SUBMITTED TO THE BUILDING INSPECTOR.
- THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL ENGINEER.

STRUCTURAL OBSERVATION & DESIGNATION OF THE STRUCTURAL OBSERVER			
PROJECT ADDRESS: 10818 CROTHERS ROAD, SAN JOSE, CA 95127		PERMIT APPL. NO.:	
DESCRIPTION OF WORK: NEW ADU			
OWNER: LARSON RESIDENCE	ARCHITECT: ECO-STRUCION	ENGINEER: THANG LE, SE	
STRUCTURAL OBSERVATION (ONLY CHECKED ITEMS ARE REQUIRED)			
FIRM OR INDIVIDUAL TO BE RESPONSIBLE FOR THE STRUCTURAL OBSERVATIONS: THANG LE, S.E.			
NAME: THANG LE		PHONE: 626-731-1539	
CALIF. REGISTRATION: S4978			
FOUNDATION	WALL	FRAME	DIAPHRAGM
<input checked="" type="checkbox"/> FTG. STEM WALLS, PIERS	<input type="checkbox"/> CONCRETE	<input type="checkbox"/> STL. MMNT. FRM.	<input type="checkbox"/> CONCRETE
<input type="checkbox"/> MAT FOUNDATION	<input type="checkbox"/> MASONRY	<input type="checkbox"/> STL. BRACED FRM.	<input type="checkbox"/> STEEL DECK
<input type="checkbox"/> CAISSON, PILES, GRD. BMS.	<input checked="" type="checkbox"/> WOOD SHEAR	<input type="checkbox"/> CONC. MMNT. FRM.	<input checked="" type="checkbox"/> WOOD
<input type="checkbox"/> STEPPED FTG./RETAINING FND. HILLSIDE/SPECIAL ANCHORS	<input type="checkbox"/> WALL GREATER THAN 350 PLF	<input type="checkbox"/> MAS. WALL FRM.	<input type="checkbox"/> OTHERS
<input type="checkbox"/> OTHERS:	<input type="checkbox"/> RASTRA	<input type="checkbox"/> OTHERS:	

- THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT ON THE DEPARTMENT FORM B&S 261 FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE OBSERVATION REPORT SHALL BE SENT TO THE BUILDING INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMPED) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. COPIES OF THE REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR AND DEPUTY INSPECTOR.
- A FINAL OBSERVATION REPORT MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND THE STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DEPARTMENT OF BUILDING AND SAFETY WILL NOT ACCEPT STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THE CORRECTION OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING AND DEPUTY INSPECTION.
- WHEN THE OWNER ELECTS TO CHANGE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL:
 - NOTIFY THE BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION;
 - CALL AN ADDITIONAL PRE-CONSTRUCTION MEETING AND
 - FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS OBSERVATION REPORTS.

THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVED BY PLAN CHECK SUPERVISION. THE POLICY OF THE DEPARTMENT SHALL BE TO CORRECT ANY PROPERLY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.
- THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOPE ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.

E. ROUGH CARPENTRY

- ALL LUMBER SHALL BE GRADE MARKED DOUGLAS FIR - LARCH (DF-L). MAXIMUM MOISTURE CONTENT - 19%.
- MINIMUM LUMBER GRADES (UNLESS OTHERWISE NOTED):
 - STUDS, SILLS, AND PLATES DF-L #2
 - JOISTS AND RAFTERS DF-L #2
 - BEAMS AND POSTS DF-L #1
- ALL FOUNDATION PLATES OR SILLS AND SLEEPERS ON A CONCRETE OR MASONRY, SLAB, WHICH IS DIRECT CONTACT WITH EARTH, AND SILLS THAT REST ON CONCRETE OR MASONRY FOUNDATIONS SHALL BE PRESSURE TREATED DOUGHLAS FIR.
- WOOD SILL PLATES SHALL BE PRESSURE TREATED, UNLESS OTHERWISE NOTED, WITH 5/8" DIAMETER ANCHOR BOLTS BY 12" EMBEDMENT AT 4'-0" o.c. WITH 3"x3"x0.229" PLATE WASHERS (MINIMUM 2 ANCHOR BOLTS PER PIECE) LOCATED NOT MORE THAN 12" OR LESS THAN 7" DIAMETERS FROM EACH END OF THE PIECE. A PROPERLY SIZED NUT AND 3"x3"x0.229" THICK WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE PER CBC 2308.3.2.
- PROVIDE WASHERS UNDER HEADS AND NUTS OF BOLTS AND LAG SCREWS BEARING ON WOOD. NUTS ON ALL BOLTS SHALL BE TIGHTENED BEFORE CLOSING IN AND/OR ON COMPLETION OF THE JOB. CUT WASHERS MAY BE USED EXCEPT FOR SILL BOLTS AT SHEARWALLS AND WHERE NOTED OTHERWISE.
- INTERIOR NON-BEARING WALL SILLS MAY BE CONNECTED WITH ICC-ES APPROVED HILTI "X-L" (ESR-2269) WITH 1-1/4" MINIMUM EMBEDMENT POWER DRIVEN FASTENERS, WITH CADMIUM WASHERS, AT 32" ON CENTER. DO NOT USE POWER DRIVEN FASTENERS IN CONCRETE CURBS.
- BOLTS SHALL CONFORM TO ASTM A307. ALL BOLT HOLES SHALL BE DRILLED 1/32 TO 1/16" OVERSIZED.
- NO STRUCTURAL MEMBER INCLUDING STUDS AND PLATES SHALL BE CUT OR NOTCHED FOR PIPES, ETC... UNLESS SPECIFICALLY SHOWN, NOTED OR ACCEPTABLE TO THE ARCHITECT OR ENGINEER. FOR REQUIREMENT OF BORED HOLES, CONFORM TO CBC SECTIONS 2308.4.2.4, 2308.5.9, 2308.5.10, 2308.6.7.2 AND 2308.7.4.
- NAILING SHALL CONFORM TO CBC TABLE 2304.10.1 IN ADDITION TO NAILING SPECIFIED IN THESE DRAWINGS. USE COMMON NAILS UNLESS SPECIFICALLY OTHERWISE NOTED ON THESE DRAWINGS.
- PROVIDE 2x FULL HEIGHT BLOCKING AT EACH SUPPORT, 10 FEET ON CENTER FOR ROOF RAFTERS, AND 8 FEET ON CENTER FOR FLOOR JOISTS.
- UNDER WALLS PARALLEL TO JOISTS PROVIDE DOUBLE JOISTS. UNDER WALLS PERPENDICULAR TO JOISTS PROVIDE SOLID BLOCKING.
- PROVIDE FULL HEIGHT STUDS FROM FLOOR TO ROOF UNLESS OTHERWISE NOTED.
- GLUED LAMINATED MEMBERS
 - THE LAM BEAMS ARE TO BE FABRICATED IN THE SHOP OF A LICENSED FABRICATOR.
 - THE MANUFACTURER'S LOGO IS TO BE IMPRINTED ON THE SIDE OF THE LAM BEAM.
 - THE LAM BEAMS ARE TO BE LOAD TESTED BY THE MANUFACTURER AND THE TEST RESULTS SUBMITTED TO THE BUILDING INSPECTOR.
 - SPECIFY THE NAME OF THE MANUFACTURER OF THE LAM BEAMS AND SHOW THE ICC-ES APPROVAL NUMBER ON THE PLANS.
 - COMBINATION 24F-V8 DF/DF.
 - COMBINATION 24F-V4 DF/DF MAY BE USED ON SIMPLE SPAN MEMBERS WITH THE WRITTEN APPROVAL OF THANG LE, S.E.
- A LADBS CERTIFICATE OF INSPECTION FOR ALL GLUED LAMINATED TIMBER SHALL BE SUBMITTED TO A BUILDING AND SAFETY DIVISION INSPECTOR PRIOR TO ERECTION.
- A LADBS LICENSED FABRICATOR IS REQUIRED FOR GLU-LAM.
- GLUE-LAM BEAMS MUST BE FABRICATED IN A LADBS LICENSED SHOP. IDENTIFY GRADE SYMBOL AND LAMINATION SPECIES PER T 5-A, 2018 NDS SUPP.
- METAL FRAMING ACCESSORIES: STEEL JOIST HANGERS, FRAMING ANCHORS AND FASTENERS AND OTHER SUCH CONNECTION DEVICES SHALL BE OF STANDARD MANUFACTURER OF THE TYPE REQUIRED BY THESE DRAWINGS. NAILS SHALL BE THOSE FURNISHED BY THE MANUFACTURER FOR THIS SPECIFIC USE. DEVICES SHALL BE GALVANIZED. "SIMPSON" PART NUMBERS ARE SHOWN ON THE DRAWINGS.
- WOOD WALL STUDS:
 - PROVIDE FULL HEIGHT STUDS FROM FLOOR TO ROOF UNLESS OTHERWISE NOTED.
 - MAXIMUM HEIGHT OF 2x4 STUD WALLS IS 14'-0".
 - PROVIDE 2x6 STUDS AT 16" o.c. FOR WALLS 14'-0" TO 18'-0" TALL.
 - PROVIDE 2x8 STUDS AT 16" o.c. FOR WALLS 18'-0" TO 22'-0" TALL.
- BEAMS BUILT UP FROM MULTIPLE 2x MEMBERS:
 - 2-2x BEAMS - 16d FACE NAIL STAGGERED AT 9" o.c.
 - 3-2x BEAMS - 5/8" DIAMETER BOLTS STAGGERED AT 18" o.c.
- ONLY COMMON NAILS SHALL BE USED FOR ALL PLYWOOD SHEAR WALLS AND NAIL GUNS USING "CLIPPED HEAD" OR SINKER NAILS ARE NOT ACCEPTABLE.
- FASTENERS IN PRESERVATIVE TREATED WOOD OR FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL.

F. SHEATHING

- ROOF SHEATHING SHALL BE 15/32" APA RATED PLYWOOD SHEATHING, EXPOSURE 1, SPAN RATED 24/0, PRODUCT STANDARD DOC PS-1, DOUGLAS FIR-LARCH, STRUCTURAL I (OR CDX).
- FLOOR PANELS SHALL BE 23/32" APA RATED PLYWOOD STURDI-I-FLOOR, TONGUE AND GROOVE, EXPOSURE 1, SPAN RATED 24" o.c. PRODUCT STANDARD DOC PS-1, DOUGLAS FIR-LARCH, STRUCTURAL I (OR CDX).
- WALL SHEATHING SHALL BE APA RATED AS FOLLOWS:
 - 15/32" APA RATED SHEATHING, EXPOSURE 1, SPAN RATED 32/16.
 - 19/32" APA RATED SHEATHING, EXPOSURE 1, SPAN RATED 40/20.
- ALL SHEATHING SHALL BE 2'-0" IN THE LEAST DIMENSION UNLESS ALL EDGES ARE BLOCKED AND NAILED.

B. FOUNDATION

- PERFORM FOUNDATION WORK COMPLYING WITH REPORT AND ADDENDA. GEOTECHNICAL REPORT AND ADDENDA HEREBY BECOME PART OF THESE CONTRACT DOCUMENTS AND SHALL BE KEPT ON JOB SITE AT ALL TIMES.

FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS OF BUTANO GEOTECHNICAL ENGINEERING, INC.
231 GREEN VALLEY ROAD, SUITE E
FREEDOM, CALIFORNIA 95019
REPORT NO. 19-150-SCL
DATED MAY 8, 2020

ALLOWABLE SOIL BEARING = 1,500 PSF
MAXIMUM SOIL BEARING = 3,000 PSF
MINIMUM FOOTING DEPTH = 24 INCHES
MINIMUM FOOTING WIDTH = 12 INCHES FOR CONTINUOUS FOOTINGS
= 24 INCHES FOR PAD FOOTINGS
- FOUNDATION EXCAVATIONS ARE TO BE OBSERVED BY AND ACCEPTABLE TO A GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE PRIOR TO PLACEMENT OF FILL, REINFORCING STEEL, OR CONCRETE.
- PERFORM FILLING, BACKFILLING, COMPACTION, ETC... AS INDICATED IN GEOTECHNICAL REPORT AND ONLY UNDER SUPERVISION OF A GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.
- DO NOT PLACE BACKFILL BEHIND RETAINING WALLS PRIOR TO COMPLETION AND INSPECTION OF WATERPROOFING, ADEQUATELY SHORE RETAINING WALLS DURING BACKFILL OPERATION. UNLESS ADEQUATELY SHORED, DO NOT PLACE BACKFILL BEHIND BUILDING STRUCTURE RETAINING WALLS, EXCLUDING SITE RETAINING WALLS, UNTIL CONCRETE AT ELEVATED FLOOR LEVELS ADJACENT TO WALLS ARE COMPLETELY POURED AND HAVE CURED FOR AT LEAST 7 DAYS.
- THE APPROVED SOILS REPORT SHALL BE A PART OF THE PLANS AND SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.

C. REINFORCING STEEL

- REINFORCING STEEL COMPLYING WITH ASTM A615, GRADE 60 DEFORMED BARS, EXCEPT #3 BAR CAN BE GRADE 40 OR STRONGER.
- WELDED REINFORCING STEEL COMPLYING WITH ASTM A706, GRADE 60 DEFORMED BARS.
- SMOOTH WELDED WIRE FABRIC COMPLYING WITH ASTM A185. LAP FABRIC 1-1/2 SPACES (12" MINIMUM). PROVIDE DEFORMED WIRE STIRRUPS, SIZE D4 AND LARGER ONLY, COMPLYING WITH ASTM 497.
- SPLICE REINFORCING STEEL WHERE INDICATED. IF SPLICE LOCATIONS ARE NOT SPECIFICALLY SHOWN OR INDICATED, VERIFY SPLICE LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO DEVELOPING REINFORCING STEEL SHOP DRAWINGS.
- LAP REINFORCING STEEL AT SPLICES TO THE FOLLOWING MINIMUM LENGTHS, UNLESS OTHERWISE NOTED, (APPLICABLE TO 3,000 PSI OR HIGHER, NORMAL WEIGHT CONCRETE ONLY):

BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS
#3	1'-9"	1'-4"	#8	6'-10"	5'-3"
#4	2'-4"	1'-10"	#9	8'-8"	6'-8"
#5	2'-11"	2'-3"	#10	11'-0"	8'-6"
#6	3'-10"	2'-11"	#11	13'-6"	10'-6"
#7	5'-3"	4'-0"			

TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW REBAR.

OTHER BARS ARE HORIZONTAL BARS WITH LESS THAN 12 INCHES OF CONCRETE CAST BELOW BARS AND ALL VERTICAL BARS.

- MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL, INCLUDING SPLICED REINFORCING STEEL, SHALL BE 1 INCH OR 1 BAR DIAMETER, WHICHEVER IS GREATER. FOR BUNDLED BARS, MINIMUM CLEAR DISTANCES BETWEEN UNITS OF BUNDLED BARS SHALL BE SAME AS SINGLE BARS EXCEPT BAR DIAMETER IS DERIVED FROM EQUIVALENT TOTAL AREA OF BUNDLE.
- MAINTAIN THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE UNLESS OTHERWISE NOTED:
 - SLAB-ON-GRADE C/L OF SLAB
 - CONCRETE BELOW GRADE, FORMED 2 INCHES
 - CONCRETE BELOW GRADE, UNFORMED 3 INCHES
 - WALLS ABOVE GRADE, EXPOSED TO WEATHER 2 INCHES
 - WALLS ABOVE GRADE, NOT EXPOSED TO WEATHER 1 INCHES
 - COLUMNS, CLEAR TO FACE OF TIES 1-1/2 INCHES
 - BEAMS, CLEAR TO FACE OF TIES 1-1/2 INCHES
- BEND REINFORCING STEEL COLD UNLESS OTHERWISE ACCEPTED BY ARCHITECT OR ENGINEER.
- CHAIRS OR SPACERS FOR REINFORCING STEEL SHALL BE PLASTIC OR PLASTIC COATED WHEN RESTING ON EXPOSED SURFACES.
- WELD REINFORCING STEEL COMPLYING WITH AWS D1.4. DO NOT WELD REINFORCING STEEL OTHER THAN THOSE CONFORMING TO ASTM A706.
- SECURELY TIE ANCHOR BOLTS, REINFORCING STEEL, INSERTS, ETC... IN PLACE PRIOR TO PLACING CONCRETE OR GROUT.
- SUBMIT REINFORCING STEEL SHOP DRAWINGS INDICATING REINFORCING PLACEMENT, INCLUDING SPLICE LOCATIONS AND LENGTHS, TO ARCHITECT/ENGINEER FOR REVIEW AND ACCEPTANCE.

D. CAST-IN-PLACE CONCRETE

- NORMAL WEIGHT AGGREGATES OF NATURAL SAND AND ROCK COMPLYING WITH ASTM C33 AND UBC STANDARD 26-2.
- PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE II, AND UBC STANDARD 26-1, PART I.
- NORMAL WEIGHT CONCRETE (145 PCF), WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05%, ATTAINING MINIMUM COMPRESSIVE STRENGTHS (f'_c) AT 28 DAYS AS FOLLOWS:

FOUNDATIONS	3,000 PSI
CONCRETE WALLS	3,000 PSI
SLAB-ON-GRADE	2,500 PSI
UNLESS OTHERWISE NOTED	3,000 PSI
- SLUMP NOT TO EXCEED 4 INCHES.
- DO NOT USE CONCRETE OR GROUT CONTAINING CHLORIDES
- DO NOT EMBED CONDUITS, PIPES, OR SLEEVES OTHER THAN ELECTRICAL CONDUITS 1 INCH DIAMETER AND SMALLER IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY DETAILED OR ACCEPTED BY ARCHITECT OR ENGINEER.
- FORM EXPOSED CORNERS OF COLUMNS, BEAMS, WALLS, ETC... WITH 3/4 INCH CHAMFERS UNLESS OTHERWISE DETAILED.
- PROVIDE KEYS IN CONSTRUCTION JOINTS UNLESS OTHERWISE DETAILED.
- ROUGHED CONCRETE SURFACE TO FULL AMPLITUDE OF 1/16 INCH WHERE MASONRY WALLS INTERSECT CONCRETE.

A. GENERAL

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA BUILDING CODE 2019 EDITION (CBC 2019), REFERENCED STANDARDS OF CHAPTER 35 AND ALL APPLICABLE CODES AND ORDINANCES.

BASIS OF DESIGN:

 - SEISMIC LOADS
 - + IMPORTANCE FACTOR, $I_e = 1.0$
 - + $S_s = 2.356g$
 - + $S_1 = 0.911g$
 - + SITE CLASS: C
 - + $S_{ds} = 1.885g$
 - + $S_{d1} = 0.850g$
 - + $R_{ho} = 1.3$ (REDUNDANCY FACTOR)
 - + SEISMIC DESIGN CATEGORY: E
 - + BASIC SEISMIC-FORCE-RESISTING SYSTEM: SHEATHED SHEAR BEARING WALLS
 - + SEISMIC RESPONSE COEFFICIENT, $C_s = 0.290$ (STRENGTH) = 0.207 (SERVICE)
 - + RESPONSE MODIFICATION FACTOR, $R = 6.5$
 - + ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE
 - WIND LOAD
 - + BASIC WIND SPEED = 110 MPH (ULTIMATE)
 - + EXPOSURE C
 - + IMPORTANCE FACTOR, $I_w = 1.0$
 - + INTERNAL PRESSURE COEFFICIENT = 0.18
 - + DESIGN WIND PRESSURE = 27.5 PSF
 - + COMPONENTS AND CLADDING WIND PRESSURE = 39 PSF
 - LIVE LOADS
 - + ROOF = 20 PSF
 - + FLOOR = 40 PSF
 - + DECK/BALCONY = 60 PSF
 - DEAD LOADS
 - + ROOF = 18 PSF
 - + FLOOR = 18 PSF
- AISC - SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING.
- ACI-318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- ALL ASTM SPECIFICATIONS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.
- WRITTEN INFORMATION AND DIMENSIONS SHALL TAKE PRECEDENCE OVER GRAPHIC INFORMATION. DO NOT SCALE DRAWINGS.
- ALL DIMENSIONS ARE TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, ELEVATIONS, SECTIONS, AND DETAILS.
- ANY DISCREPANCIES ON THE PLANS OR ANY DEVIATIONS FROM THE PLANS WHICH ARE NECESSITATED BY FIELD CONDITIONS OR ANY CONDITION DIFFERENT FROM THOSE INDICATED ON THE PLANS, SHALL BE CALLED TO THE ATTENTION OF THANG LE, S.E. PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL WORK IS TO BE COORDINATED SO THAT COOPERATION BETWEEN THE TRADES WHERE REQUIRED, IS ACCOMPLISHED.
- SEE ARCHITECTURAL DRAWING FOR KINDS OF FLOOR FINISH, DEPRESSION IN SLAB, OPENINGS IN WALLS AND ROOF REQUIRED BY DOOR, WINDOWS, DUCTS, VENTS, HATCHES, PLUMBING, ETC...; ALL TYPE OF FLASHING, INSERTS, ANCHORS, HANGERS, ETC... EMBEDDED OR ATTACHED TO CONCRETE STRUCTURE; PAVING, WALKS, STAIRS, RAMPS, CURBS, PARAPETS, TERRACES, ETC...; EXTERIOR GRADES; ROOF SLABS, CRICKETS AND DRAINS.
- THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS AS TO LAYOUT DIMENSIONS AND ELEVATIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THANG LE, S.E. AND THE OWNER FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
- IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR CONDITIONS THAT ARE SHOWN OR CALLED FOR.
- THE BUILDER SHALL TAKE FULL AND FINAL RESPONSIBILITY FOR CONSTRUCTING A FINAL PRODUCT OF APPROPRIATE QUALITY AND SERVICEABILITY CONSISTENT WITH THE INFORMATION AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS OR REASONABLY INFERRABLE THEREFROM, AND/OR CONTAINED IN THE REQUIREMENTS OF ANY GOVERNMENTAL ENTITY WITH JURISDICTION OVER THE PROJECT.
- THE BUILDER SHALL TAKE FULL RESPONSIBILITY FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES INCLUDING WITHOUT LIMITATION DEMOLITION, EXCAVATION AND ERECTION PROCEDURES.
- STRUCTURAL OBSERVATION VISITS TO SITE BY REPRESENTATIVES OF THANG LE, S.E. DO NOT INCLUDE INSPECTIONS OF CONSTRUCTION MEANS AND METHODS. OBSERVATIONS PERFORMED BY ENGINEER DURING CONSTRUCTION ARE NOT CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE PERFORMED BY OTHERS. OBSERVATIONS PERFORMED BY ENGINEER ARE PERFORMED SOLELY FOR THE PURPOSE OF DETERMINING IF THE CONTRACTOR UNDERSTANDS DESIGN INTENT CONVEYED IN CONTRACT DOCUMENTS. OBSERVATIONS DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- MODIFICATIONS OR SUBSTITUTIONS: DESIGN, MATERIALS, EQUIPMENT AND PRODUCTS OTHER THAN THOSE INDICATED OR SPECIFIED MAY BE CONSIDERED FOR USE PROVIDED A WRITTEN REQUEST, SUBJECT TO REVIEW, IS SUBMITTED TO OWNER, ARCHITECT, ENGINEER AND GOVERNING CODE AUTHORITY PRIOR TO ITS USE OR INCLUSION ON ANY SHOP DRAWING.
- BRACE PIPING AND DUCTS COMPLYING WITH LATEST ADDITION OF GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.
- INSTALL AND ANCHOR MECHANICAL AND ELECTRICAL EQUIPMENT TO STRUCTURE COMPLYING ASCE/SEI 7-05, CHAPTER 13, AS MODIFIED BY CBC 1614.1.11 THROUGH 1614.1.16. ISOLATORS, FASTENERS AND ANY OTHER ELEMENT PROVIDING STABILITY FOR EQUIPMENT SHALL BE APPROVED BY ICC-ES OR EQUIVALENT TESTING PROCEDURE. PROVIDE SUSPENDED EQUIPMENT WITH APPROVED LATERAL OR SWAY BRACING.

NO.	DATE	REVISION	DESCRIPTION
	07-05-2022		BUILDING DEPARTMENT SUBMITAL

THANG LE & ASSOCIATES, INC.
STRUCTURAL ENGINEERS, INC.

319 E. FOOTHILL BLVD., SUITE C
ARCADIA, CALIFORNIA 91006
PHONE: (626) 731-1539



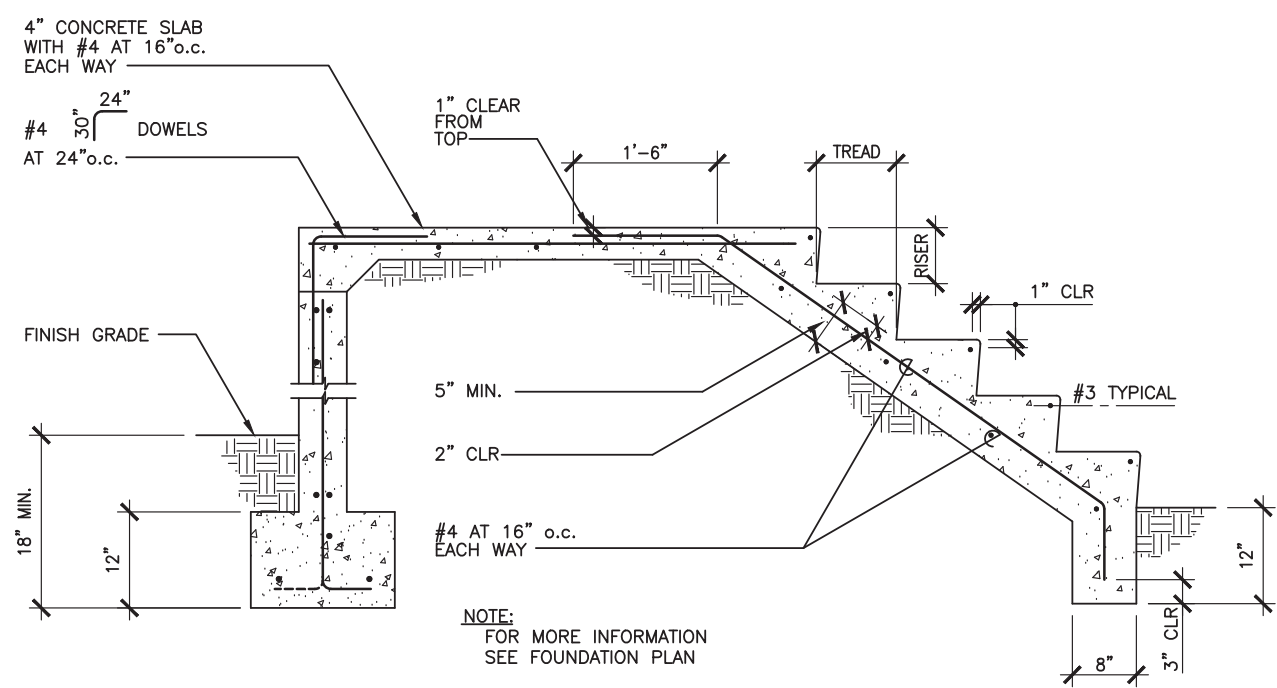
07.05.2022

LARSON RESIDENCE

10818 CROTHERS ROAD
SAN JOSE, CALIFORNIA 95127

GENERAL NOTES

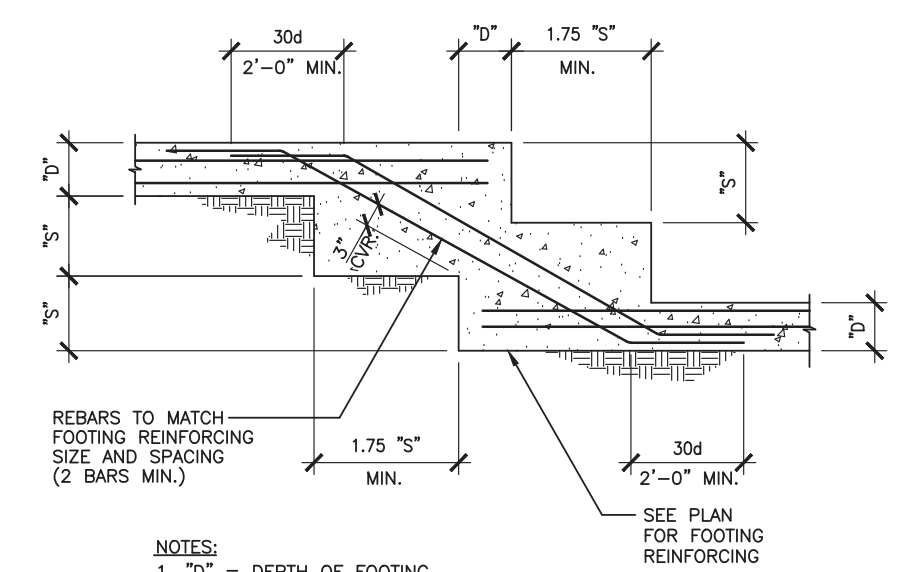
S1.1



TYPICAL STAIR ON GRADE

3/4"=1"

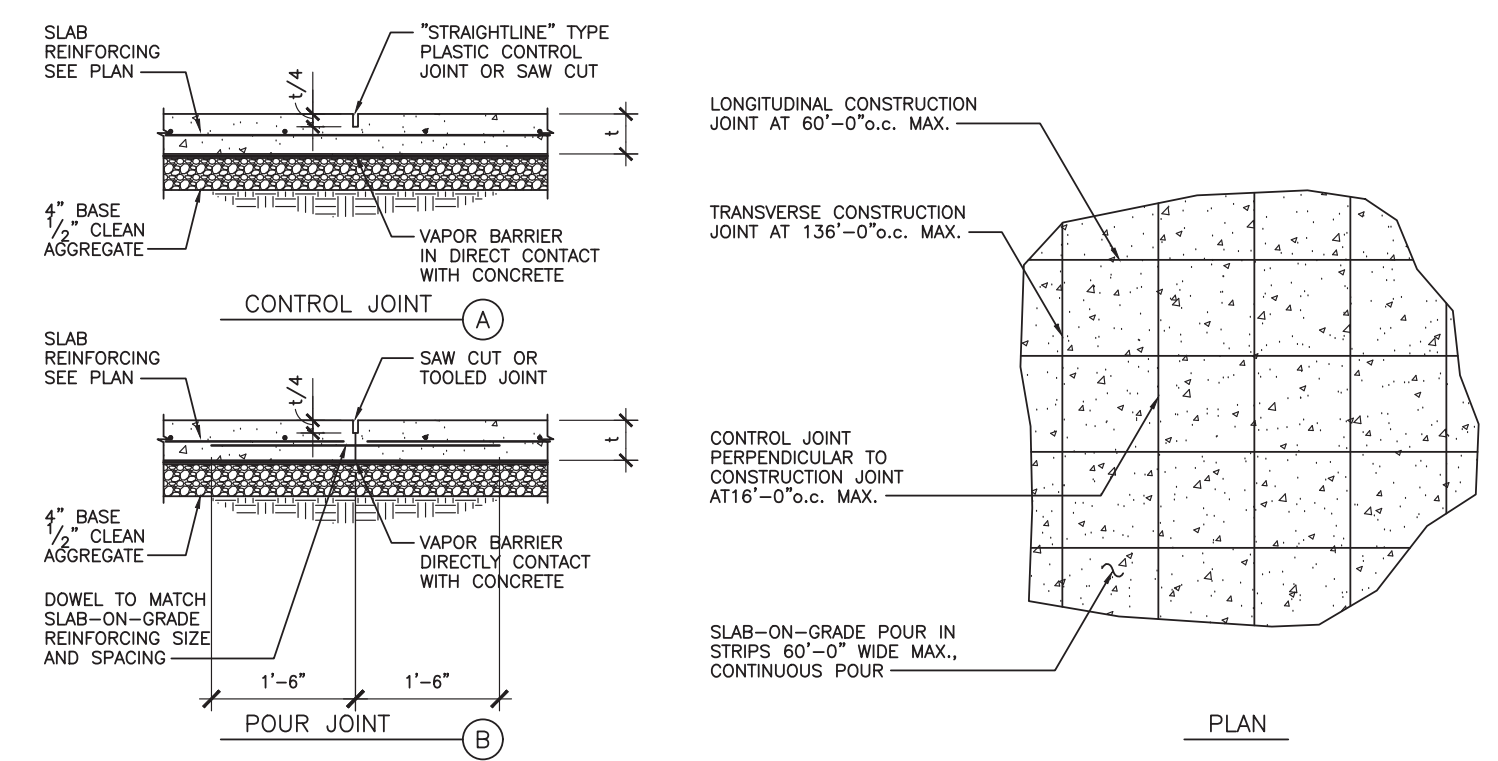
6



TYPICAL STEPPED FOOTING

3/4"=1"

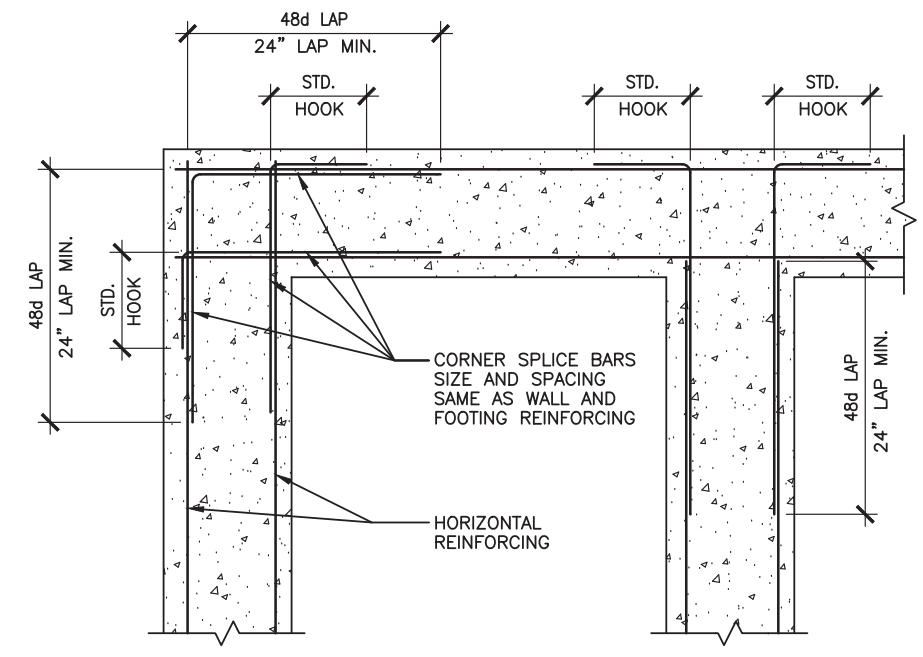
3



TYPICAL SLAB-ON-GRADE DETAIL

3/4"=1"

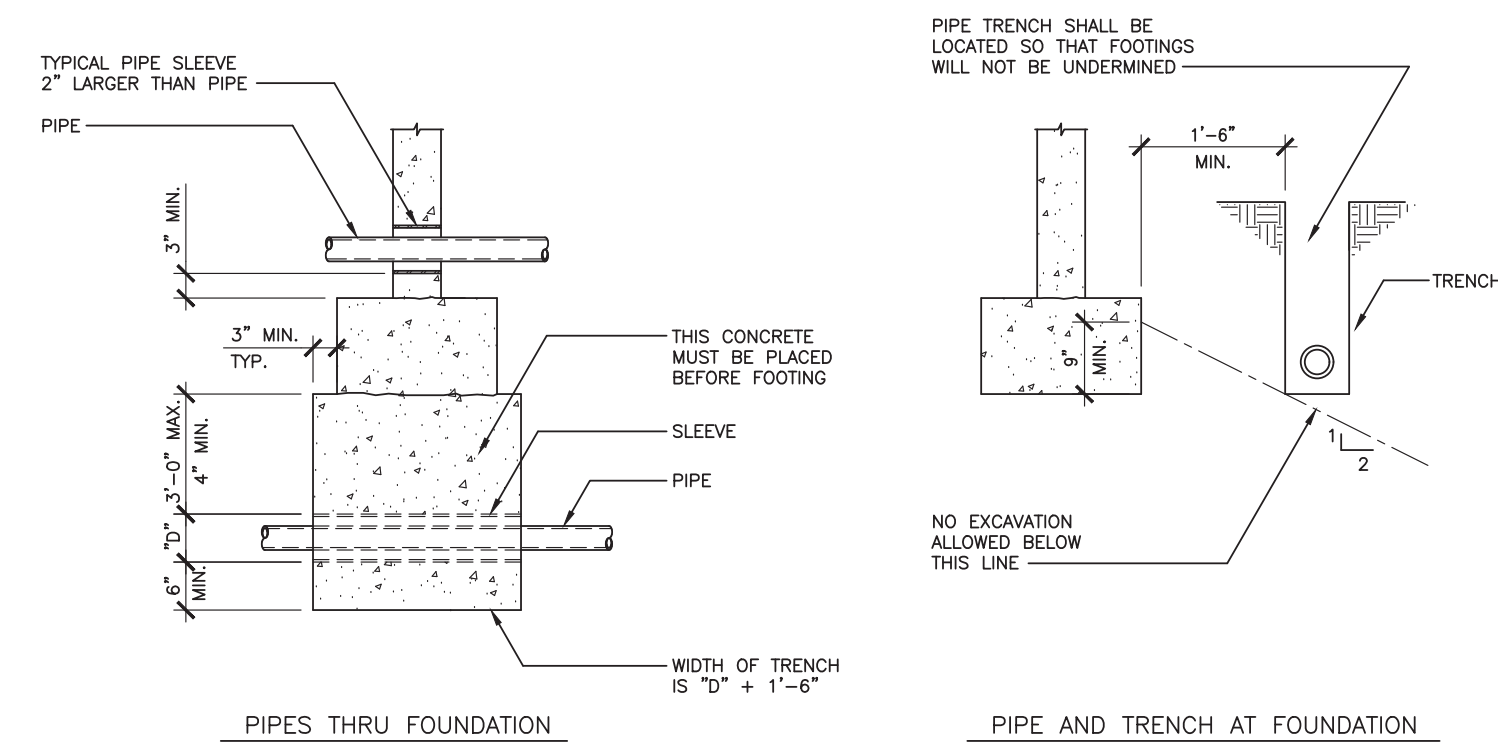
5



TYPICAL FOOTING/WALL CORNER REINFORCING

3/4"=1"

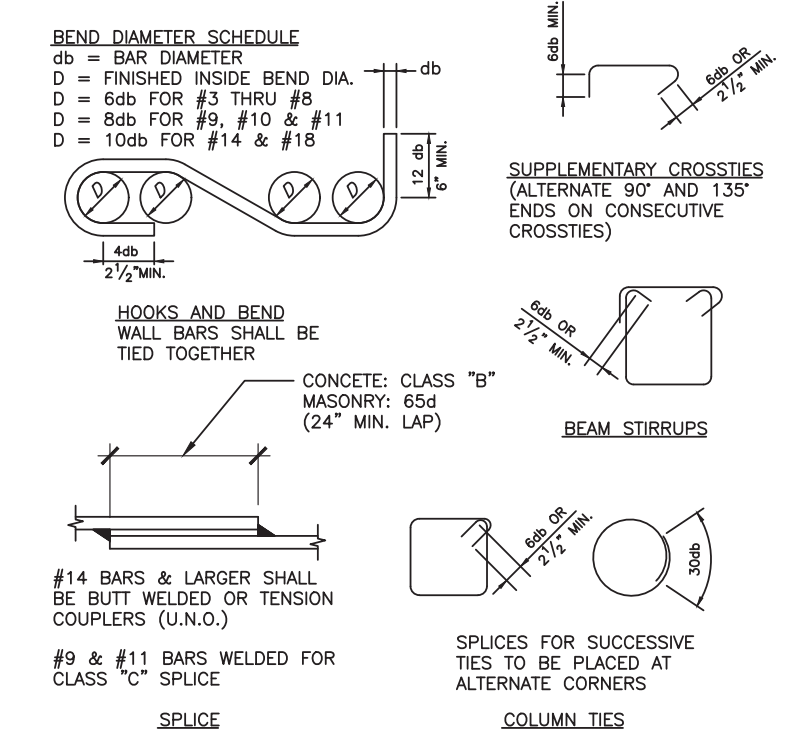
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TYPICAL PIPE AT FOOTING

3/4"=1"

4

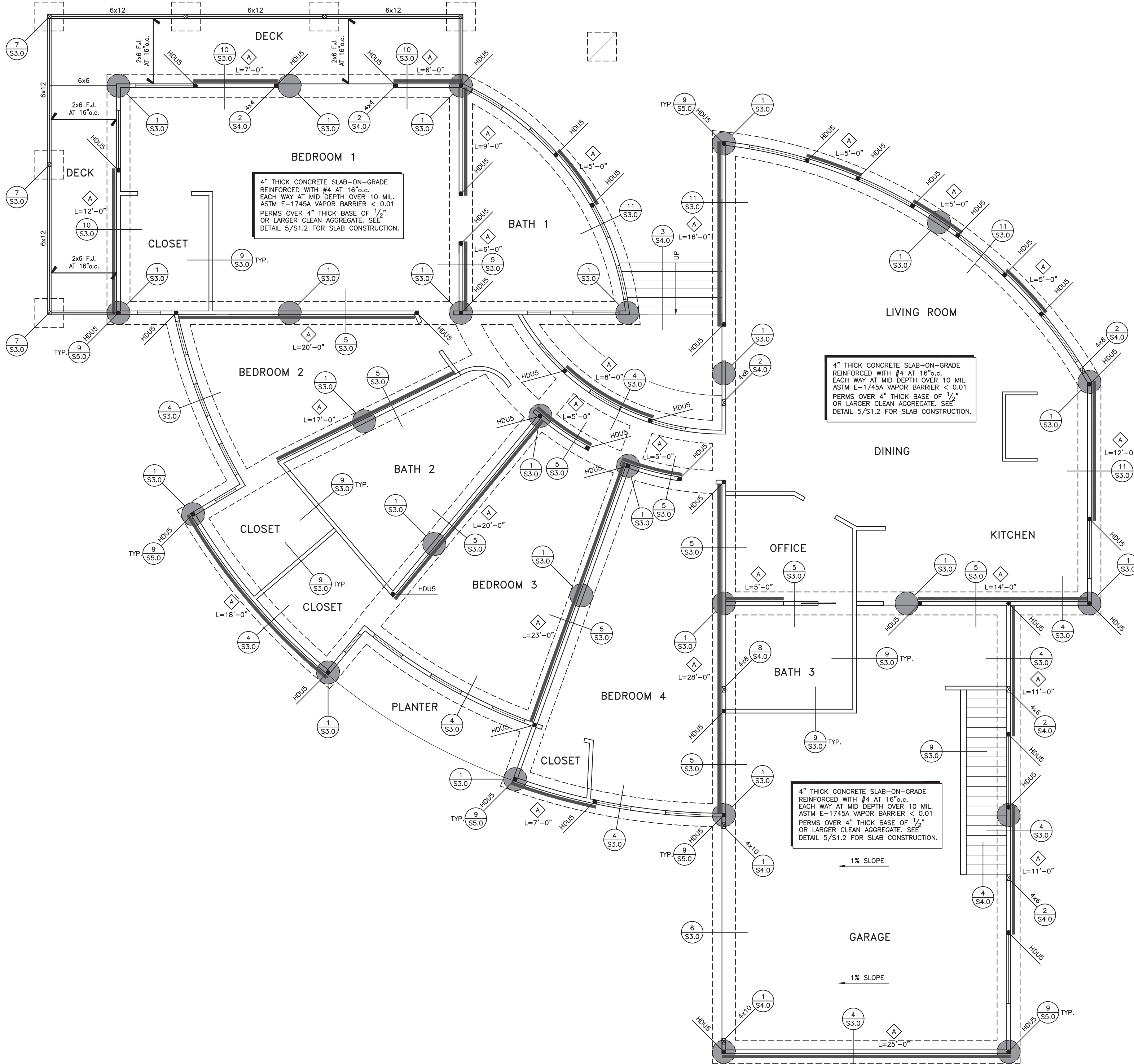


TYPICAL REBAR BENT

3/4"=1"

1

REVISION DESCRIPTION	BUILDING DEPARTMENT SUBMITTAL
DATE	07-05-2022
NO.	07-05-2022
DATE ISSUED	07-05-2022
DRAWN BY	ML
CHECKED BY	TL
THANG LE & ASSOCIATES, INC. STRUCTURAL ENGINEERS, INC.	
319 E. FOOTHILL BLVD., SUITE C ARCADIA, CALIFORNIA 91006 PHONE: (626) 731-1539	
07.05.2022	
LARSON RESIDENCE	
10818 CROTHERS ROAD SAN JOSE, CALIFORNIA 95127	
TYPICAL CONCRETE DETAILS	
S1.2	



FOUNDATION PLAN

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

- NOTES:**
- ALL COLUMN FOOTINGS ARE CENTERED ON COLUMNS AND COLUMNS ARE CENTERED ON GRIDS U.O.N. WALL FOOTINGS ARE CENTERED BENEATH WALLS U.O.N.
 - SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
 - SEE SHEET S1.2 FOR TYPICAL CONCRETE DETAILS.
 - SEE SHEET S1.3 FOR TYPICAL WOOD DETAILS.
 - VERIFY SIZE, LOCATION AND DEPTH OF UTILITIES AND SLEEVES WITH OTHER TRADES. FOR MECH LINES BELOW FOUNDATION, STEP AND THICKEN FOOTING AS INDICATED IN DETAIL 4 (S1.2).
 - VERIFY SHOWN DIMENSIONS WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS. NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO CONSTRUCTION.
 - FOR TYPICAL FOOTING/WALL CORNER BAR REINFORCING SEE 2 (S1.2).
 - DESIGNATES BAMCORE PRIME SHEAR WALL PANEL. NAILING SCHEDULE SEE SHEET S6.0.
 - DESIGNATES SIMPSON HOLD-DOWN TO NEW FOOTING SEE 9 (S6.0).
 - DESIGNATES GRADE BEAM. SEE PLAN FOR REINFORCEMENT.
 - DESIGNATES CONCRETE PILE. SEE PLAN FOR REINFORCEMENT.
 - MINIMUM ANCHOR BOLT SIZE AND SPACING SHALL BE 3/8" DIA. A.B. AT 48" O.C. WITH 7" EMBEDMENT, AND 3"x3"x0.229" STAINLESS STEEL PLATE WASHERS. ANCHOR BOLTS SHALL BE LOCATED A MAXIMUM OF 12" AND 7" MINIMUM FROM THE END OF THE PLATE AND SPACED NOT MORE THAN 4 FEET APART.
 - PLATE WASHERS ARE REQUIRED FOR ALL HOLD-DOWNS.
 - HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS. HOLD-DOWNS SHALL BE TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.299 INCH BY 3 INCHES BY 3 INCHES.
 - ALL ANCHOR BOLTS (INCLUDING HOLD-DOWN BOLT ANCHORS) SHALL HAVE MINIMUM EDGE DISTANCE OF 1 1/4".
 - FASTENERS IN PRESERVATIVE TREATED WOOD OR FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIP ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL.
 - FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.
 - ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS.
 - ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
 - ALL BOLT HOLES SHALL BE DRILLED 1/32 TO 1/16" OVERSIZED.
 - HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
 - NUTS OF THE PRIMARY AND SECONDARY ANCHORS FASTENERS SHALL BE WRENCH TIGHTENED PRIOR TO INSPECTION AND COVERING.
 - POWER-DRIVEN FASTENERS SHALL NOT BE USED TO ANCHOR SILL PLATES EXCEPT AT INTERIOR NONBEARING WALLS NOT DESIGNED AS SHEAR WALLS.
 - PROVIDE LEAD HOLE 40%-70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.
 - IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION REPORT MAY BE REQUIRED.
 - ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED PANEL EDGES. PLYWOOD SPAN SHALL CONFORM WITH TABLE 2304.8.

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DATE	07-05-2022
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THANG LE & ASSOCIATES, INC.
 STRUCTURAL ENGINEERS, INC.
 319 E. FOOTHILL BLVD., SUITE C
 ARCADIA, CALIFORNIA 91006
 PHONE: (626) 731-1539

REGISTERED PROFESSIONAL ENGINEER
 THANG H. LE
 S 4978
 EXP 06/30/24
 STATE OF CALIFORNIA
 07.05.2022

LARSON RESIDENCE
 10818 CROTHERS ROAD
 SAN JOSE, CALIFORNIA 95127

FOUNDATION PLAN

S2.1

MEZZANINE FRAMING PLAN

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

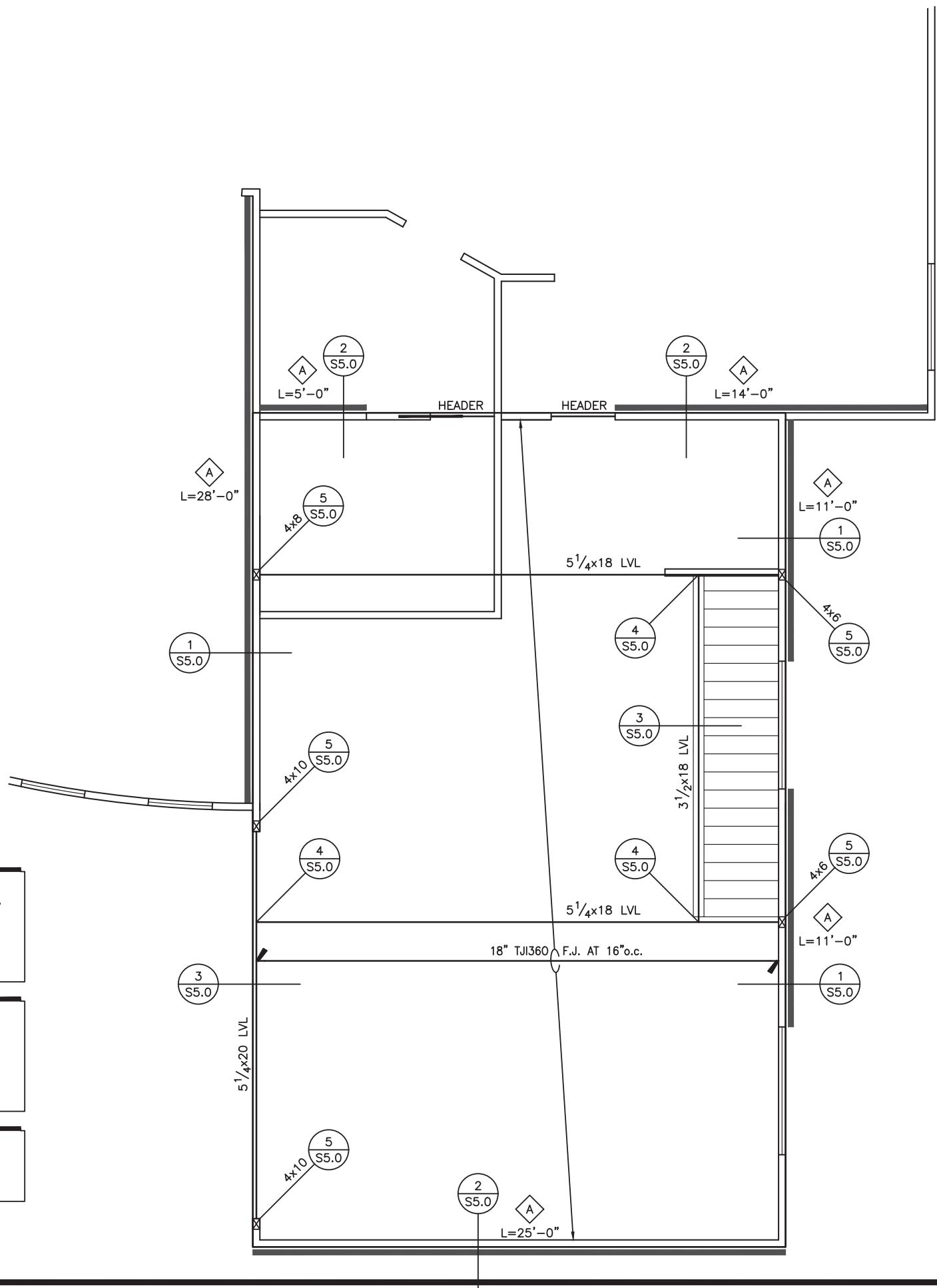
NOTES:

- ALL COLUMN FOOTINGS ARE CENTERED ON GRIDS. COLUMNS AND WALLS ARE CENTERED BENEATH WALLS U.O.N.
- SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
- SEE SHEET S1.2 FOR TYPICAL CONCRETE DETAILS.
- SEE SHEET S1.3 FOR TYPICAL WOOD DETAILS.
- VERIFY SIZE, LOCATION AND DEPTH OF UTILITIES AND SLEEVES WITH OTHER TRADES. FOR MECH LINES BELOW FOUNDATION, STEP AND THICKEN FOOTING AS INDICATED IN DETAIL (S1.2).
- VERIFY SHOWN DIMENSIONS WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS. NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO CONSTRUCTION.
- FOR TYPICAL FOOTING/WALL CORNER BAR REINFORCING SEE (S1.2).
- DESIGNATES BAMCORE PRIME SHEAR WALL PANEL. NAILING SCHEDULE SEE SHEET S6.0.
- DESIGNATES SIMPSON HOLDOWN TO NEW FOOTING SEE (S6.0).
- DESIGNATES CONTINUOUS FOOTING. SEE PLAN FOR REINFORCEMENT.
- DESIGNATES CONCRETE PAD FOOTING. SEE PLAN FOR REINFORCEMENT.
- MINIMUM ANCHOR BOLT SIZE AND SPACING SHALL BE 3/8" DIA. A.B. AT 48" o.c. WITH 7" EMBEDMENT, AND 3"x3"x0.229" STAINLESS STEEL PLATE WASHERS. ANCHOR BOLTS SHALL BE LOCATED A MAXIMUM OF 12" AND 7" MINIMUM FROM THE END OF THE PLATE AND SPACED NOT MORE THAN 4 FEET APART.
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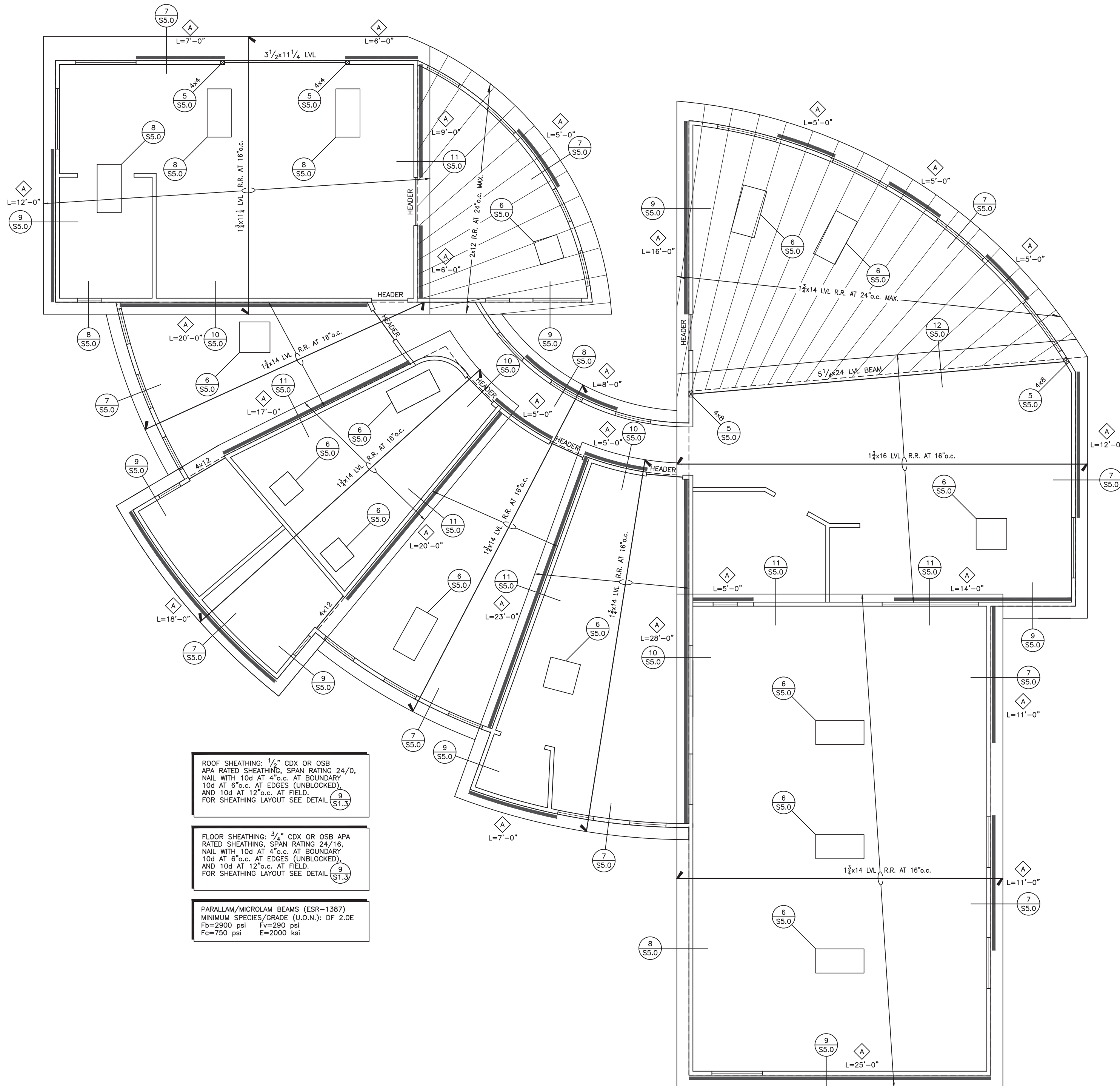
ROOF SHEATHING: 1/2" CDX OR OSB APA RATED SHEATHING, SPAN RATING 24/0, NAIL WITH 10d AT 4" o.c. AT BOUNDARY AND 10d AT 6" o.c. AT EDGES (UNBLOCKED), AND 10d AT 12" o.c. AT FIELD. FOR SHEATHING LAYOUT SEE DETAIL (S1.3).

FLOOR SHEATHING: 3/4" CDX OR OSB APA RATED SHEATHING, SPAN RATING 24/16, NAIL WITH 10d AT 4" o.c. AT BOUNDARY AND 10d AT 6" o.c. AT EDGES (UNBLOCKED), AND 10d AT 12" o.c. AT FIELD. FOR SHEATHING LAYOUT SEE DETAIL (S1.3).

PARALLAM/MICROLAM BEAMS (ESR-1387) MINIMUM SPECIES/GRADE (U.O.N.): DF 2.0E
 Fb=2900 psi Fv=290 psi
 Fc=750 psi E=2000 ksi



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1	BUILDING DEPARTMENT SUBMITTAL	07-05-2022	ML	TL	
DATE ISSUED	DRAWN BY	ML	CHECKED BY	TL	
07-05-2022	ML	ML	TL	TL	
THANG LE & ASSOCIATES, INC. STRUCTURAL ENGINEERS, INC. 319 E. FOOTHILL BLVD., SUITE C ARCADIA, CALIFORNIA 91006 PHONE: (626) 731-1539					
07.05.2022					
LARSON RESIDENCE 10818 CROTHERS ROAD SAN JOSE, CALIFORNIA 95127					
MEZZANINE FRAMING PLAN					
S2.2					



ROOF SHEATHING: 1/2" CDX OR OSB
 APA RATED SHEATHING, SPAN RATING 24/0,
 NAIL WITH 10d AT 4" o.c. AT BOUNDARY
 10d AT 6" o.c. AT EDGES (UNBLOCKED),
 AND 10d AT 12" o.c. AT FIELD.
 FOR SHEATHING LAYOUT SEE DETAIL (S1.3)

FLOOR SHEATHING: 3/4" CDX OR OSB APA
 RATED SHEATHING, SPAN RATING 24/16,
 NAIL WITH 10d AT 4" o.c. AT BOUNDARY
 10d AT 6" o.c. AT EDGES (UNBLOCKED),
 AND 10d AT 12" o.c. AT FIELD.
 FOR SHEATHING LAYOUT SEE DETAIL (S1.3)

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 MINIMUM SPECIES/GRADE (U.O.N.): DF 2.0E
 Fb=2900 psi Fv=290 psi
 Fc=750 psi E=2000 ksi

ROOF FRAMING PLAN

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

- NOTES:
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 - DESIGNATES BAMCORE PRIME SHEAR WALL PANEL. NAILING SCHEDULE SEE SHEET S6.0.
 - DESIGNATES SIMPSON HOLD-DOWN TO NEW FOOTING SEE (S6)
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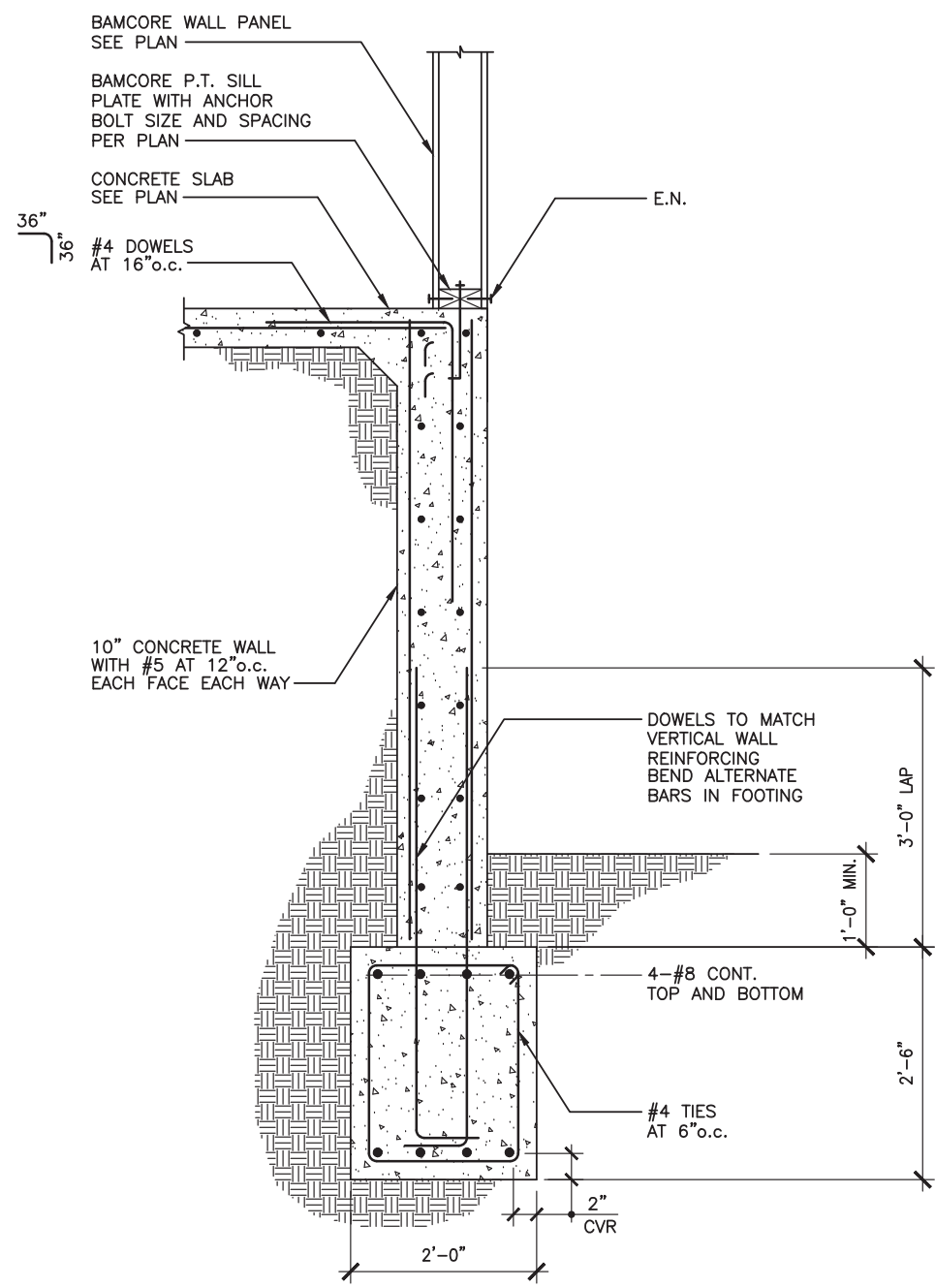
THANG LE & ASSOCIATES, INC.
 STRUCTURAL ENGINEERS, INC.
 319 E. FOOTHILL BLVD., SUITE C
 ARCADIA, CALIFORNIA 91006
 PHONE: (626) 731-1539

REGISTERED PROFESSIONAL ENGINEER
 THANG H. LE
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 EXP 06/30/24
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LARSON RESIDENCE
 10818 CROTHERS ROAD
 SAN JOSE, CALIFORNIA 95127

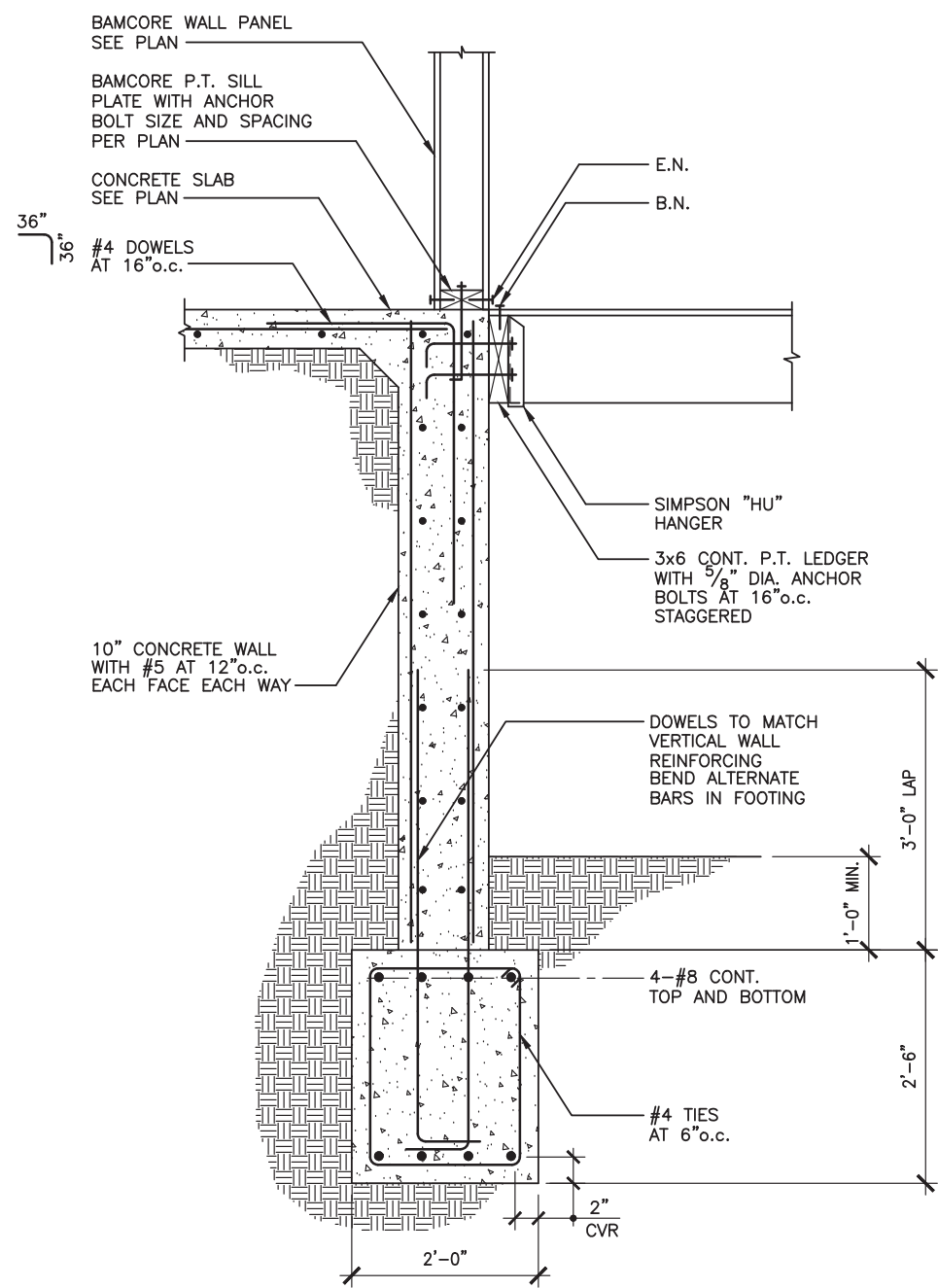
ROOF FRAMING PLAN

S2.3



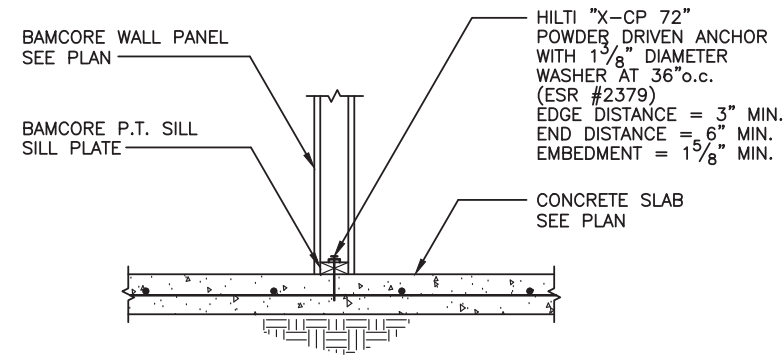
WALL TO GRADE BEAM

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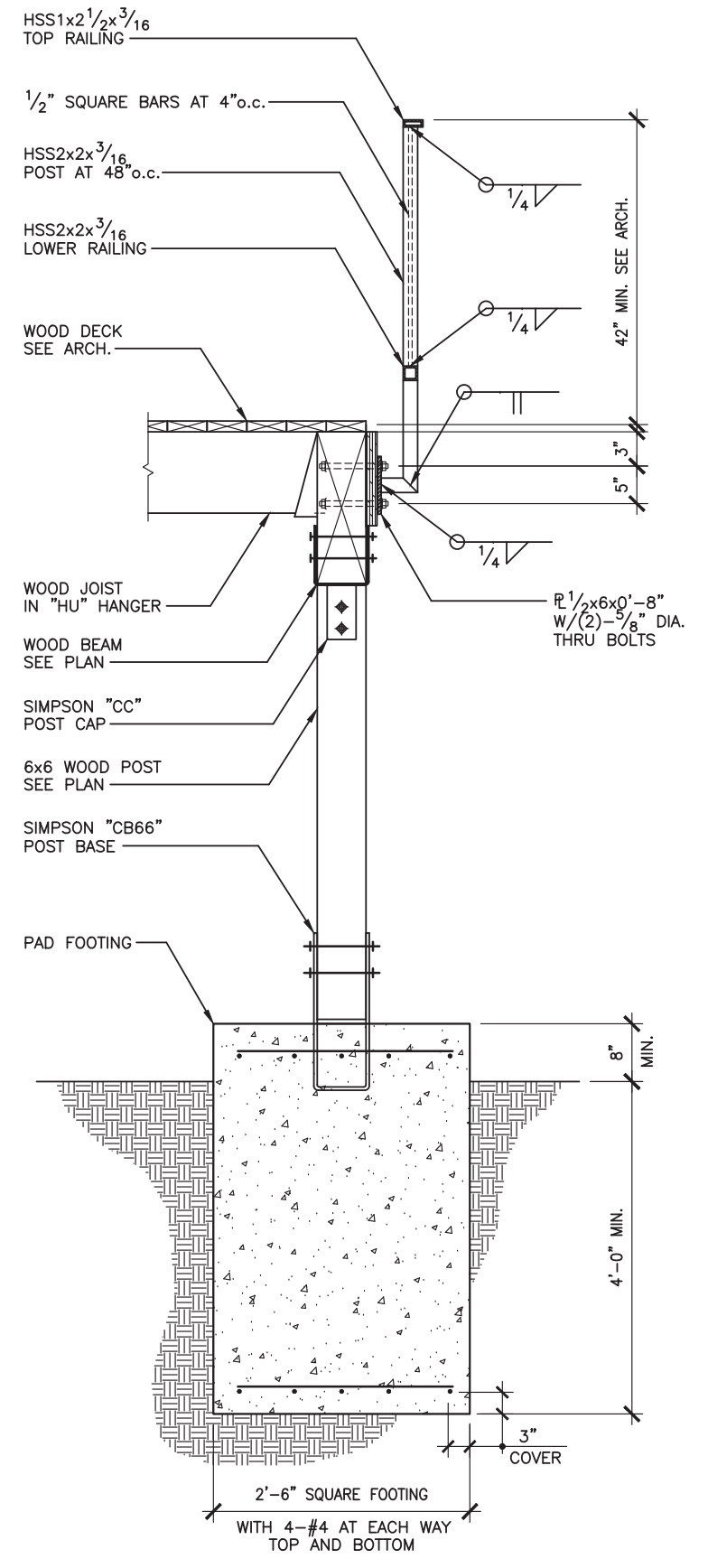
WALL TO GRADE BEAM

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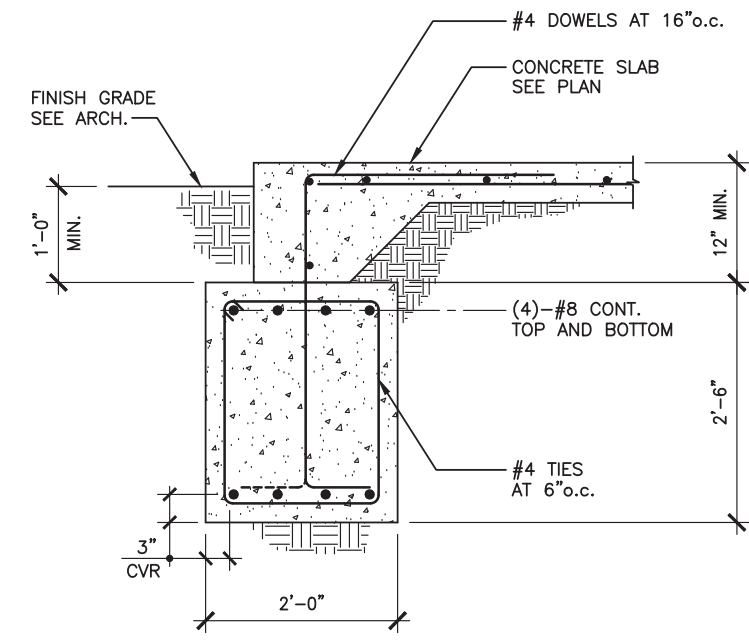
TYP. NON-BEARING WALL

9



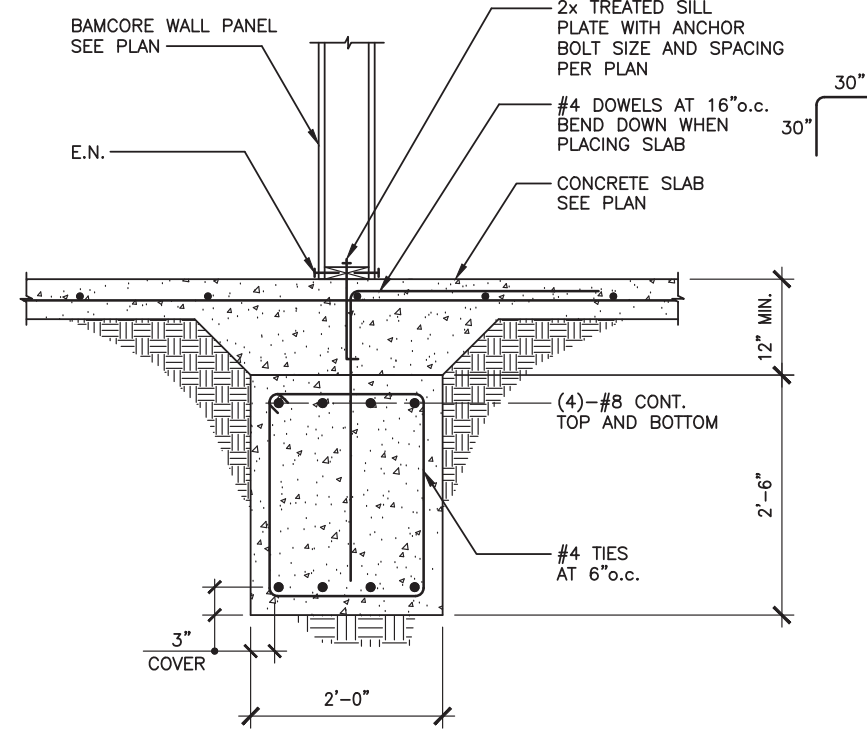
WOOD POST TO FOOTING

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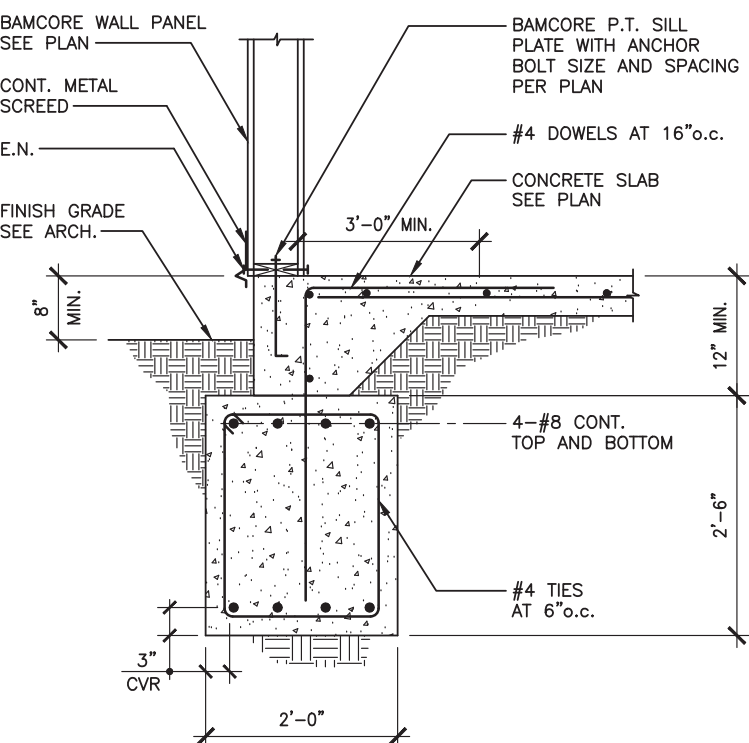
SLAB AT ENTRY

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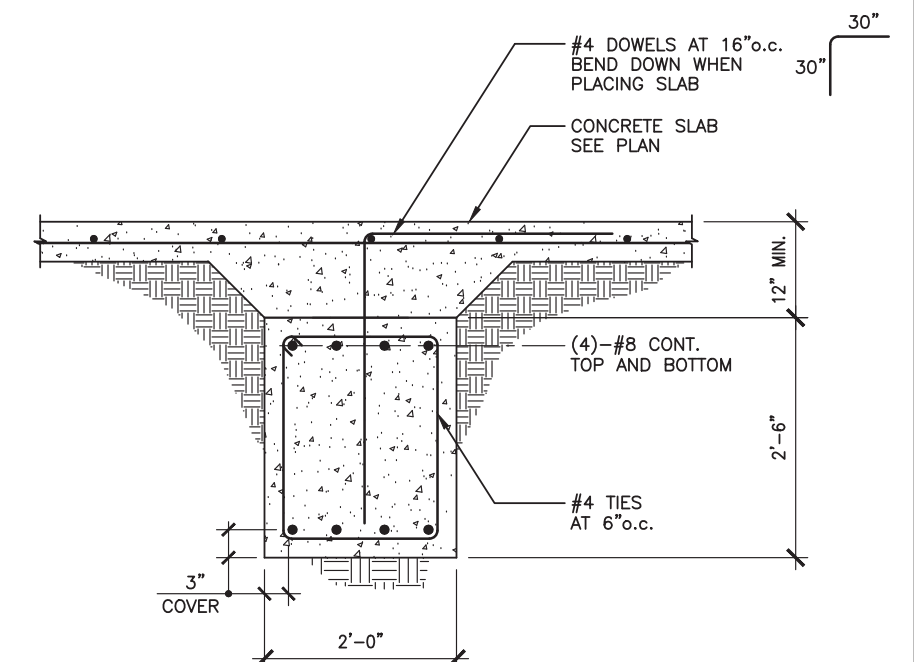
TYP. INTERIOR GRADE BEAM

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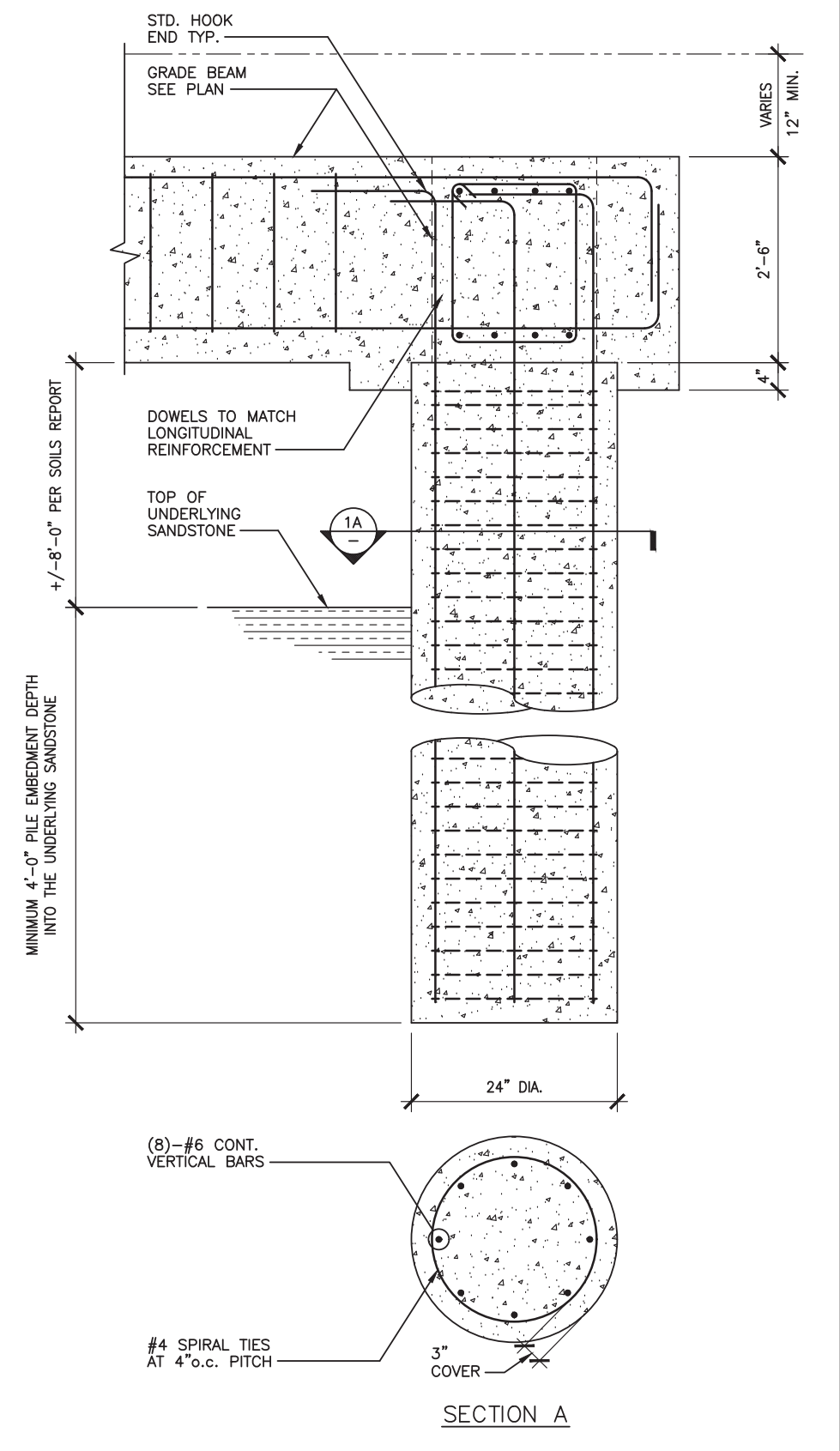
WALL TO GRADE BEAM

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TYP. INTERIOR GRADE BEAM

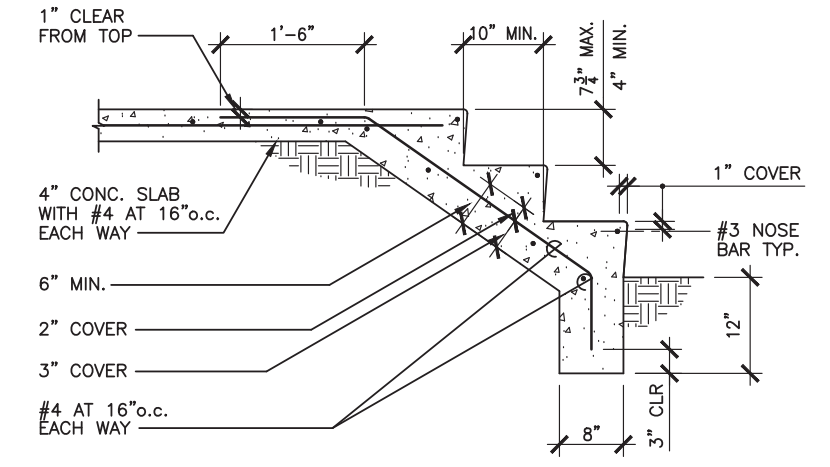
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TYPICAL DRILLED PILE

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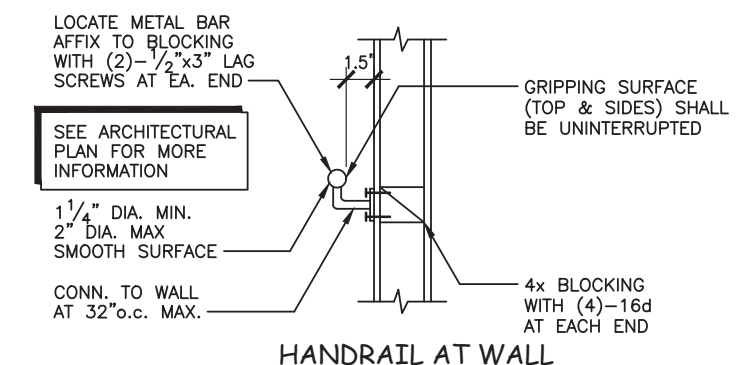
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319 E. FOOTHILL BLVD., SUITE C ARCADIA, CALIFORNIA 91006 PHONE: (626) 731-1539	
07.05.2022	
LARSON RESIDENCE	
10818 CROTHERS ROAD SAN JOSE, CALIFORNIA 95127	
FOUNDATION DETAILS	
S3.0	



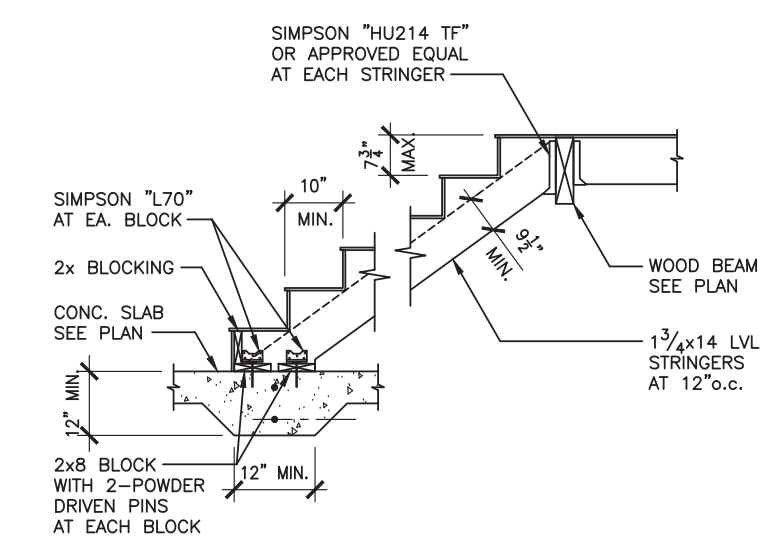
TYP. STAIR ON GRADE

3/4"-T

3



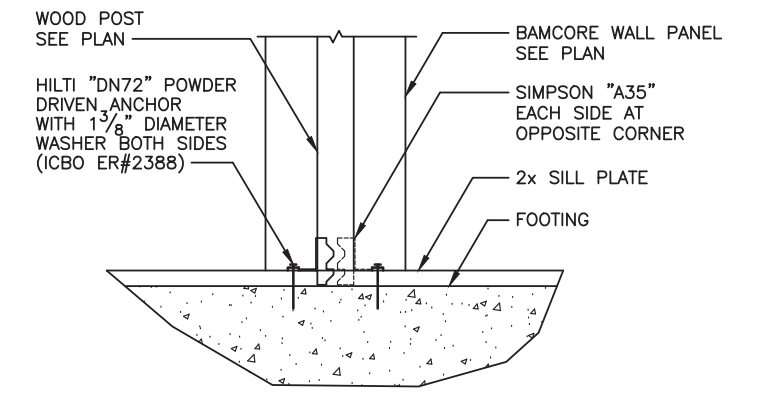
HANDRAIL AT WALL



TYP. WOOD STAIR DETAIL

3/8"-T

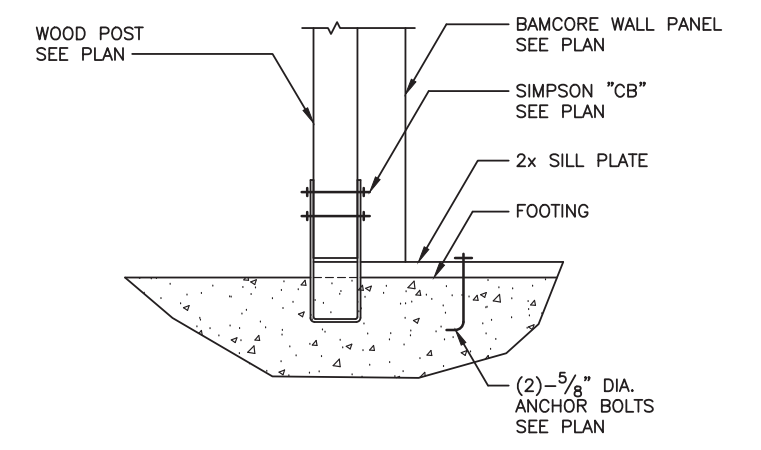
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POST TO SILL PLATE

3/4"-T

2

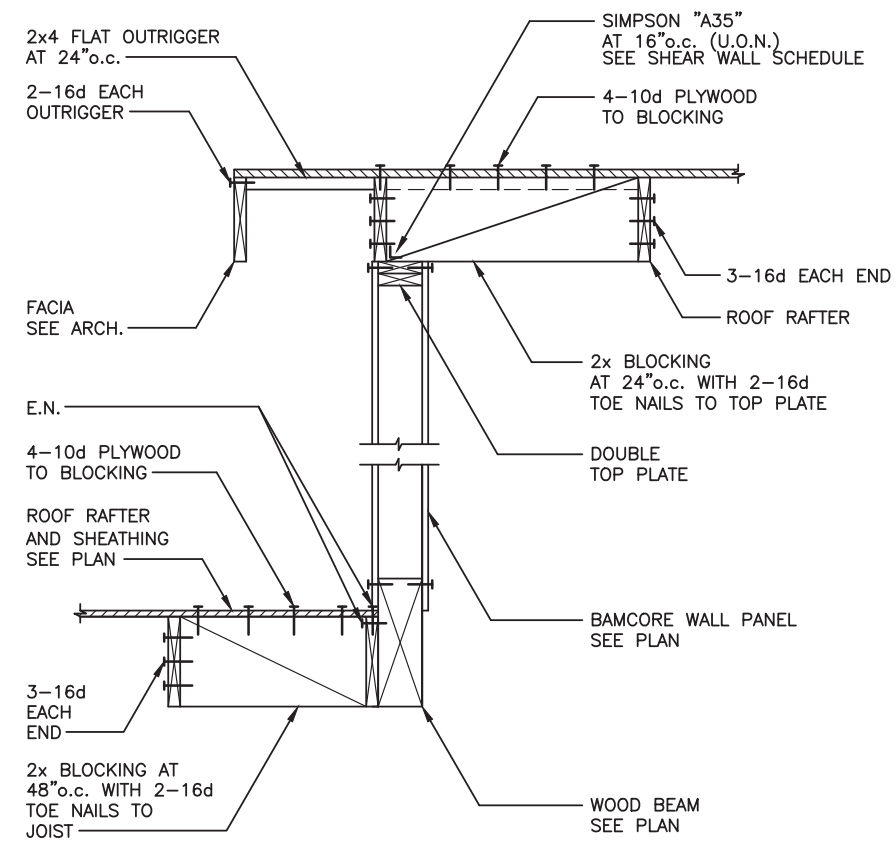


POST TO STEM WALL

3/4"-T

1

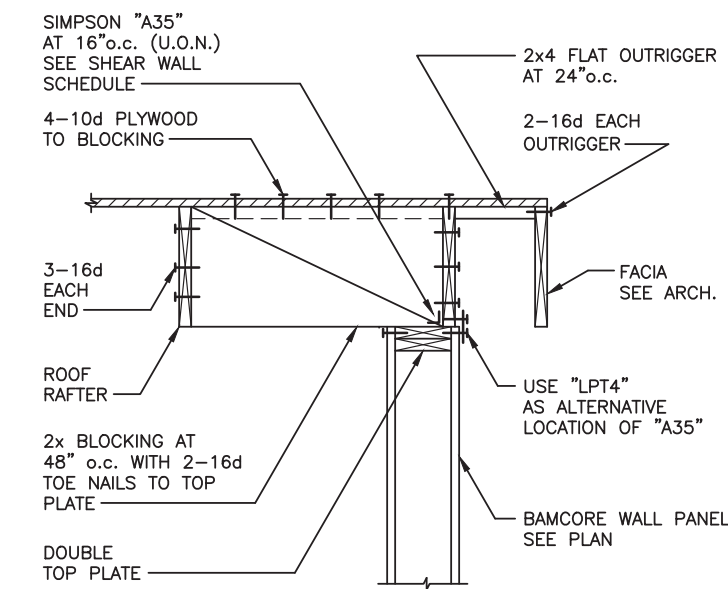
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REGISTERED PROFESSIONAL ENGINEER THANG H. LE S 4978 EXP 06/30/24 STRUCTURAL STATE OF CALIFORNIA 07.05.2022	
LARSON RESIDENCE 10818 CROTHERS ROAD SAN JOSE, CALIFORNIA 95127	
FOUNDATION DETAILS	
S4.0	



INTERIOR ROOF GABLE

3/4"-1

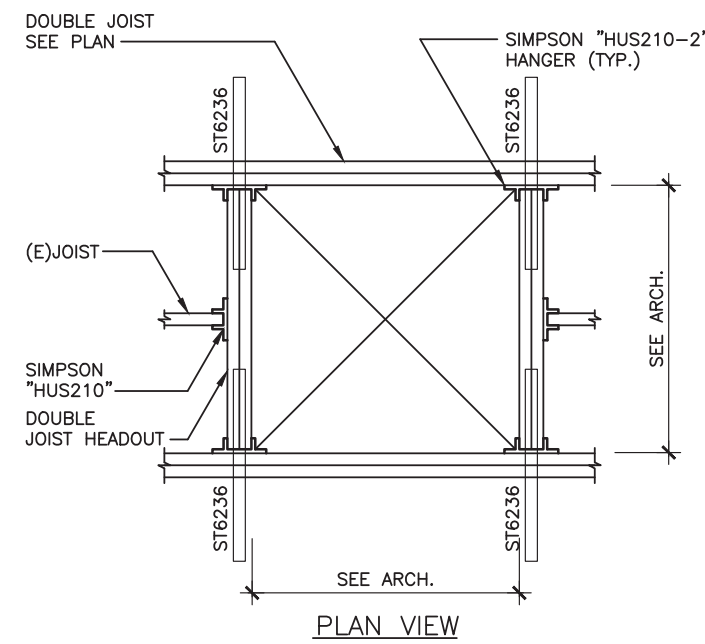
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ROOF JOIST // TO WALL

3/4"-1

9

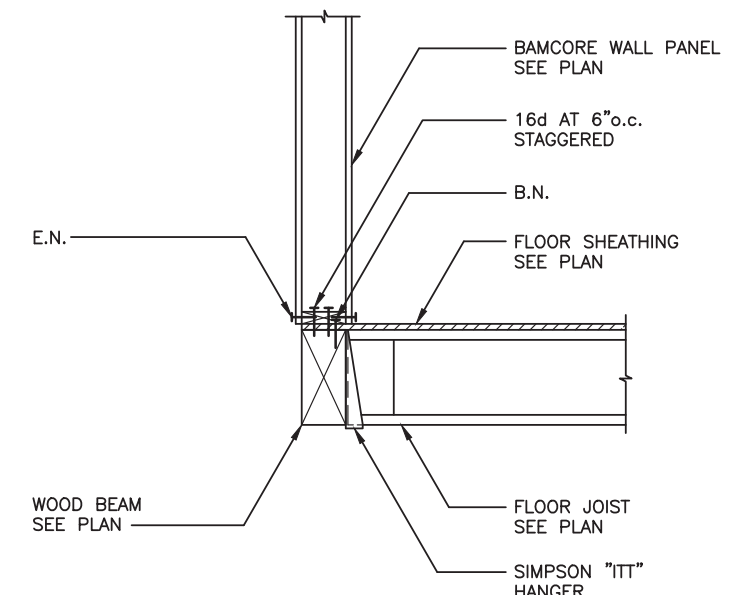


NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATIONS OF OPENINGS

ROOF OPENING & SKYLIGHT

3/4"-1

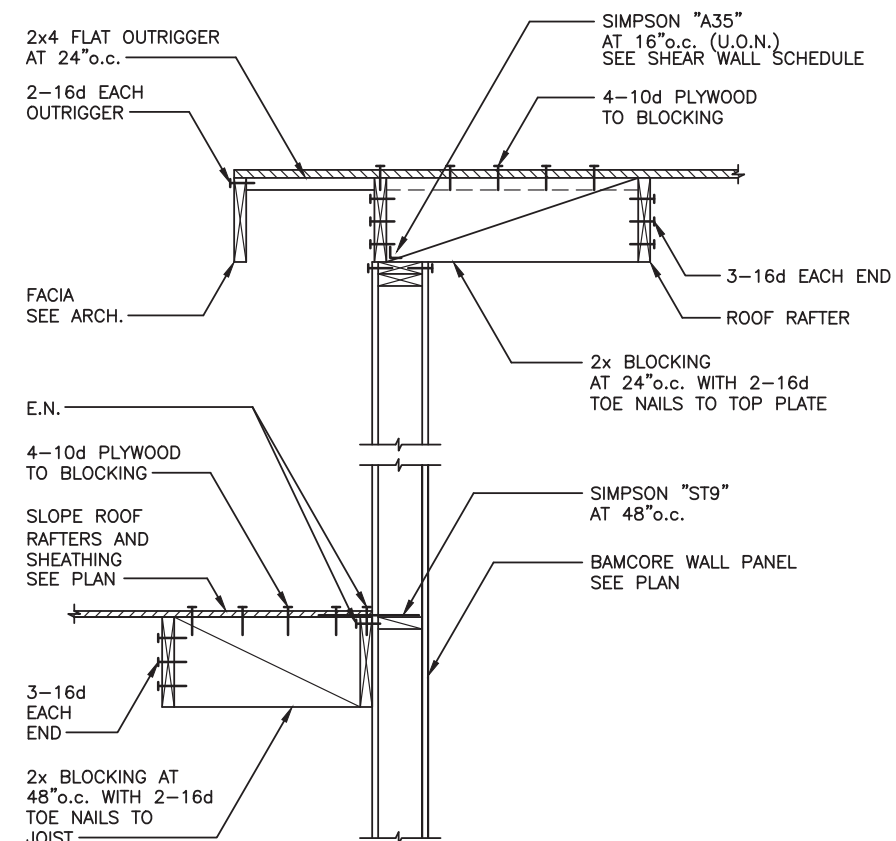
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WALL TO BEAM CONN.

3/4"-1

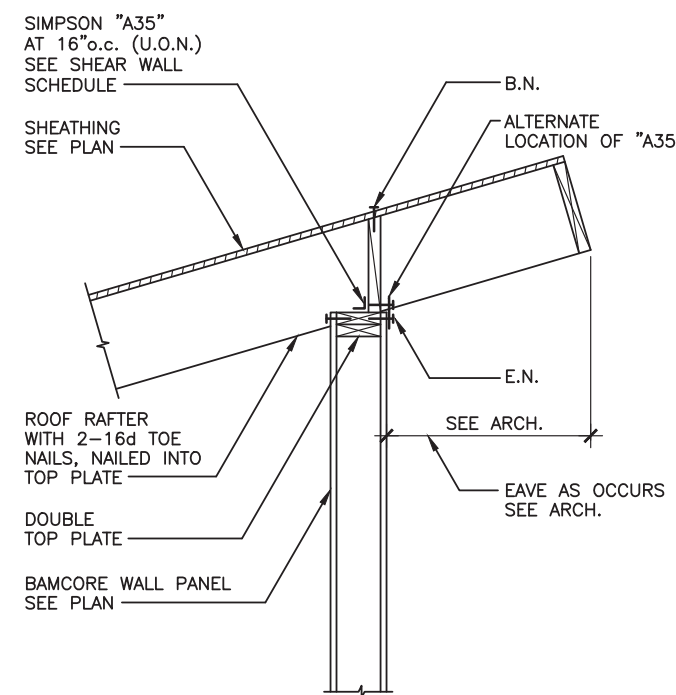
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INTERIOR ROOF GABLE

3/4"-1

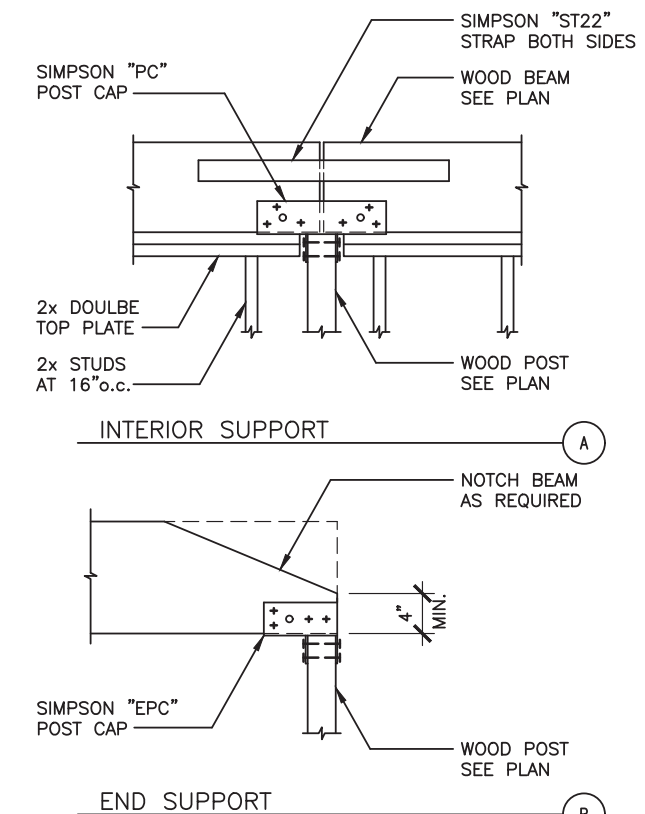
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TYPICAL RAFTER AT WALL

3/4"-1

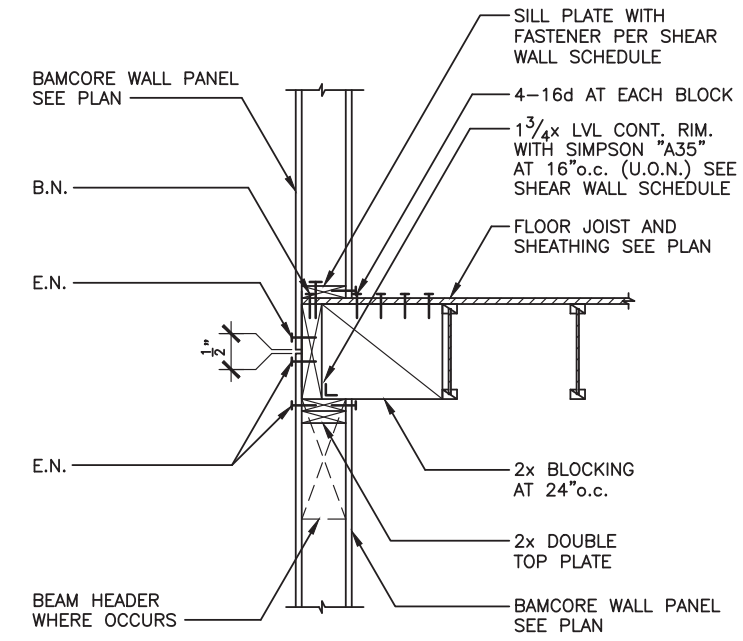
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BEAM TO POST

3/4"-1

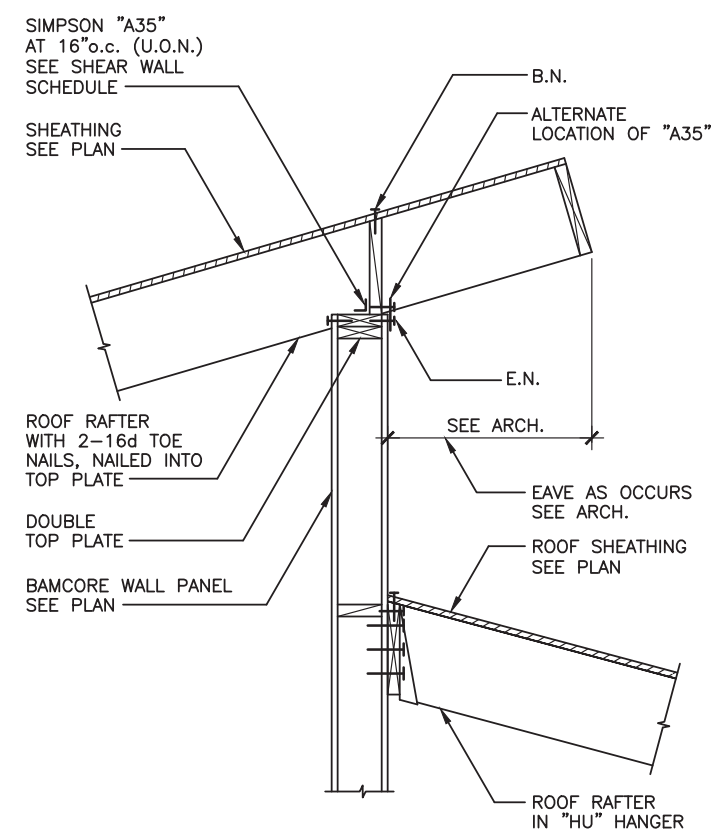
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TJI JOIST // TO WALL

3/4"-1

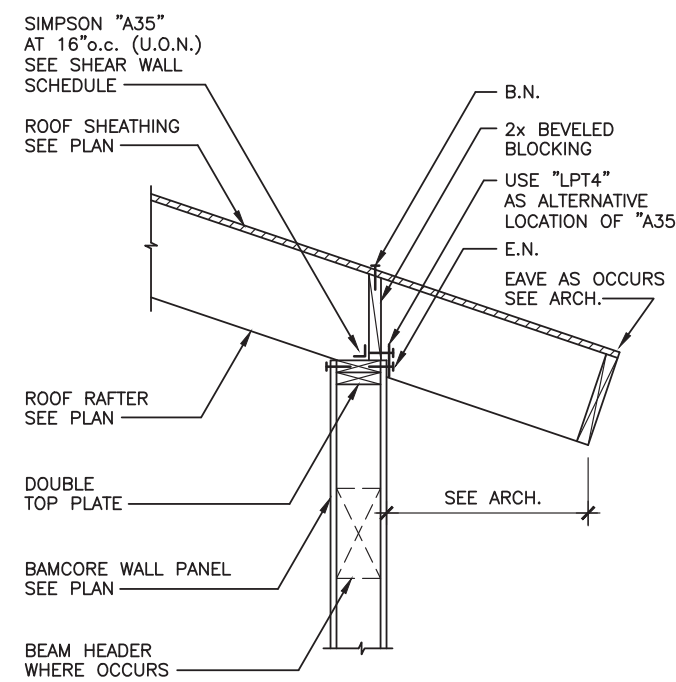
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TYPICAL RAFTER AT WALL

3/4"-1

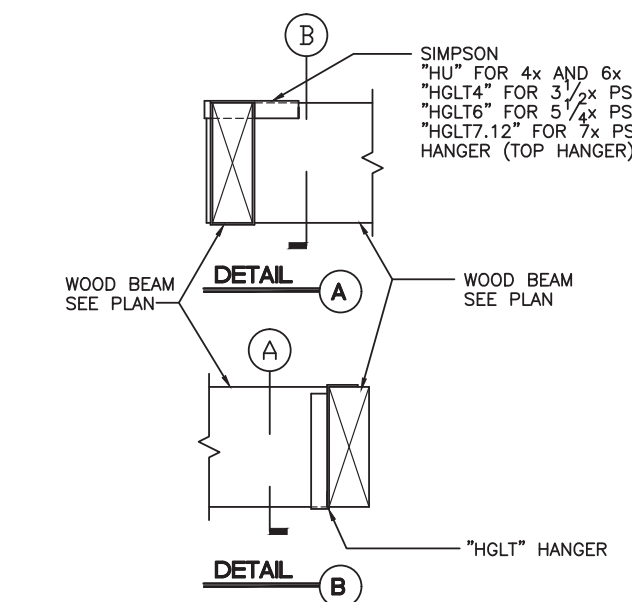
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TYPICAL RAFTER AT WALL

3/4"-1

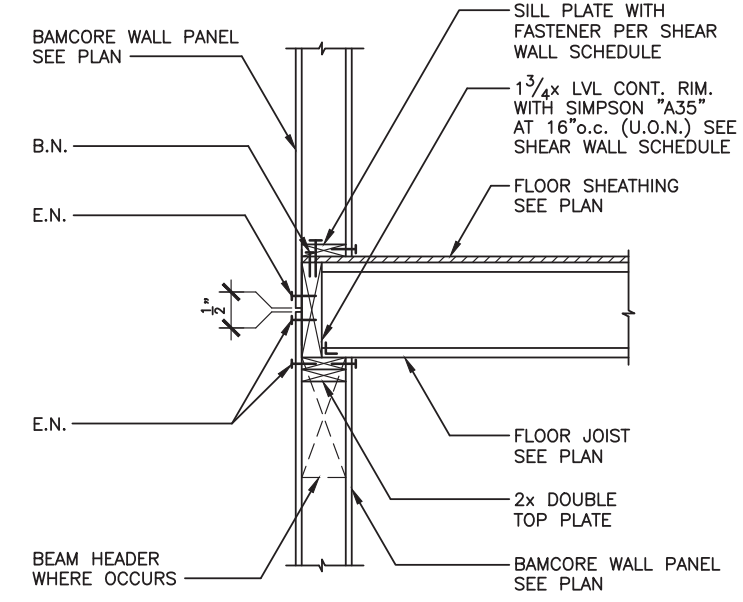
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BEAM TO BEAM CONN.

3/4"-1

4



JOIST I TO WALL

3/4"-1

1

REVISION	DESCRIPTION
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2	07-05-2022
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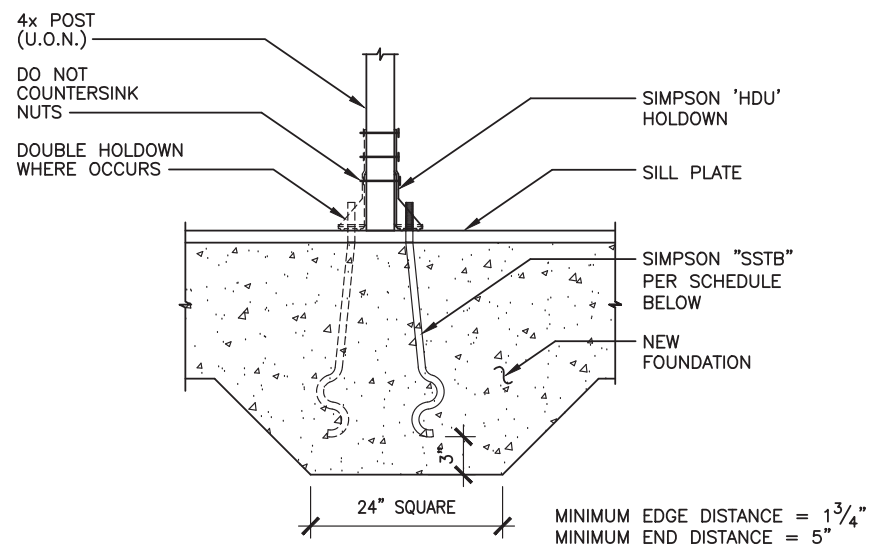
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SAN JOSE, CALIFORNIA 95127

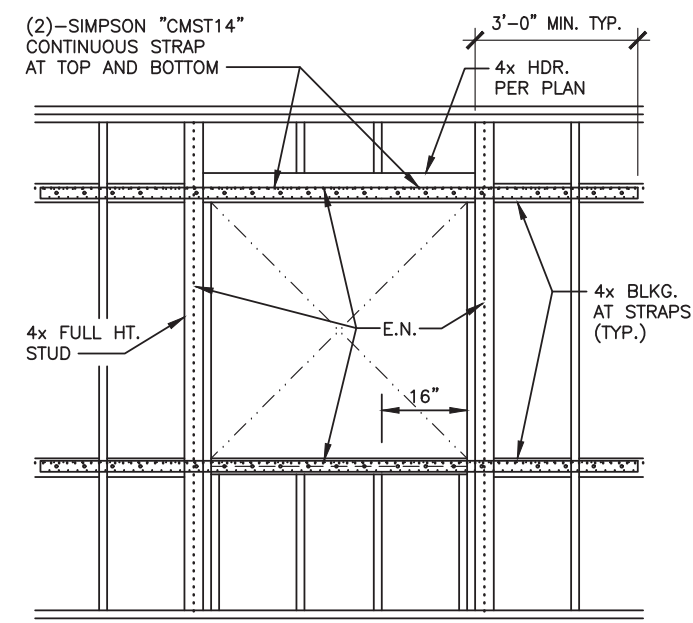
FRAMING DETAILS

S5.0

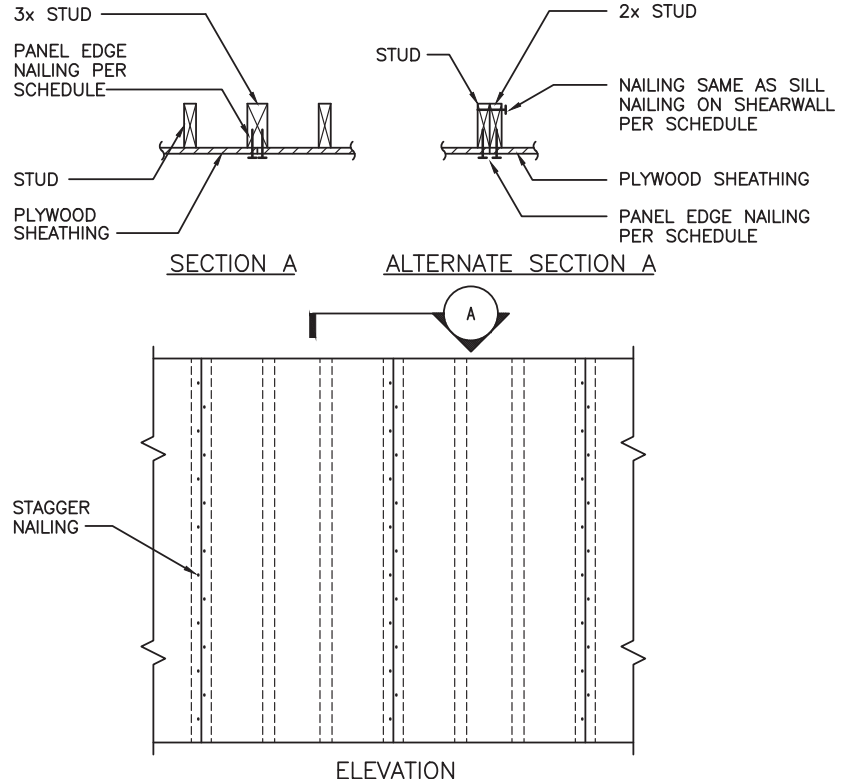


MARK	HOLDOWN	POST FASTENERS	POST SIZE	ALLOWABLE TENSION	75% OF THE ALLOWABLE	SIMPSON 'SSTB' ANCHOR BOLTS	ALLOWABLE TENSION
1	HDU2	6-SDS 1/4x2 1/2	4x4	3075 LBS	2306 LBS	SSTB16	3780 LBS
2	HDU4	10-SDS 1/4x2 1/2	4x4	4565 LBS	3423 LBS	SSTB20	4785 LBS
3	HDU5	14-SDS 1/4x2 1/2	4x6	5645 LBS	4233 LBS	SSTB24	5790 LBS
4	HDU8	20-SDS 1/4x2 1/2	4x6	6970 LBS	5227 LBS	SSTB28	11060 LBS
5	HDU11	30-SDS 1/4x2 1/2	4x8	11175 LBS	8381 LBS	SB1x30	16300 LBS
6	HDU14	36-SDS 1/4x2 1/2	4x10	14375 LBS	10781 LBS	SB1x30	16300 LBS

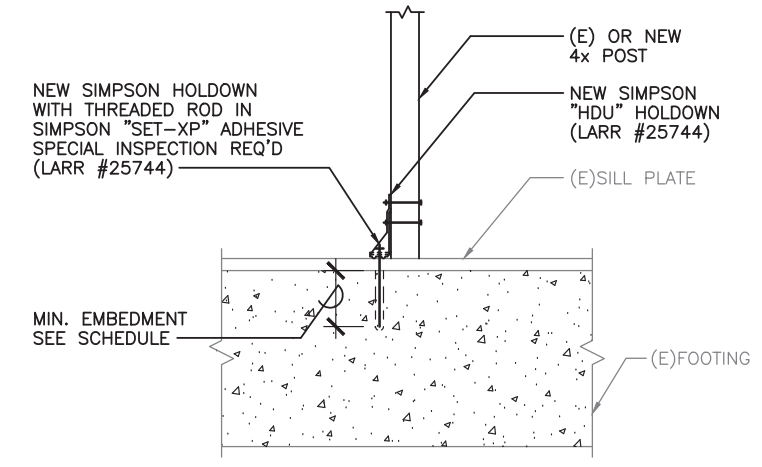
HOLDOWN TO FOOTING 9



PERFORATED SHEARWALL 11

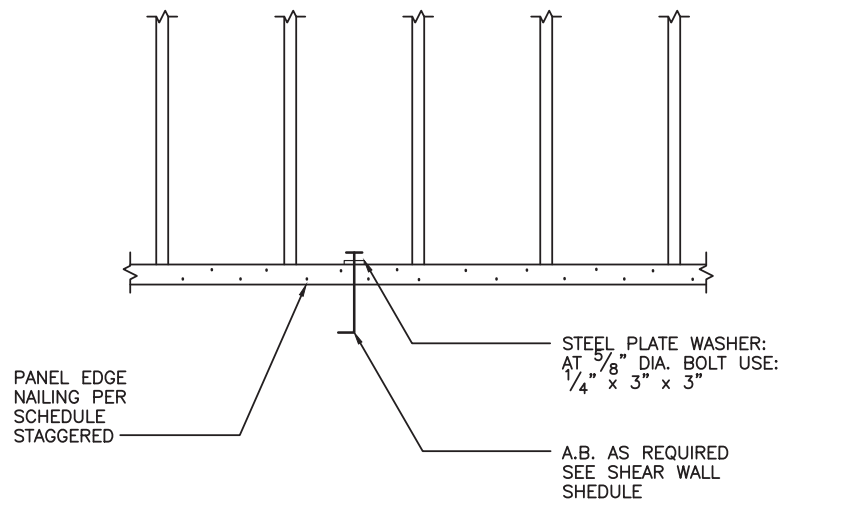


PANEL EDGE ELEVATION 8

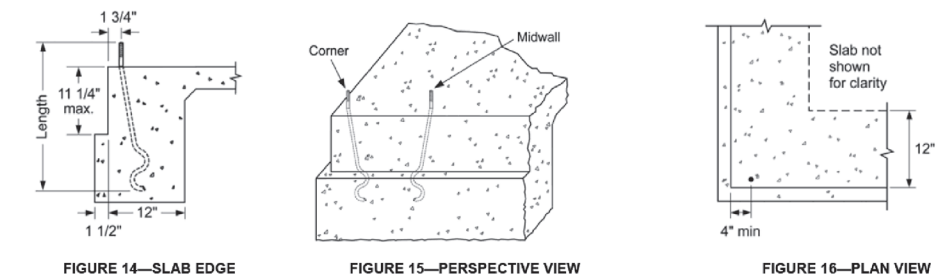


SIMPSON HOLDOWN	THREADED ROD DIAMETER (INCHES)	MINIMUM EMBEDMENT (INCHES)	TENSION CAPACITY (POUNDS)
HDU2	5/8"	10"	2306
HDU5	3/4"	12"	4233
HDU8	7/8"	15"	5227
HDU11	1"	18"	8381
HDU14	1"	20"	10792

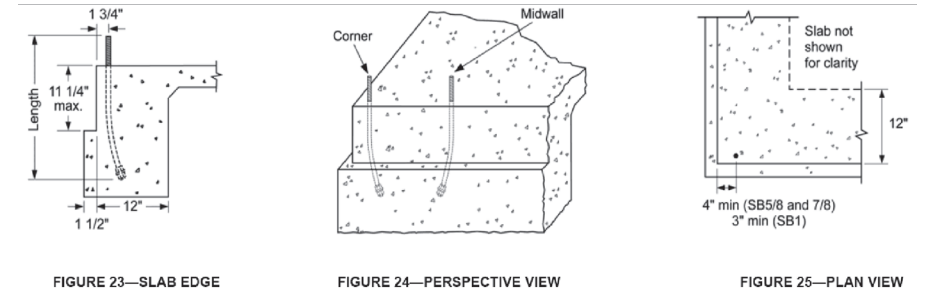
HOLDOWN TO (E) FOOTING 10



SILL PLATE DETAIL 7



SSB ANCHOR BOLTS

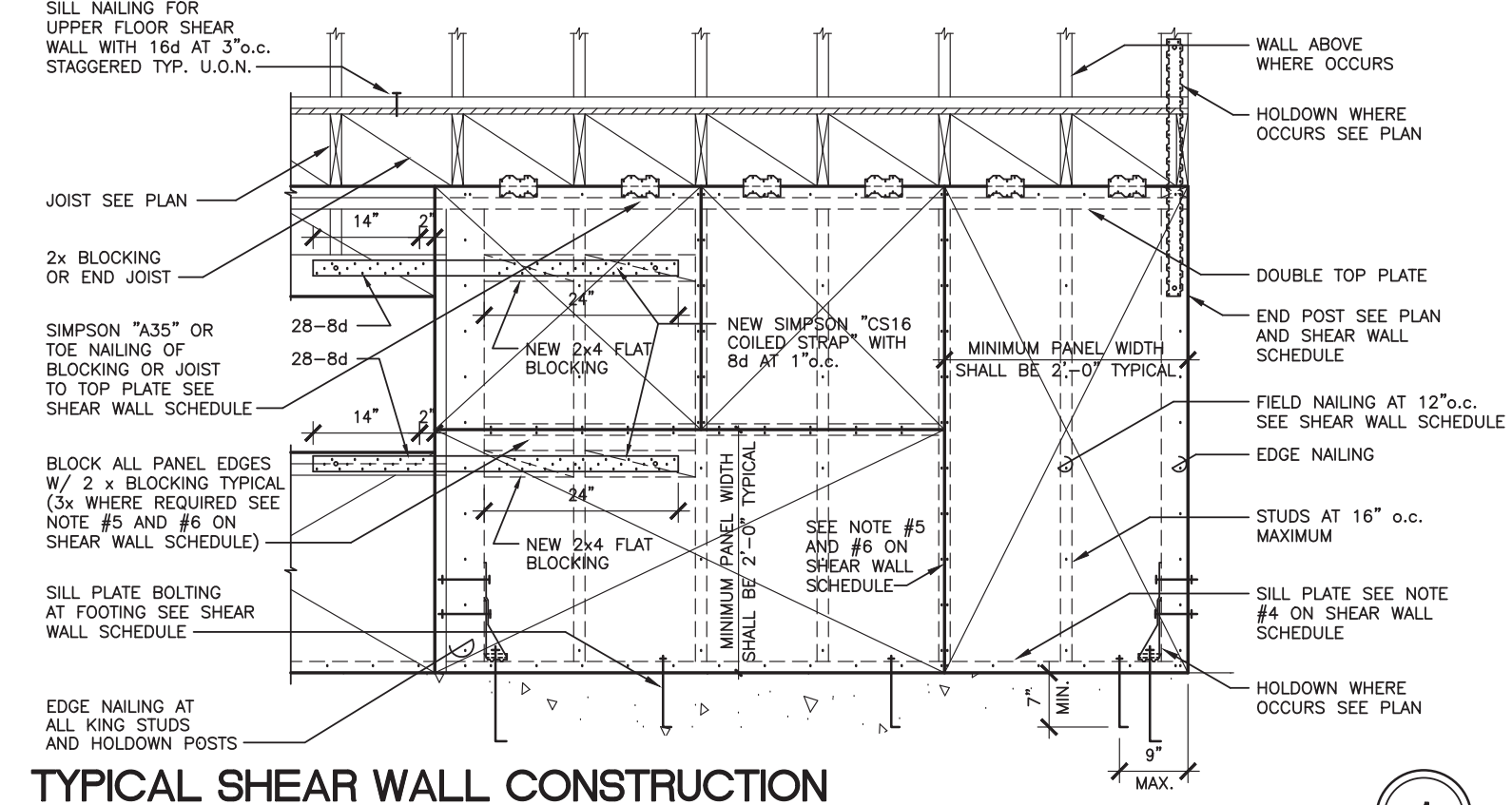


SB ANCHOR BOLTS

MARK	MATERIAL	NAILING (EDGE:FIELD)	UPPER FLOOR SILL PLATE NAILING	BLOCKING TO DOUBLE PLATE	ANCHOR BOLT SPACING	REMARKS
A	15/32" STRUCT-1 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 6:12	16d @ 4"o.c.	SIMPSON A35 @ 16"o.c. ALT. SIMPSON LTP4 @ 16"o.c.	5/8" @ 32"o.c.	CAPACITY:340 PLF
B	15/32" STRUCT-1 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 4:12	SDS 1/4" x 6" SCREWS @ 8"o.c.	SIMPSON A35 @ 9"o.c. ALT. SIMPSON LTP4 @ 9"o.c.	5/8" @ 16"o.c.	CAPACITY:510 PLF
C	15/32" STRUCT-1 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 3:12	SDS 1/4" x 6" SCREWS @ 6"o.c.	SIMPSON A35 @ 6"o.c. ALT. SIMPSON LTP4 @ 6"o.c.	5/8" @ 16"o.c.	CAPACITY:665 PLF PRE-DRILL FOR LAG SCREW
D	15/32" STRUCT-1 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 2:12	SDS 1/4" x 6" SCREWS @ 6"o.c.	SIMPSON A35 @ 12"o.c. EA. SIDE ALT. SIMPSON LTP4 @ 12"o.c. EA. SIDE	5/8" @ 16"o.c.	CAPACITY:870 PLF PRE-DRILL FOR LAG SCREW
BB	15/32" STRUCT-1 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 4:12	SDS 1/4" x 6" SCREWS @ 8"o.c.	SIMPSON A35 @ 9"o.c. EA. SIDE ALT. SIMPSON LTP4 @ 9"o.c. EA. SIDE	5/8" @ 16"o.c.	CAPACITY:1020 PLF PRE-DRILL FOR LAG SCREW
CB	15/32" STRUCT-1 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 3:12	SDS 1/4" x 6" SCREWS @ 4"o.c.	SIMPSON A35 @ 6"o.c. EA. SIDE ALT. SIMPSON LTP4 @ 6"o.c. EA. SIDE	3/4" @ 16"o.c.	CAPACITY:1330 PLF PRE-DRILL FOR LAG SCREW
DB	15/32" STRUCT-1 4-PLY OR 5-PLY PLYWOOD 32/16	10d @ 2:12	SDS 1/4" x 6" SCREWS @ 3"o.c.	SIMPSON A35 @ 5"o.c. EA. SIDE ALT. SIMPSON LTP4 @ 5"o.c. EA. SIDE	3/4" @ 12"o.c.	CAPACITY:1740 PLF PRE-DRILL FOR LAG SCREW

- * INDICATES WITH 4 1/4" EMBEDMENT INTO MINIMUM 2 1/2x TIMBER STRAND BLOCKING OR RIM JOIST. MINIMUM EDGE DISTANCE SHALL BE 3/4". USE FULL BODY DIAMETER LAG SCREWS ONLY.
- NOTES:**
- FRAMING AT ADJOINING PANEL EDGES SHALL BE NOMINAL 3" OR WIDER. NAILS SHALL BE STAGGERED IN TWO ROWS ALONG PANEL EDGES.
 - ALL NAILS SHALL BE COMMON NAILS. PROVIDE HOT DIPPED GALVANIZED NAILS AT ALL FIRE TREATED OR PRESSURE TREATED PLYWOOD AND STUDS.
 - WHERE PLYWOOD IS APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6"o.c. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL OR THICKER AND NAILS ON EACH SIDE BE STAGGERED. 3x FRAMING SHALL BE USED AT BOTTOM SILL PLATE AND ALL BLOCKING.
 - NAILS SHALL BE PLACED AT LEAST 1/2" FROM PANEL EDGES AND AT LEAST 3/8" FROM THE EDGE OF THE CONNECTING MEMBERS.
 - SIMPSON 'LTP4' FRAMING ANCHOR (LARR #25293) MAY BE APPLIED OVER 1/2" SHEATHING WITH 8d COMMON NAILS IN LIEU OF 8dx1 1/2" NAILS.
 - CB INDICATES SHEATHING OCCURS ON BOTH SIDES OF WALL.
 - SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN SUCH THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING. OVER-DRIVEN NAILS WILL BE DEEMED UNSATISFACTORY.
 - PROVIDE A SINGLE 3x NOMINAL OR WIDER FRAMING MEMBER AT BOTTOM SILL PLATE AND BEHIND VERTICAL AND HORIZONTAL EDGES, MINIMUM 1/2" EDGE NAILING DISTANCE AT PANEL ENDS AND EDGES, AND STRUCTURAL OBSERVATION PER GENERAL NOTES.
 - SPECIAL INSPECTION IS REQUIRED FOR SHEAR WALL TYPES B, C, D, E, BB, CB, DB.
 - THE FOLLOWING APPLIES TO ALL SHEAR WALLS WITH A SHEAR VALUES USING ALLOWABLE STRESS DESIGN (ASD) EXCEED 350 PLF. THESE WALLS SHALL PROVIDE WITH THE FOLLOWINGS:
 - 3x STUDS AND BLOCKINGS FOR ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS.
 - 1/2" EDGE DISTANCE FROM THE PANEL EDGES AND 3/8" FROM THE EDGE OF THE CONNECTING MEMBERS.
 - ALL WOOD STRUCTURAL PANEL JOINT AND SILL PLATE NAILING SHALL BE STAGGERED AT ALL PANEL EDGES.

SHEAR WALL SCHEDULE 2



TYPICAL SHEAR WALL CONSTRUCTION 1

REVISION DESCRIPTION
BUILDING DEPARTMENT SUBMITTAL

DATE 07-05-2022

DATE ISSUED 07-05-2022

DRAWN BY ML

CHECKED BY TL

THANG LE & ASSOCIATES, INC.
STRUCTURAL ENGINEERS, INC.
319 E. FOOTHILL BLVD., SUITE C
ARCADIA, CALIFORNIA 91006
PHONE: (626) 731-1539

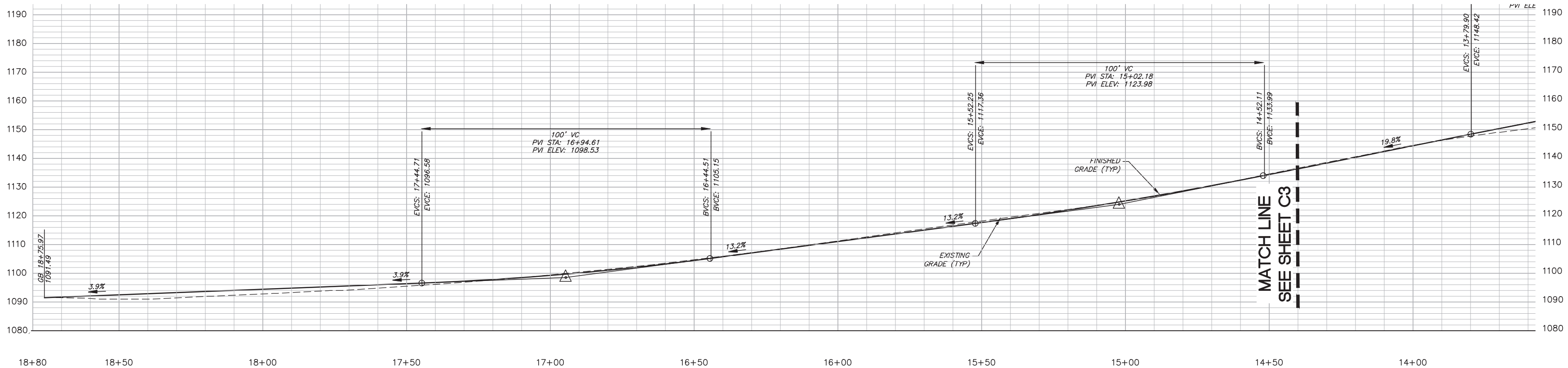
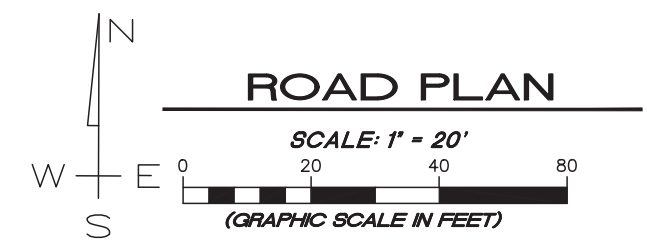
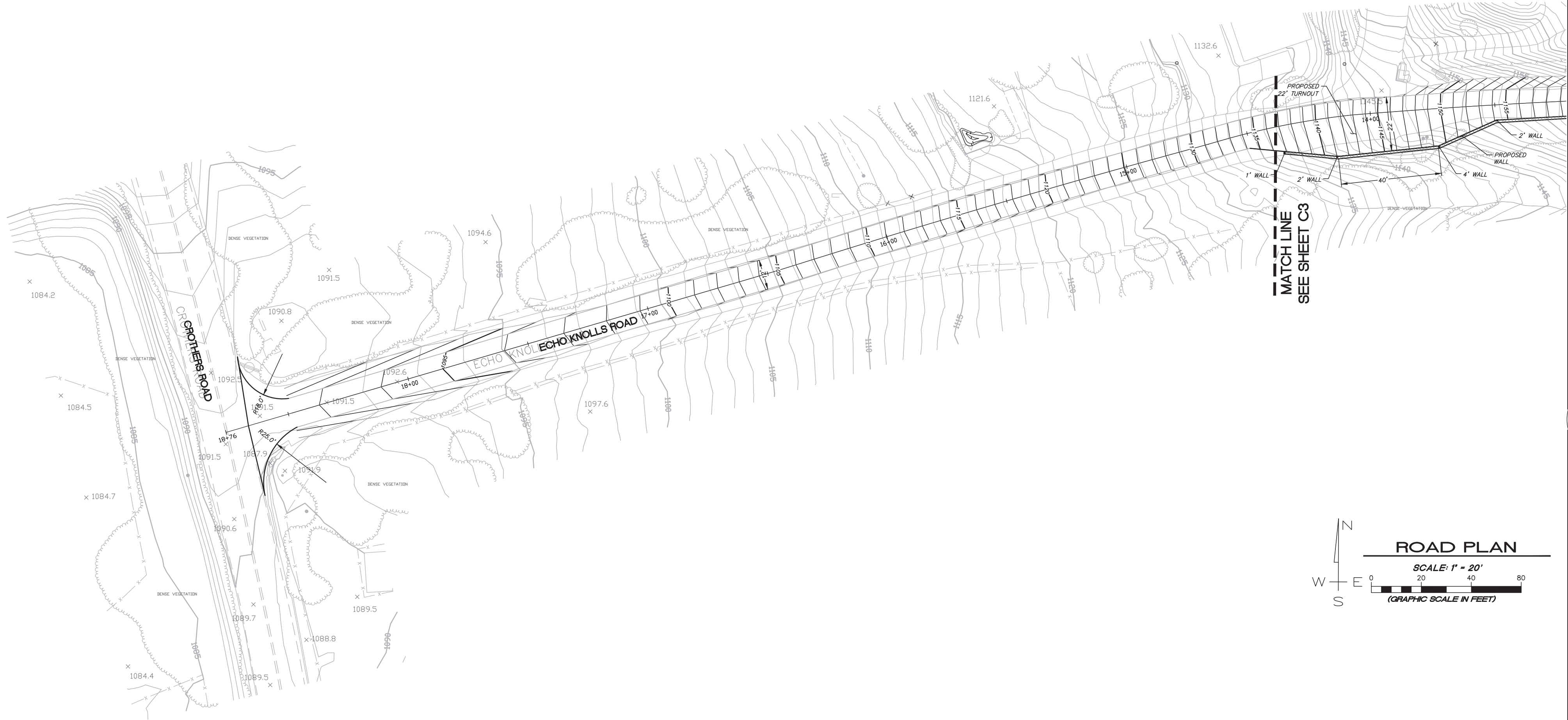
REGISTERED PROFESSIONAL ENGINEER
THANG H. LE
S 4978
EXP 06/30/24
CALIFORNIA
07.05.2022

LARSON RESIDENCE
10818 CROTHERS ROAD
SAN JOSE, CALIFORNIA 95127

SHEATHED SHEAR WALL DETAILS

S6.0

D:\MANSELL\CHL_DROPBOX\LAND\LANDSCAPE\COMPANY-DATA\DWG\10818 CROTHERS ROAD (DVC)\DWG\06-21_10818 CROTHERS ROAD (DVC)\DWG\108-21_10818 CROTHERS ROAD (DVC)\DWG\12/29/2021 9:22 AM.dwg



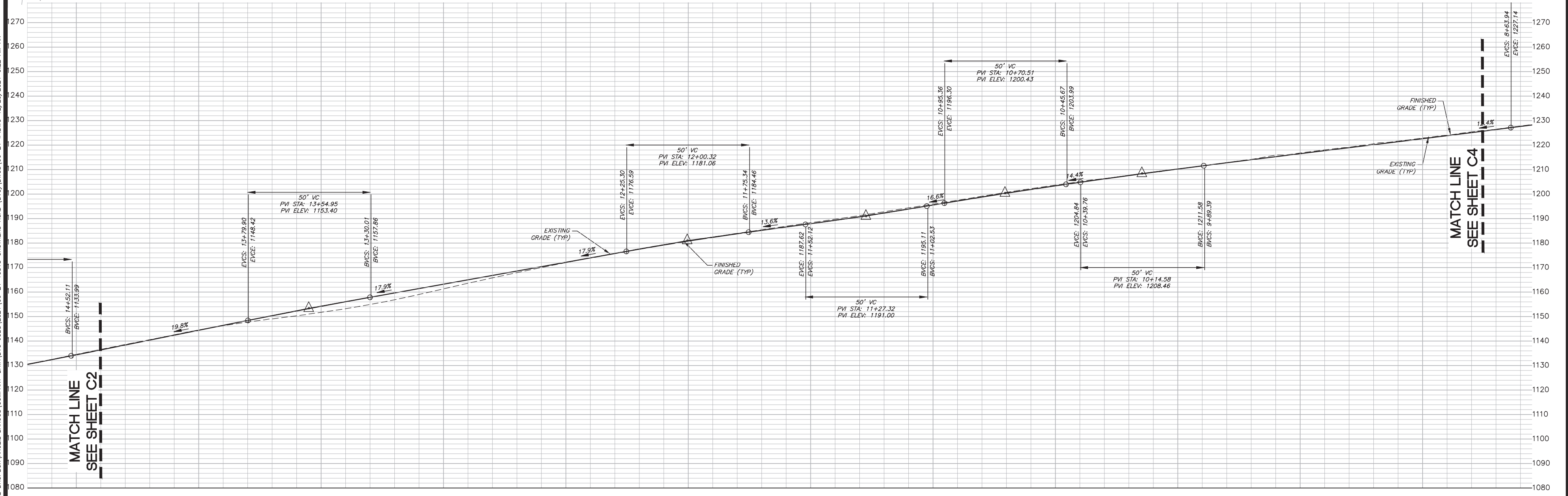
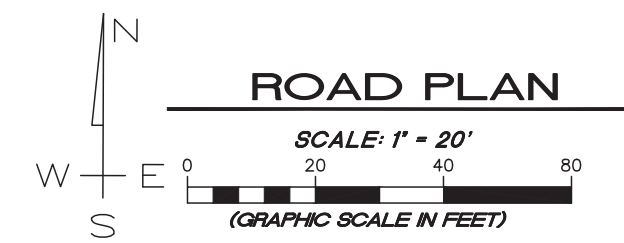
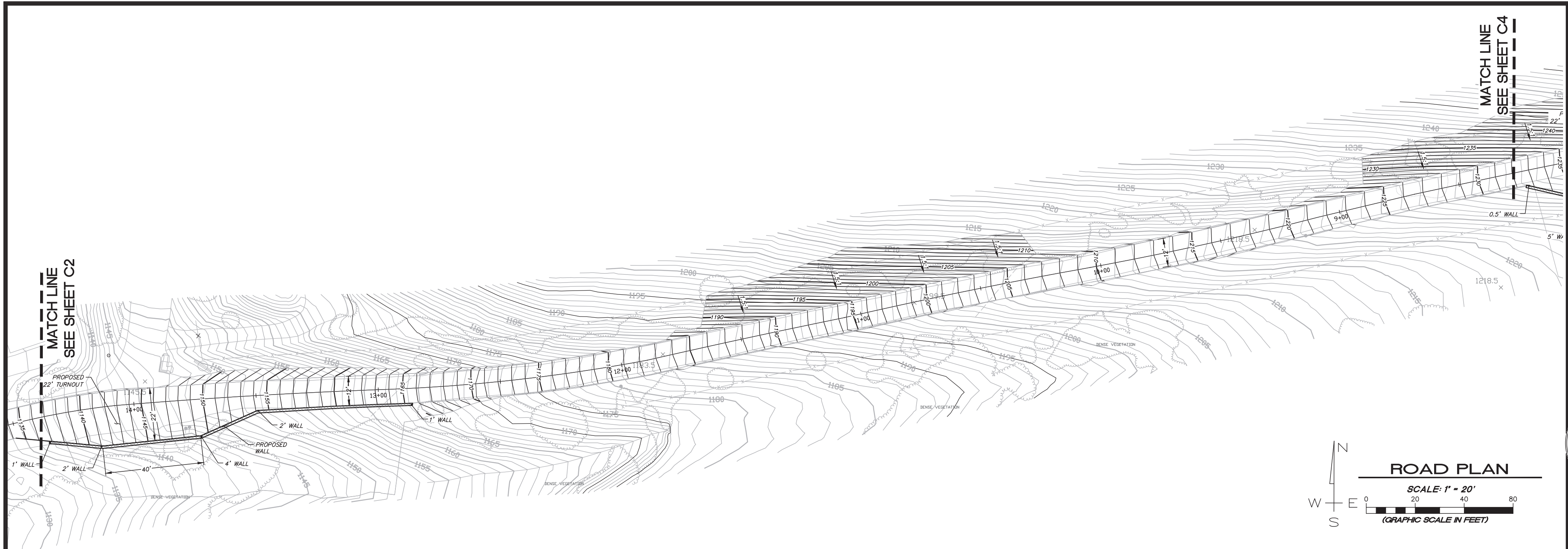
REVISION	DESCRIPTION	BY	DATE

DVC GROUP INC.
 PLANNING • ENGINEERING • CM
 513 CENTER STREET
 HEALDSBURG, CA 95448
 (707) 395-0968

REGISTERED PROFESSIONAL ENGINEER • CIVIL
 DANIEL JOHN HUGHES
 No. 60225
 Exp. 06-30-22
 CIVIL

10818 CROTHERS ROAD ROAD PLAN
 612-44-003
 10818 CROTHERS ROAD
 SAN JOSE CA

DECEMBER 23, 2021
 JOB NO. 06-21
 SHEET NO. **C2**
 OF 6 SHEETS



ROAD PROFILE
 SCALE: 1" = 20' HORIZONTAL
 1" = 20' VERTICAL

REVISION	BY	DATE

DVC GROUP INC.
 PLANNING • ENGINEERING • C.M.
 513 CENTER STREET
 HEALDSBURG, CA 95448
 (707) 395-0968

REGISTERED PROFESSIONAL ENGINEER • CIVIL
 DANIEL JOHN HUGHES
 No. 60225
 Exp. 03-30-22

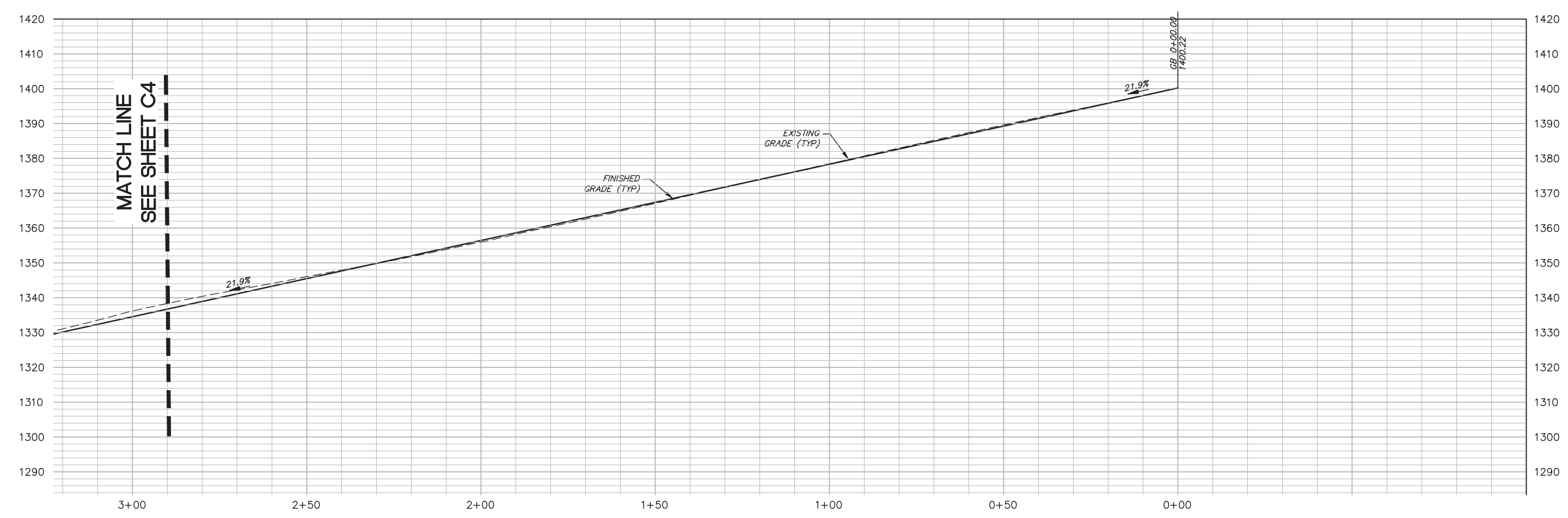
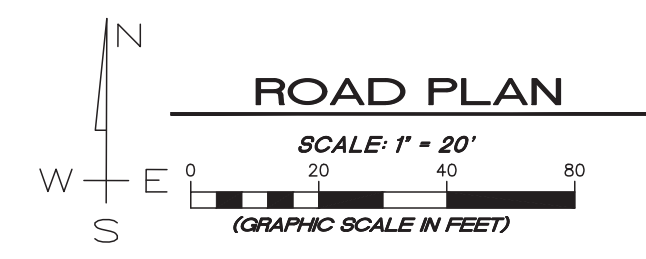
D. Hughes
 DANIEL JOHN HUGHES
 P.E. 60225

10818 CROTHERS ROAD
 ROAD PLAN
 612-44-033
 10818 CROTHERS ROAD
 SAN JOSE CA

DECEMBER 23, 2021
 JOB NO. 06-21
 SHEET NO. **C3**

OF 6 SHEETS

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ROAD PROFILE
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

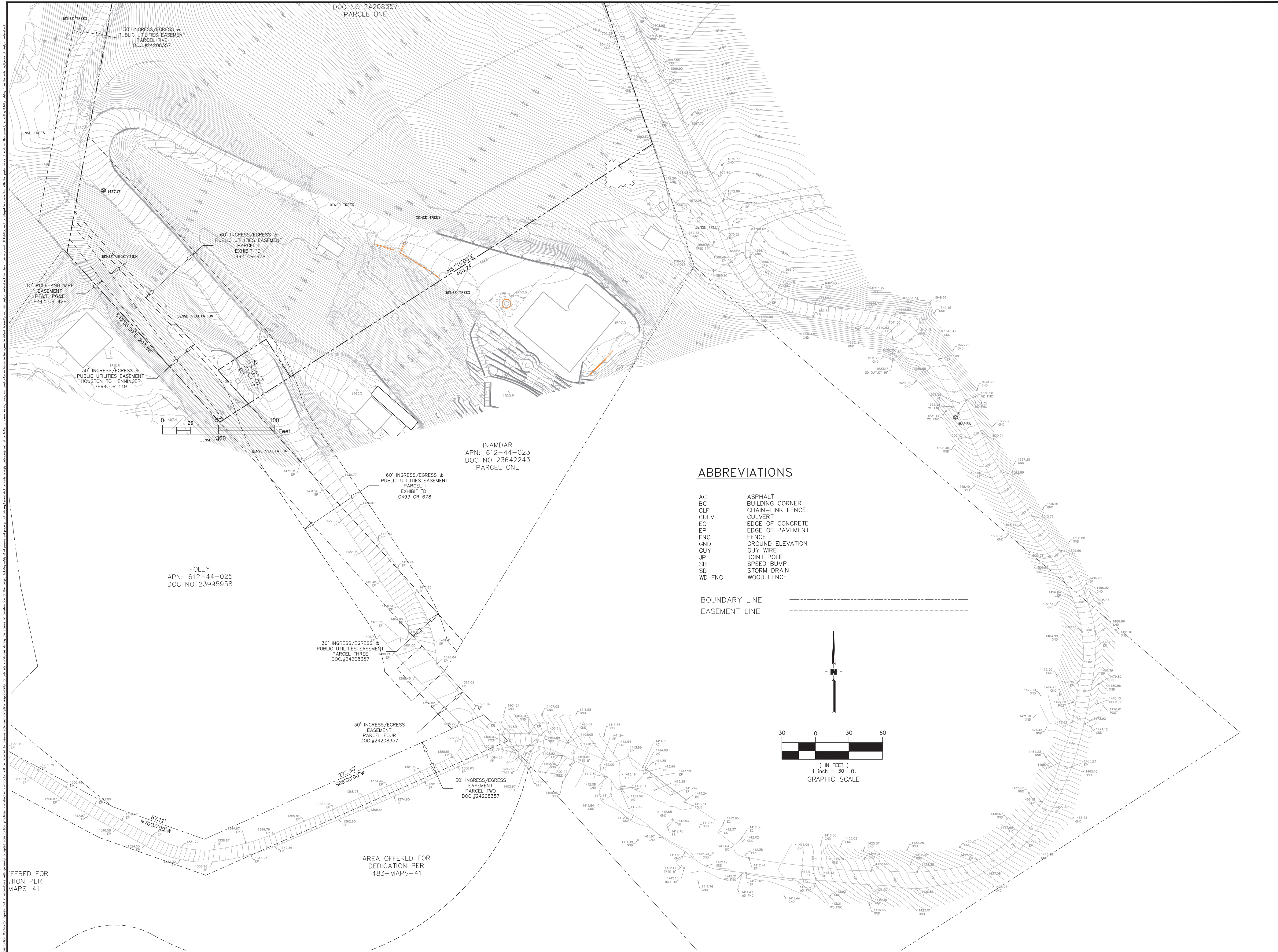
REVISION	DESCRIPTION	BY	DATE

DVC GROUP INC.
PLANNING • ENGINEERING • C.M.
513 CENTER STREET
HEALDSBURG, CA 95448
(707) 395-0968

REGISTERED PROFESSIONAL ENGINEER • YINGLIU CHEN
DANIEL JOHN HUGHES
No. 60225
Exp. 06-30-22
CIVIL
REG. STATE OF CALIF.

10818 CROTHERS ROAD ROAD PLAN
612-44-003
10818 CROTHERS ROAD
SAN JOSE CA

DECEMBER 23, 2021
JOB NO. 06-21
SHEET NO. **C5**
OF 6 SHEETS



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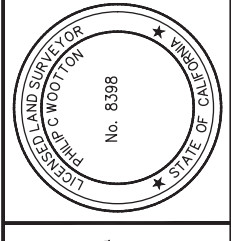
MARK	DATE	DESCRIPTION	BY

TOPOGRAPHIC SURVEY

10818 Crothers Road

San Jose California

DATE: 08/25/2022
SCALE: 1" = 30'
DRAWN BY: KWC
CHECKED BY: PCW
COPRIGHT 2022, CARROLL ENGINEERING
ALL RIGHTS RESERVED



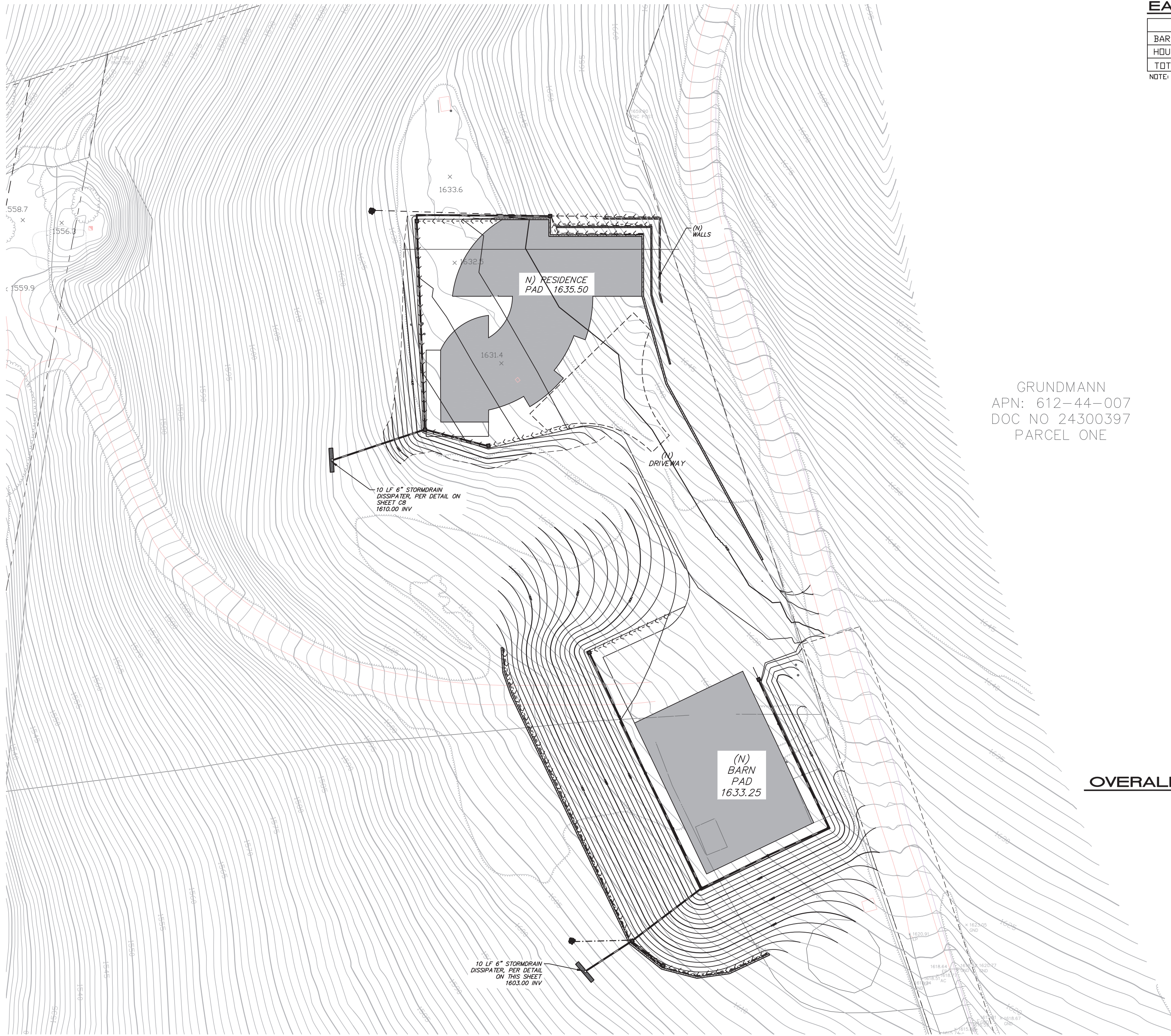
U.S. 10 WINCHESTER BLVD.
SUITE 210
SAN JOSE, CA 95128
TEL: 408-281-0800
FAX: 408-281-0800
E-MAIL: robert@carroll-engineering.com

CARROLL ENGINEERING
engineers and surveyors

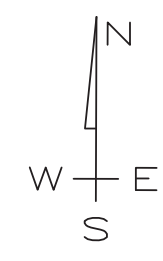
SHEET
T-1
OF 1 SHEETS
JOB NO. 2459

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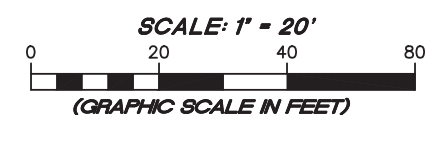
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GRUNDMANN
 APN: 612-44-007
 DOC NO 24300397
 PARCEL ONE



OVERALL ROUGH GRADING PLAN



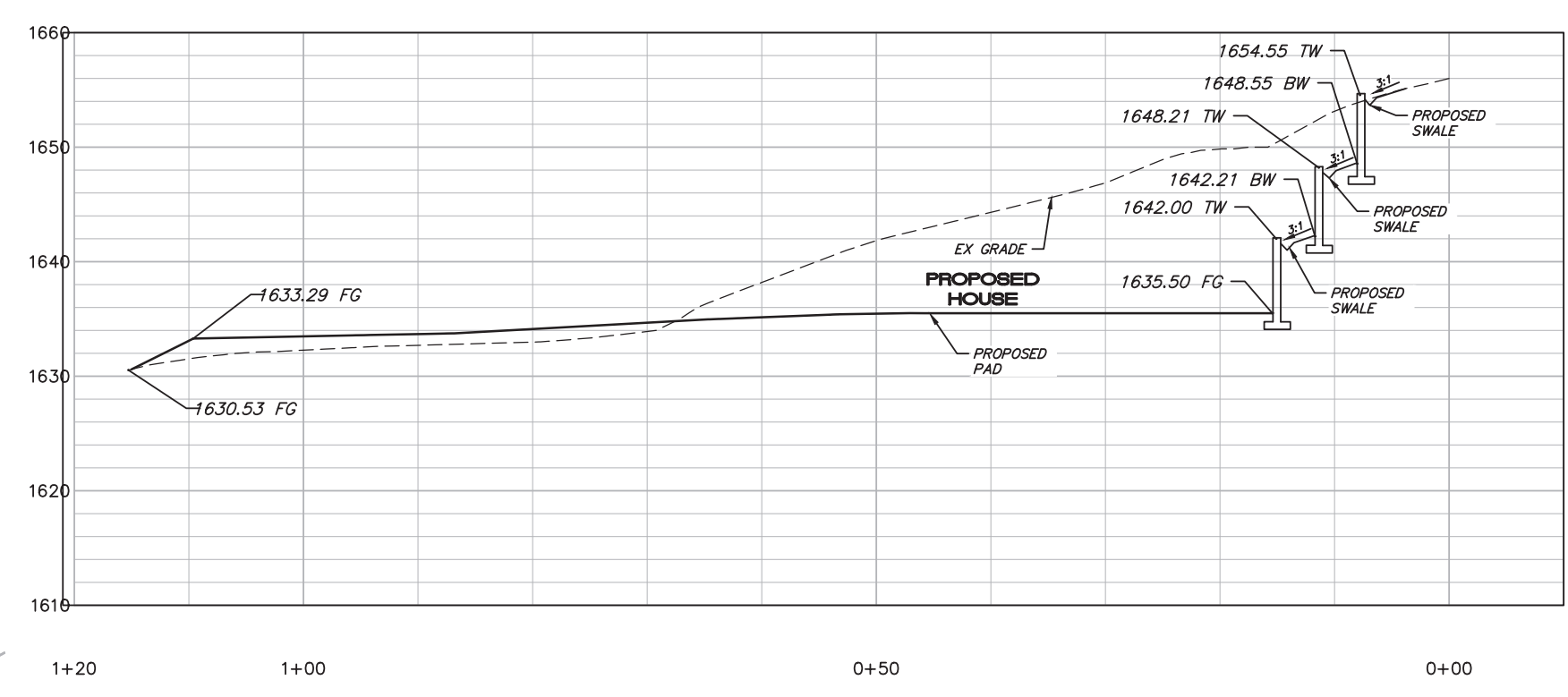
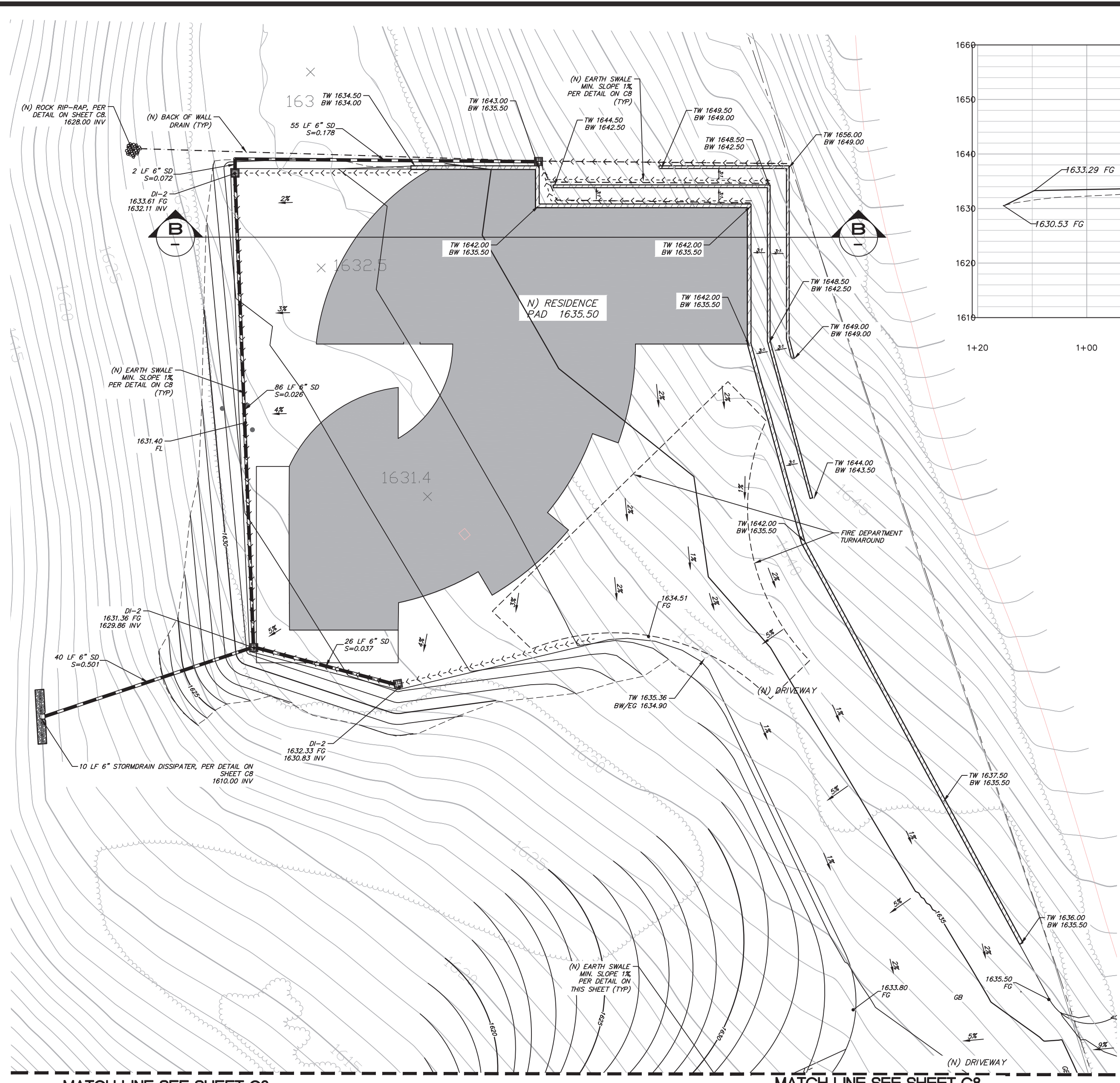
EARTHWORK:

	CUT	FILL	NET
BARN	370 CY	5528 CY	5158 CY FILL
HOUSE	765 CY	353 CY	412 CY CUT
TOTAL	1135 CY	5881 CY	4746 CY FILL <IMPORT>

NOTE: NO DEDUCTION FOR PAD/CONCRETE WAS ASSUMED.

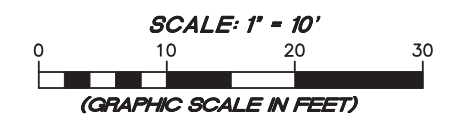
REVISION	DESCRIPTION	BY	DATE
<p>DVC GROUP INC. PLANNING • ENGINEERING • C.M. 513 CENTER STREET HEALDSBURG, CA 95448 (707) 395-0968</p>			
<p><i>D. John Hughes</i> DANIEL JOHN HUGHES DATE PCE 60225</p>			
<p>10818 CROTHERS ROAD OVERALL ROUGH GRADING PLAN 612-44-003 10818 CROTHERS ROAD SAN JOSE CA</p>			
<p>JANUARY 31, 2023</p>			
<p>JOB NO. 06-21</p>			
<p>SHEET NO. 06</p>			
<p>OF 8 SHEETS</p>			

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PROFILE B-B'
1" = 10' HORIZONTAL
1" = 10' VERTICAL

BARN ROUGH GRADING PLAN



DRAINAGE SCHEDULE

- DI-1: 6" ROUND ATRIUM GRATE (OR APPROVED EQUAL)
- DI-2: 12"x12" OLDCASTLE PRECAST CONCRETE INLET (OR APPROVED EQUAL)
- TD-1: TRAFFIC RATED TRENCH DRAIN (OR APPROVED EQUAL)

ALL 6" STORM DRAIN PIPE TO BE HDPE DUAL WALL.
ALL 4" STORM DRAIN AND ROOF LEADER DRAIN PIPE TO BE PVC SCHEDULE 40.

EARTHWORK:

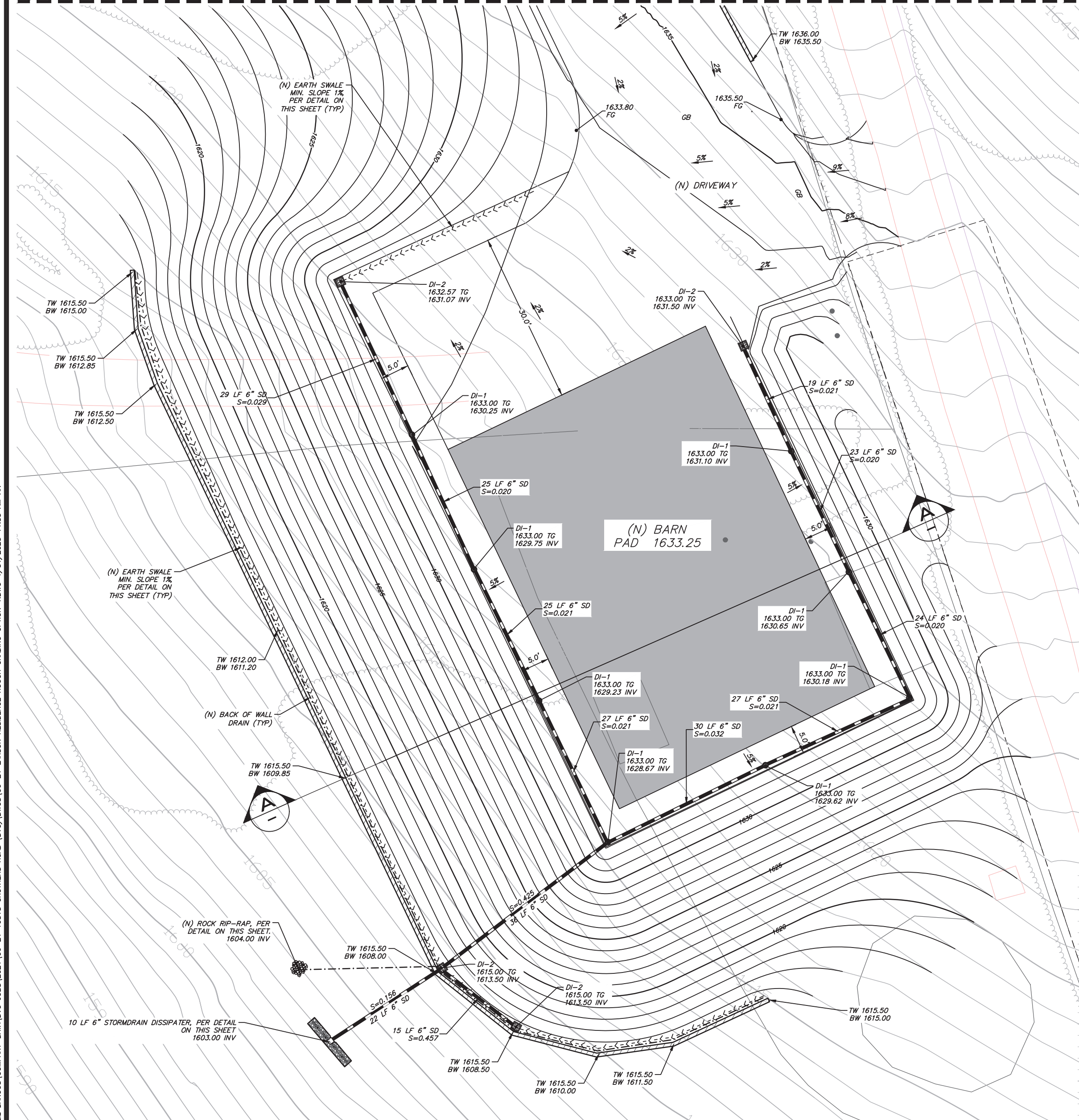
	CUT	FILL	NET
BARN	370 CY	5528 CY	5158 CY FILL
HOUSE	765 CY	353 CY	412 CY CUT
TOTAL	1135 CY	5881 CY	4746 CY FILL <IMPORT>

NOTE: NO DEDUCTION FOR PAD/CONCRETE WAS ASSUMED.

REVISION	BY	DATE	
<p>DVC GROUP INC. PLANNING • ENGINEERING • CM 519 CENTER STREET HEALDSBURG, CA 95448 (707) 395-0968</p>			
<p>10818 CROTHERS ROAD HOUSE ROUGH GRADING PLAN 612-44-083 10818 CROTHERS ROAD SAN JOSE CA</p>			
<p>JANUARY 31, 2023</p>			
<p>JOB NO. 06-21</p>			
<p>SHEET NO. C7</p>			
<p>OF 7 SHEETS</p>			

MATCH LINE SEE SHEET C7

MATCH LINE SEE SHEET C7

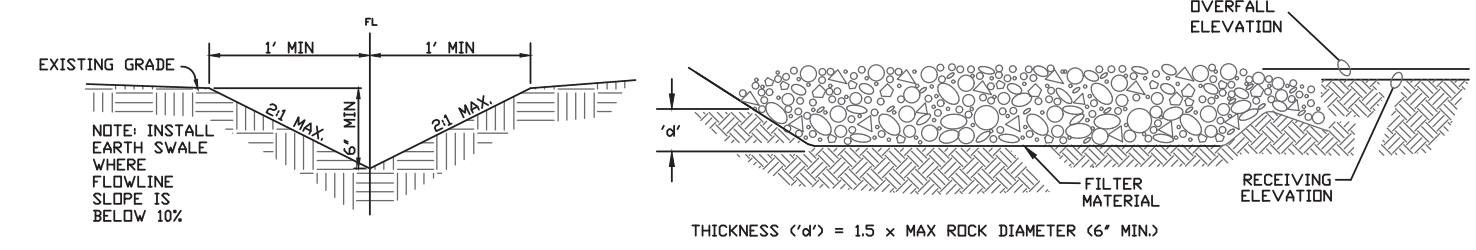
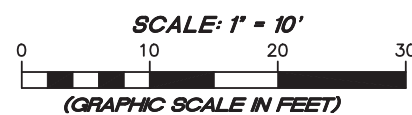


EARTHWORK:

	CUT	FILL	NET
BARN	370 CY	5528 CY	5158 CY FILL
HOUSE	765 CY	353 CY	412 CY CUT
TOTAL	1135 CY	5881 CY	4746 CY FILL <IMPORT>

NOTE: NO DEDUCTION FOR PAD/CONCRETE WAS ASSUMED.

BARN ROUGH GRADING PLAN



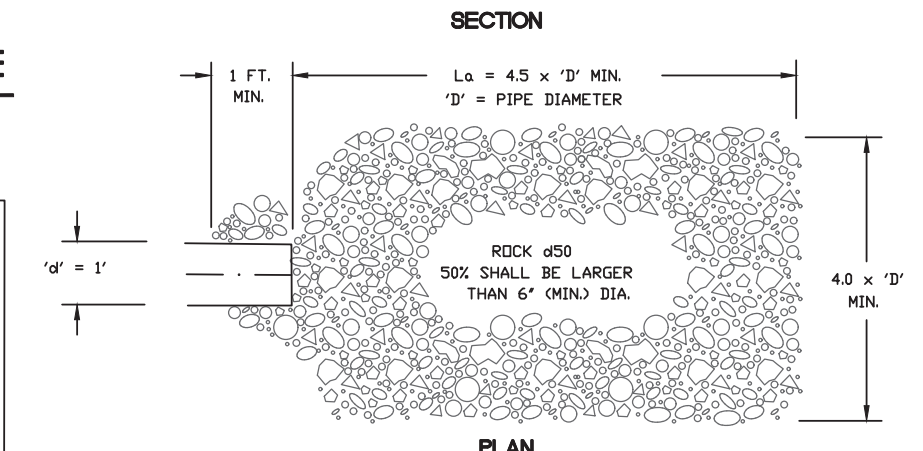
EARTH SWALE

NOT TO SCALE

DRAINAGE SCHEDULE

- DI-1: 6" ROUND ATRIUM GRATE (OR APPROVED EQUAL)
- DI-2: 12"x12" OLDCASTLE PRECAST CONCRETE INLET (OR APPROVED EQUAL)
- TD-1: TRAFFIC RATED TRENCH DRAIN (OR APPROVED EQUAL)

ALL 6" STORM DRAIN PIPE TO BE HDPE DUAL WALL.
ALL 4" STORM DRAIN AND ROOF LEADER DRAIN PIPE TO BE PVC SCHEDULE 40.

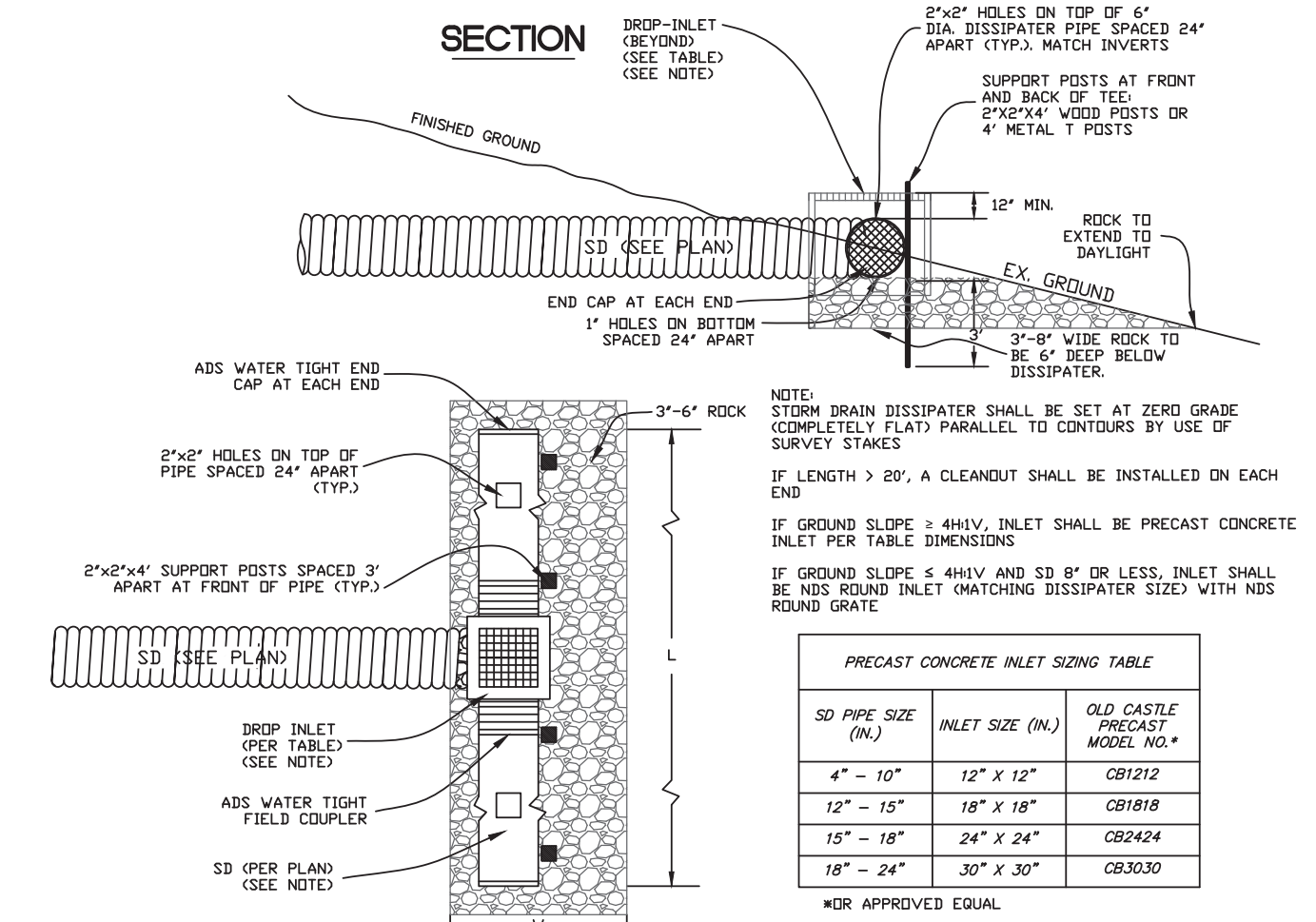


PLAN

- NOTES:
- 'L_o' = LENGTH OF APRON. DISTANCE 'L_o' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
 - APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
 - FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" THICK (MIN) GRADED GRAVEL LAYER.

ROCK OUTLET FOR BACK OF WALL DRAIN

NOT TO SCALE



SECTION

PLAN

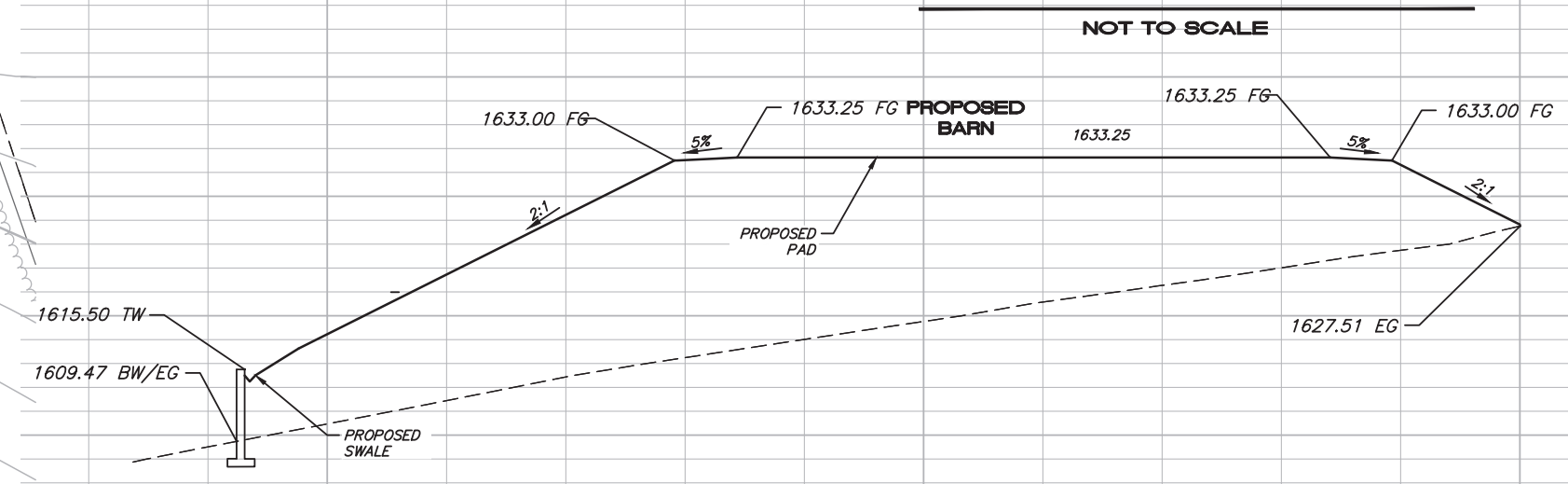
STORM DRAIN DISSIPATER

NOT TO SCALE

PRECAST CONCRETE INLET SIZING TABLE

SD PIPE SIZE (IN.)	INLET SIZE (IN.)	OLD CASTLE PRECAST MODEL NO.*
4" - 10"	12" X 12"	CB1212
12" - 15"	18" X 18"	CB1818
15" - 18"	24" X 24"	CB2424
18" - 24"	30" X 30"	CB3030

*OR APPROVED EQUAL



PROFILE A-A'

1" = 10' HORIZONTAL
1" = 10' VERTICAL

DATE: _____
DESCRIPTION BY: _____
REVISION: _____

DVC GROUP INC.
PLANNING • ENGINEERING • C.M.
519 CENTER STREET
HEALDSBURG, CA 95448
(707) 395-0668

REGISTERED PROFESSIONAL ENGINEER • CIVIL
No. 60225
Exp. 06-30-22
DANIEL JOHN HUGHES
DATE: _____
PROJECT: 10818 CROTHERS ROAD
SAN JOSE CA
RCE 60225

**10818 CROTHERS ROAD
BARN ROUGH GRADING PLAN**
612-44-083
10818 CROTHERS ROAD
SAN JOSE CA

JANUARY 31, 2023
JOB NO. 06-21
SHEET NO. **C8**
OF 8 SHEETS

ABBREVIATIONS

1	ADDITIONAL	AD	ADDITIONAL	AD	ADDITIONAL	AD	ADDITIONAL	AD	ADDITIONAL
2	ADDITIONAL	AD	ADDITIONAL	AD	ADDITIONAL	AD	ADDITIONAL	AD	ADDITIONAL
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MACK'S YAKS Staging Barn

Alum Rock

10818 Crothers Rd \\
San Jose, CA
95127



ADDITIONAL DOCUMENTS & REQUIREMENTS

GEOTECHNICAL INVESTIGATION / SOIL REPORT - Attached

SPRINKLER PLAN - N/A

TITLE 24 CALIFORNIA ENERGY CODE COMPLIANCE - N/A

ARBORIST

NO TREES TO BE REMOVED. ARBORIST REPORT HAS BEEN PREPARED. IN THE EVENT THAT PROJECT SCOPE CHANGES, CONTACT ARCHITECT & AUTHORITY HAVING JURISDICTION (AHJ) TO DETERMINE IF AN ARBORIST REPORT IS REQUIRED. NO WORK SHALL BE COMMENCED WITHIN THE DRIPLINE OF ANY TREE PROTECTED BY ANY AHJ PRIOR TO RETAINING A LICENSED ARBORIST.

COORDINATION REQUIREMENTS

COORDINATE WITH ARCHITECT

SEE CONSTRUCTION OBSERVATION NOTE ON THIS SHEET. PROVIDE ARCHITECT WITH MINIMUM 48 HOUR NOTICE OF MILESTONE REQUIRING CONSTRUCTION OBSERVATION. COPY ARCHITECT ON ALL CORRESPONDENCE WITH ALL PROJECT CONSULTANTS.



AREA CALCULATIONS

BUILDING AREA:	
MAIN LEVEL	3500sq. ft
TOTAL AREA:	3500sq. ft
TOTAL PARCEL AREA:	6.58 Acres

CONSTRUCTION OBSERVATION REQUIRED

GENERAL CONTRACTOR IS REQUIRED TO SCHEDULE & COORDINATE THE FOLLOWING MANDATORY CONSTRUCTION OBSERVATION SITE VISITS WITH ARCHITECT PRESENT. PROVIDE NOTICE TO ARCHITECT AT LEAST 48 HOURS PRIOR TO SUCH VISITS. PRIOR TO BEGINNING WORK, PROVIDE ARCHITECT & OWNER WITH A CRITICAL PATH SCHEDULE SHOWING THE FOLLOWING CONSTRUCTION MILESTONES:

INITIALS	REQD	SITE VISIT MILESTONE
_____	<input type="checkbox"/>	PRE CONSTRUCTION SITE MEETING
_____	<input checked="" type="checkbox"/>	AFTER FINISH REMOVAL, PRIOR TO STRUCTURAL DEMOLITION
_____	<input checked="" type="checkbox"/>	ROUGH FRAMING
_____	<input type="checkbox"/>	WINDOW SELECTION, PRIOR TO ORDERING WINDOWS
_____	<input type="checkbox"/>	ROUGH ELECTRICAL, MOUNTED BOXES PRIOR TO PULLING WIRE
_____	<input type="checkbox"/>	FRAMING & INSULATION, PRIOR TO COVERING FRAMING W/ FINISHES

ADDITIONALLY, CONTRACTOR SHALL SCHEDULE A MANDATORY WALKTHRU WITH ARCHITECT & OWNER PRESENT AT SUBSTANTIAL COMPLETION.

_____	<input checked="" type="checkbox"/>	SUBSTANTIAL COMPLETION PRIOR TO GRANTING OCCUPANCY
-------	-------------------------------------	--

ARCHITECT'S INITIALS ARE REQUIRED TO THE LEFT OF EACH SITE VISIT LISTED PRIOR TO PROCEEDING WITH SUBSEQUENT WORK & INDICATE ONLY THAT ARCHITECT WAS PRESENT & PROVIDED WITH THE OPPORTUNITY TO OBSERVE CONSTRUCTION AT THAT PHASE.

PROJECT DATA

PROJECT ADDRESS: 10818 Crothers Rd. San Jose, CA

OWNER/MANAGER: Mack Larson & Jothi Murali-Larson

APN: 612-44-033

ZONING: Residential /Agricultural - RR-d1 (100%)

LOT AREA: Computed Size (GIS): 286,820 sq. ft. / 6.6 acres

BUILDING AREA: See Area Calculations on this sheet 2

STORIES: 1 Typ vA

FIRE SPRINKLERS: Deferred Submittal

OCCUPANCY: Group R-4

APPLICABLE CODES: County of Santa Clara Municipal Code

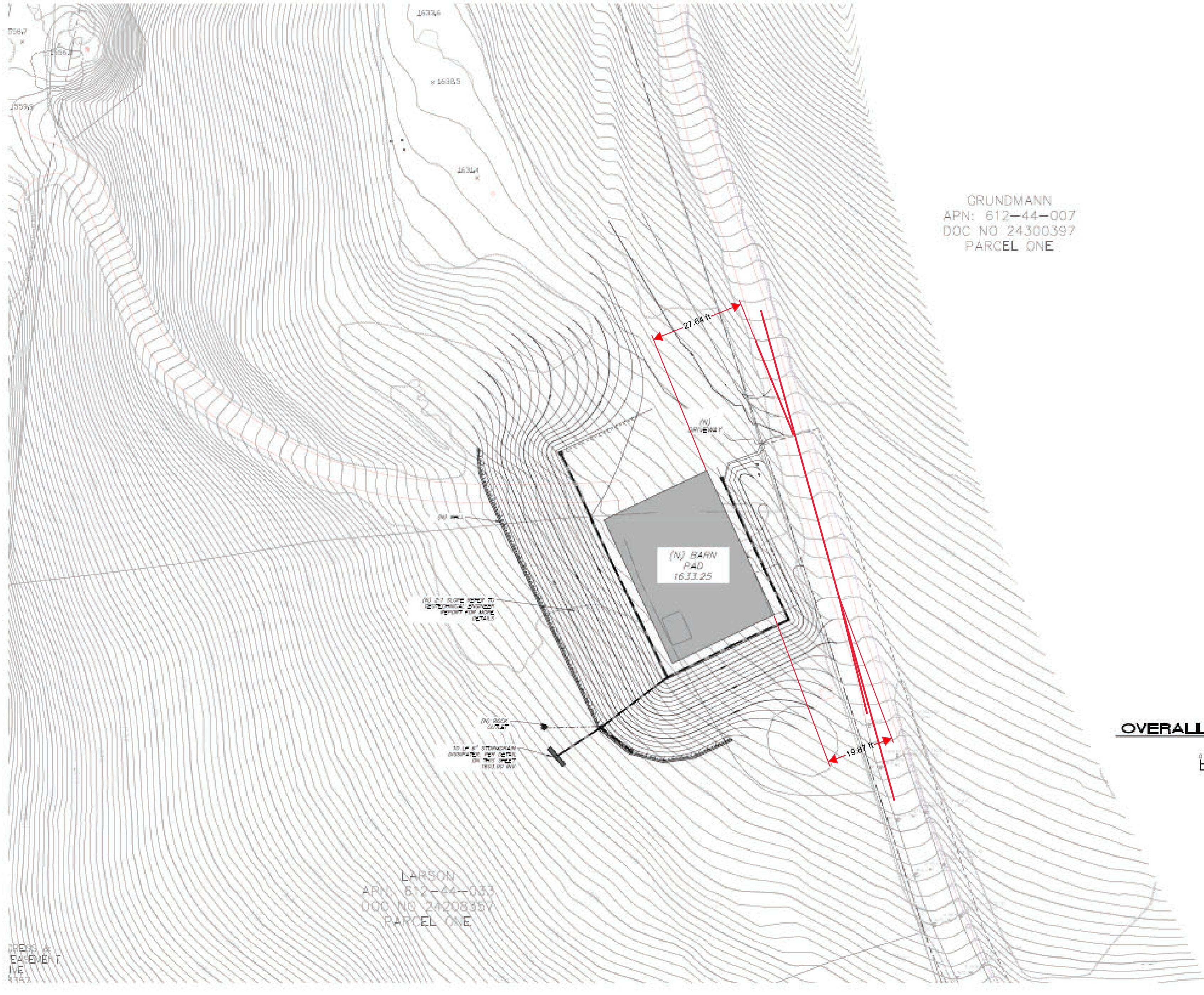
2019 CA RESIDENTIAL BUILDING CODE
2019 CA Bldg Code, 2013 CA Res Bldg Code, 2013 CA Elec Code
2019 CA Mech Code, 2013 CA Pimbg Code, 2013 CA Energy Code
2019 CA Fire Code, 2013 CalGreen Code, 2013 CA Ref Stds Code
All as amended by The State Of California and Local Jurisdiction(s).

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S-27	RIGID FRAME DESIGN		
S-28	RIGID FRAME DESIGN 2		

PROJECT TEAM

OWNER



GRUNDMANN
 APN: 612-44-007
 DOC NO 24300397
 PARCEL ONE

LARSON
 APN: 612-44-033
 DOC NO 24208357
 PARCEL ONE



OVERALL ROUGH GRADING PLAN
 SCALE: 1" = 20'
 GRAPHIC SCALE IN FEET

DRESS &
 EASEMENT
 IVE
 4547

DATE	DESCRIPTION	BY	CHK

DVC GROUP INC.
 PLANNING • ENGINEERING • CIVIL
 10818 CROTHERS ROAD
 SAN JOSE, CA 95128
 (408) 444-8888

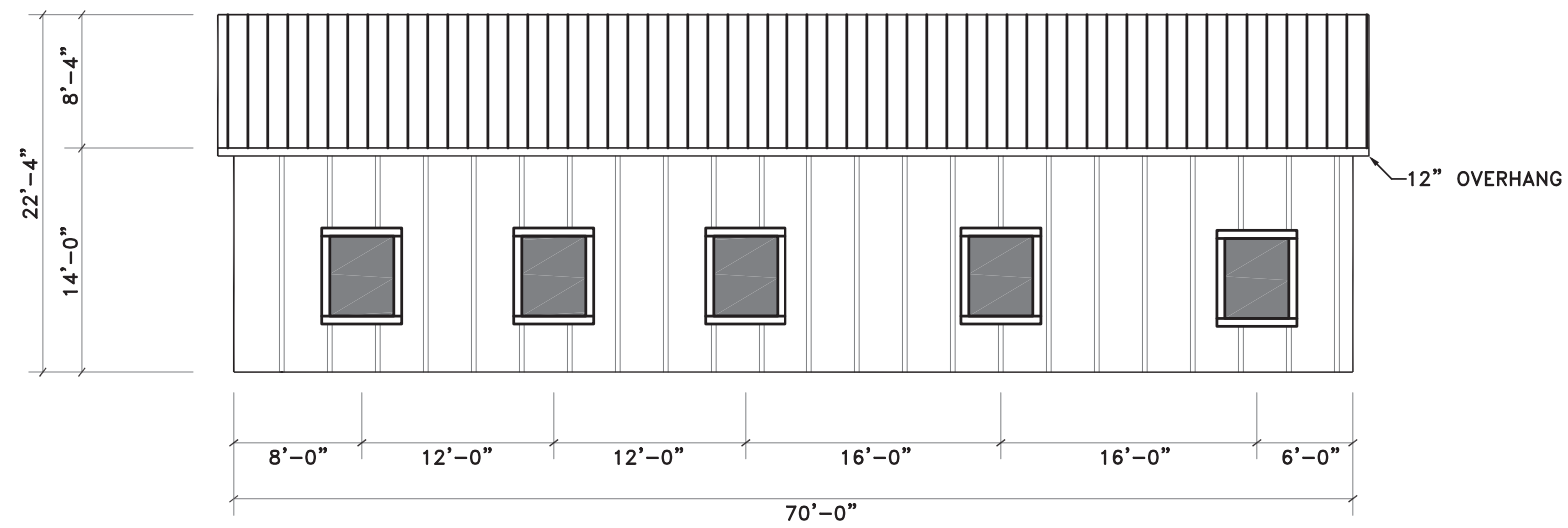


D. J. Larson
 D. J. LARSON
 PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA
 LICENSE NO. 51423

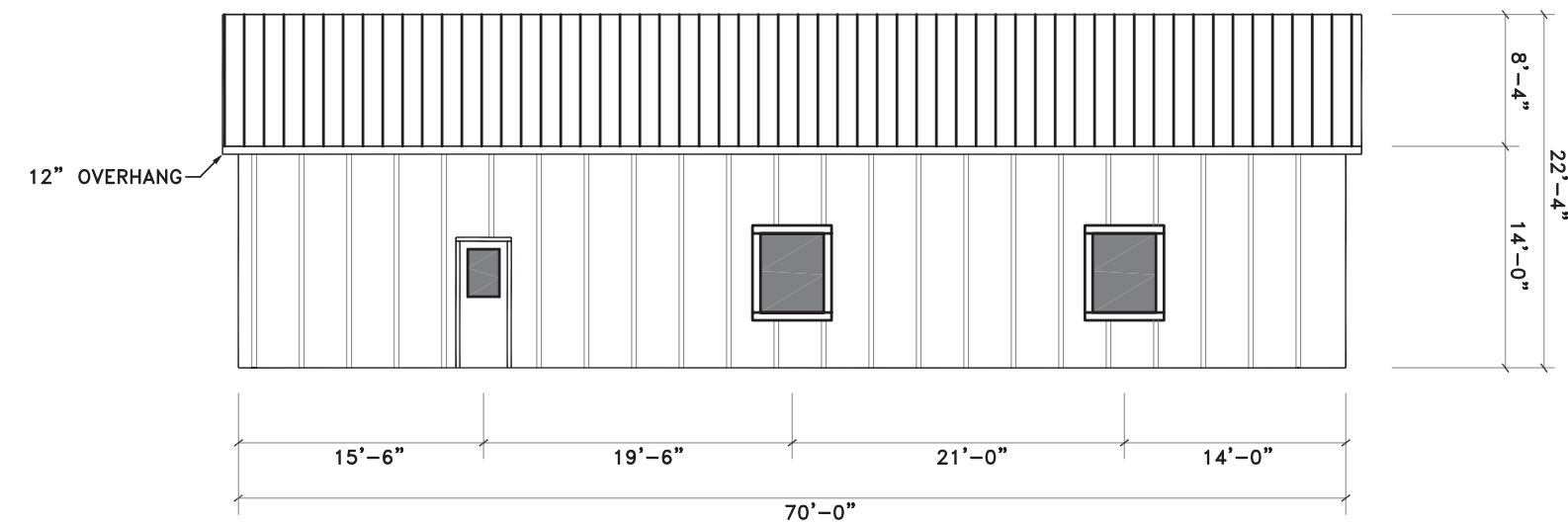
10818 CROTHERS ROAD
OVERALL ROUGH GRADING PLAN
 05-20-2025
 10818 CROTHERS ROAD
 SAN JOSE, CA

DATE: 07, 2025
 JOB NO.:
 05-21

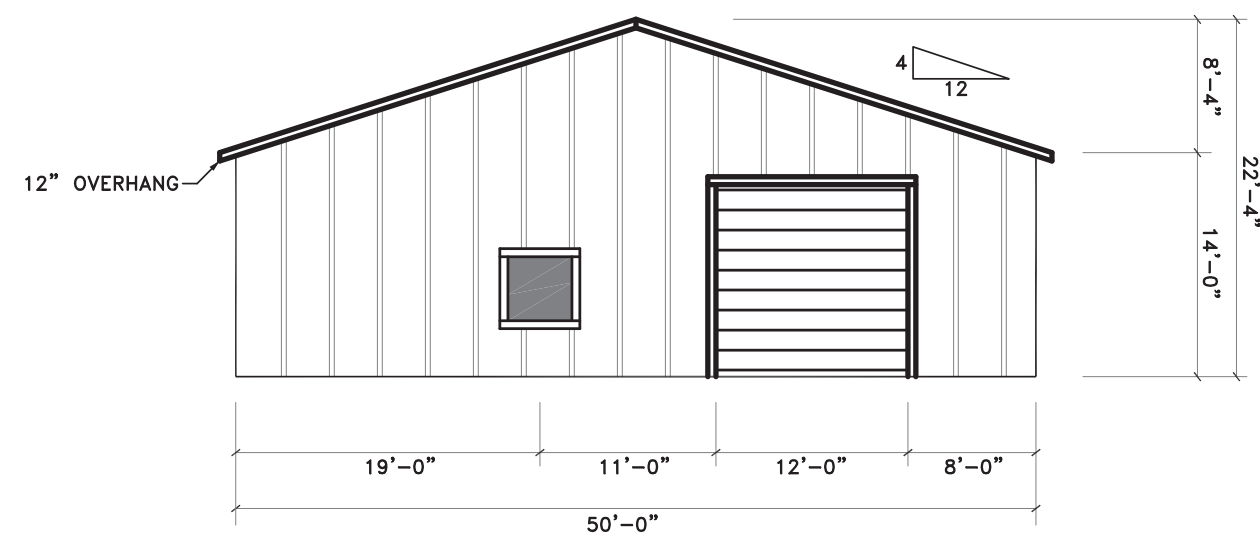
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C6
 OF 7 SHEETS



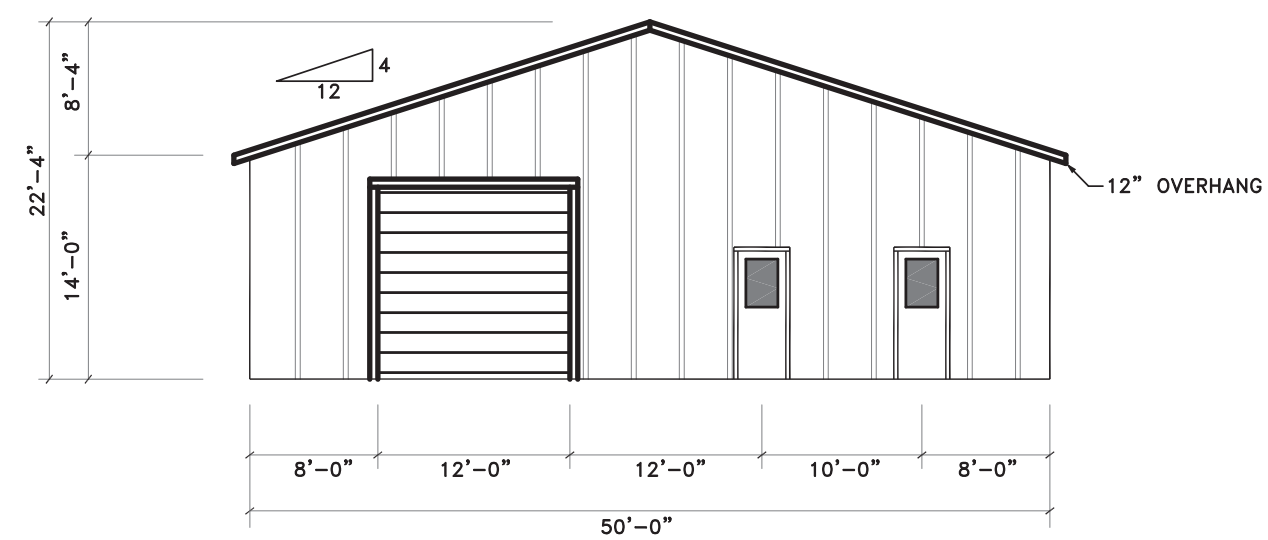
BARN – WEST ELEVATION
SCALE 1/8" = 1'



BARN – EAST ELEVATION
SCALE 1/8" = 1'



BARN – SOUTH ELEVATION
SCALE 1/8" = 1'



BARN – NORTH ELEVATION
SCALE 1/8" = 1'



REVISION	DATE	BY

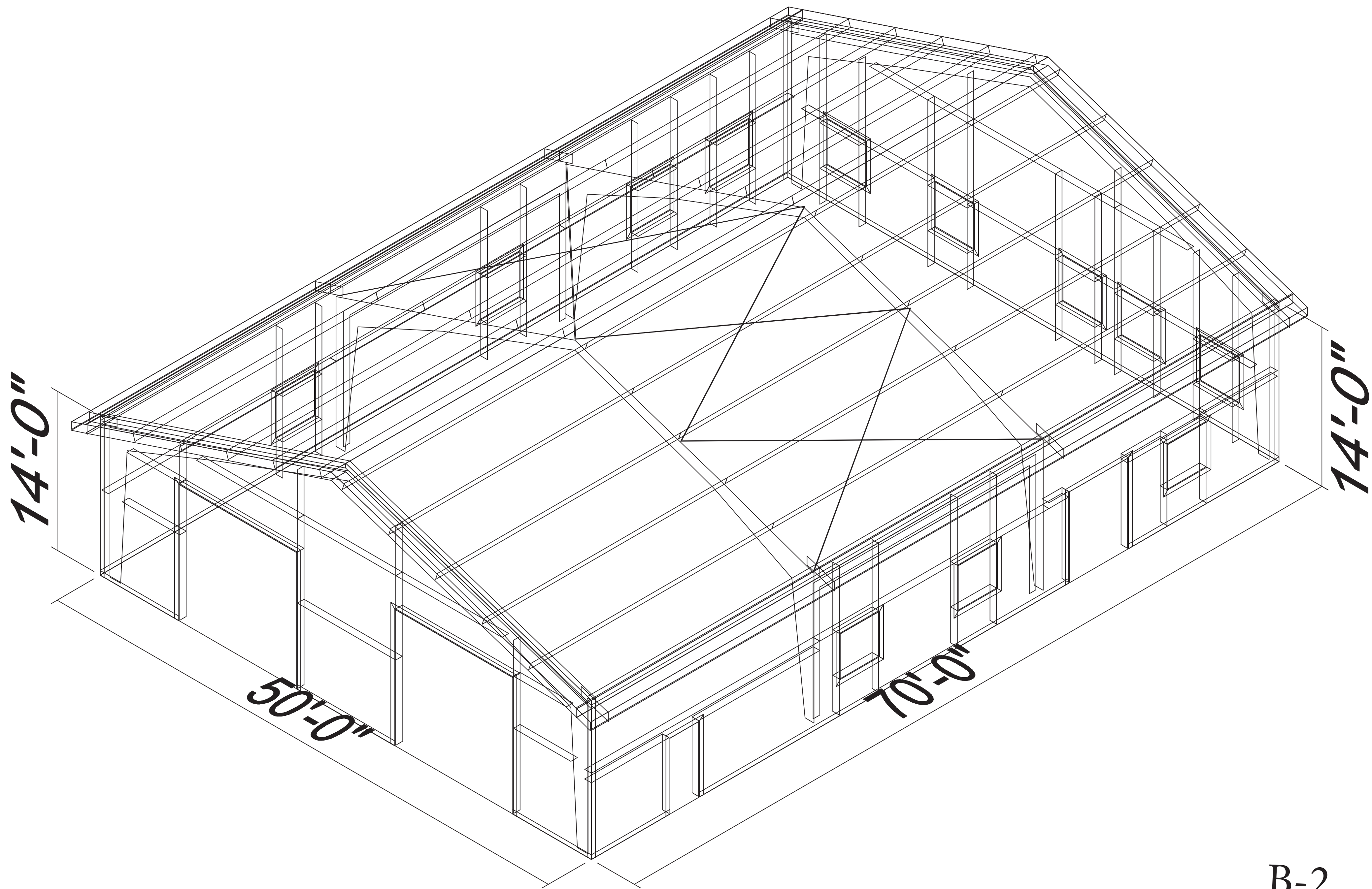


LARSON RESIDENCE
10818 Crothers Road
San Jose, CA 95127

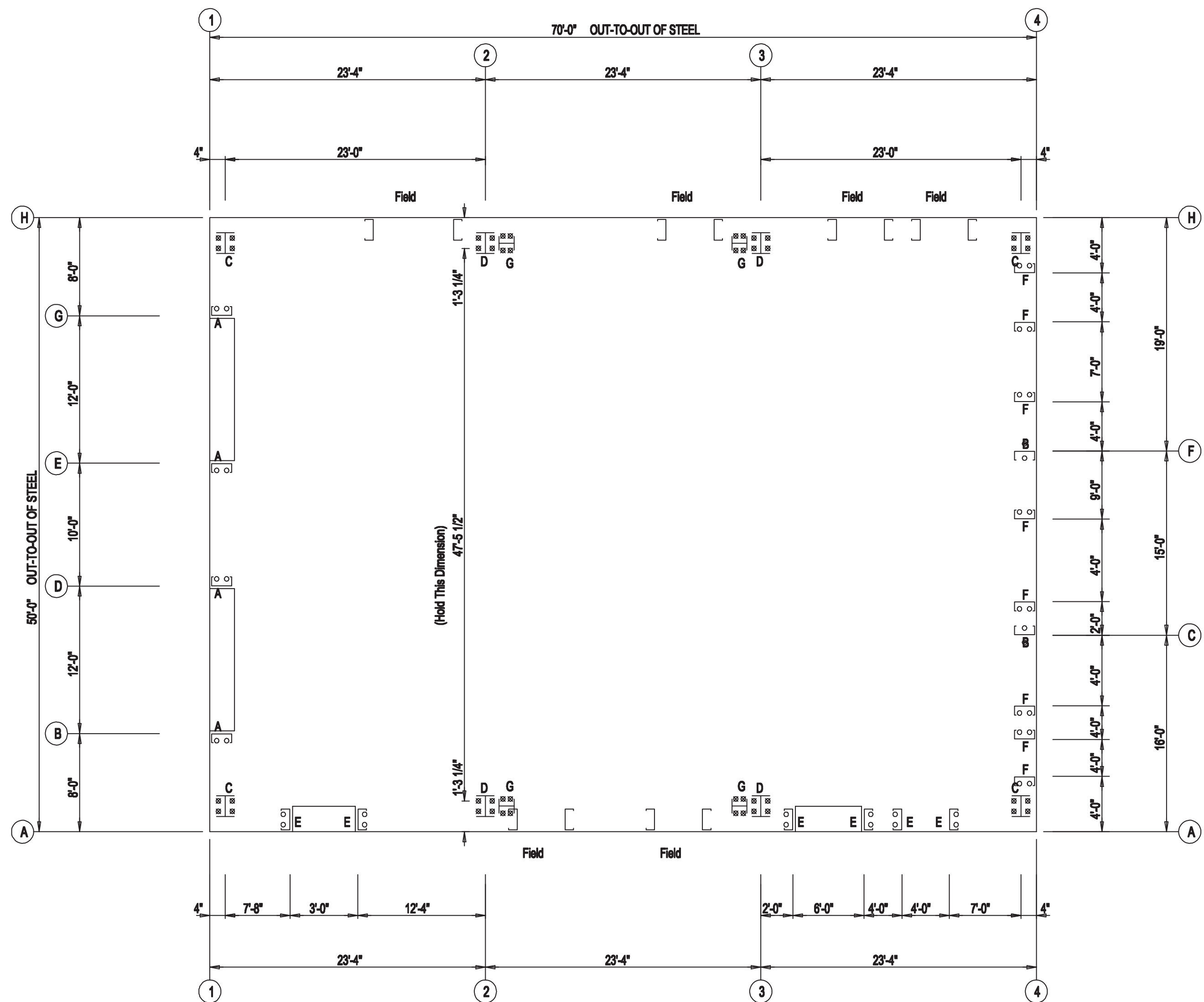
BARN ELEVATIONS

DRAWN: NN
CHECKED: MS
DATE: 1-6-23
SCALE: 1/8"=1'

SHEET
B1



B-2



○ Dia= 5/8"
 ⊗ Dia= 3/4"

ANCHOR BOLT PLAN

NOTE: ALL BASE PLATES @ 100.0' (U.N.)
 ASSUMED FINISH FLOOR @ 100.0' (U.N.)

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

HERITAGE
 BUILDING SYSTEMS

2513 MCCAIN BLVD, STE 2 #385
 NORTH LITTLE ROCK, AR 72116-7606
 1-800-643-5555

PROJECT:							
CUSTOMER:				OWNER:			
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		F1	0

A-3

GENERAL NOTES

- 1) THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING.
- 2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE)
 - A) A REACTION TABLE IS PROVIDED WITH REACTIONS FOR EACH LOAD GROUP
 - B) RIGID FRAMES
 - (1) SEE NOTE 3.
 - C) ENDWALLS
 - (1) SEE NOTE 3.
 - D) X-BRACING
 - 1) X-BRACING REACTIONS ARE INCLUDED IN VALUES SHOWN IN THE REACTION TABLES AS NOTED IN THE BRACING REACTIONS TABLE.
 - 2) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS DO NOT INCLUDE THE AMPLIFICATION FACTOR, Ω_{e0} .
 - 3) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE ENDWALL, INDIVIDUAL TRANSVERSE SEISMIC LOADS DO NOT INCLUDE THE AMPLIFICATION FACTOR, Ω_{e0} .
 - E) THE METAL BUILDING MANUFACTURER IS RESPONSIBLE ONLY FOR THE PORTION OF THE ANCHOR ROD DESIGN PERTAINING TO THE TRANSFER OF FORCES BETWEEN THE BASE PLATE BEARING AND THE ANCHOR ROD'S SHEAR AND TENSION. THE METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE ANCHOR ROD EMBEDMENT FOR TRANSFER OF FORCES TO THE FOUNDATION. THE METAL BUILDING MANUFACTURER DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL, AND CONSTRUCTION OF THE FOUNDATION EMBEDMENT. THE END USE CUSTOMER SHALL ASSURE THAT ADEQUATE PROVISIONS ARE MADE TO THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE. IT IS RECOMMENDED THAT THE ANCHORAGE AND FOUNDATION OF THE BUILDING BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER COMPETENT IN THE DESIGN OF SUCH STRUCTURES.
 - 1) (REF. APPENDIX A3 OF THE MBMA METAL BUILDING BUILDING SYSTEMS MANUAL)
 - F) ANCHOR RODS ARE ASTM F1554 GR. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
- 3) REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN. THE FOUNDATION ENGINEER SHALL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS FOR PROPER FOUNDATION DESIGN.
 - A) FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2012 IBC, 2015 IBC, OR FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A STRENGTH VALUE WITH A LOAD FACTOR OF 1.0.
 - B) FOR IBC CODES, THE SEISMIC REACTIONS PROVIDED ARE AT A STRENGTH LEVEL WITH A LOAD FACTOR OF 1.0, AND DO NOT CONTAIN THE RHO FACTOR.

THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.

ENDWALL COLUMN:

Frm Line	Col Line	Anc. Bolt		Base Plate (in)			Grout (in)
		Qty	Dia	Width	Length	Thick	
1	G	2	0.625	3.500	8.000	0.250	0.0
1	E	2	0.625	3.500	8.000	0.250	0.0
1	D	2	0.625	3.500	8.000	0.250	0.0
1	B	2	0.625	3.500	8.000	0.250	0.0
4	C	2	0.625	7.000	8.000	0.250	0.0
4	F	2	0.625	7.000	8.000	0.250	0.0

NOTES FOR REACTIONS

BUILDING REACTIONS ARE BASED ON THE FOLLOWING BUILDING DATA:

WIDTH (FT)	= 50
LENGTH (FT)	= 70
EAVE HEIGHT (FT)	= 14 / 14
ROOF SLOPE (rise/run)	= 4.0:12 / 4.0:12
DEAD LOAD (psf)	= 2.500
COLLATERAL LOAD (psf)	= 6
ROOF LIVE LOAD (psf)	= 20.00
FRAME LIVE LOAD (psf)	= 20
ROOF SNOW LOAD (psf)	= 0
GROUND SNOW LOAD (psf)	= 0.00
WIND SPEED (MPH)	= 82
WIND CODE	= CSC 19
EXPOSURE	= C
CLOSED/OPEN	= Closed
IMPORTANCE - WIND	= 1.00
IMPORTANCE - SEISMIC	= 1.00
SEISMIC ZONE	= D

REACTION KEY:

WIND Left/Right 1 = (with +Gcpl Internal Pressure)
 WIND Left/Right 2 = (with -Gcpl Internal Pressure)
 Wind_Long 1 = Wind Load Case B at Left EW
 Wind_Long 2 = Wind Load Case B at Right EW
 MIN_SNOW = Minimum Snow (Pm) per code
 ERUNB_SL_L = Endwall Unbalanced Snow Left
 ERUNB_SL_R = Endwall Unbalanced Snow Right
 FRUNB_SL_L = Rigid Frame Unbalanced Snow Left
 FRUNB_SL_R = Rigid Frame Unbalanced Snow Right

ANCHOR BOLT SUMMARY

Qty	Locate	Die (in)	Type	Proj (in)
○ 28	Jamb	5/8"	F1554	2.00
○ 12	Endwall	5/8"	F1554	2.00
⊗ 32	Frame	3/4"	F1554	2.50
⊗ 16	WindCol	3/4"	F1554	2.50

BUILDING BRACING REACTIONS

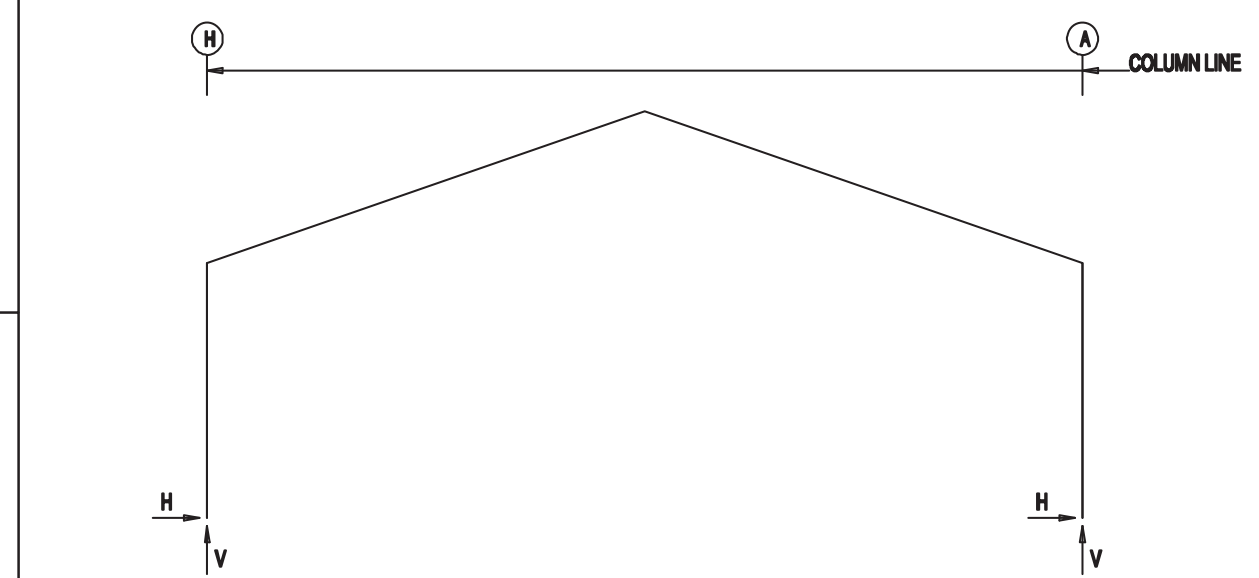
Wall Loc	Col Line	Reactions in plane of wall ± Reactions(k)				Panel Shear (lb/ft)		Note
		Wind Horiz	Wind Vert	Seismic Horiz	Seismic Vert	Wind	Seis	
L_EW	1							(h)
F_SW	A 2,3							(h)
R_EW	4							(h)
B_SW	H 2,3							(h)

(a) Wind bent in bay
 (h) Rigid frame at endwall

WIND BENT REACTIONS

Wall Loc	Col Line	Wind(k)	Reactions		Bolt(in)	Base Plate(in)	Thick			
			Horz	Vert						
F_SW	A	1.9	2.3	3.2	4	0.750	6.000	22.500	0.375	
F_SW	A	3	1.9	2.3	3.2	4	0.750	6.000	22.500	0.375
B_SW	H	3	1.9	2.3	3.2	4	0.750	6.000	22.500	0.375
B_SW	H	2	1.9	2.3	3.2	4	0.750	6.000	22.500	0.375

FRAME LINES: 1 2 3 4



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Anc. Bolt Dia	Base Plate (in)		Thick	Grout (in)
				Width	Length		
1	H	4	0.750	6.000	13.50	0.375	0.0
1	A	4	0.750	6.000	13.50	0.375	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Anc. Bolt Dia	Base Plate (in)		Thick	Grout (in)
				Width	Length		
2*	H	4	0.750	6.000	11.50	0.375	0.0
2*	A	4	0.750	6.000	11.50	0.375	0.0

2* Frame lines: 2 3

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Anc. Bolt Dia	Base Plate (in)		Thick	Grout (in)
				Width	Length		
4	H	4	0.750	6.000	13.50	0.375	0.0
4	A	4	0.750	6.000	13.50	0.375	0.0

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead		Collateral		Live		Wind Left		Wind Right		Wind Left	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	H	0.6	1.5	1.1	2.1	3.3	7.1	-4.0	-6.6	-0.2	-4.5	-3.9	-4.7
1	A	-0.6	1.5	-1.1	2.1	-3.3	7.1	0.2	-4.5	4.0	-6.6	0.1	-2.5
4	H	0.6	1.5	1.1	2.1	3.3	7.1	-4.0	-6.6	-0.2	-4.5	-3.9	-4.7
4	A	-0.6	1.5	-1.1	2.1	-3.3	7.1	0.2	-4.5	4.0	-6.6	0.1	-2.5
2*	H	1.0	2.2	1.9	3.7	6.1	12.3	-6.0	-9.2	0.6	-6.0	-6.1	-6.9
2*	A	-1.0	2.2	-1.9	3.7	-6.1	12.3	6.0	-9.2	-0.6	-6.0	-6.1	-6.9

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Suct Horz
1	E	0.1	-1.7	1.8
1	D	0.1	-1.7	1.8
1	B	0.1	-1.2	1.2
4	C	0.1	-2.2	2.3
4	F	0.1	-2.5	2.7

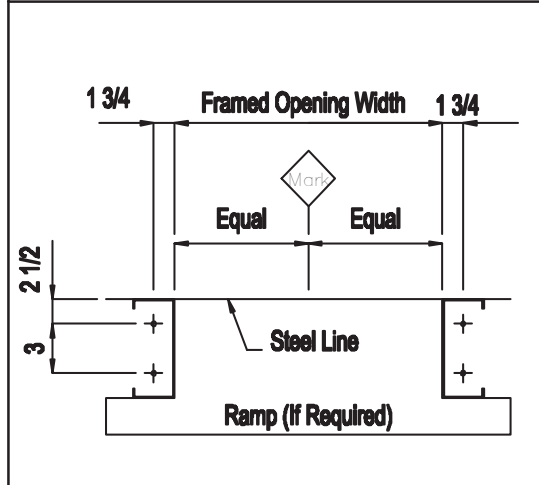
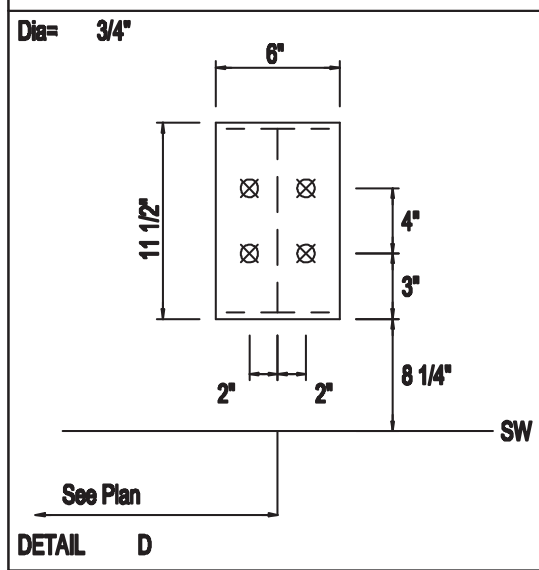
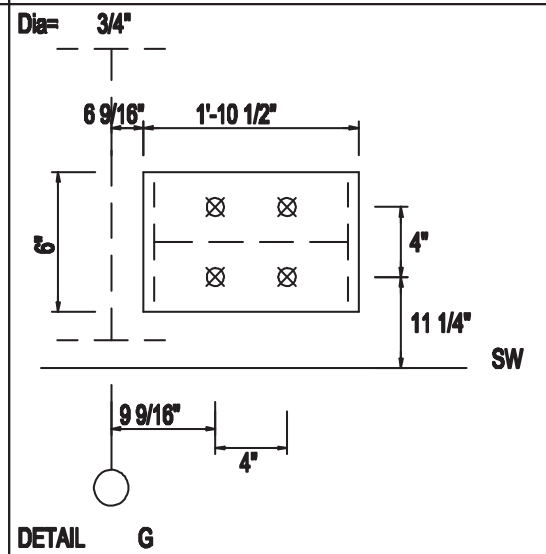
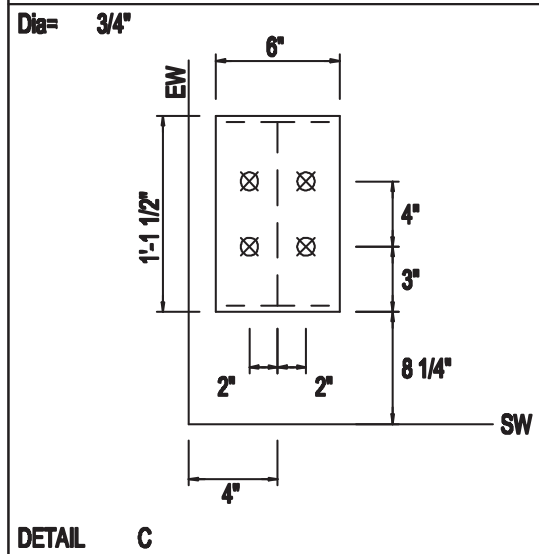
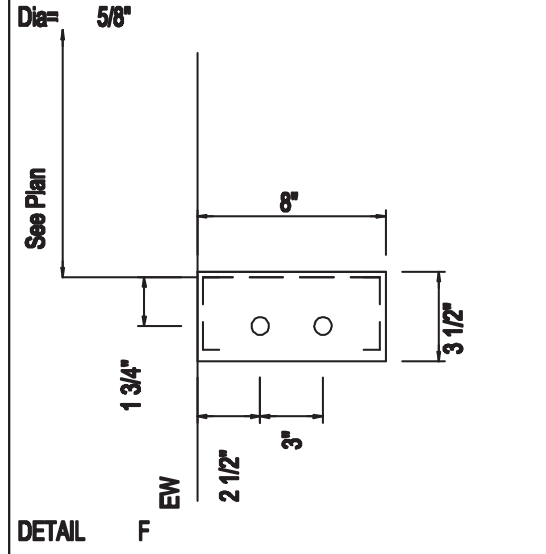
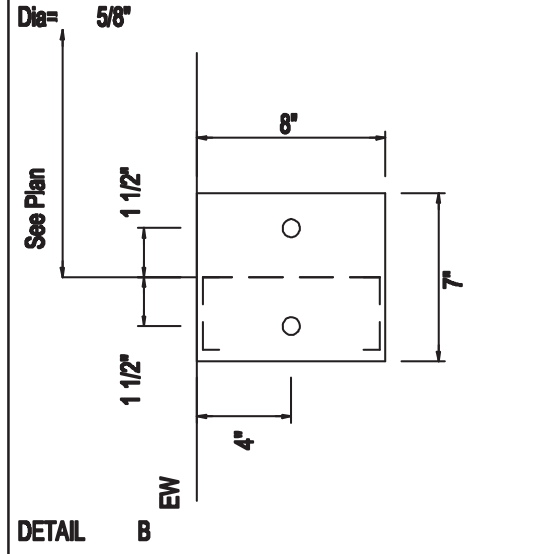
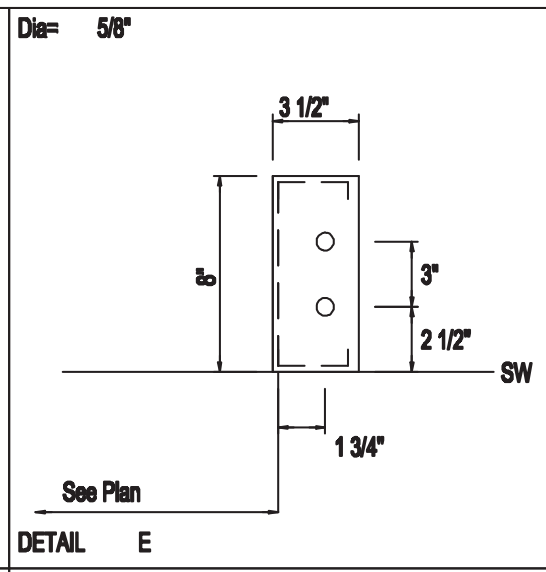
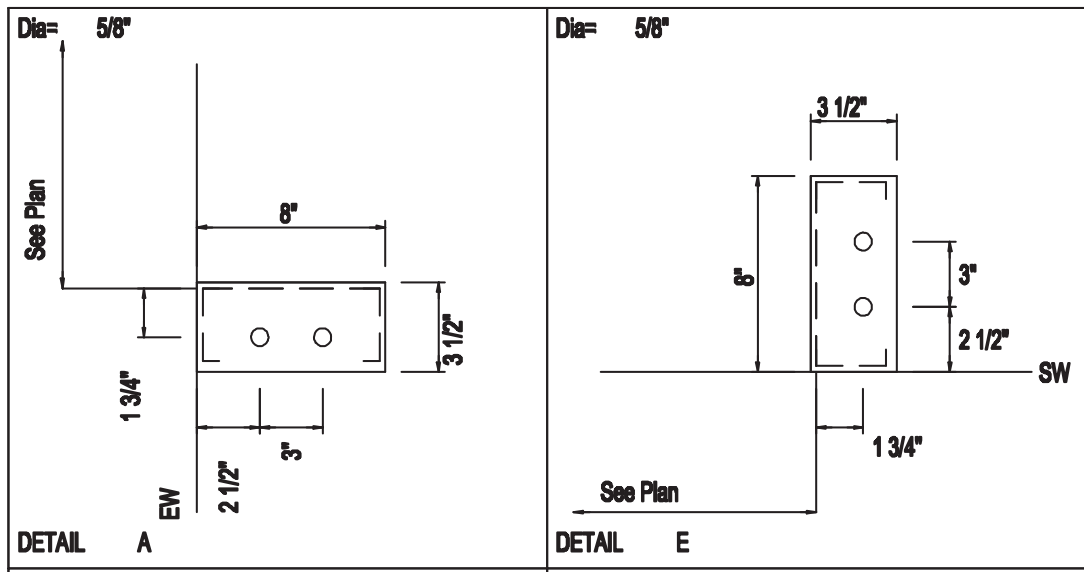
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/12/22	FOR QUOTE			

HERITAGE BUILDING SYSTEMS

2513 MCCAIN BLVD, STE 2 #385
 NORTH LITTLE ROCK, AR 72116-7606
 1-800-643-5555

S-1

PROJECT:							
CUSTOMER:	OWNER:						
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		F2	0



ARDia Framed Opening AR Layout
5/8"

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

HERITAGE
BUILDING SYSTEMS

2513 MCCAIN BLVD, STE 2 #385
NORTH LITTLE ROCK, AR 72116-7606
1-800-643-5555

PROJECT:							
CUSTOMER:				OWNER:			
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		F3	0

S-2

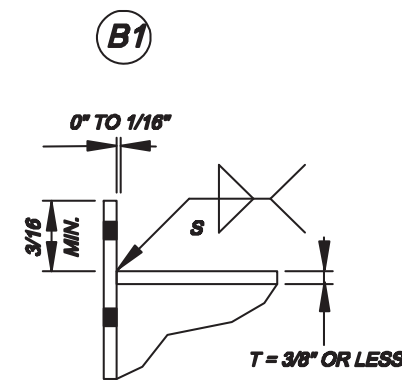
GENERAL NOTES AND DETAILS

WS-1A Date Issued: July 31, 2020

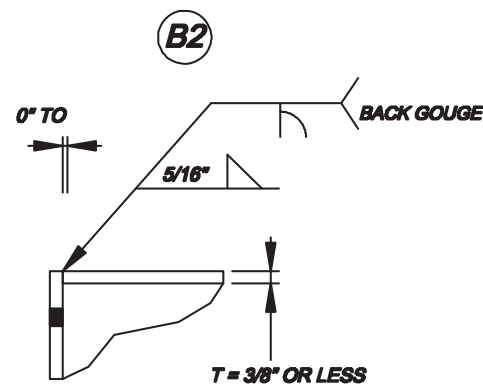
FLANGE THICK	FILLET S
1/4"	3/16"
5/16"	1/4"
3/8"	5/16"

FILLETS NOT ALLOWED ON CRANE BRACKETS EXCEPT AS NOTED ON WS-8. USE DETAILS B2 AND B3 ON CRANE BRACKETS WHERE FILLET WELDS ARE NOT ALLOWED.

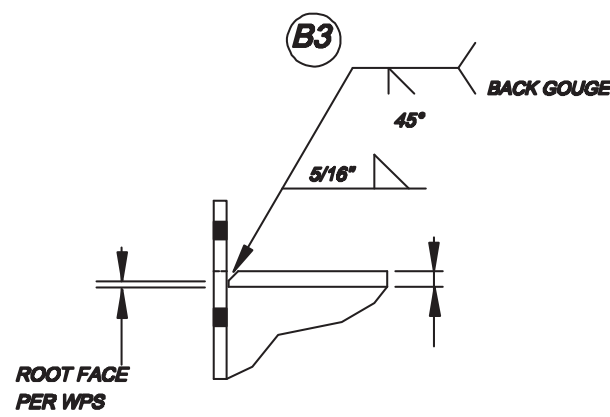
EXTENDED CONNECTION PLATE AND BRACKET TO FLANGE



FLUSH OR RECESSED CONNECTION PLATE AND BRACKET TO FLANGE



EXTENDED, FLUSH OR RECESSED CONNECTION PLATE AND BRACKET TO FLANGE



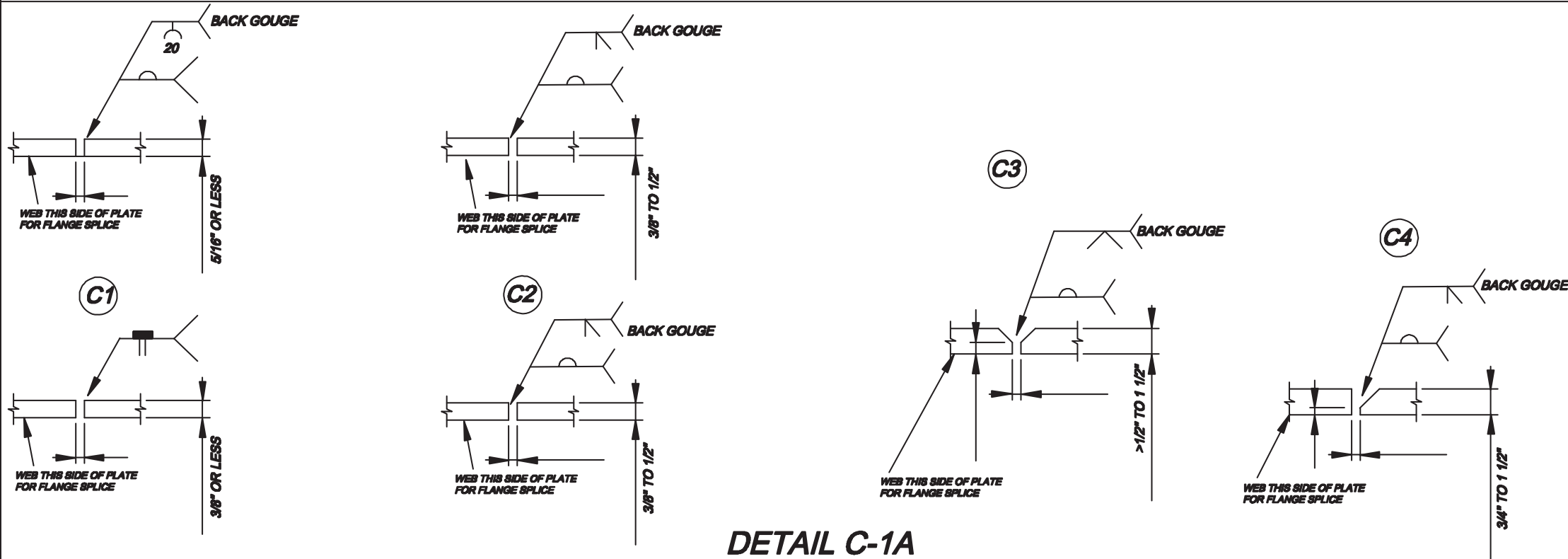
DETAIL B-1A GENERAL USAGE GUIDELINES

CONDITION	LIMIT(S)	DETAIL TO USE
FLANGE TO CONNECTION PLATE	FLANGE THICKNESS LESS THAN OR EQUAL TO 3/8" CONNECTION PLATE IS EXTENDED PAST FLANGE ENOUGH TO ALLOW REQUIRED FILLET SIZE	B1
	FLANGE THICKNESS LESS THAN OR EQUAL TO 3/8" CONNECTION PLATE IS FLUSH TO RECESSED TO FLANGE SURFACE	B2
	FLANGE THICKNESS GREATER THAN 3/8"	B3
CRANE BRACKET TO FLANGE	BRACKET FLANGE THICKNESS LESS THAN OR EQUAL TO 3/8"	B2
	BRACKET FLANGE THICKNESS GREATER THAN 3/8"	B3
NON-CRANE BRACKET TO FLANGE	NON-CRANE BRACKET FLANGE THICKNESS LESS THAN OR EQUAL TO 3/8"	B1
	NON-CRANE BRACKET FLANGE THICKNESS GREATER THAN 3/8"	B3
COLUMN FLANGE TO MOMENT BASE PLATE, STIFFENER TO CONNECTION PLATE OR ANY CONDITION CALLING FOR DETAIL B-1A BUT NOT MENTIONED ABOVE.	WELDED PLATE THICKNESS LESS THAN OR EQUAL TO 3/8" PLATE IS EXTENDED PAST WELDED PLATE ENOUGH TO ALLOW REQUIRED FILLET SIZE	B1
	WELDED PLATE THICKNESS LESS THAN OR EQUAL TO 3/8" PLATE DOES NOT EXTEND PAST WELDED PLATE ENOUGH TO ALLOW REQUIRED FILLET SIZE	B2
	WELDED PLATE THICKNESS GREATER THAN 3/8"	B3

DETAIL B-1A

SEE NOTE C2 AND C3 IN DETAIL C-1A

FLANGE TO CONNECTION PLATE AND BRACKET TO FLANGE



**DETAIL C-1A
SPLICE WELDS**

NOTES

C2 ANY PREQUALIFIED OR "PROCEDURE QUALIFIED" CJP WELD MAY ALSO BE USED FOR DETAILS B-1A AND C-1A, WITH A WRITTEN CBB APPROVED WPDOS.
C3 SEE GENERAL NOTE 7 FOR RUN TAB REQUIREMENTS
1.2 1/2 THICKNESS TRANSITION REQUIRED FOR CANADA PROJECTS

GENERAL NOTES

1. ALL SAW WEB TO FLANGE WELDS TO BE CONTINUOUS ONE SIDE ONLY UNLESS NOTED ON FABRICATION DOCUMENTS.
2. INCREASE FILLET SIZE BY 1/16 FOR EACH 1/16 OF GAP IF GAP AT ROOT IS GREATER THAN 1/16. MAXIMUM FILLET ROOT PERMITTED IS 3/16. SEE DETAIL D-1A ON THIS SHEET.
3. FILLET WELD SIZE IS NO GREATER THAN THE SHORTEST LEG SIZE.
4. FOLLOW APPROPRIATE WELDING PROCEDURE SPECIFICATIONS FOR ALL WELDS.
5. ALL CLIPS SHOULD BE WELDED AT 90-DEG TO THEIR SUPPORTING SURFACE UNLESS OTHERWISE NOTED IN THESE DRAWINGS OR THE PROJECT SHOP DRAWINGS.
6. SC2 AND SC280 FLANGE BRACE CLIPS SHOULD BE ALIGNED WITH THE PURLING/IRT CLIP ABOVE. REFER TO DETAIL ON SHEET WS-5. REFER TO DETAIL ON SHEET WS-4.
7. WELD RUN-TABS (RUN-ON AND RUN-OFF) SHALL BE USED ON ALL CJP CONNECTIONS, EXCEPT WHERE JOINT GEOMETRY AND/OR INTERFERENCE PREVENT THE PLACEMENT OF A WELD TAB. THIS SHALL BE DONE BY USE OF WELD TABS ALIGNED IN SUCH A MANNER TO PROVIDE AN EXTENSION OF THE JOINT PREPARATION FOR PURPOSE OF WELD PASS INITIATION AND TERMINATION. STIFFENER WELDS ENDING AT OR THE INSIDE CORNER OF THE STIFFENER MEMBER OR A CLIP NEAR THAT CORNER ARE EXAMPLES OF WELDS THAT CANNOT BE TERMINATED ON A WELD TAB. WELD RUN-TABS SHALL BE REMOVED UPON COMPLETION OF THE JOINT. ENDS OF WELDED BUT JOINTS SHALL BE FINISHED SO AS NOT TO REDUCE THE WIDTH BEYOND THE DETAILED WIDTH OR THE ACTUAL WIDTH FURNISHED, WHICHEVER IS THE GREATER, BY MORE THAN 1/8".

DETAIL A-1A

FILLET INCREASE AT SKEWED WELD JOINTS

THE FOLLOWING TABLES PROVIDE THE REQUIRED MODIFICATION TO THE REQUESTED/REQUIRED FILLET WELD BASED ON THE JOINT GEOMETRY.

NC - INDICATES THAT NO CHANGE TO THE REQUESTED/REQUIRED FILLET WELD IS REQUIRED.
CJP - INDICATES THE REQUESTED/REQUIRED FILLET WELD MUST BE REPLACED BY A CJP WELD.
+1/16 - INDICATES THE REQUESTED/REQUIRED FILLET WELD LEG SIZE MUST BE INCREASE BY 1/16" DUE TO THE SKEWED JOINT.
+1/8 - INDICATES THE REQUESTED/REQUIRED FILLET WELD LEG SIZE MUST BE INCREASE BY 1/8" DUE TO THE SKEWED JOINT.
+3/16 - INDICATES THE REQUESTED/REQUIRED FILLET WELD LEG SIZE MUST BE INCREASE BY 3/16" DUE TO THE SKEWED JOINT.
GENERAL NOTE 2 IS IN ADDITION TO ANY INCREASE SHOWN IN THE TABLES BELOW.
WHEN THE FILLET SIZE MUST BE INCREASE THE FINAL FILLET WELD SIZE SHALL NOT EXCEED 3/8". IF THE FINAL FILLET WELD SIZE EXCEEDS 3/8" THEN USE CJP.

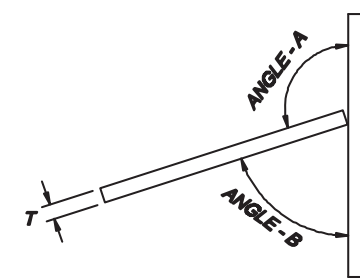
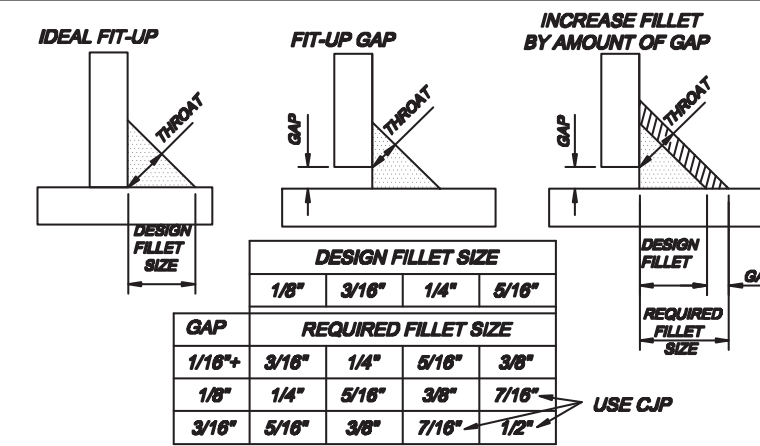


TABLE D-1
REQUIRED MODIFICATION TO FILLET WELD ON ANGLE-B SIDE OF PLATE

T (IN)	ANGLE-B (DEGREES)			
	90 < B < 95	95 < B < 105	105 < B < 135	135 < B < 180
0.1340	NC	+1/16	CJP	-
0.1560	NC	+1/16	CJP	-
0.1850	NC	+1/16	CJP	-
3/16"	NC	+1/16	CJP	-
1/4"	NC	+1/16	CJP	-
5/16"	NC	+1/16	CJP	-

TABLE D-2
REQUIRED MODIFICATION TO FILLET WELD ON ANGLE-A SIDE OF PLATE

T (IN)	ANGLE-A (DEGREES)									
	90 < A < 95	95 < A < 105	105 < A < 125	125 < A < 135	135 < A < 150	150 < A < 180	180 < A < 225	225 < A < 270	270 < A < 315	315 < A < 360
0.1340	NC	+1/16	+1/8	+1/8	+3/16	CJP	-	-	-	-
0.1560	NC	+1/16	+1/8	+1/8	+3/16	CJP	-	-	-	-
0.1850	NC	+1/16	+3/16	+3/16	+3/16	CJP	-	-	-	-
3/16"	NC	+1/16	+3/16	+3/16	+3/16	CJP	-	-	-	-
1/4"	NC	+1/8	+3/16	+3/16	+3/16	CJP	-	-	-	-
5/16"	NC	+1/8	+3/16	CJP	CJP	CJP	-	-	-	-
3/8"	+1/16	+1/8	+3/16	CJP	CJP	CJP	-	-	-	-
1/2"	+1/16	+3/16	+3/16	CJP	CJP	CJP	-	-	-	-
5/8"	+1/8	+3/16	CJP	CJP	CJP	CJP	-	-	-	-



DETAIL D-1A FILLET INCREASE

**TABLE 1
MIN. FILLET WELD SIZES**

THICKER PLATE	THINNER PLATE (USUALLY THE WEB)						
	< 1/4"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
UNDER 1/4"	3/16"	-	-	-	-	-	-
1/4"	3/16"	3/16"	-	-	-	-	-
5/16 THRU 1/2"	3/16"	3/16"	3/16"	3/16"	3/16"	-	-
5/8 THRU 3/4"	3/16"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
OVER 3/4"	3/16"	1/4"	5/16"	5/16"	5/16"	5/16"	5/16"

**TABLE 2
GENERAL FILLET WELDS**

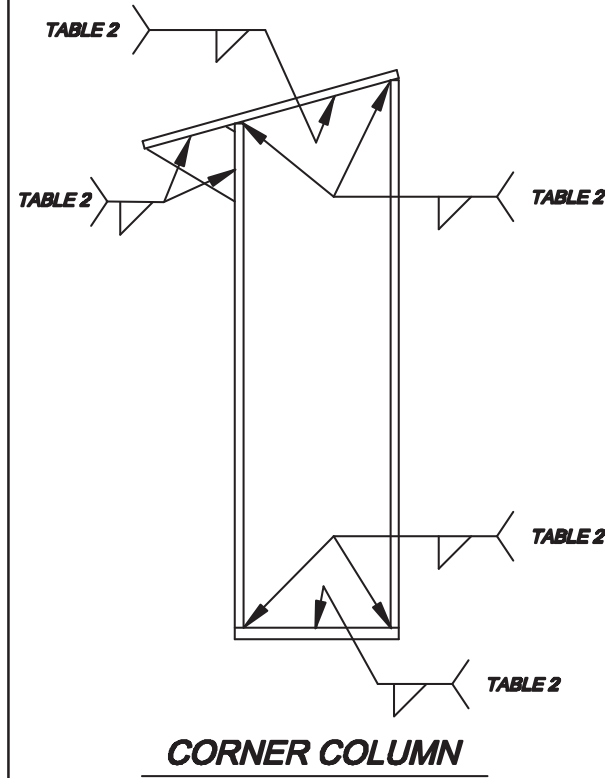
THINNER PLATE THICKNESS	ONE SIDE	BOTH SIDES
	FILLET SIZE	FILLET SIZE
UNDER 1/4"	3/16"	3/16"
1/4"	1/4"	3/16"
5/16"	5/16"	1/4"
OVER 5/16"	5/16"	5/16"

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN

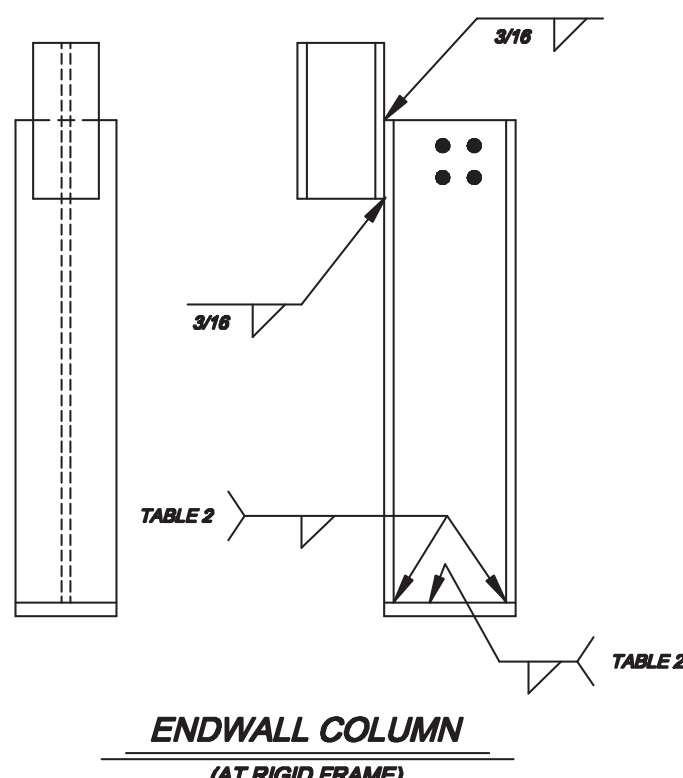
PROJECT:							
CUSTOMER:							
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
		N.T.S.					

COLUMNS

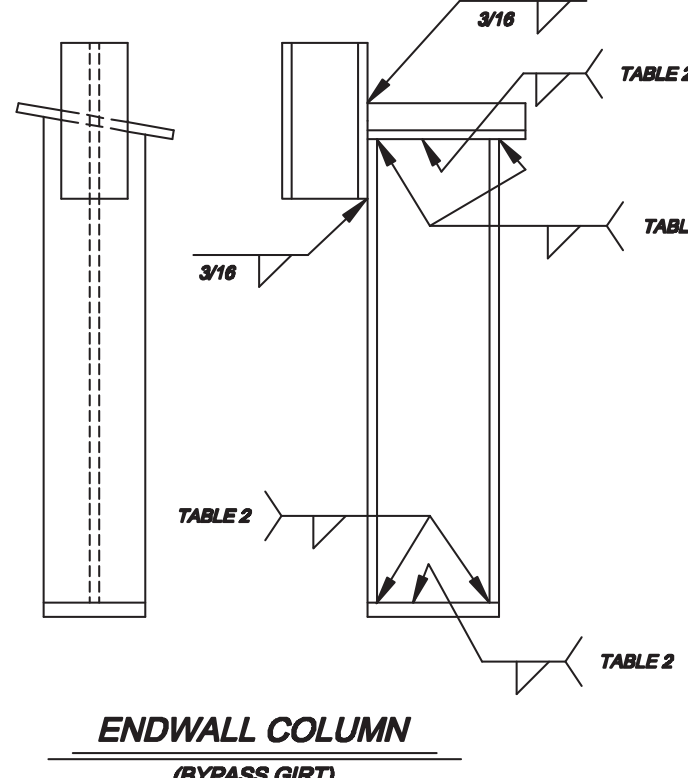
WS-4 Date Issued: July 31, 2020



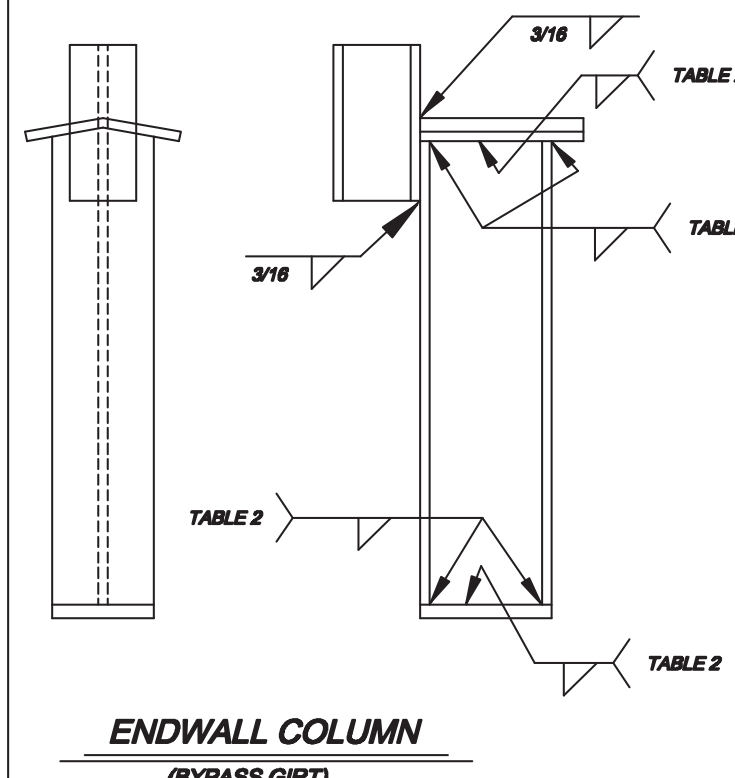
CORNER COLUMN



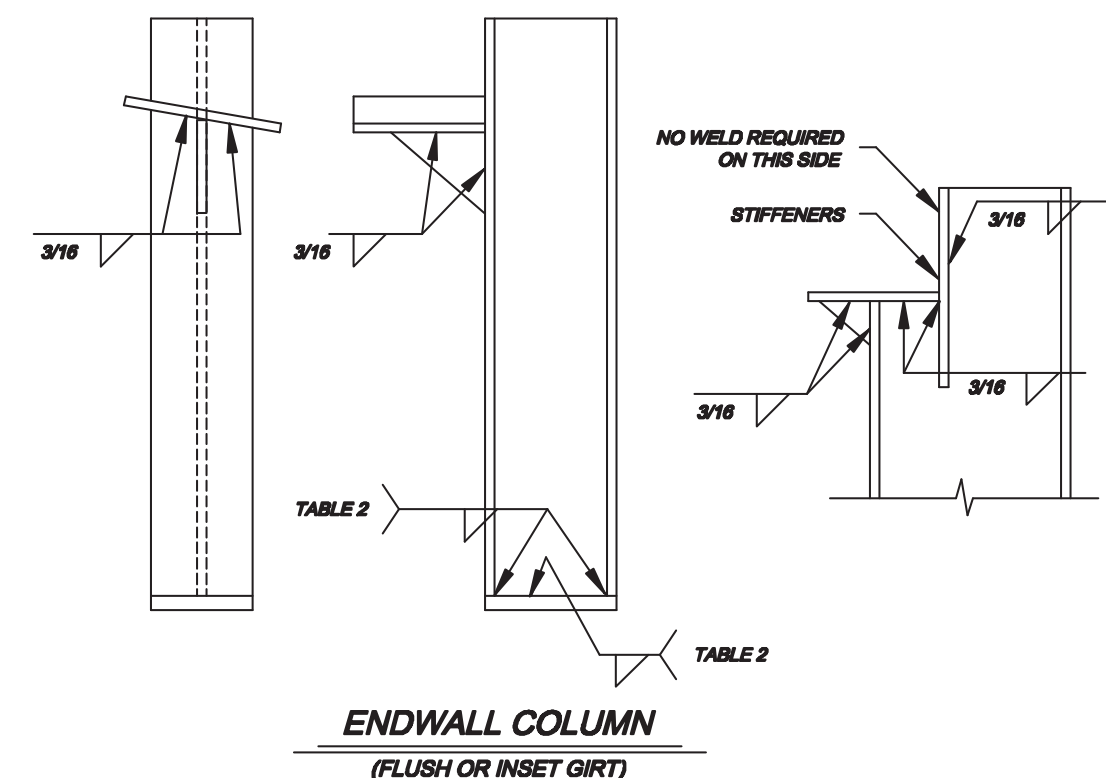
**ENDWALL COLUMN
(AT RIGID FRAME)**



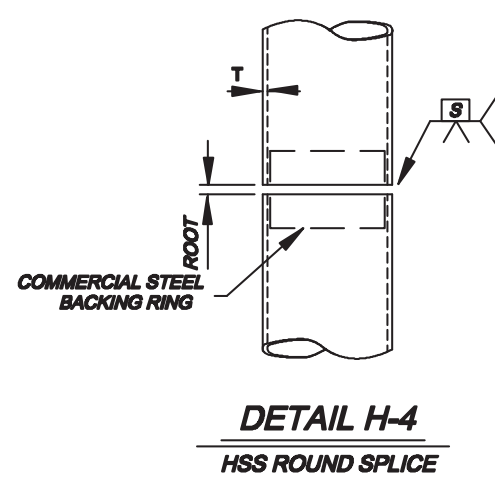
**ENDWALL COLUMN
(BYPASS GIRT)**



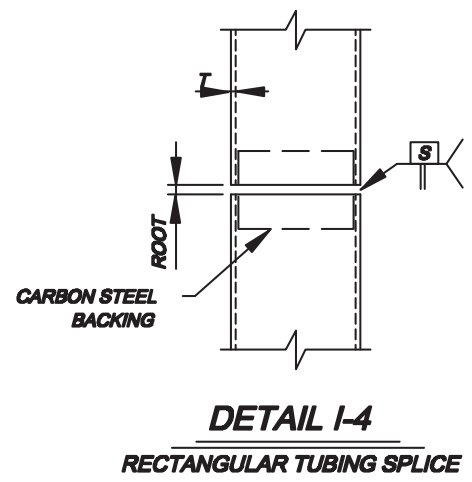
**ENDWALL COLUMN
(BYPASS GIRT)**



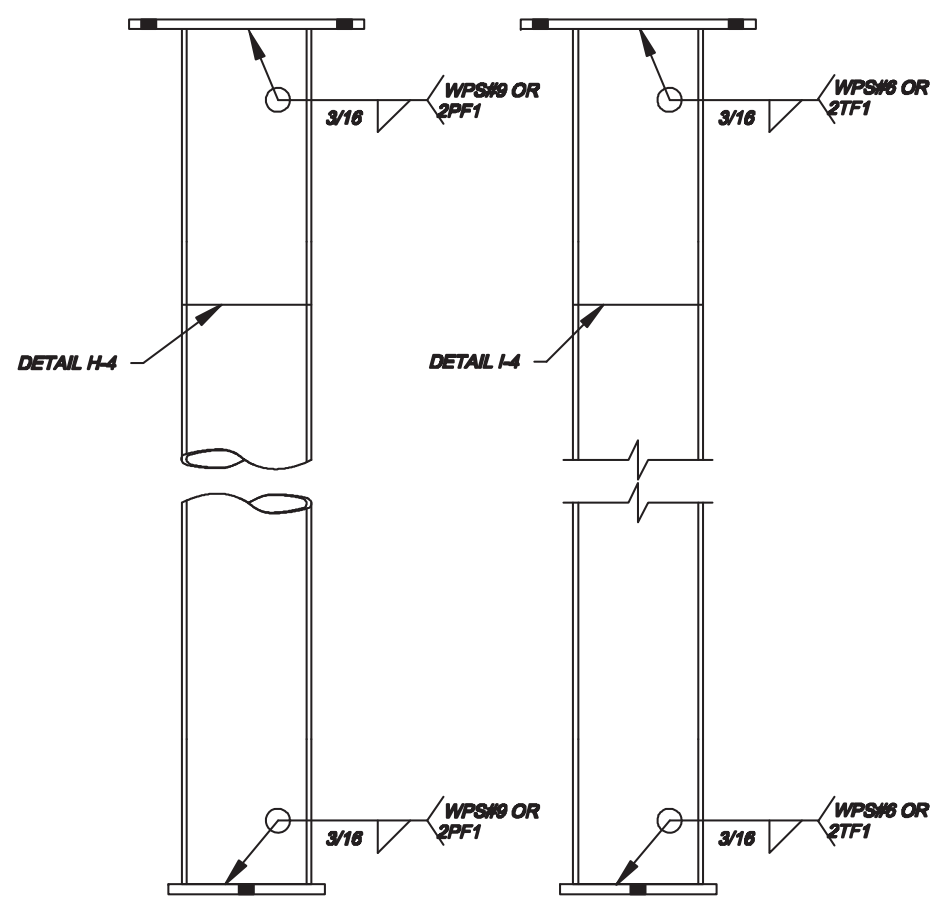
**ENDWALL COLUMN
(FLUSH OR INSET GIRT)**



**DETAIL H-4
HSS ROUND SPLICE**



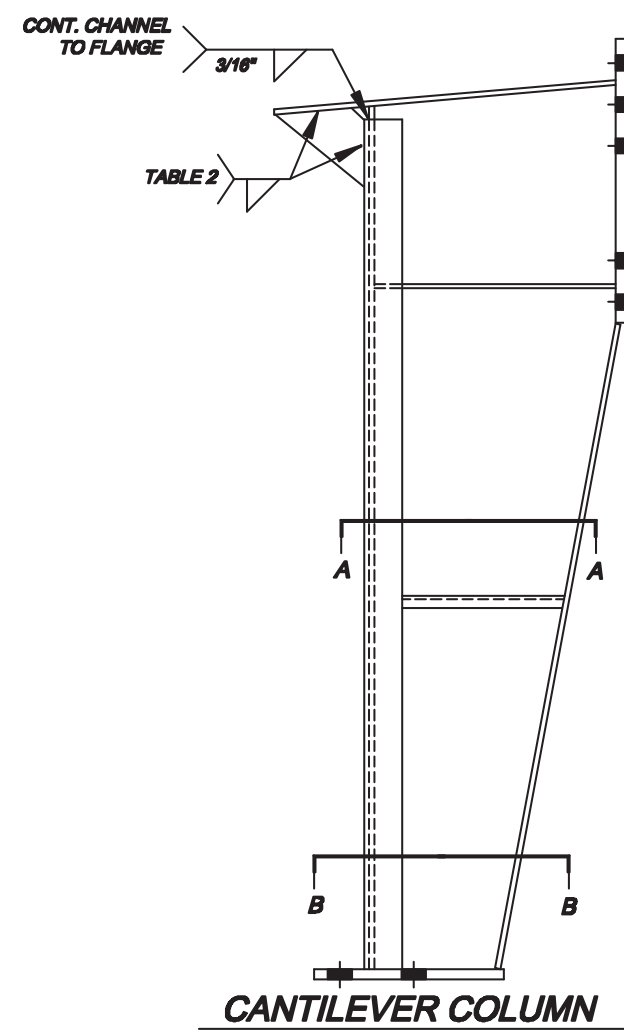
**DETAIL I-4
RECTANGULAR TUBING SPLICE**



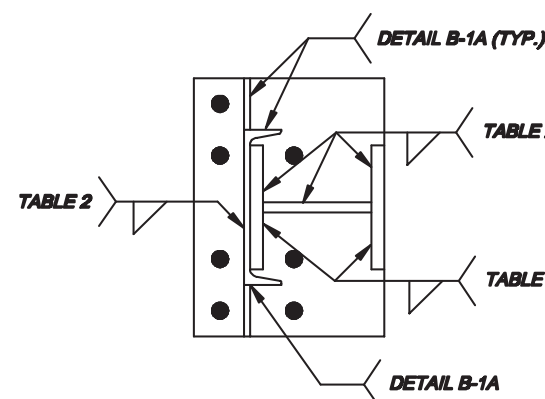
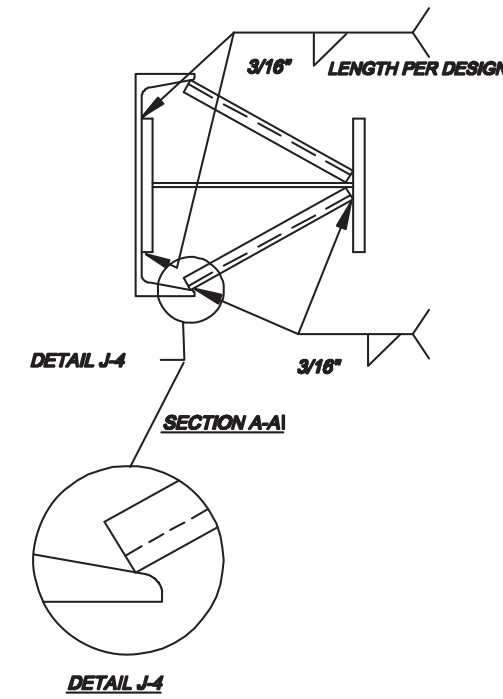
INTERIOR PIPE OR TUBE COLUMNS

PIPE **RECT. TUBE**
WELDS LARGER THAN THESE STANDARD SIZES MAY BE REQUIRED
REFER TO FABRICATION DOCUMENTS

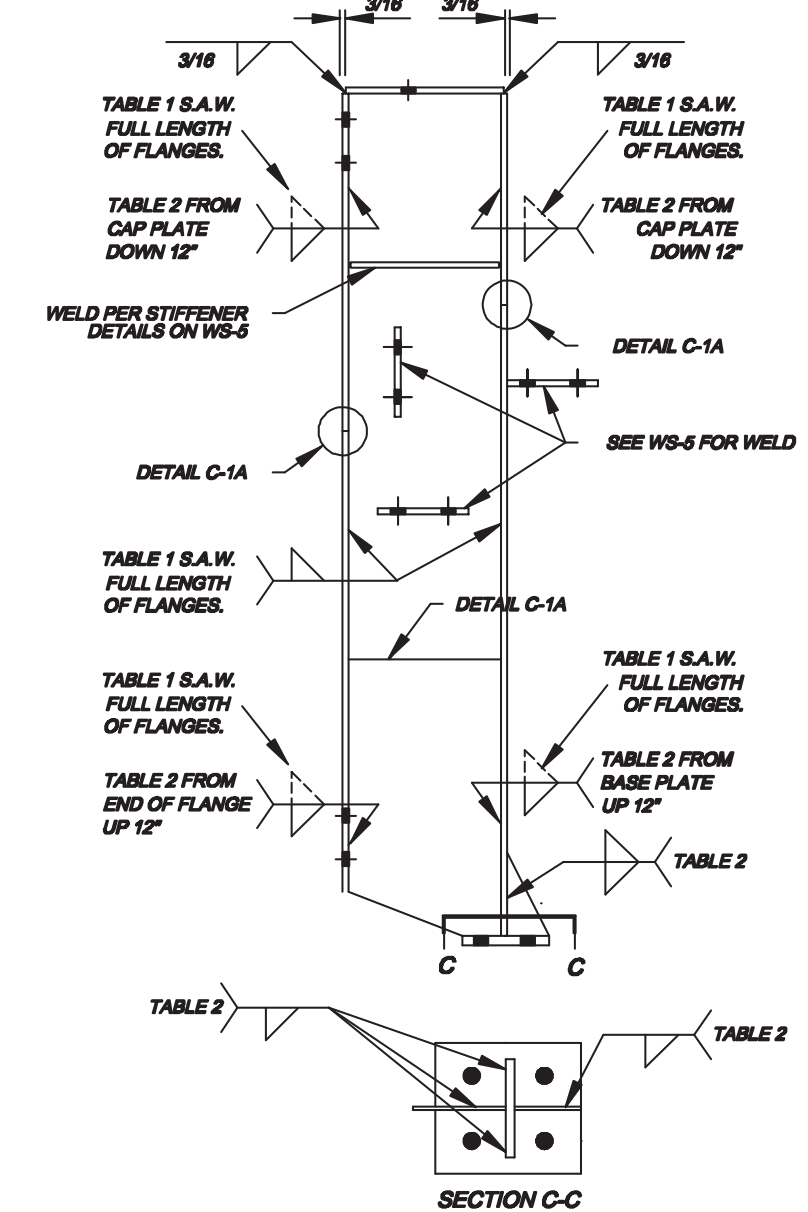
ANY PREQUALIFIED OR "PROCEDURE QUALIFIED" FULL PEN WELD MAY ALSO BE USED WITH COMPANY APPROVED WPS.



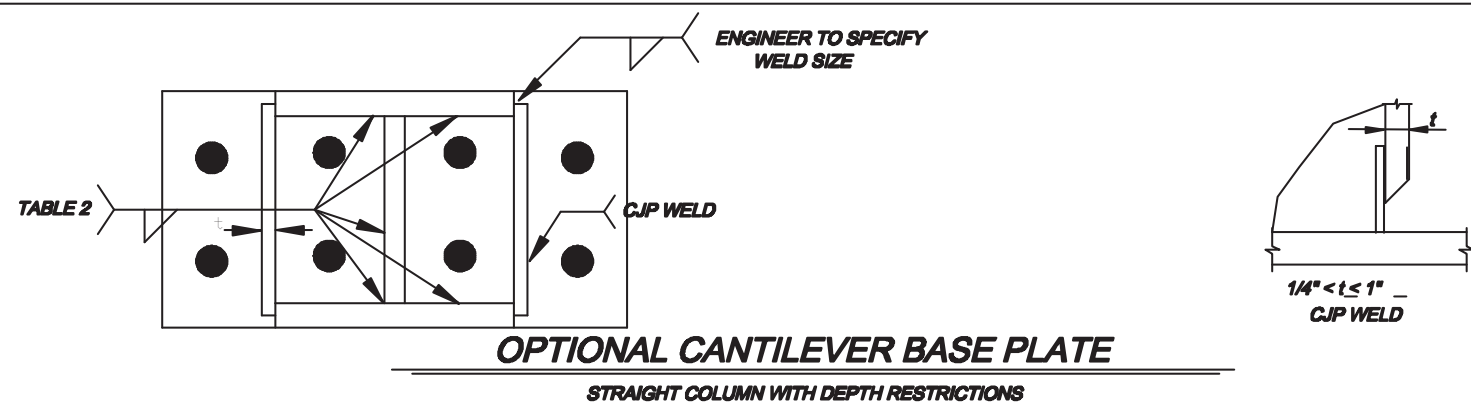
CANTILEVER COLUMN



B-B CANTILEVER BASE PLATE



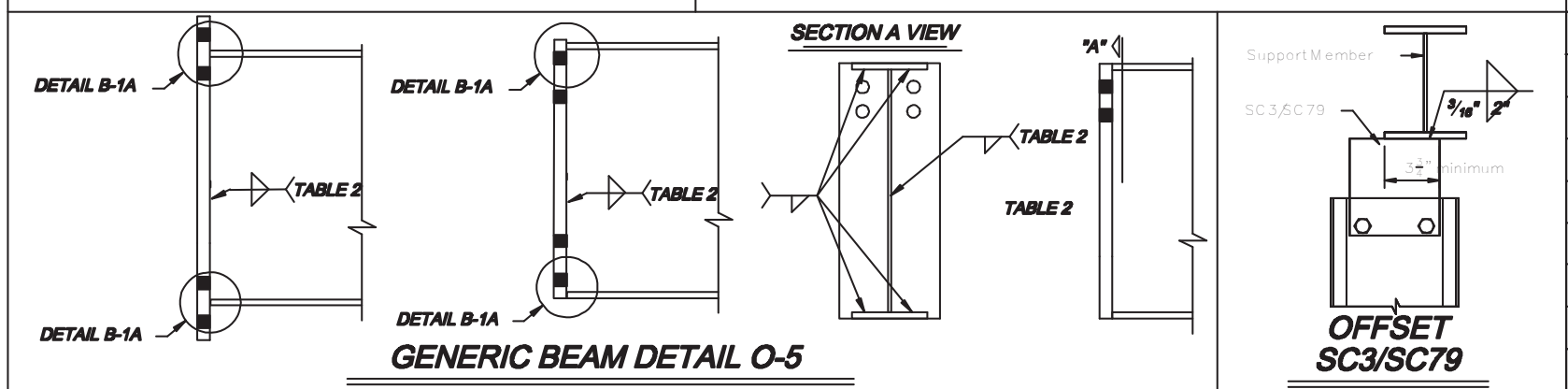
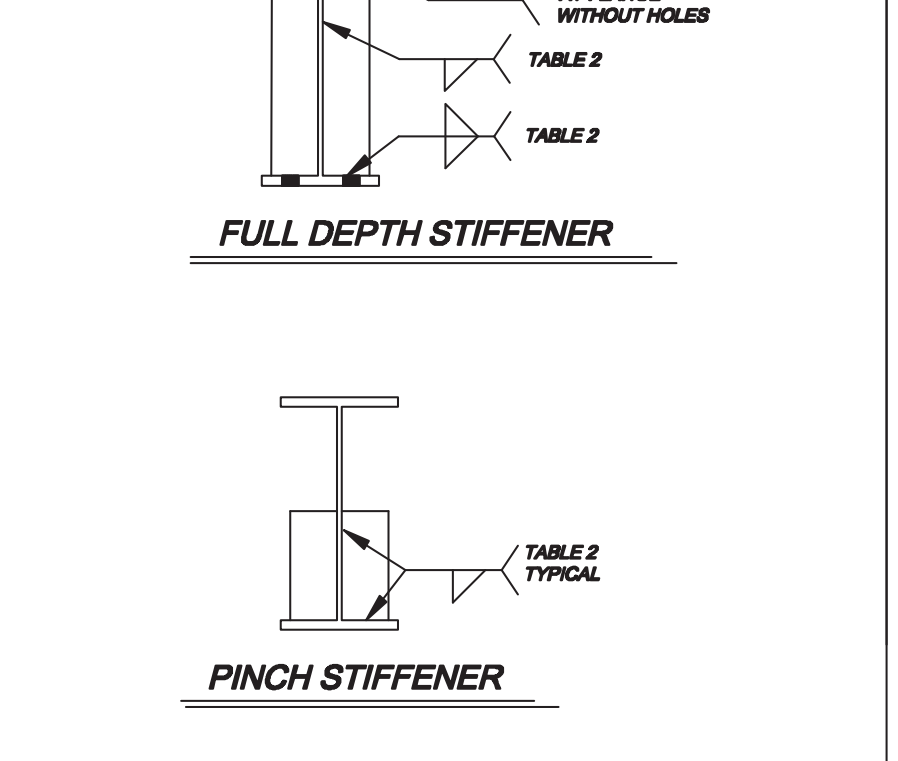
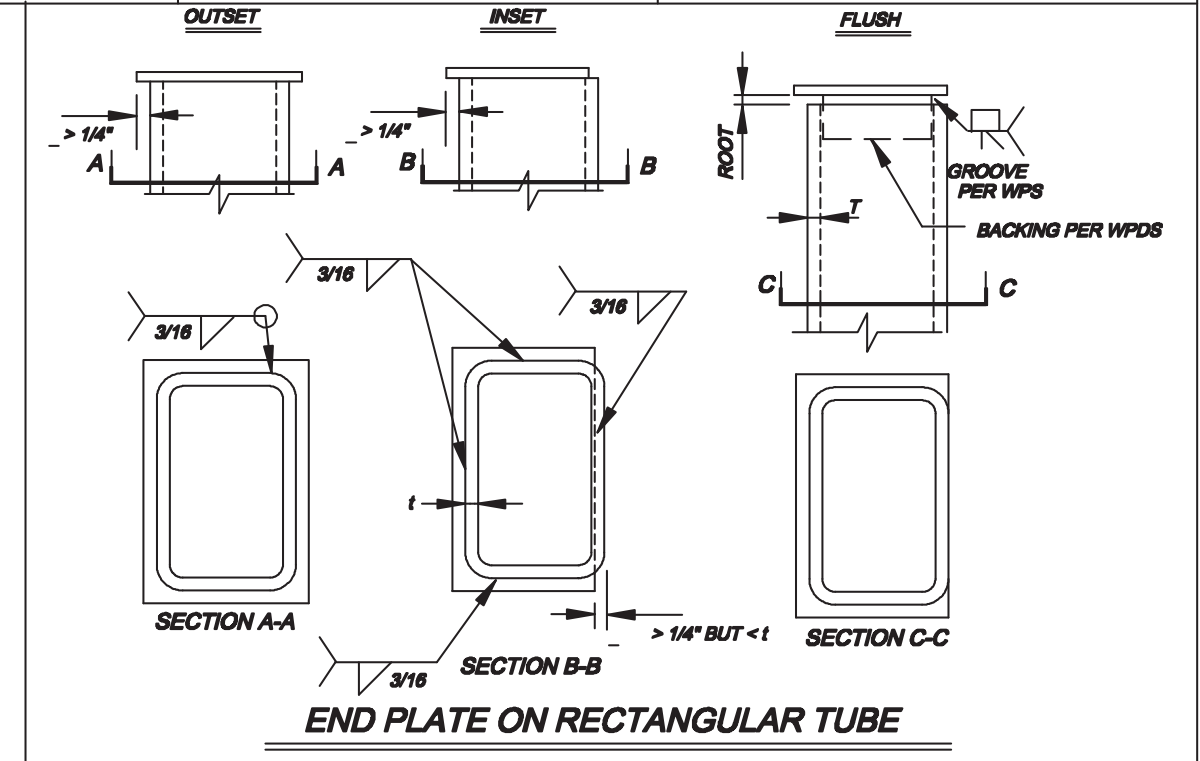
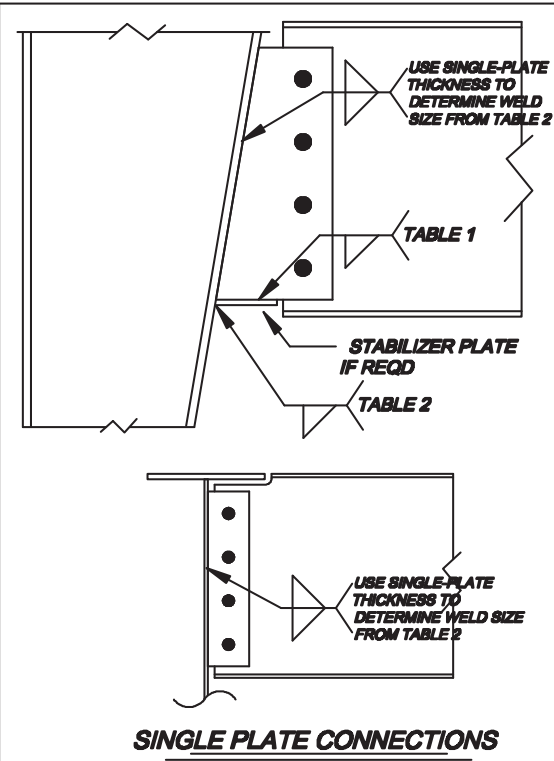
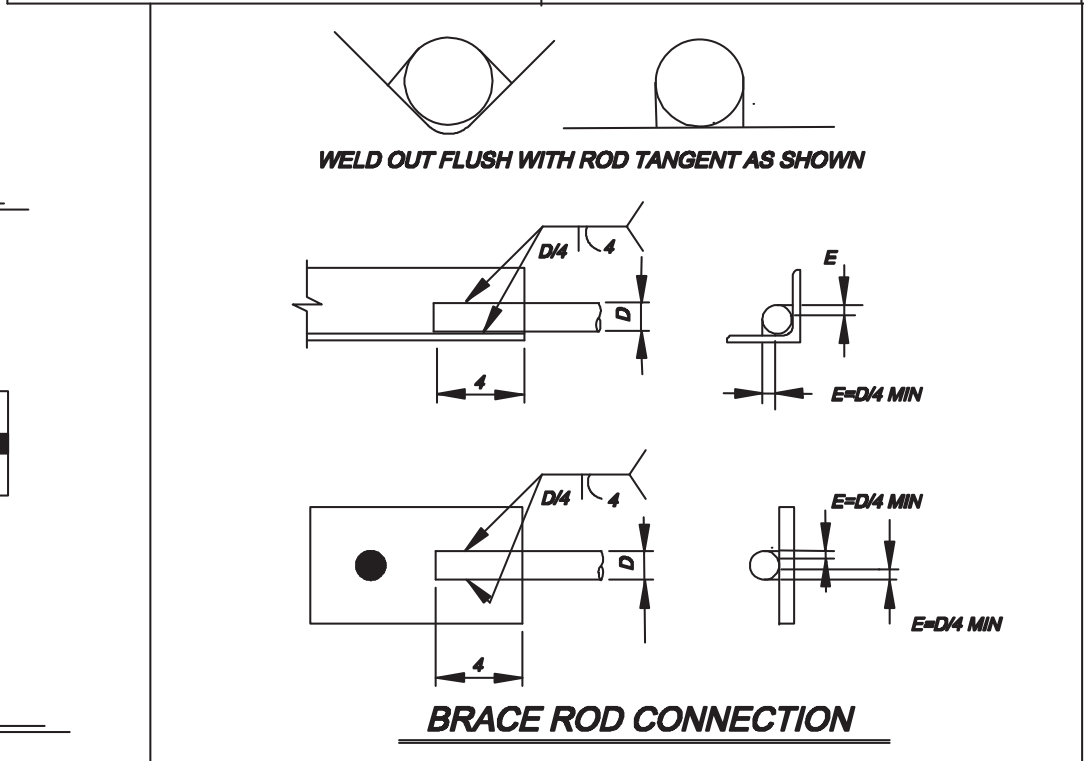
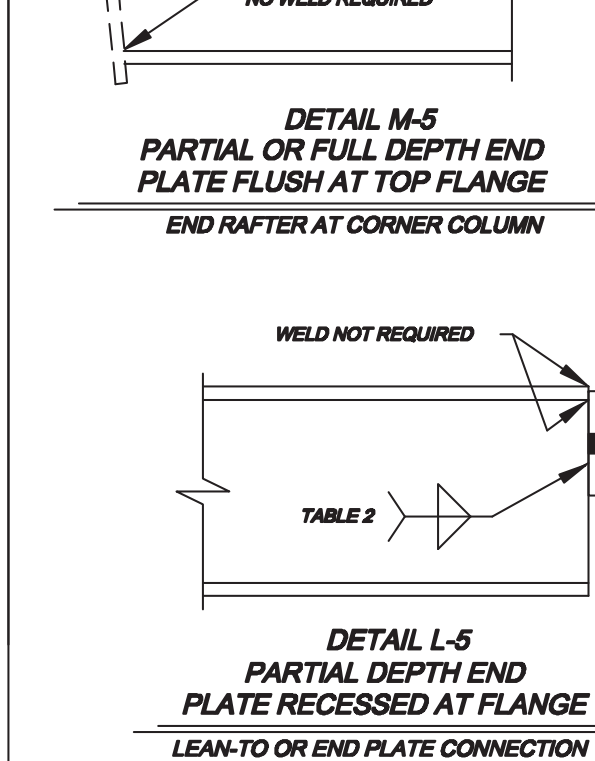
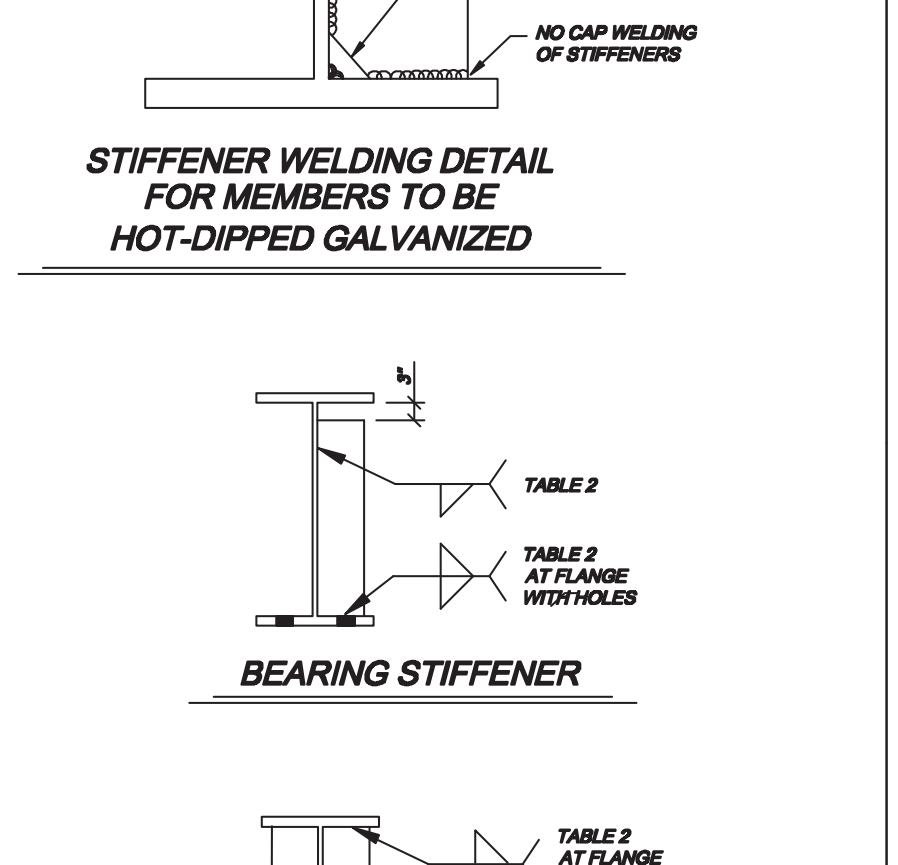
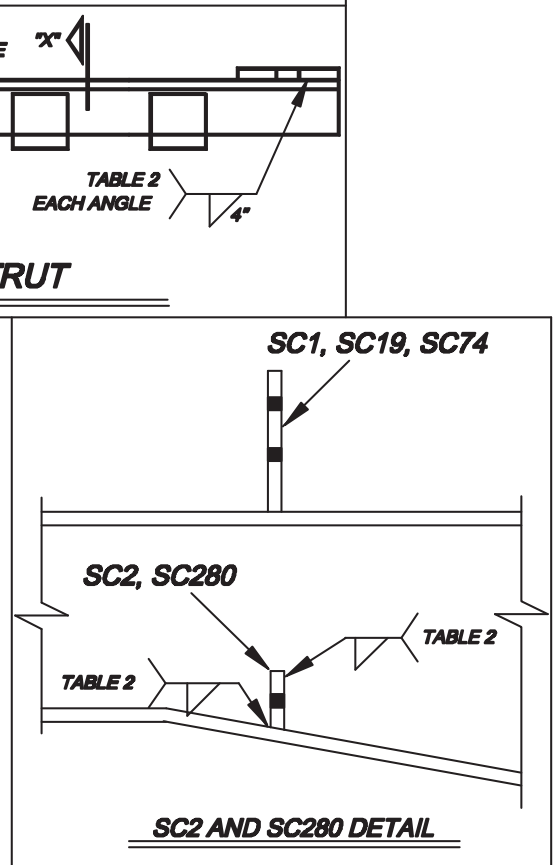
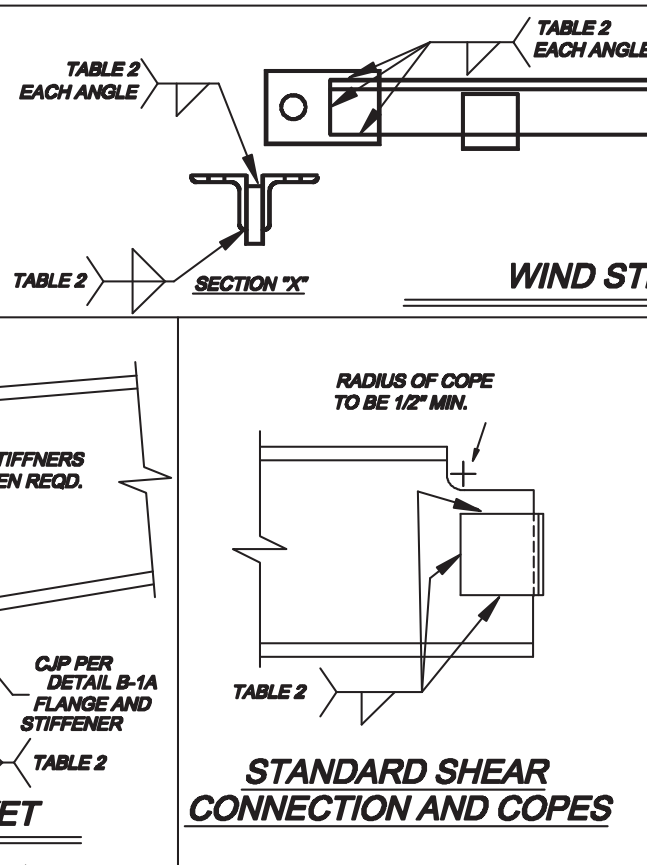
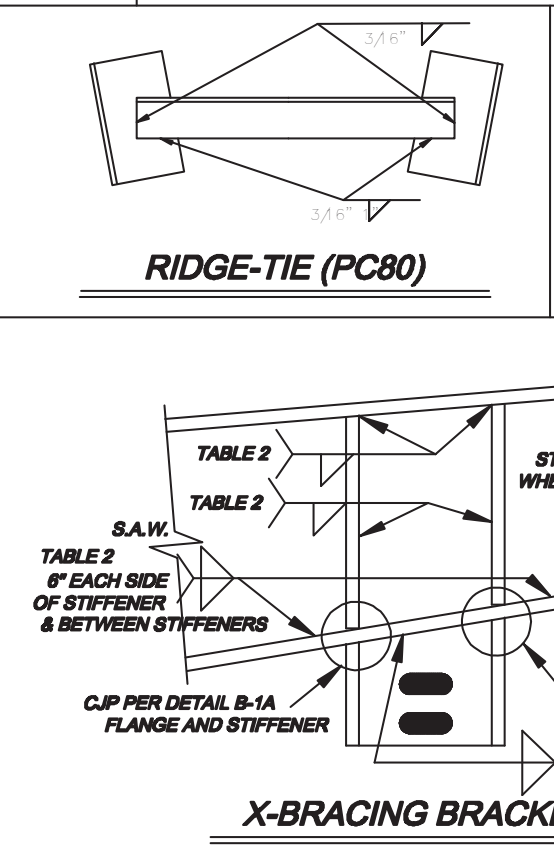
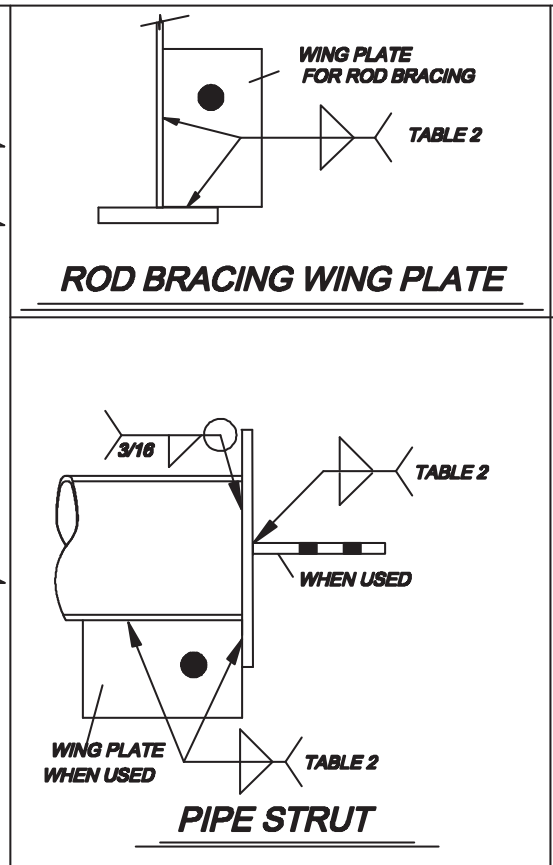
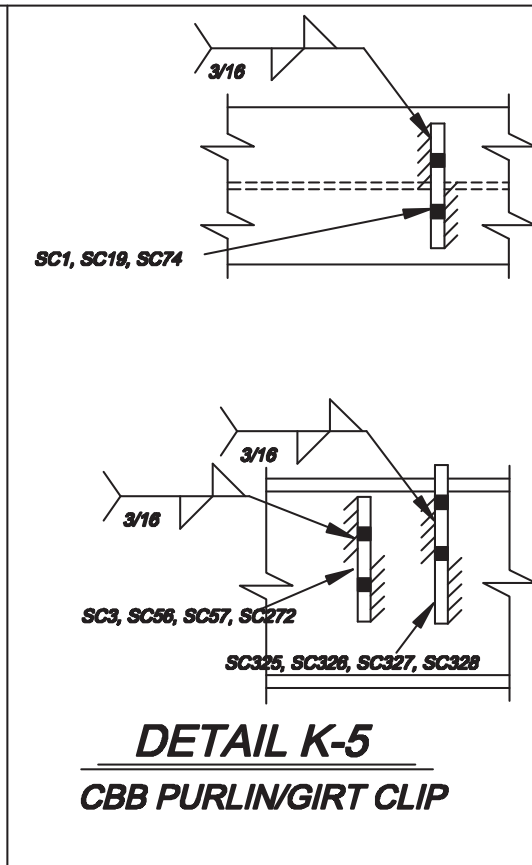
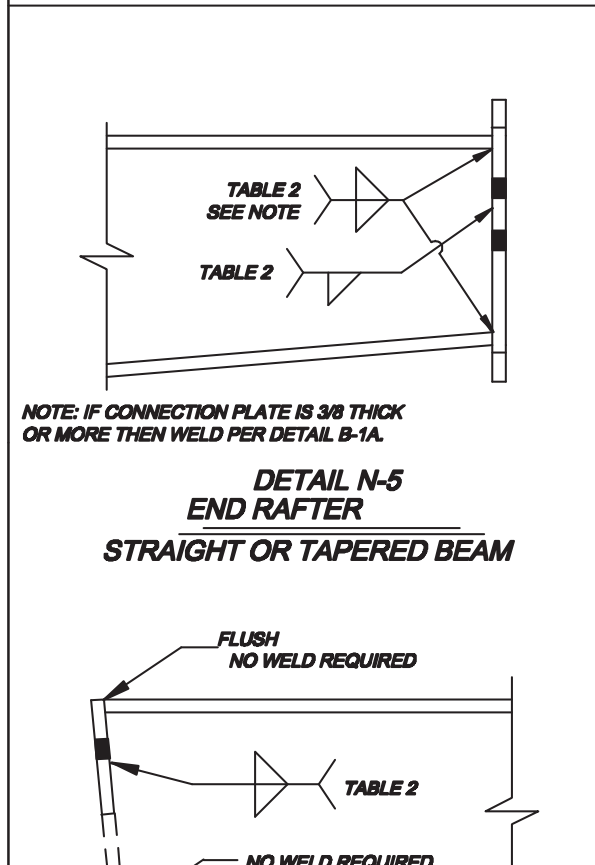
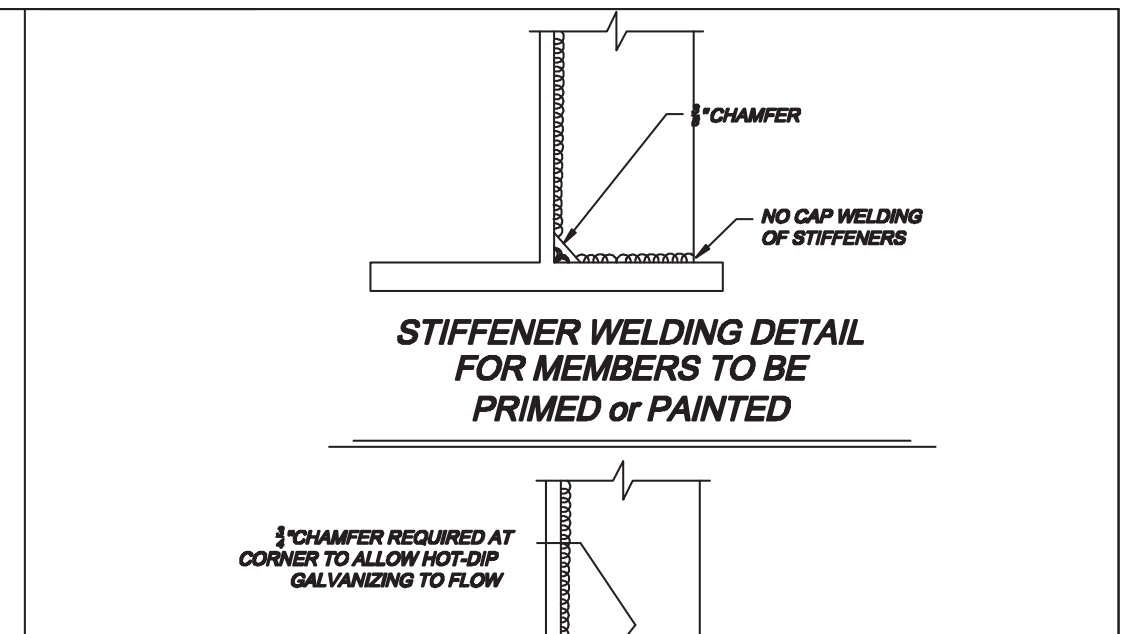
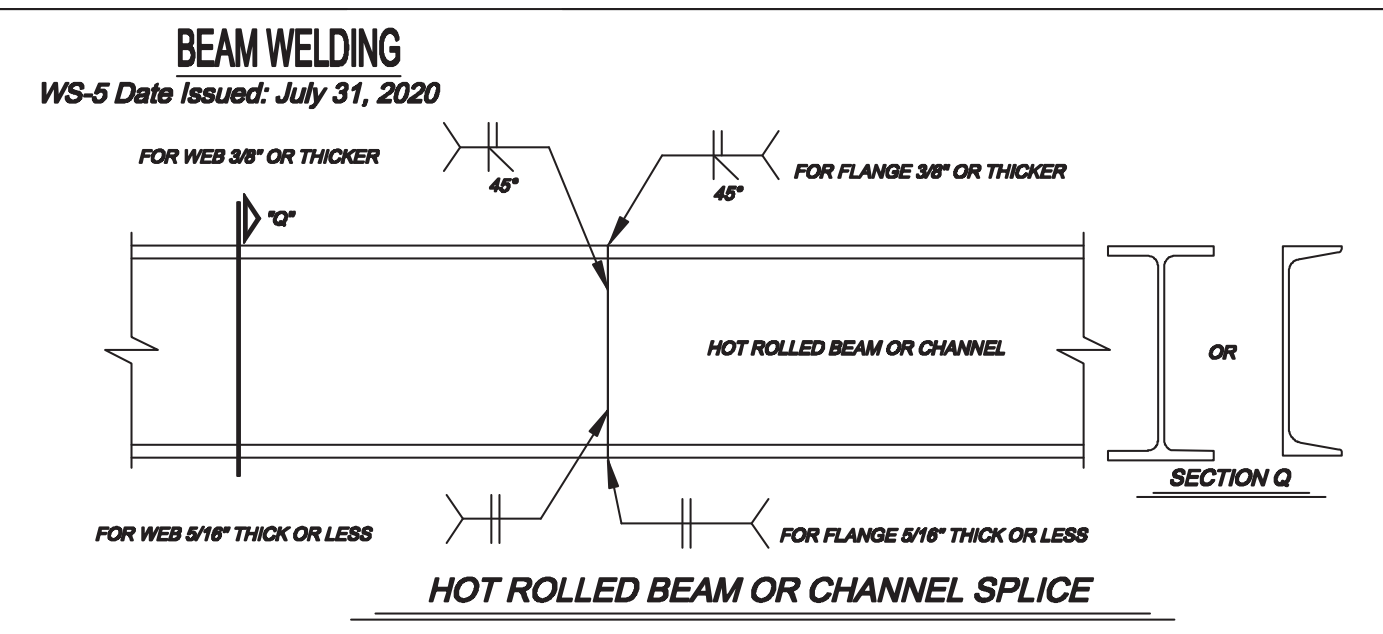
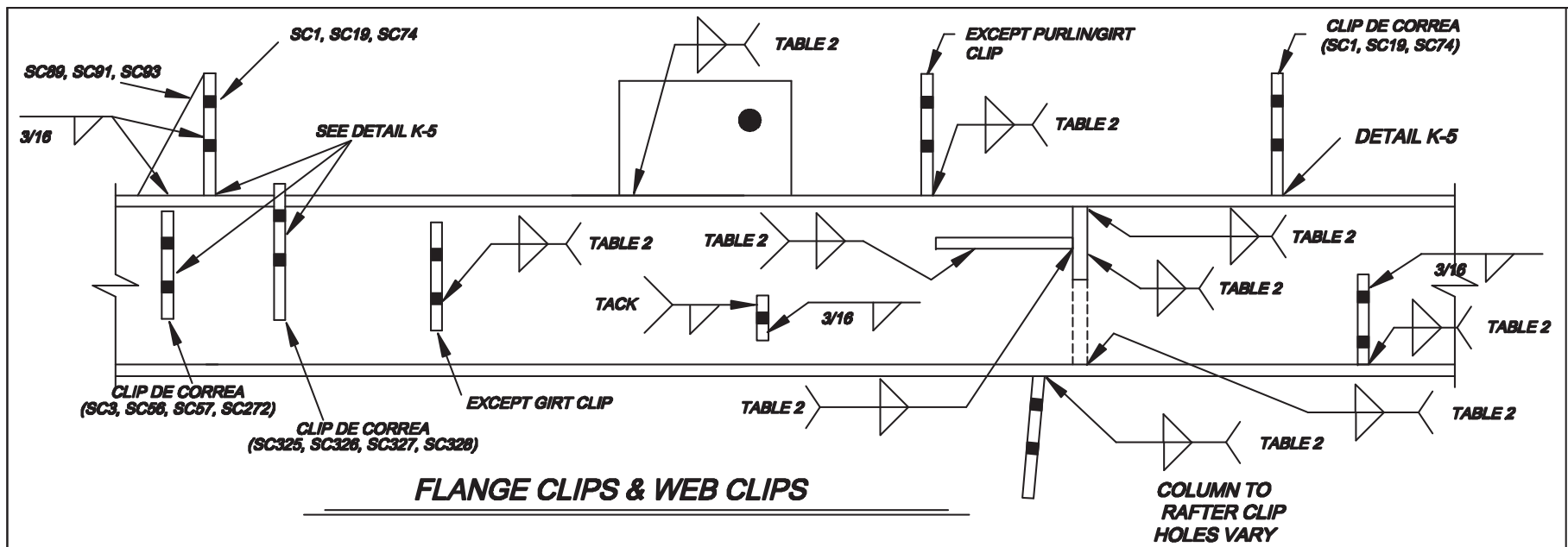
FIXED BASE CANTILEVER COLUMN



**OPTIONAL CANTILEVER BASE PLATE
STRAIGHT COLUMN WITH DEPTH RESTRICTIONS**

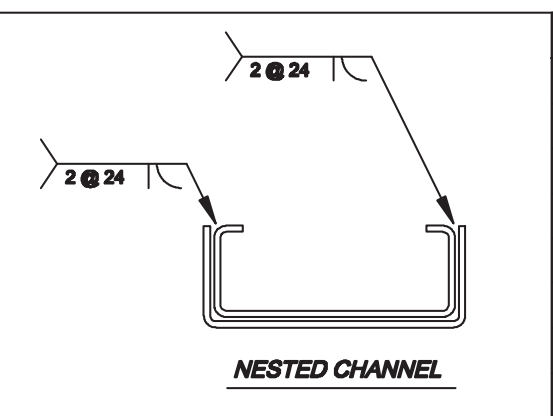
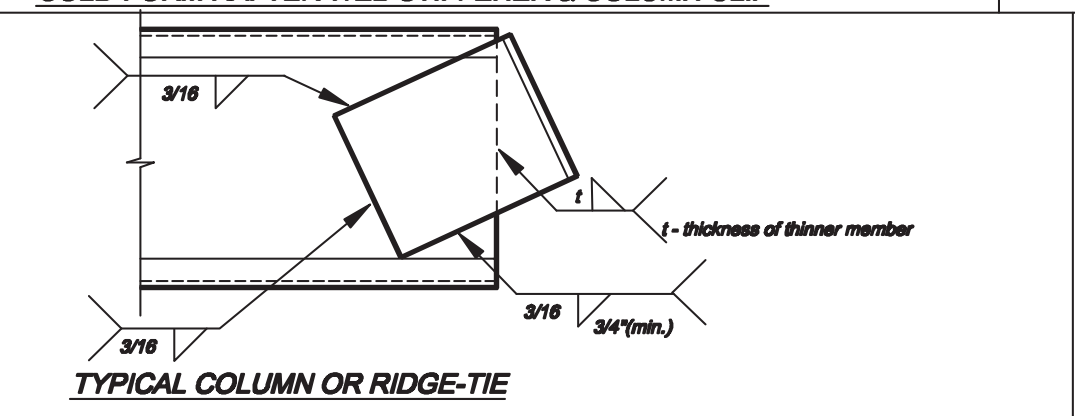
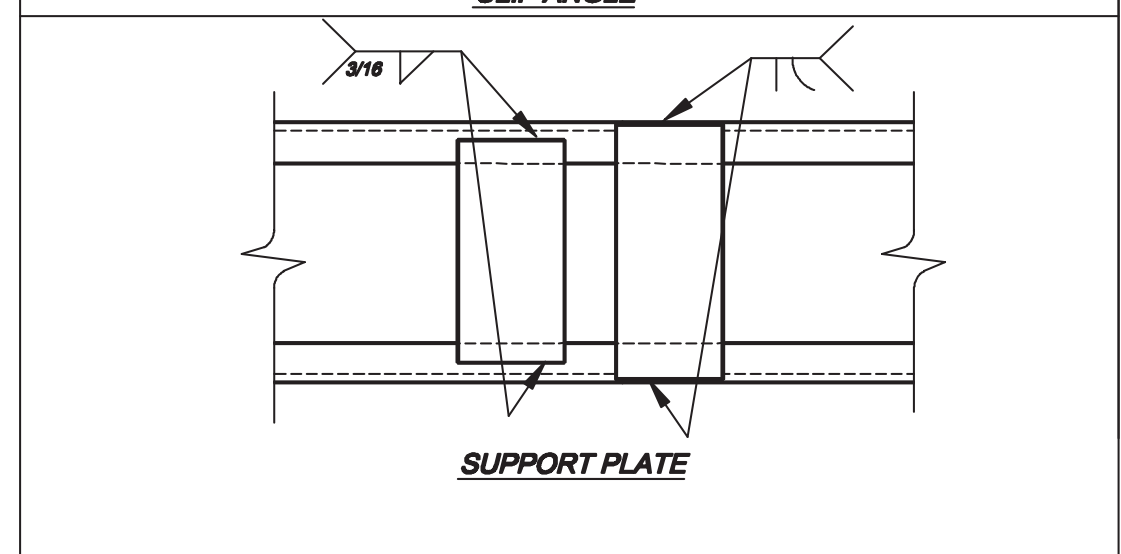
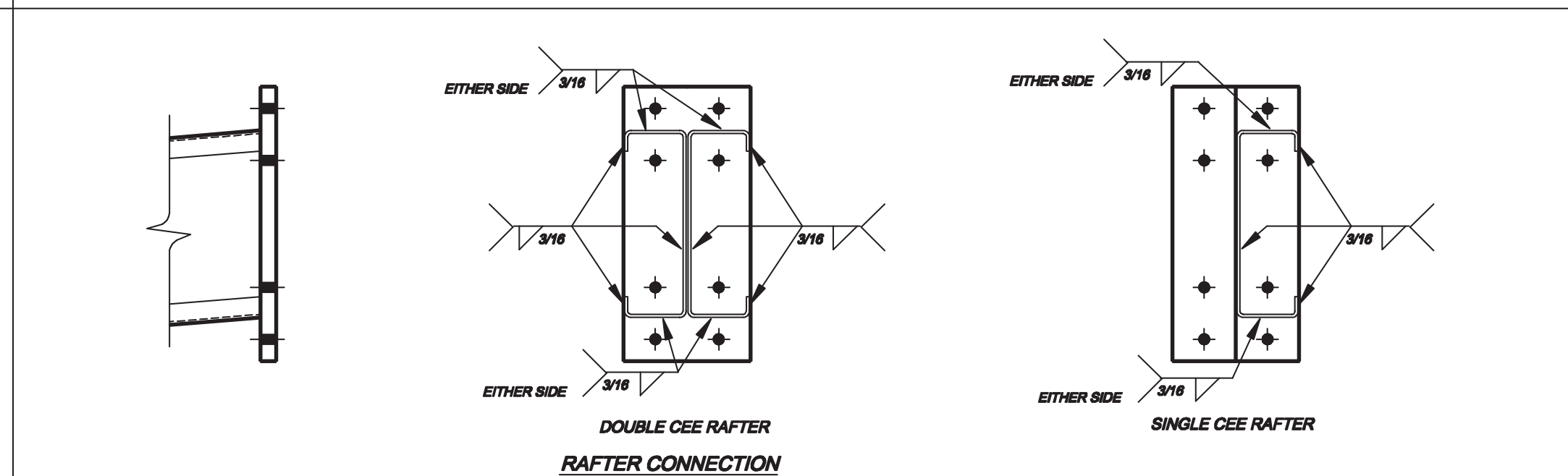
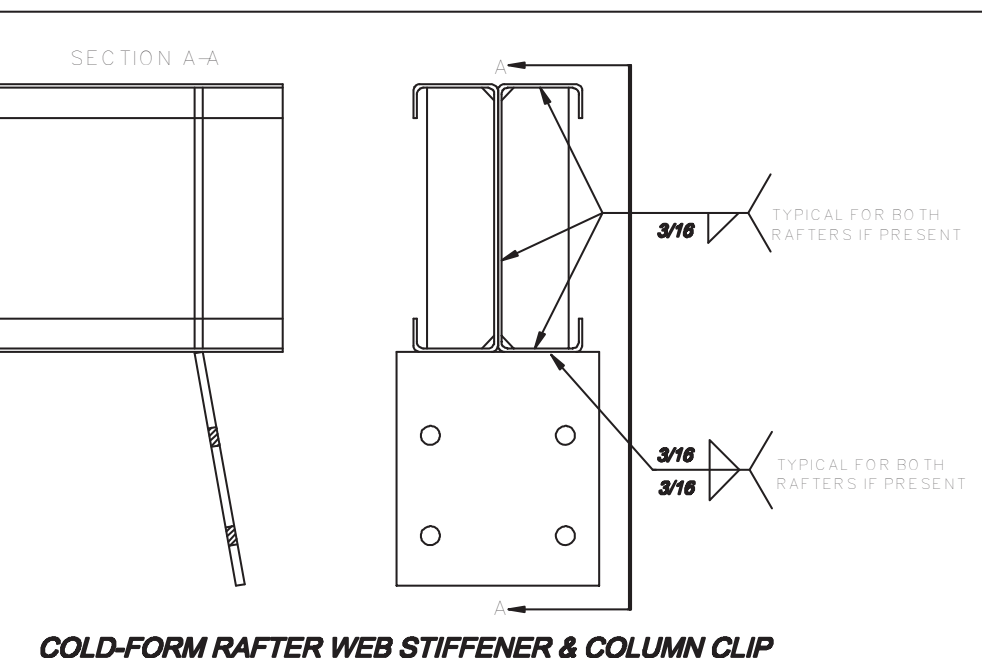
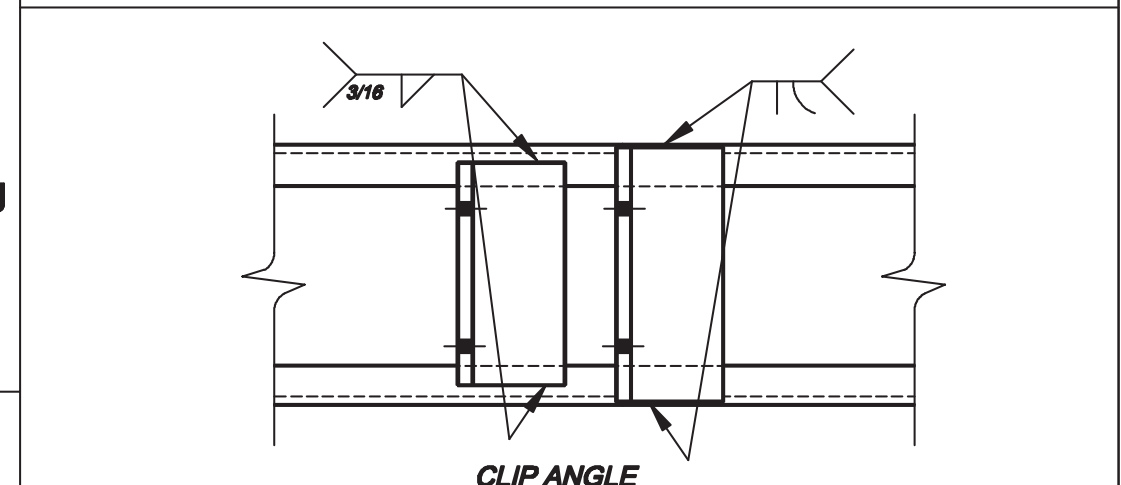
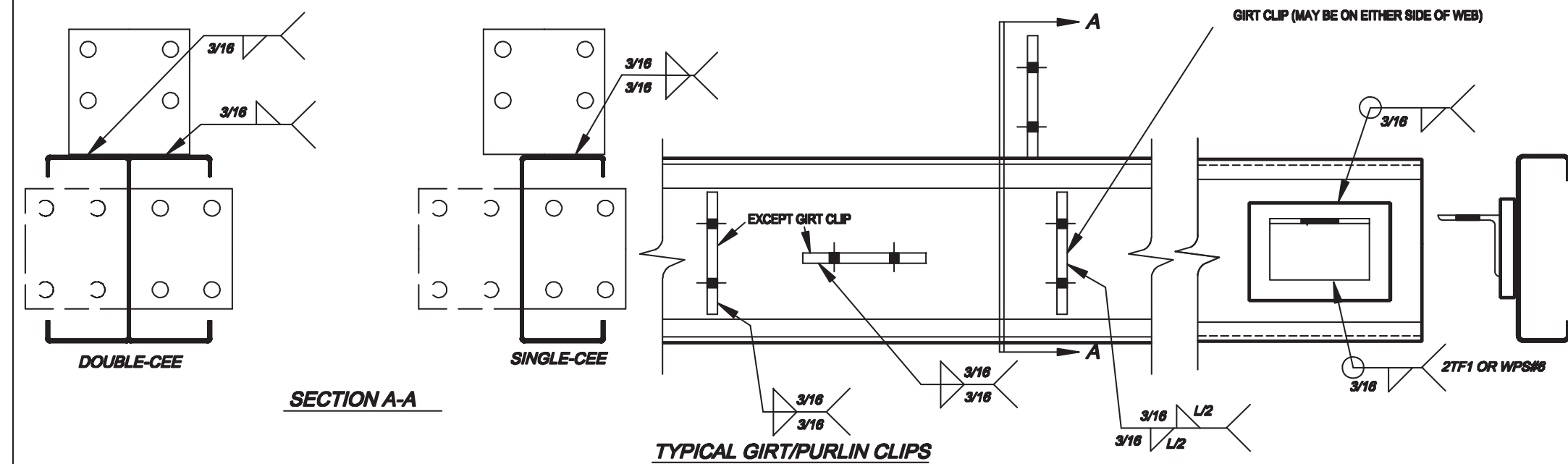
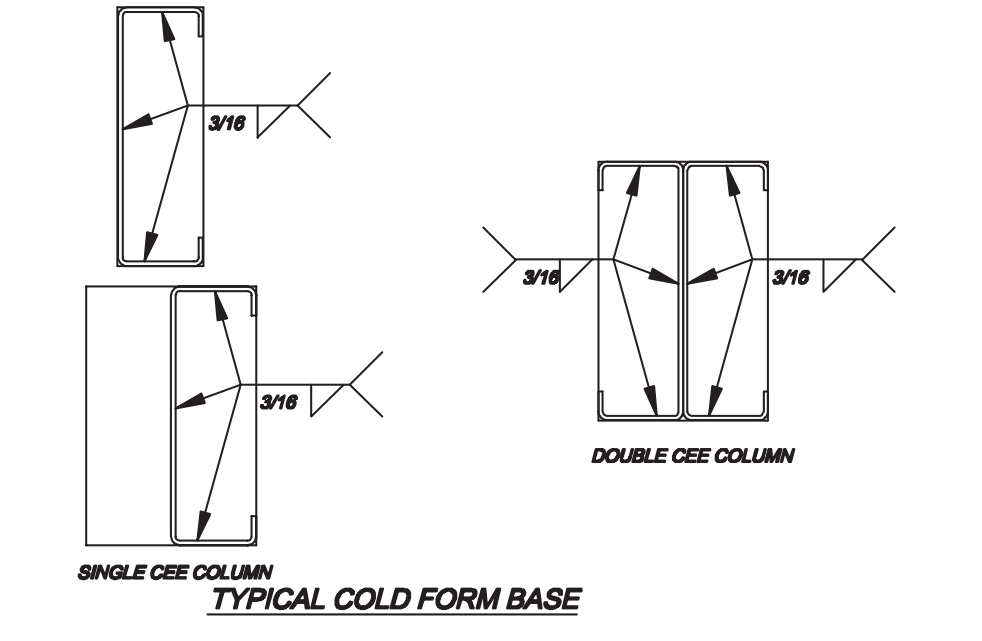
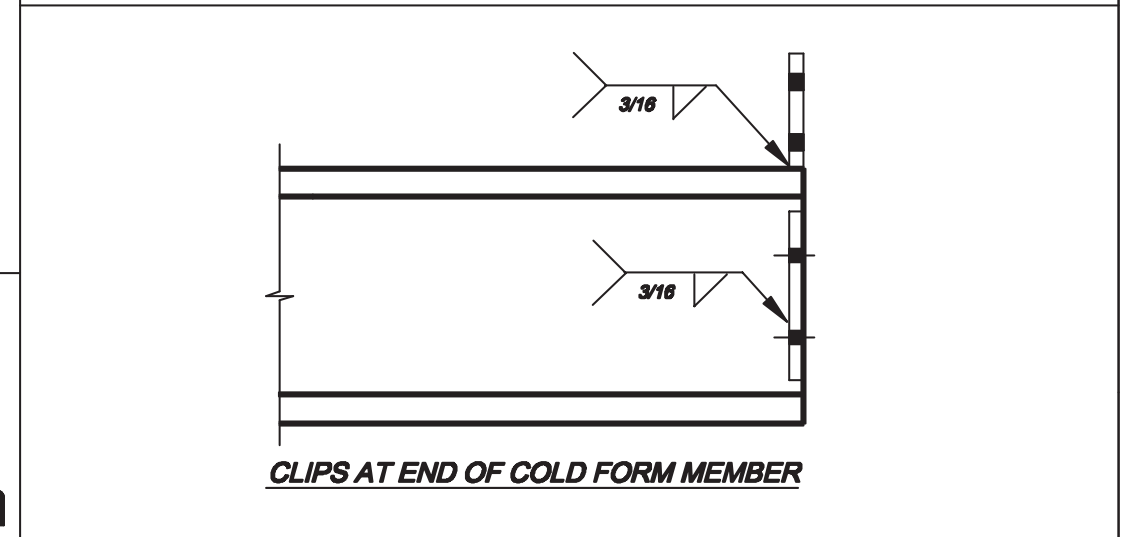
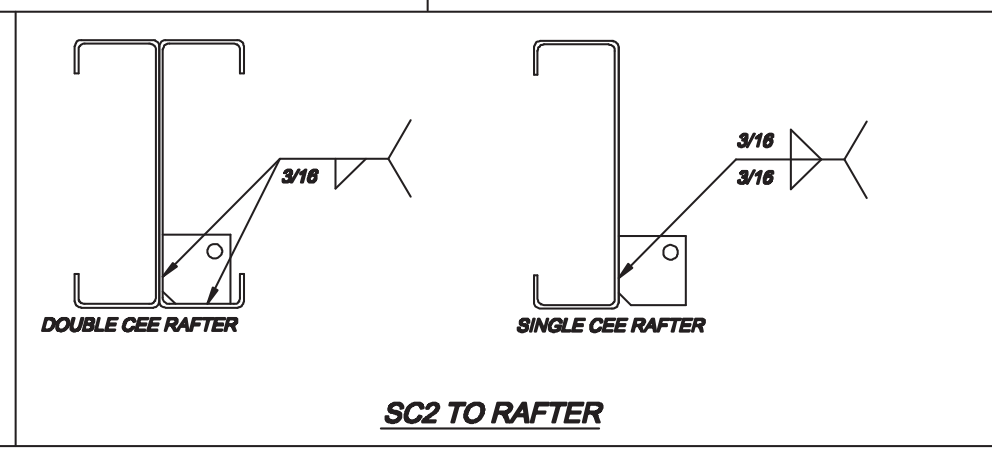
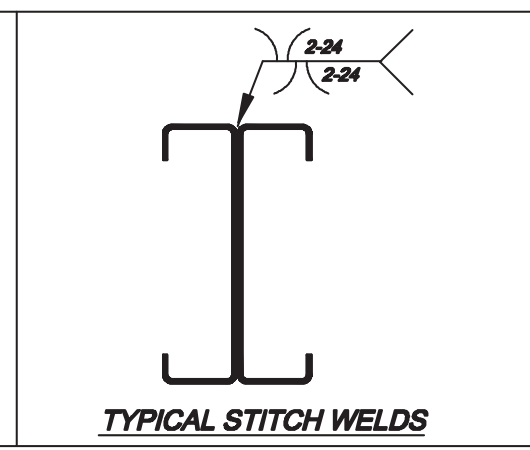
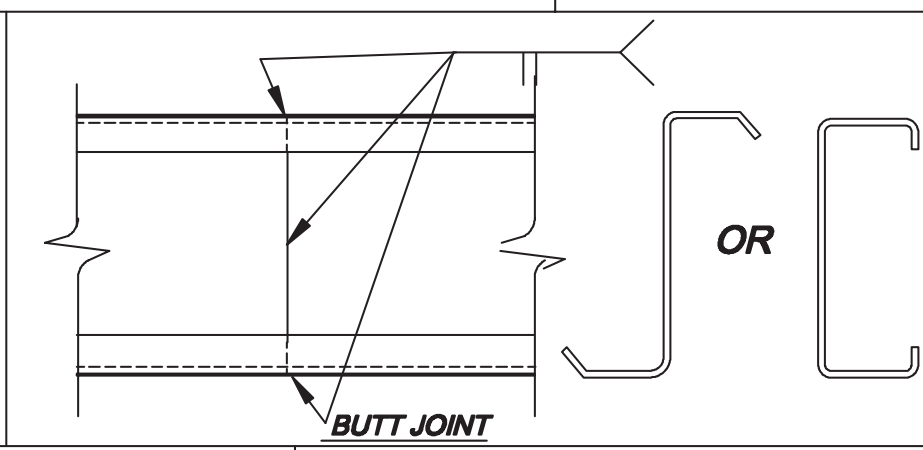
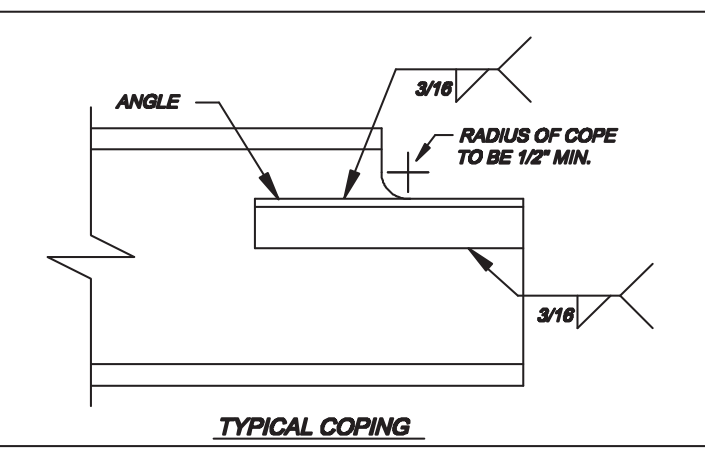
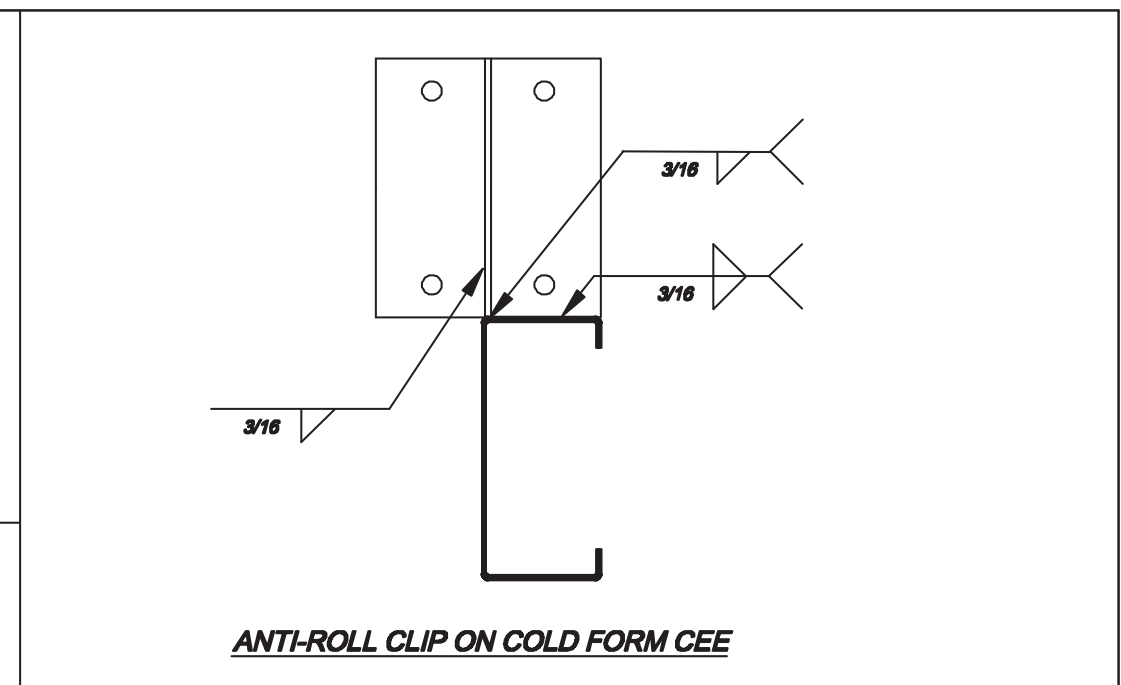
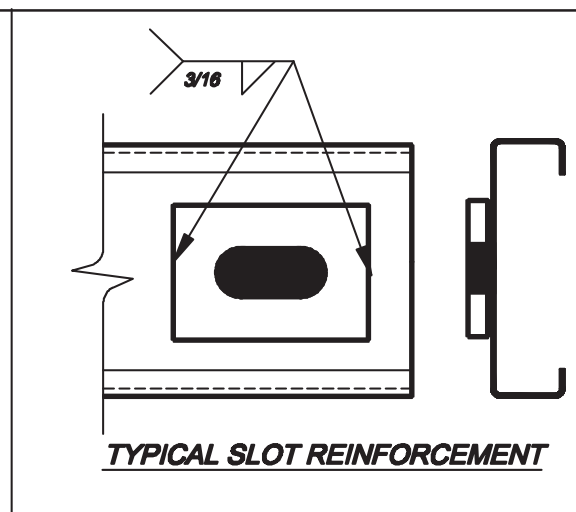
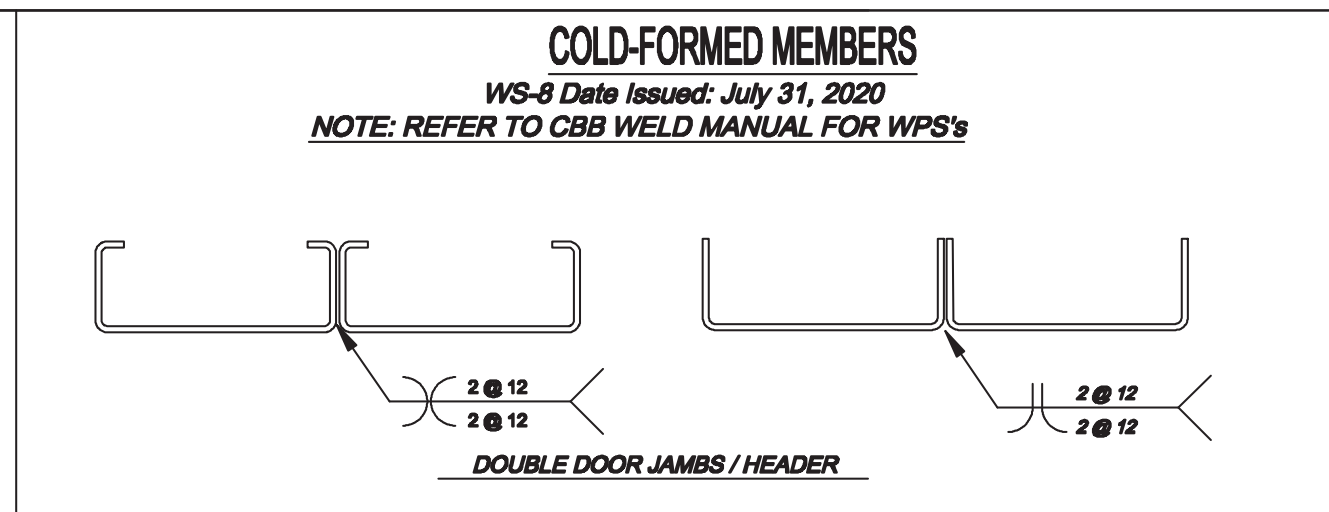
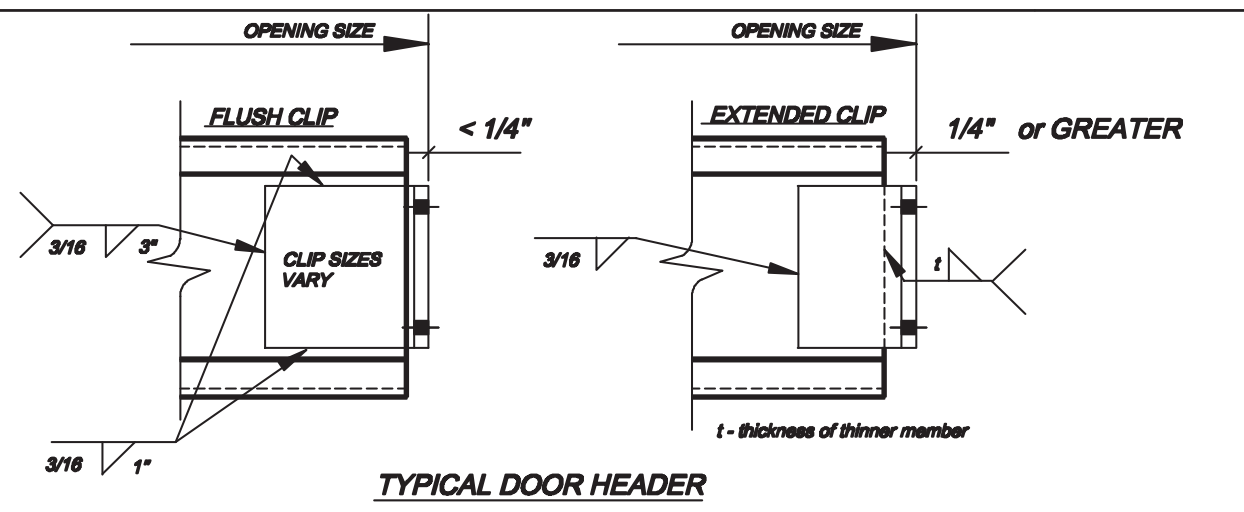
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PROJECT:							
CUSTOMER:							
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
		N.T.S.					



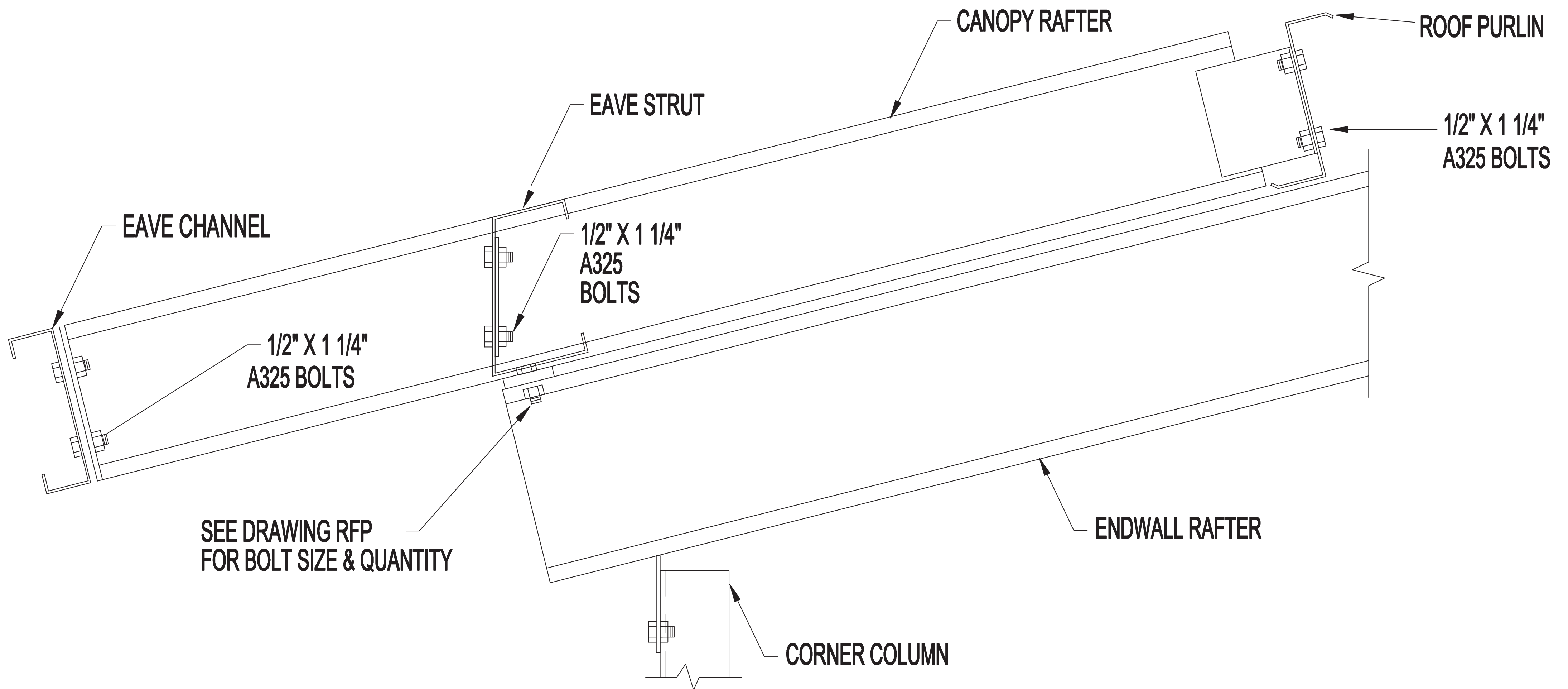
ISSUE	DATE	DESCRIPTION	BY	CKD	DSN

PROJECT:		OWNER:					
CUSTOMER:							
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
		N.T.S.					



ISSUE	DATE	DESCRIPTION	BY	CKD	DSN

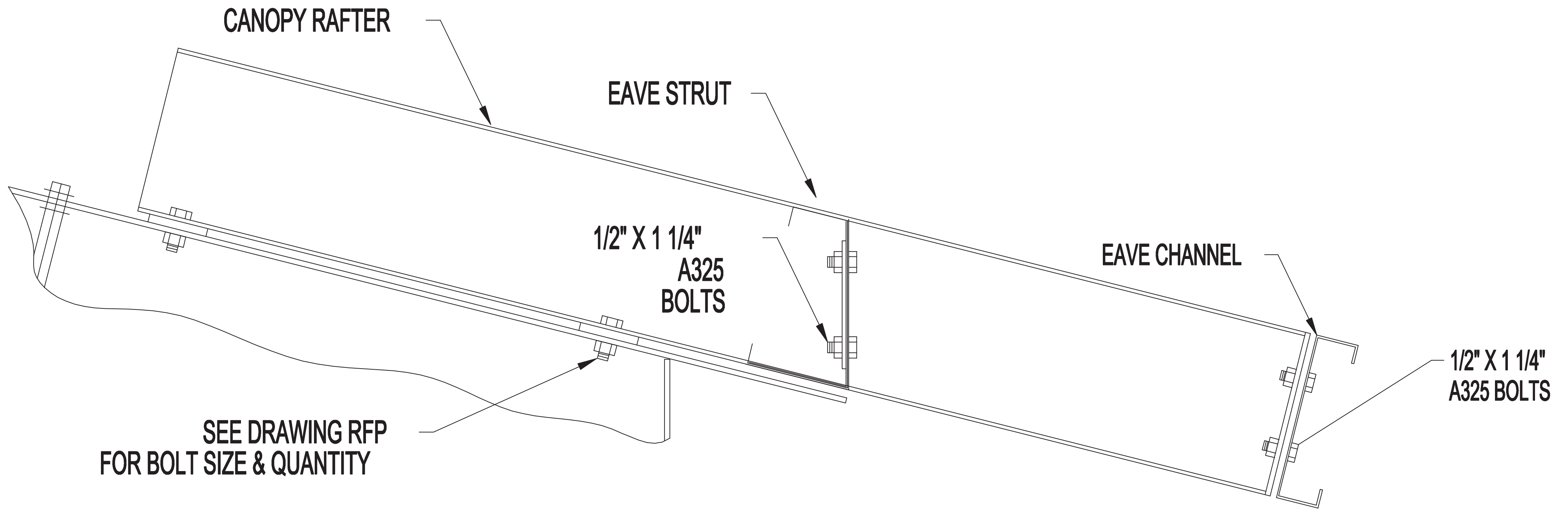
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CUSTOMER:							
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
		N.T.S.					



SEE DRAWING RFP
FOR BOLT SIZE & QUANTITY

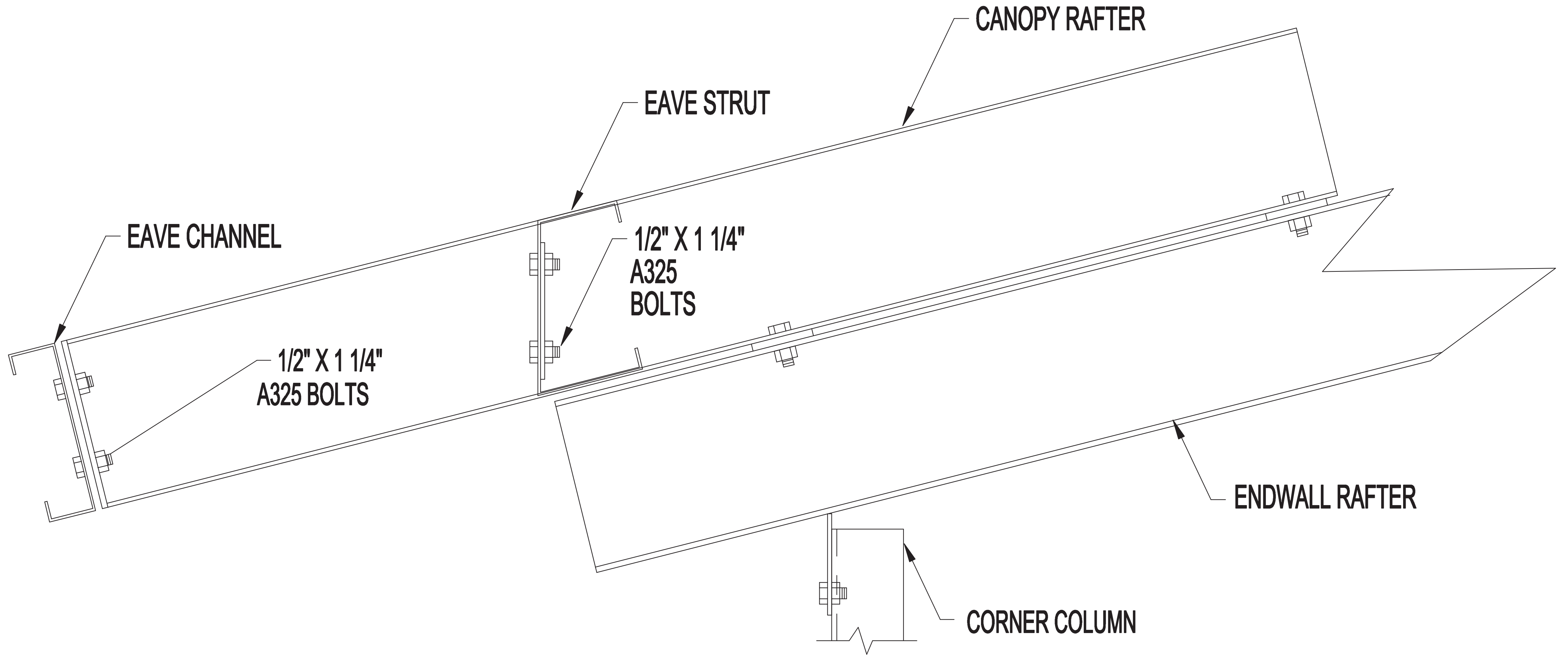
EAVE CANOPY AT "C" ENDWALL RAFTER

X2



EAVE CANOPY AT MAIN FRAME

X3

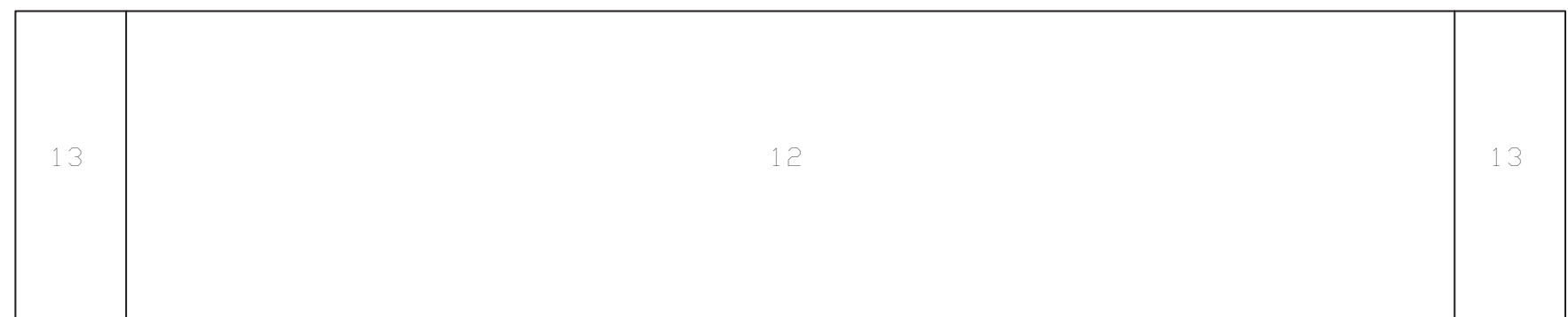
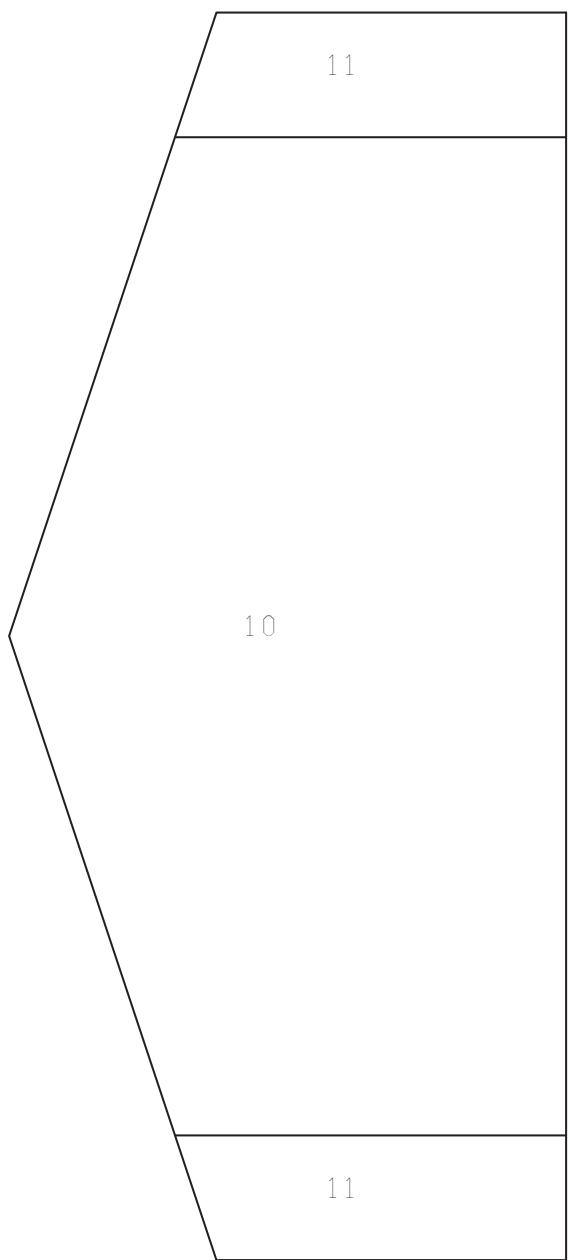
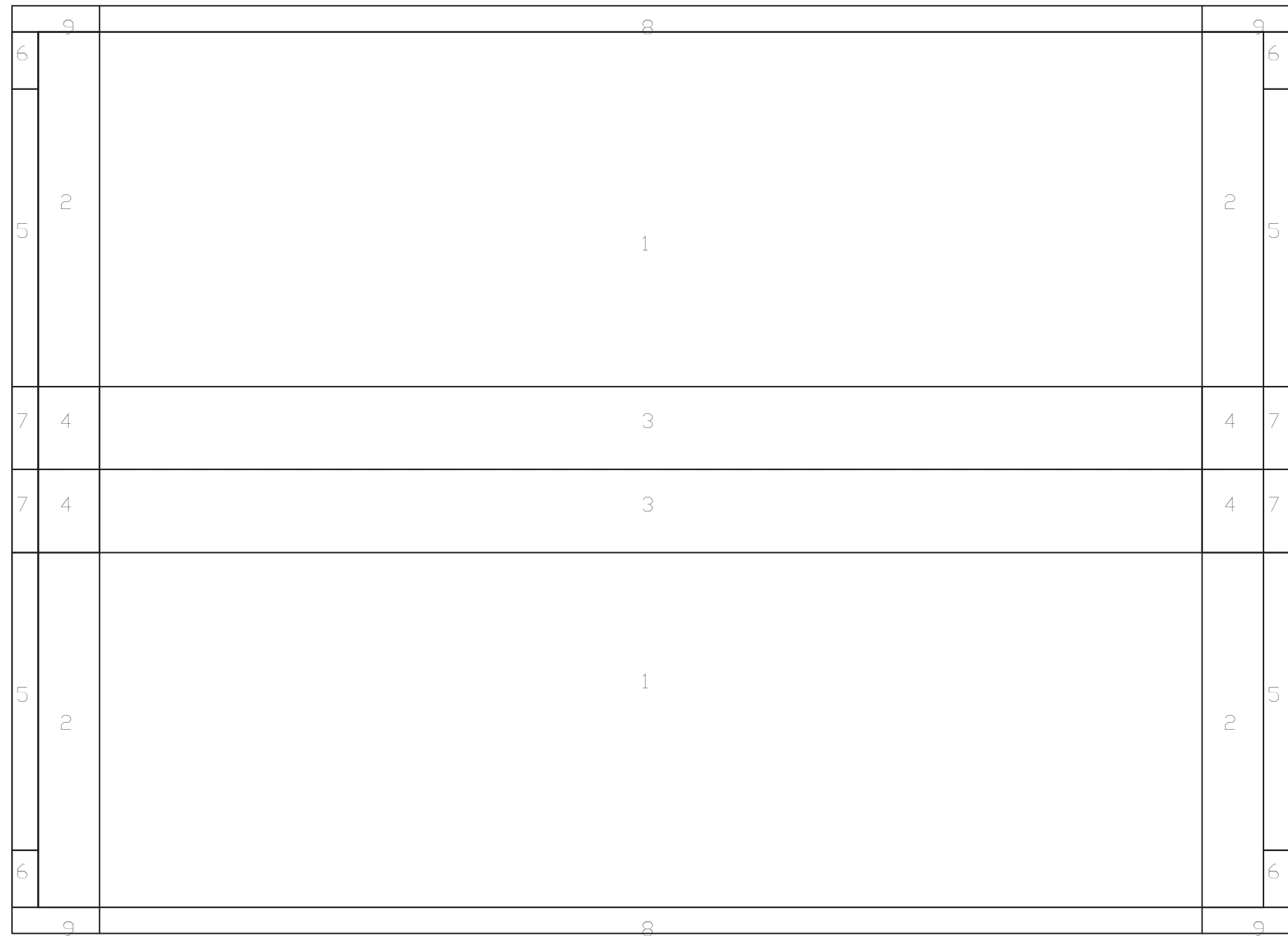
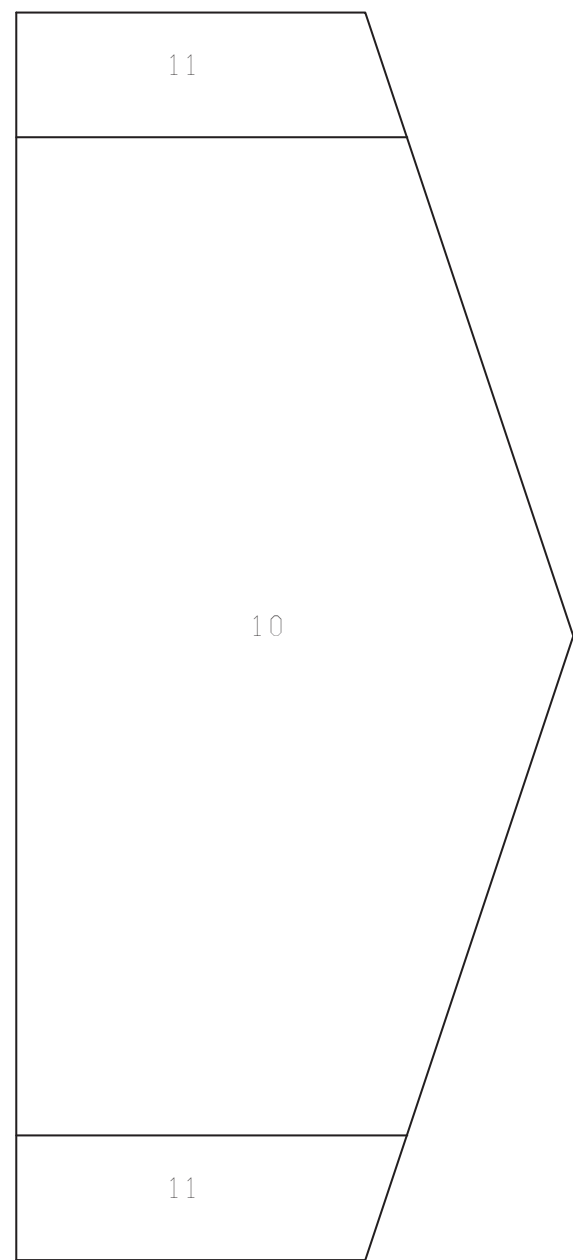
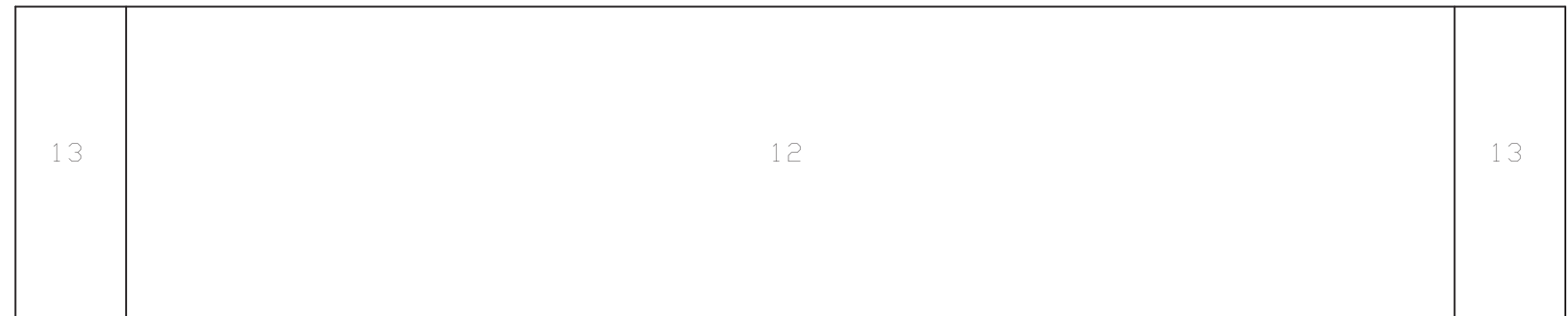


EAVE CANOPY AT HOT ROLLED ENDWALL RAFTER

X4

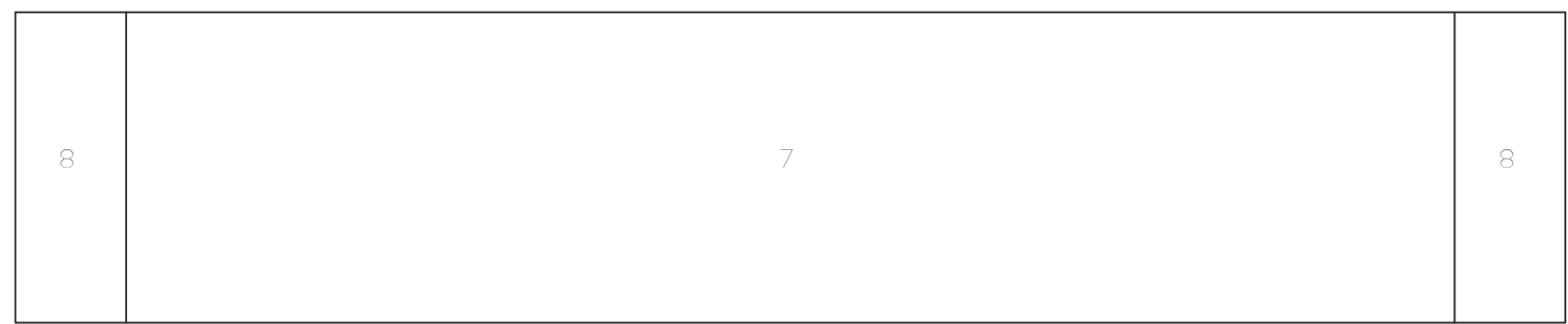
EXTENSION2





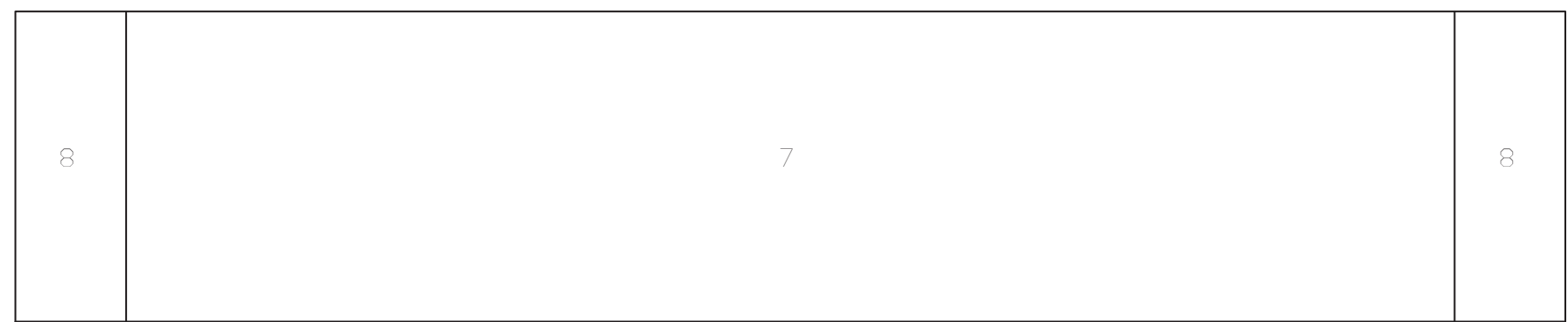
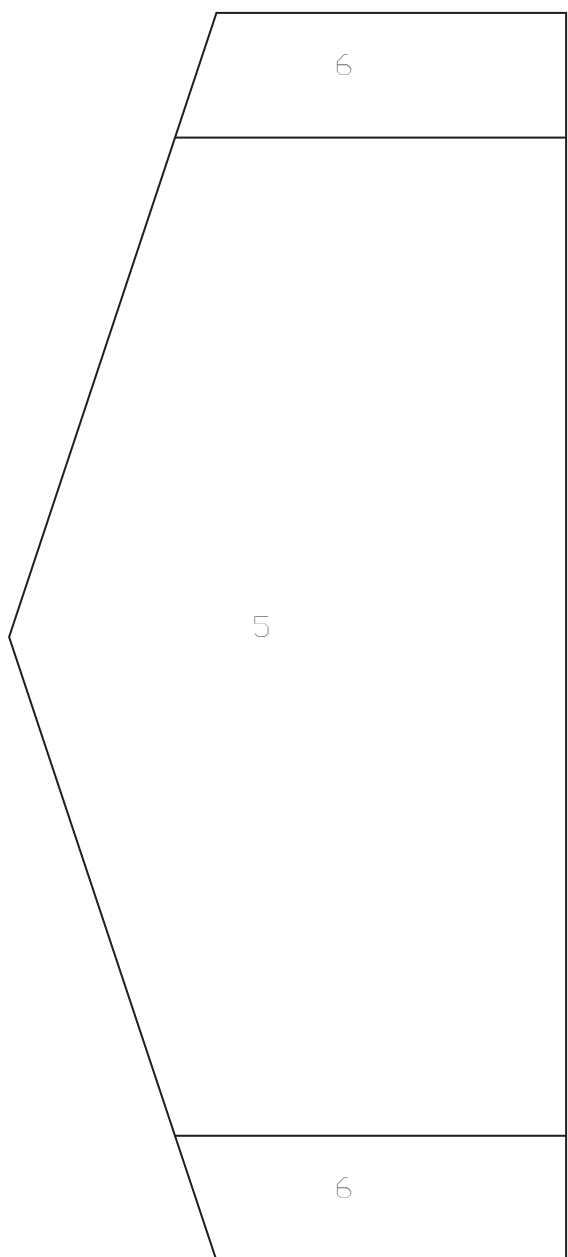
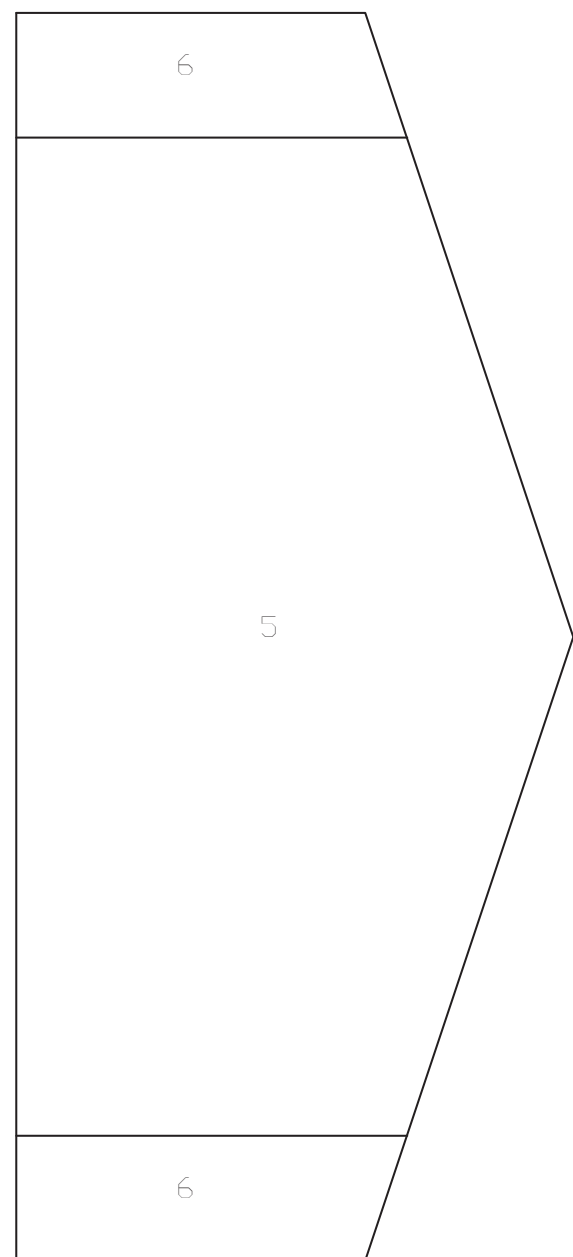
Zone	Width (ft)	Length (ft)	Components & Cladding (Factored)		Suction (psf)	
			Pressure (psf) Member	Panel	Member	Panel
1			7.20	7.20	-9.60	-21.20
2		3.50	7.20	7.20	-15.26	-30.95
3	5.00		7.20	7.20	-15.26	-30.95
4	5.00	3.50	7.20	7.20	-19.30	-36.67
5	17.93	1.50	7.20	7.20	-30.91	-34.13
6	3.42	1.50	7.20	7.20	-34.46	-39.85
7	5.00	1.50	7.20	7.20	-38.69	-45.79
8	1.50	63.00	7.20	7.20	-14.59	-24.31
9	1.50	5.00	7.20	7.20	-19.55	-39.87
10			9.60	11.47	-10.52	-12.45
11	5.00		9.60	11.47	-11.46	-15.31
12			9.60	11.46	-10.50	-12.42
13	5.00		9.60	11.46	-11.45	-15.28

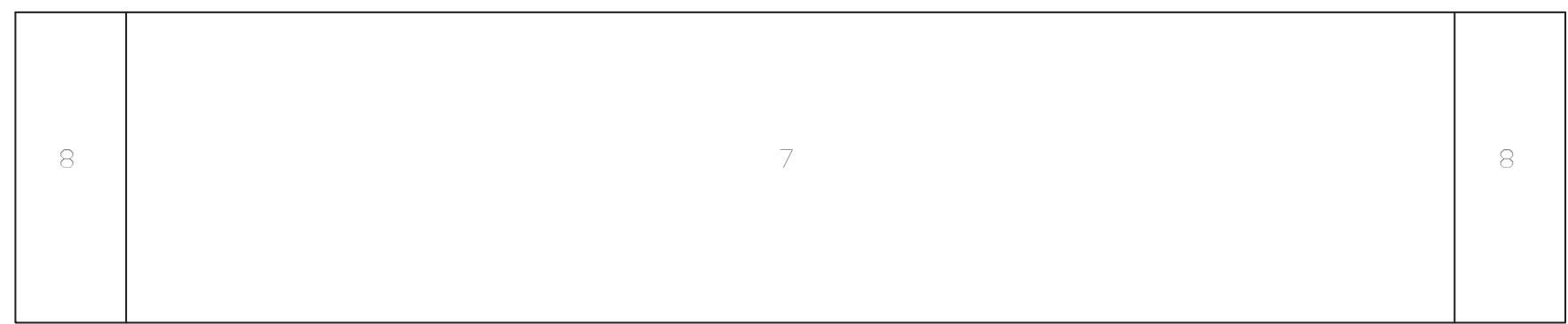
(+) wind towards surface
 (-) wind away from surface



Zone	Width (ft)	Length (ft)	Components & Cladding		(Factored)	
			Pressure(psf) Member	Panel	Suction(psf) Member	Panel
1			7.20	7.20	-9.60	-21.20
2	26.35		0.00	0.00	0.00	0.00
3	1.50	63.00	7.20	7.20	-14.59	-24.31
4	1.50	5.00	7.20	7.20	-19.55	-39.87
5			9.60	11.47	-10.52	-12.45
6	5.00		9.60	11.47	-11.46	-15.31
7			9.60	11.46	-10.50	-12.42
8	5.00		9.60	11.46	-11.45	-15.28

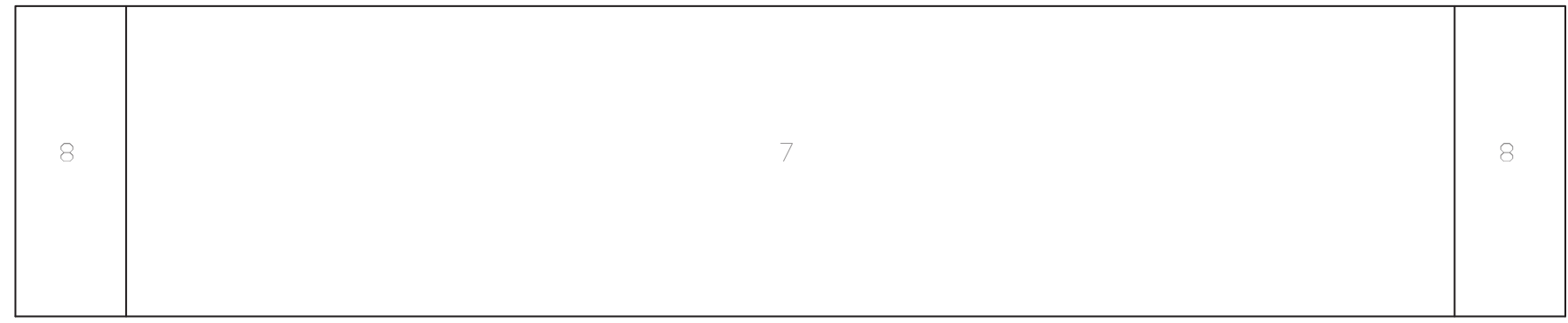
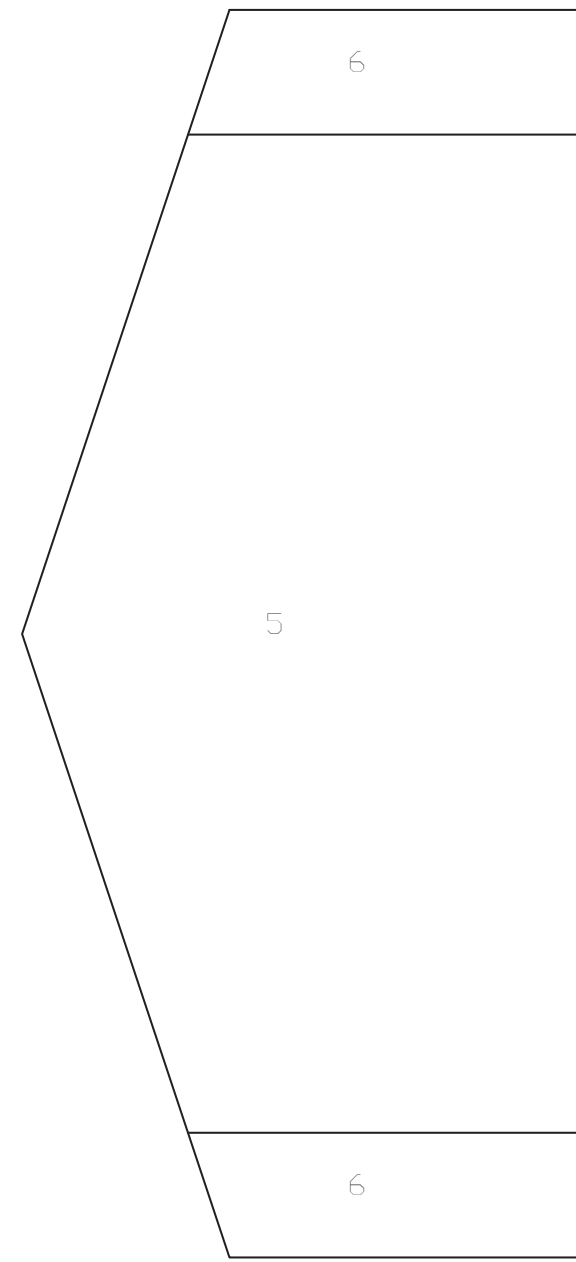
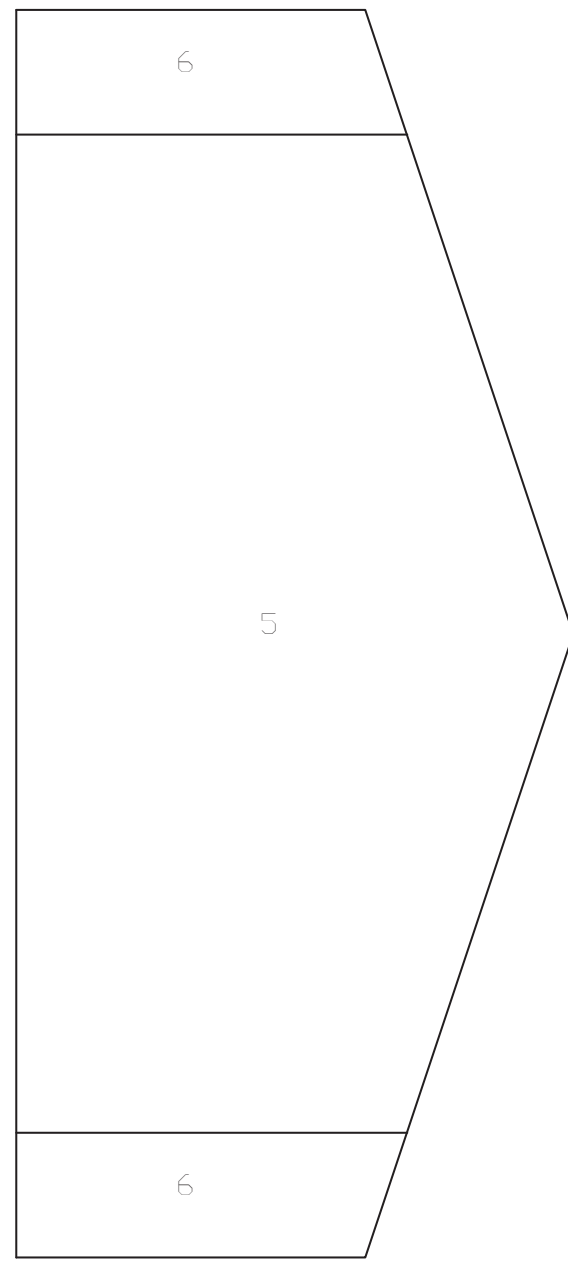
(+) wind towards surface
 (-) wind away from surface

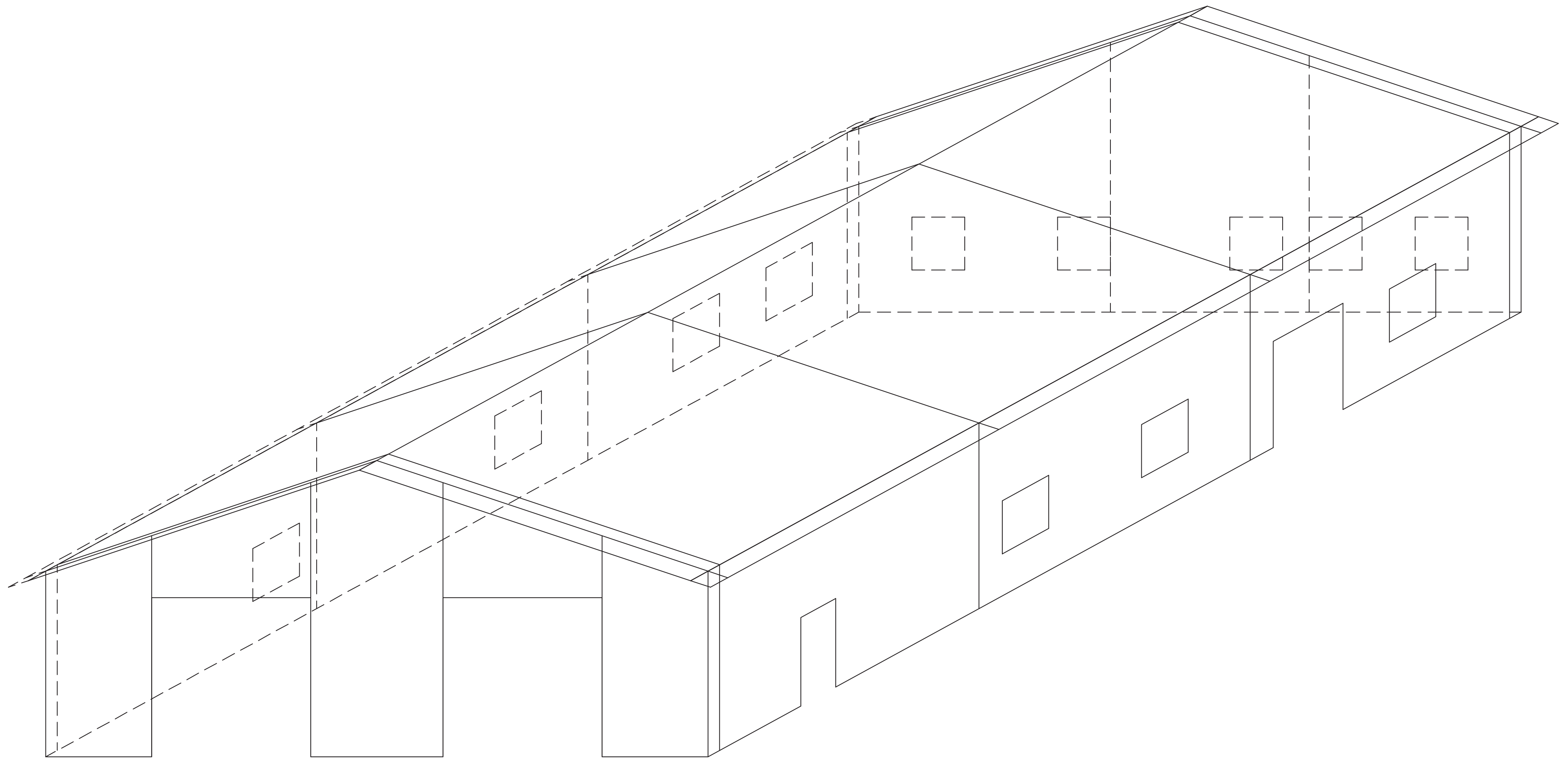




Zone	Width (ft)	Length (ft)	Components & Cladding (Factored)		Suction (psf)	
			Pressure (psf) Member	Panel	Member	Panel
1			0.00	0.00	-9.60	0.00
2	26.35		0.00	0.00	0.00	0.00
3	1.50	63.00	7.20	7.20	-14.59	-24.31
4	1.50	5.00	7.20	7.20	-19.55	-39.87
5			9.60	11.47	-10.52	-12.45
6	5.00		9.60	11.47	-11.46	-15.31
7			9.60	11.46	-10.50	-12.42
8	5.00		9.60	11.46	-11.45	-15.28

(+) wind towards surface
 (-) wind away from surface





HERITAGE BUILDING SYSTEMS



BUILDER/CONTRACTOR RESPONSIBILITIES

Drawing Validity –These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

Builder Acceptance of Drawings –Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice APR 10 Section 4.4.1)

Code Official Approval –It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

Builder is responsible for State, Federal and OSHA safety compliance –The Builder/Contractor is responsible for applying and observing all pertinent safety rules and regulations and OSHA standards as applicable.

Building Erection –The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector. (AISC Code of Standard Practice APR 10 Section 7.10.3)

Discrepancies –Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice APR 10 Section 3.3)

Materials by Others –All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturer's assumptions will govern.

Modification of the Metal Building from Plans –The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or braces, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

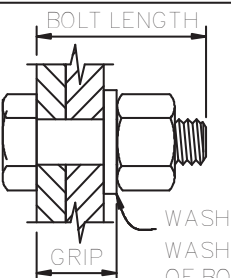
Foundation Design –The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA MBMS Chapter 4 Section 3.2.2 and Section A3)



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Descargue los manuales de instalación del panel desde:
www.cornerstonebuildingbrands.com/installationmanuals/

1/2" Ø A325 BOLT GRIP TABLE (UNLESS NOTED)	
GRIP	LENGTH
0 TO 9/16"	1 1/4" F.T.
Over 9/16" TO 1 1/16"	1 3/4" F.T.
Over 1 1/16" TO 1 5/16"	2"
Over 1 5/16" TO 1 9/16"	2 1/4"
Over 1 9/16" TO 1 13/16"	2 1/2"
Over 1 13/16" TO 2 1/16"	2 3/4"



NOTE:
FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.

WASHER REQUIRED ONLY WHEN SPECIFIED.
WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS.
ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.

LOCATIONS OF BOLTS LONGER THAN 2 3/4" NOTED ON ERECTION DRAWINGS
F.T. DENOTES FULLY THREADED

Rev. 11/15/2021

PROJECT NOTES

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, or ASTM A1011 with 55 ksi min. yield, except flanges wider than 12" and thicker than 3/8", all flanges thicker than 1", and all webs thicker than 3/8" are 50 ksi min. yield. Rod X-bracing conforms to ASTM A529 or ASTM A572 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand Extra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other than flange braces, conform to ASTM A36 minimum. Round and rectangular HSS conforms to ASTM A500 Grade B. Cold-formed steel secondary framing Members conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield.

The manufacturer does not assume any responsibility for the erection nor field supervision of the structure and or any special inspections that may be required by the local building authority during erection (including inspection of the high strength bolts or field welds) as required during erection. The coordination and the costs associated for setting up and Special Inspections are the responsibility of the Erector, Owner, Architect, or Engineer of Record.

Design is based upon the more severe loading of either the roof snow load or the roof live load.

Loads, as noted, are given within order documents and are applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for the local provisions that may apply or for site specific parameters. The manufacturer's Engineer's certification is limited to design loads supplied by an Architect and/or engineer of record for the overall construction project.

This project is designed using manufacturer's standard serviceability standards. Generally this means that all stresses and deflections are within typical performance limits for normal occupancy and standard metal building products. If special requirements for deflections and vibrations must be adhered to, then they must be clearly stated in the contract documents.

This metal building system is designed as enclosed. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code. Doors are to be closed when a maximum of 50% of design wind velocity is reached.

Unless otherwise noted, special inspection of fabricated items is not required. Per IBC section 1704.2.5.1. The fabricator is approved to perform such work without special inspection through maintenance of IAS AC 472 certification MB-136

DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length.

BUILDING DEFLECTION LIMITS...: Building A					
Roof Limits	Rafters	Purlins	Columns	Diaphragms	Other
Live L/	@F360	@F354	@F357		
Snow L/	@F360	@F354	@F357		
Wind L/	@F360	@F355	@F358		
Total Gravity L/	@F360	@F354	@F357		
Frame Limits	Sidesway	Portal Frame	Sidesway	Other	Other
Live H/	@F359				
Snow H/	@F359				
Wind H/	@F363				
Seismic H/	@F362				
Crane H/	@F359				
Total Gravity H/	@F359			@F361	
Total Wind H/	@F359			@F364	
Total Seismic H/	@F363				
Wall Limits	Limit	Other	Other	Other	Other
Total Wind Panels L/	@F356				
Total Wind Girts L/	@F353				
Total Wind EW Columns L/	@F350				

The Service Seismic limit as shown here is at service level loads.

ENGINEERING DESIGN CRITERIA

Building Code.....	@F324
Building Risk Category.....	@U619
Roof Dead Load	
Superimposed.....	@F301 psf
Collateral.....	@F305 psf (Total)
(0.00 psf Ceiling @F305 psf Other)	
Roof Live Load.....	@F302 psf @F304 reduction
Snow	
Ground Snow Load (Pg).....	@U600 psf
Snow Load Importance Factor (Is).....	@U614
Snow Exposure Factor (Ce).....	@U615
Thermal Factor (Ct).....	@U612
Flat Roof Snow Load (Pf).....	@F303 psf
Minimum Roof Snow Load (Pm).....	@U648 psf
Wind	
Ultimate Wind Speed (Vult).....	@F307 mph
Nominal Wind Speed (Vasd).....	@U636 mph
Serviceability Wind Speed.....	@U646 mph
Ground Elevation Factor.....	@U654 (@U6ASL)
Wind Exposure Category.....	@F309
Internal Pressure Coefficient (GCP) @U623 /@U624	
Loads for components not provided by building manufacturer.	
Wall Edge Zones (within @U653 ' of corner)	@U620 psf pressure
@U622 psf suction	
Other Wall Zones	@U620 psf pressure
@U621 psf suction	

These values are the maximum values required based on a 10 square foot area. Components with larger areas may have lower wind loads. Zones per ASCE 7-16; FIG. 30.3-4 Zones pressures shown are Un-Factored

Seismic	
Seismic Importance Factor (Ie).....	@F315
Seismic Design Category.....	@F311
Soil Site Class.....	@U647
Ss..... @U601 g	Sds..... @U607 g
S1..... @U602 g	Sd1..... @U608 g
Analysis Procedure.....	Equivalent Lateral Force

Location... Int RF Front SW Back SW Left EW Right EW	
System.....	@J190 @J191 @J192 @J193 @J194
R.....	@F368 @F374 @F376 @F370 @F372
Cs.....	@F369 @F375 @F377 @F371 @F373

Design Base Shear in kips (V) Transverse @F366
Design Base Shear in kips (V) Longitudinal @F365

System –Basic Force Resisting System
H –Steel System not Specifically Detailed for Seismic Resistance
C4 –Steel Ordinary Moment Frames
B3 –Steel Ordinary Concentric Braced Frames
G2 –Steel Ordinary Cantilevered Column Systems
R –Response Modification Coefficient
Cs –Seismic Response Coefficient
Transverse –Direction Parallel to the Rigid Frames
Longitudinal –Direction Perpendicular to the Rigid Frames

Building Descriptions				
Building ID	Width(ft)	Length(ft)	Height(ft)	Roof Slope
Building A	@F201	@F202	@F204	@F206

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
@J024	@DATE	FOR @J041	@J012	@J014	@J011

2513 MCCAIN BLVD, STE 2 #385
NORTH LITTLE ROCK, AR 72116-7606
1-800-643-6555

PROJECT:	@J007	OWNER:	@J038				
CUSTOMER:	@J004	LOCATION:	@J008				
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	@DATE	N.T.S.	1	A	@J010	C1	@J024

Drawing Index	
Page	Description
C1	COVER SHEET
F1	ANCHOR BOLT PLAN
F2	ANCHOR BOLT REACTIONS
F3	ANCHOR BOLT DETAILS
E1	ROOF FRAMING PLAN
E2	ROOF SHEETING PLAN
E3	FRONT SIDEWALL
E4	BACK SIDEWALL
E5	LEFT ENDWALL
E6	RIGHT ENDWALL
E7	FRAME CROSS SECTION
DET 1-10	STANDARD DETAILS
R1	INSTALLATION SHEETS

DRAWING STATUS

FOR APPROVAL
These drawings, being For Approval, are by definition not final, and are for conceptual representation only. Their purpose is to confirm proper interpretation of the project documents. Only drawings issued "For Erector Installation" can be considered as complete.

FOR CONSTRUCTION PERMIT
These drawings, being For Permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered as complete.

FOR ERECTOR INSTALLATION
Final drawings for construction.

For questions or assistance
Concerning Erection call or E-mail:
1-844-840-4603
Monday-Friday 7:30am to 5:00pm
FIELD.SERVICE@CORNERSTONE-BB.COM

ENGINEERING SEAL

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

GN-1

HERITAGE BUILDING SYSTEMS



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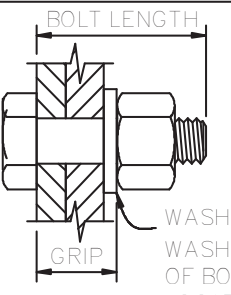
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Over 1 5/16" TO 1 9/16"	2 1/4"
Over 1 9/16" TO 1 13/16"	2 1/2"
Over 1 13/16" TO 2 1/16"	2 3/4"
LOCATIONS OF BOLTS LONGER THAN 2 3/4" NOTED ON ERECTION DRAWINGS	
F.T. DENOTES FULLY THREADED	



NOTE:
FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.

WASHER REQUIRED ONLY WHEN SPECIFIED. WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.

Rev. 11/15/2021

PROJECT NOTES

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, or ASTM A 1011 with 55 ksi min. yield, except flanges wider than 12" and thicker than 3/8", all flanges thicker than 1", and all webs thicker than 3/8" are 50 ksi min. yield. Rod X-bracing conforms to ASTM A529 or ASTM A572 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand Extra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other than flange braces, conform to ASTM A36 minimum. Round and rectangular HSS conforms to ASTM A500 Grade B. Cold-formed steel secondary framing Members conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield.

The manufacturer does not assume any responsibility for the erection nor field supervision of the structure and or any special inspections that may be required by the local building authority during erection (including inspection of the high strength bolts or field welds) as required during erection. The coordination and the costs associated for setting up and Special Inspections are the responsibility of the Erector, Owner, Architect, or Engineer of Record.

Design is based upon the more severe loading of either the roof snow load or the roof live load.

Loads, as noted, are given within order documents and are applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for the local provisions that may apply or for site specific parameters. The manufacturer's Engineer's certification is limited to design loads supplied by an Architect and/or engineer of record for the overall construction project.

This project is designed using manufacturer's standard serviceability standards. Generally this means that all stresses and deflections are within typical performance limits for normal occupancy and standard metal building products. If special requirements for deflections and vibrations must be adhered to, then they must be clearly stated in the contract documents.

This metal building system is designed as enclosed. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code. Doors are to be closed when a maximum of 50% of design wind velocity is reached.

Unless otherwise noted, special inspection of fabricated items is not required. Per IBC section 1704.2.5.1, The fabricator is approved to perform such work without special inspection through maintenance of IAS AC 472 certification MB-136

DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length.

BUILDING DEFLECTION LIMITS...: Building A					
Roof Limits	Rafters	Purlins	Columns	Diaphragm	Other
Live L/	180	180	180	60	
Snow L/	180	180	180	60	
Wind L/	180	180	180	60	
Total Gravity L/	180	180	180	60	
Frame Limits	Sideway	Portal	Frame Sideway	Diaphragm	Other
Live H/	60	60	60	60	
Snow H/	60	60	60	60	
Wind H/	60	60	60	60	
Seismic H/	195	195	195	60	
Crane H/	100	100	100	60	
Total Gravity H/	60	60	60	60	
Total Wind H/	60	60	60	60	
Total Seismic H/	195	195	195	60	195
Wall Limits	Limit	Limit	Limit	Limit	Limit
Total Wind Panels L/	60	60	60	60	60
Total Wind Girts L/	90	90	90	90	90
Total Wind EW Columns L/	120	120	120	120	120

The Service Seismic limit as shown here is at service level loads.

ENGINEERING DESIGN CRITERIA

Building Code..... CBC 19
Building Risk Category..... II –Normal

Roof Dead Load
Superimposed..... 2,500 psf
Collateral..... 6 psf (Total)
(0.00 psf Ceiling 6 psf Other)
Roof Live Load..... 20.00 psf No reduction

Snow
Ground Snow Load (Pg)..... 0.00 psf
Snow Load Importance Factor (Is)..... 1.00
Snow Exposure Factor (Ce)..... 1.00
Thermal Factor (Ct)..... 1.00
Flat Roof Snow Load (Pf)..... 0 psf
Minimum Roof Snow Load (Pm)..... 0.00 psf

Wind
Ultimate Wind Speed (Vult)..... 92 mph
Nominal Wind Speed (Vasd)..... 71 mph
Serviceability Wind Speed..... 64 mph
Ground Elevation Factor..... 1.00 (53.64 ASL)
Wind Exposure Category..... C
Internal Pressure Coefficient (GCP) 0.18 /-0.18
Loads for components not provided by building manufacturer.
Wall Edge Zones (within 5.00' of corner)
19.12 psf pressure
-25.61 psf suction
Other Wall Zones
19.12 psf pressure
-20.75 psf suction

These values are the maximum values required based on a 10 square foot area.
Components with larger areas may have lower wind loads.
Zones per ASCE 7-16; FIG. 30.3-4
Zones pressures shown are Un-Factored

Seismic
Seismic Importance Factor (Ie)..... 1.00
Seismic Design Category..... D
Soil Site Class..... D
Ss..... 1,500 g Sds..... 1,000 g
S1..... 0,600 g Sd1..... 0,680 g
Analysis Procedure..... Equivalent Lateral Force

Location...	Int RF	Front	SW	Back	SW	Left	EW	Right	EW	Other
System.....	C4	C4	C4	C4	C4	C4	C4	C4	C4	C4
R.....	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Cs.....	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286	0.286

Design Base Shear in kips (V) Transverse 12.74
Design Base Shear in kips (V) Longitudinal 12.76

System –Basic Force Resisting System
H –Steel System not Specifically Detailed for Seismic Resistance
C4 –Steel Ordinary Moment Frames
B3 –Steel Ordinary Concentric Braced Frames
G2 –Steel Ordinary Cantilevered Column Systems
R –Response Modification Coefficient
Cs –Seismic Response Coefficient
Transverse –Direction Parallel to the Rigid Frames
Longitudinal –Direction Perpendicular to the Rigid Frames

Building Descriptions				
Building ID	Width(ft)	Length(ft)	Height(ft)	Slope
Building A	50	70	14	4.0:12

ISSUE	DATE	DESCRIPTION	BY	CHKD	DSN																					
0	4/12/22	FOR QUOTE				<div style="text-align: center;"> <p>2513 MCCAIN BLVD, STE 2 #385 NORTH LITTLE ROCK, AR 72116-7606 1-800-643-6555</p> </div> <p>PROJECT:</p> <p>CUSTOMER:</p> <p>LOCATION:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>CAD</th> <th>DATE</th> <th>SCALE</th> <th>PHASE</th> <th>BUILDING ID</th> <th>JOB NUMBER</th> <th>SHEET NUMBER</th> <th>ISSUE</th> </tr> </thead> <tbody> <tr> <td></td> <td>4/12/22</td> <td>N.T.S.</td> <td>1</td> <td>A</td> <td></td> <td>C1</td> <td>0</td> </tr> </tbody> </table>					CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE		4/12/22	N.T.S.	1	A		C1	0
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER						SHEET NUMBER	ISSUE														
	4/12/22	N.T.S.	1	A							C1	0														

Drawing Index	
Page	Description
C1	COVER SHEET
F1	ANCHOR BOLT PLAN
F2	ANCHOR BOLT REACTIONS
F3	ANCHOR BOLT DETAILS
E1	ROOF FRAMING PLAN
E2	SHEETING PLAN
E3	FRONT SIDEWALL
E4	BACK SIDEWALL
E5	LEFT ENDWALL
E6	RIGHT ENDWALL
E7	FRAME CROSS SECTION
DET 1-10	STANDARD DETAILS
R1	INSTALLATION SHEETS

DRAWING STATUS

FOR APPROVAL
These drawings, being For Approval, are by definition not final, and are for conceptual representation only. Their purpose is to confirm proper interpretation of the project documents. Only drawings issued "For Erector Installation" can be considered as complete.

FOR CONSTRUCTION PERMIT
These drawings, being For Permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered as complete.

FOR ERECTOR INSTALLATION
Final drawings for construction.

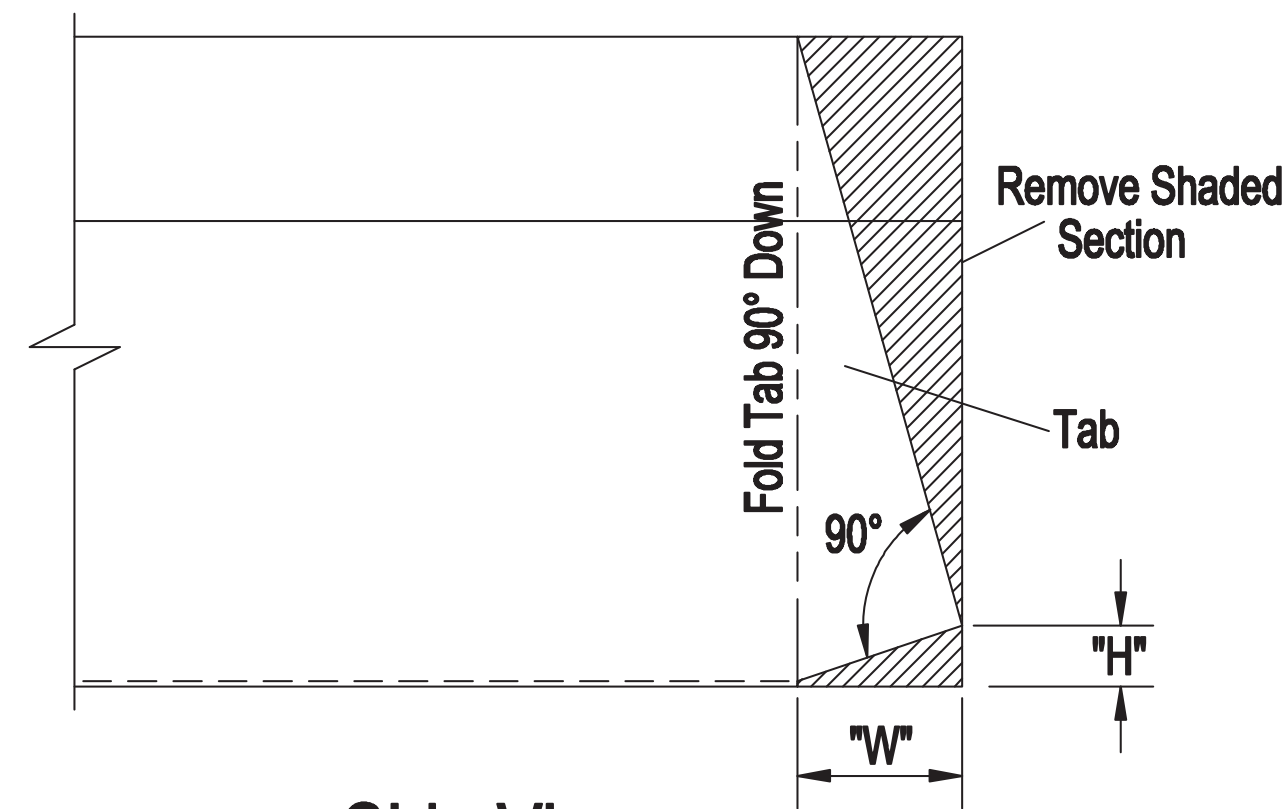
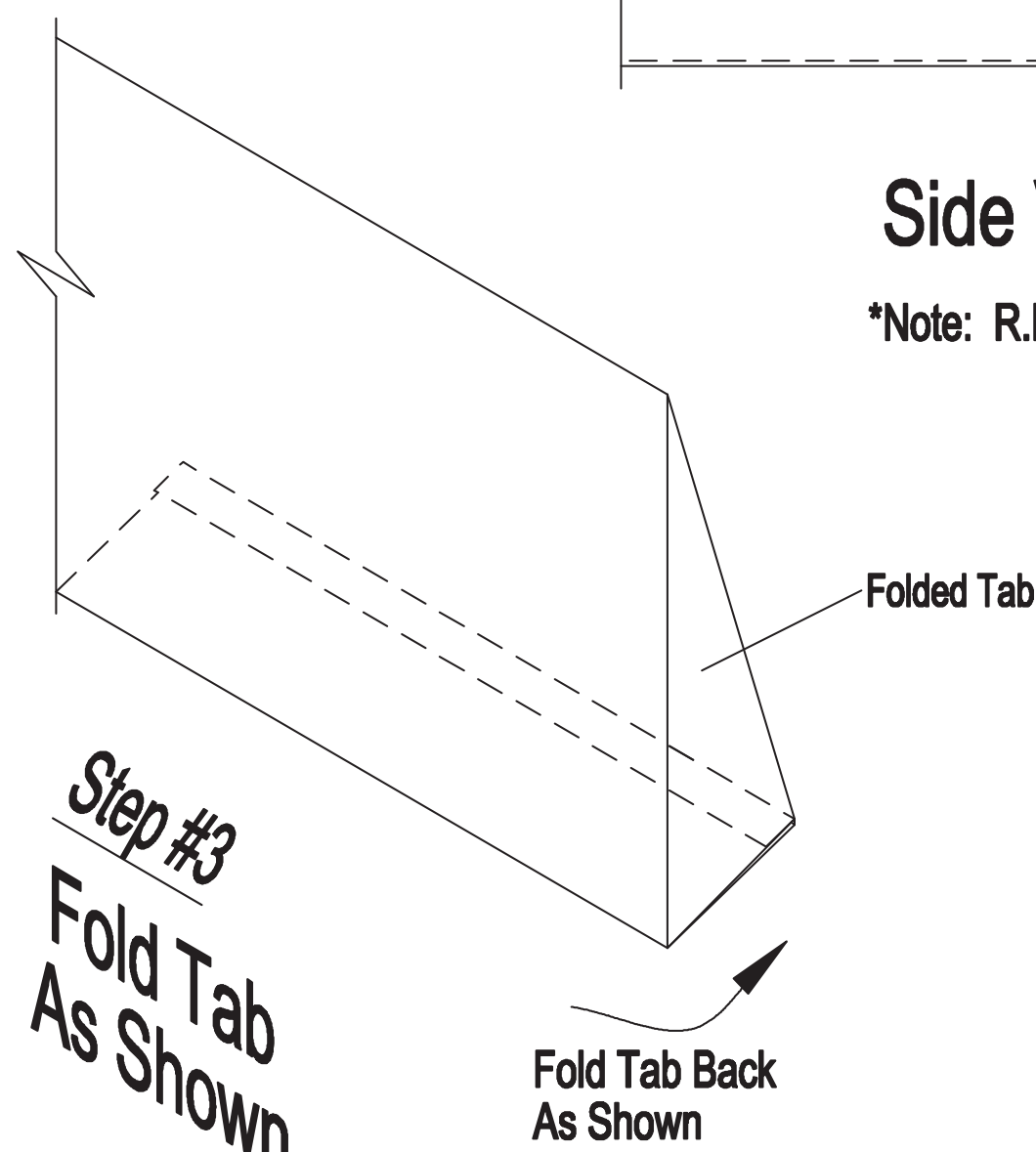
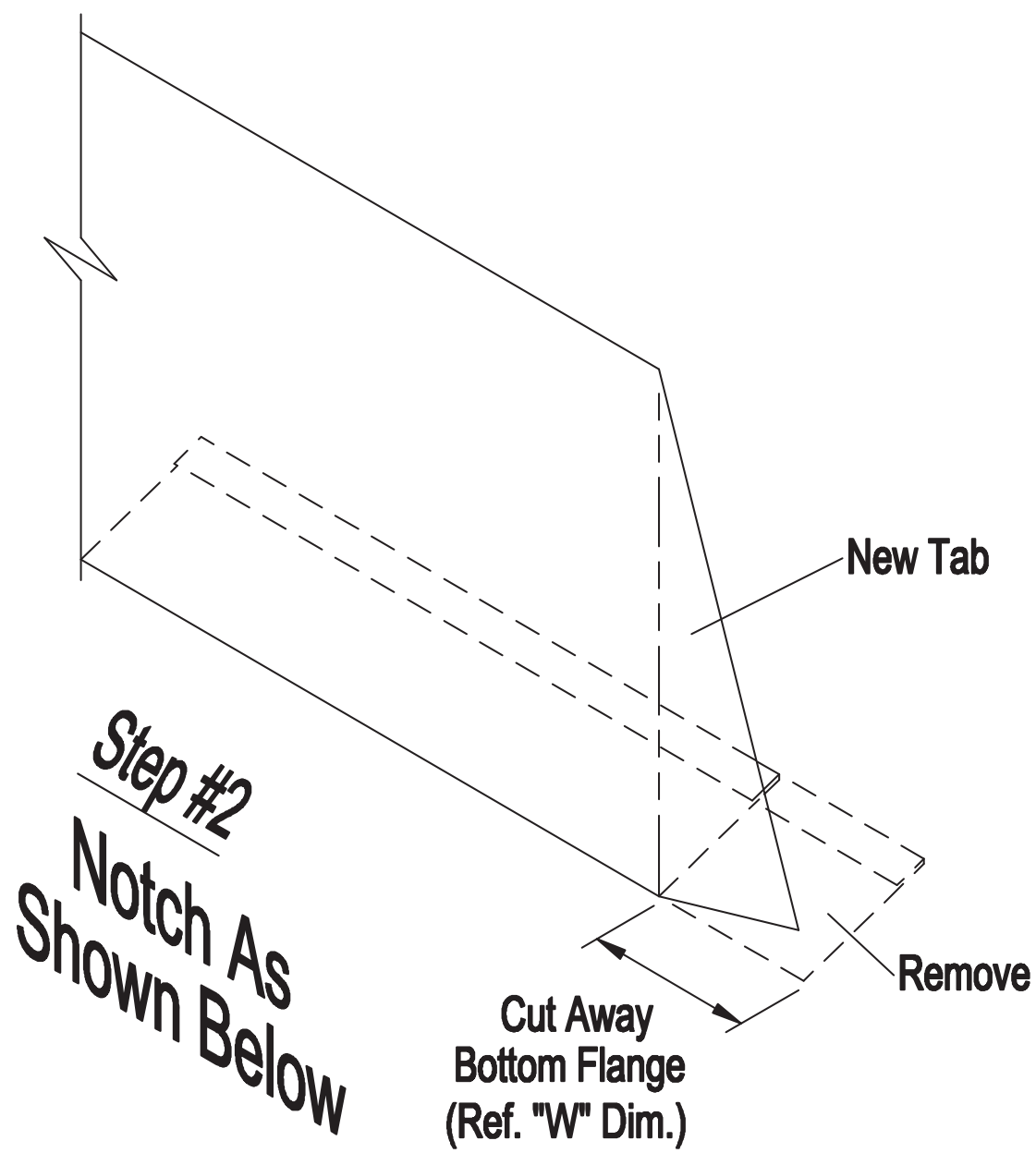
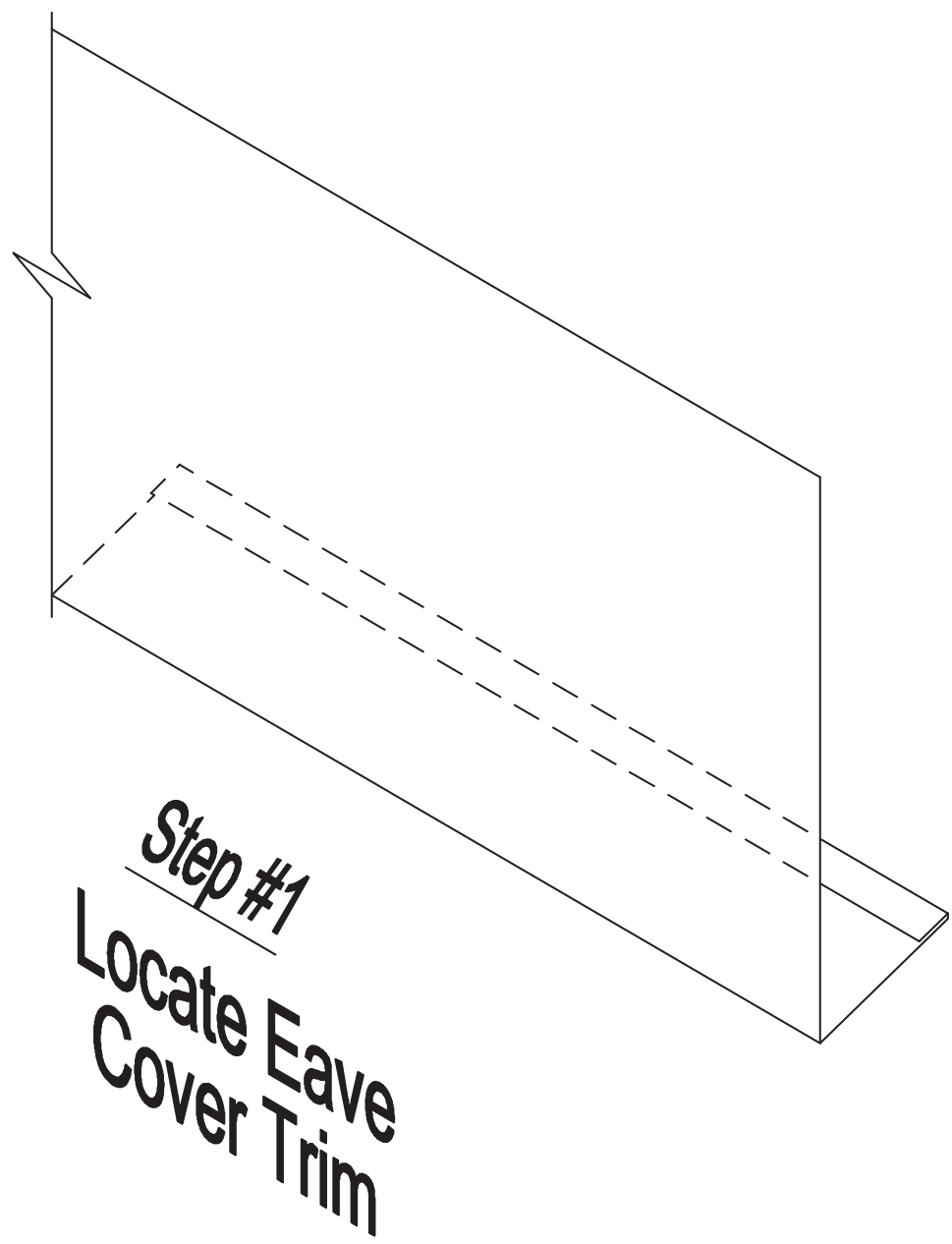
For questions or assistance
Concerning Erection call or E-mail:
1-844-840-4603
Monday-Friday 7:30am to 5:00pm
FIELD.SERVICE@CORNERSTONE-BB.COM

ENGINEERING SEAL

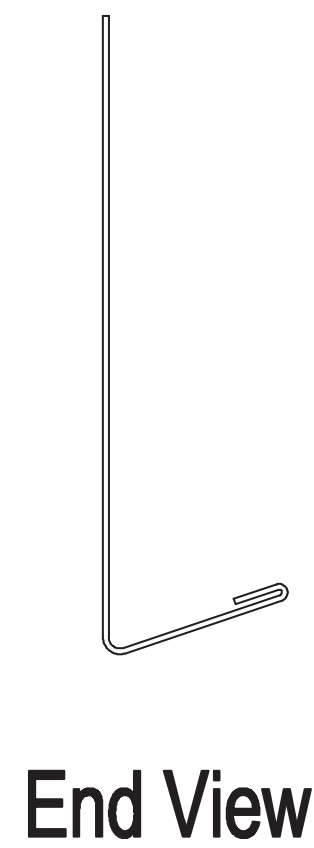
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

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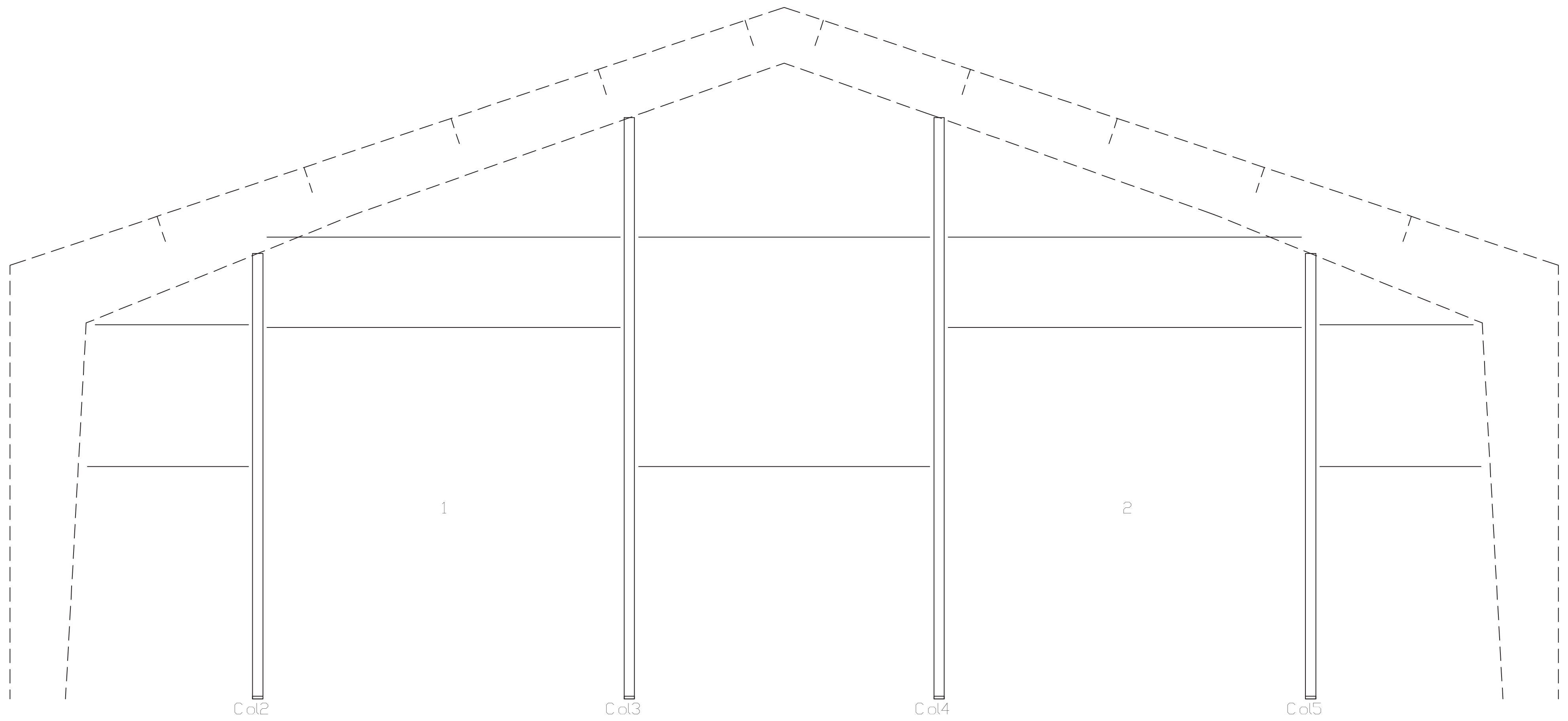
Cut To Roof Pitch		
Roof Pitch	"H" =	"W" =
1:12	--	9/16"
2:12	3/16"	1 1/8"
3:12	7/16"	1 11/16"
4:12	11/16"	2 1/8"
5:12	1 1/16"	2 1/2"
6:12	1 7/16"	2 7/8"

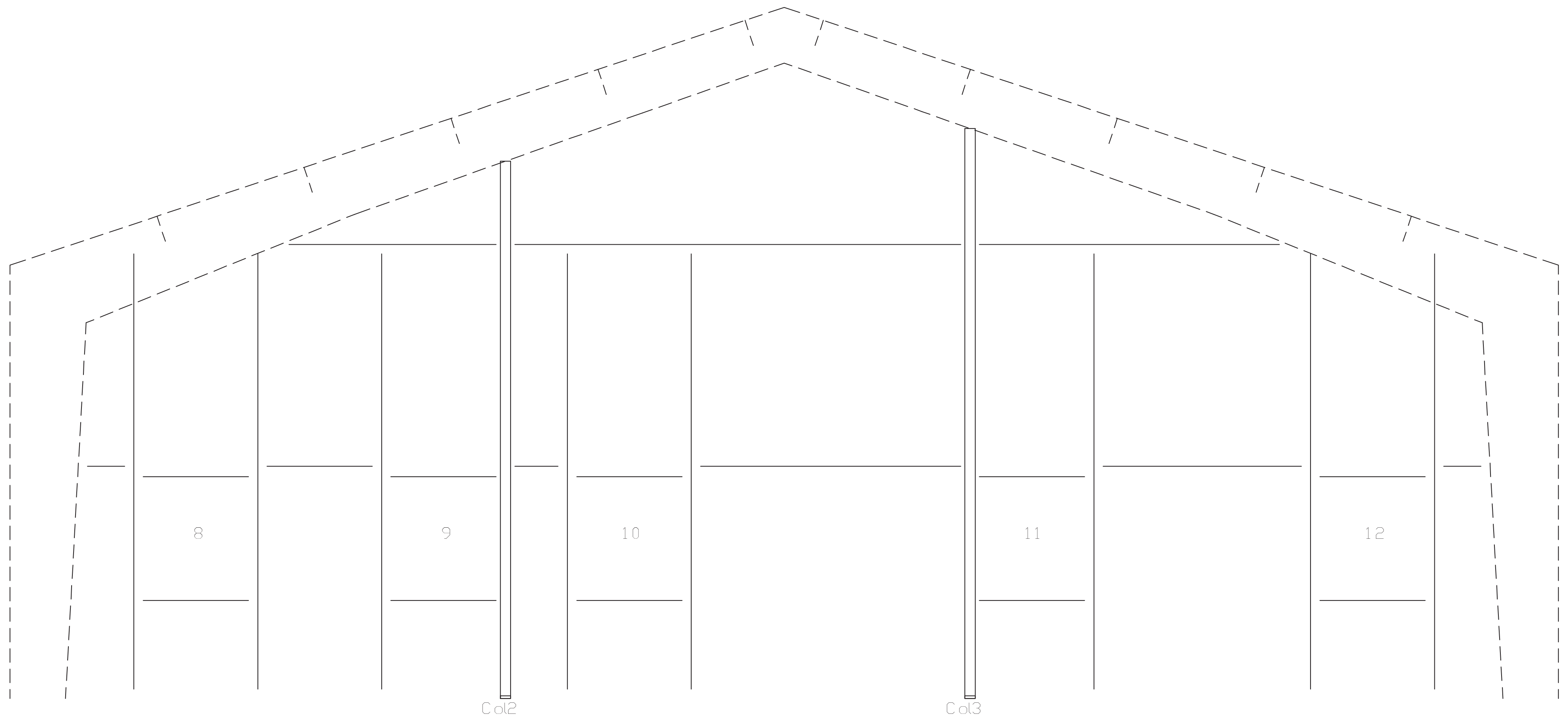


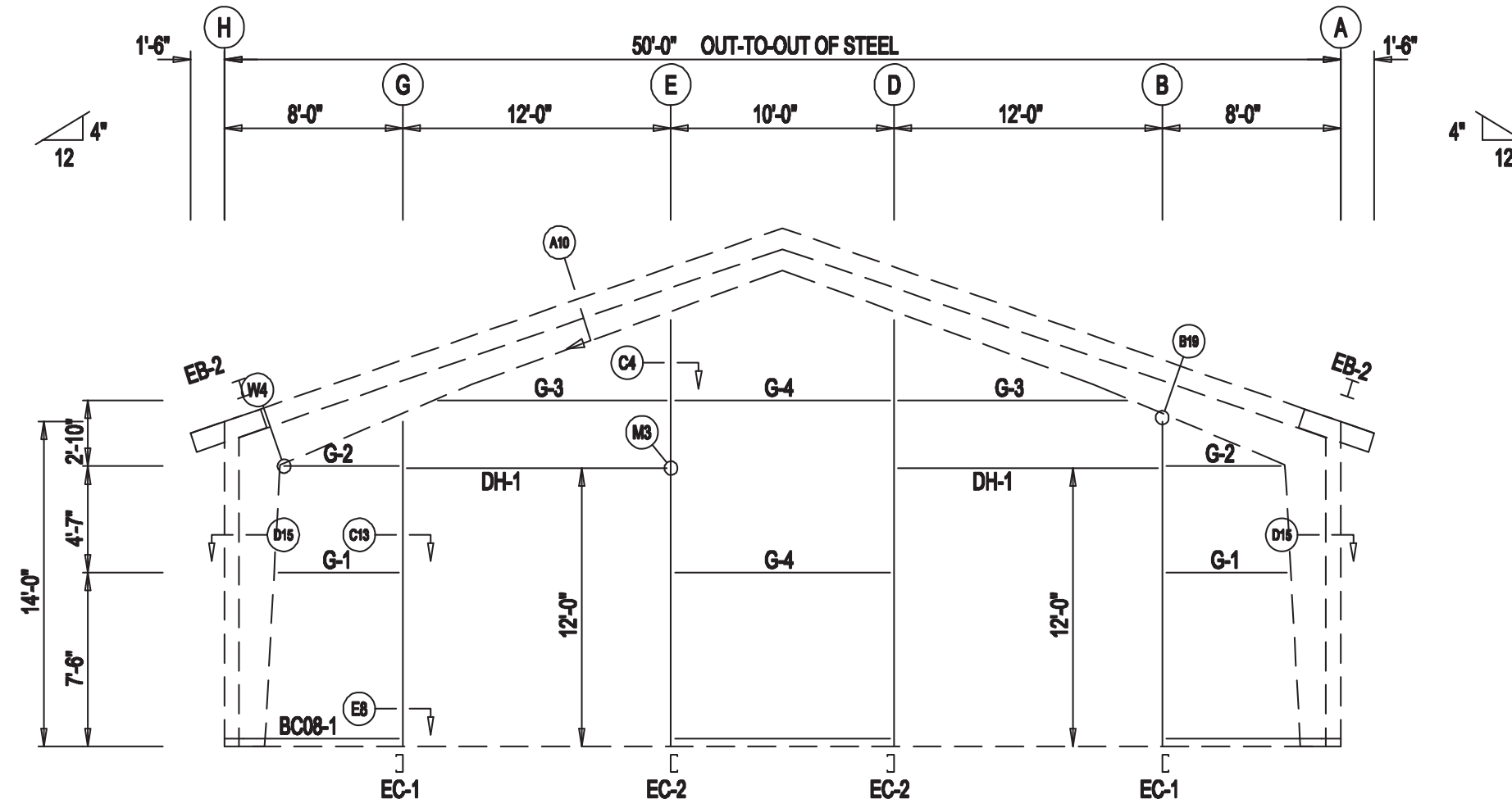
*Note: R.H. Shown
L.H. Opposite



Instructions: Field Trimmed Tab For Extension Cover Trim



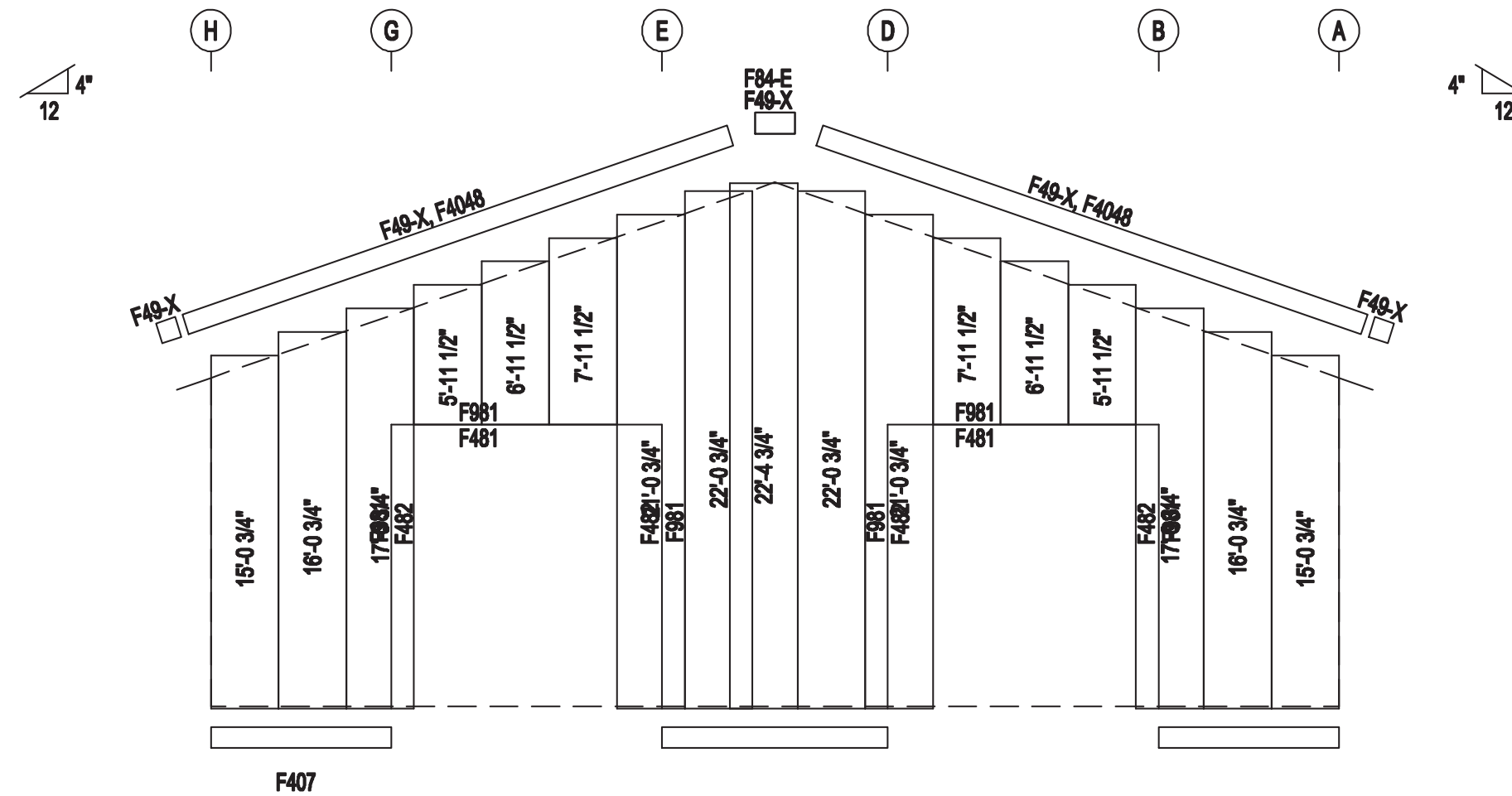




BEARING FRAME ONLY:
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE. WASHER NOT NEEDED ON CLIP SIDE.

BOLT TABLE				
FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	2	A325	1/2"	1 1/4"

ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Gauge PBR - Light Stone

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

HERITAGE
BUILDING SYSTEMS

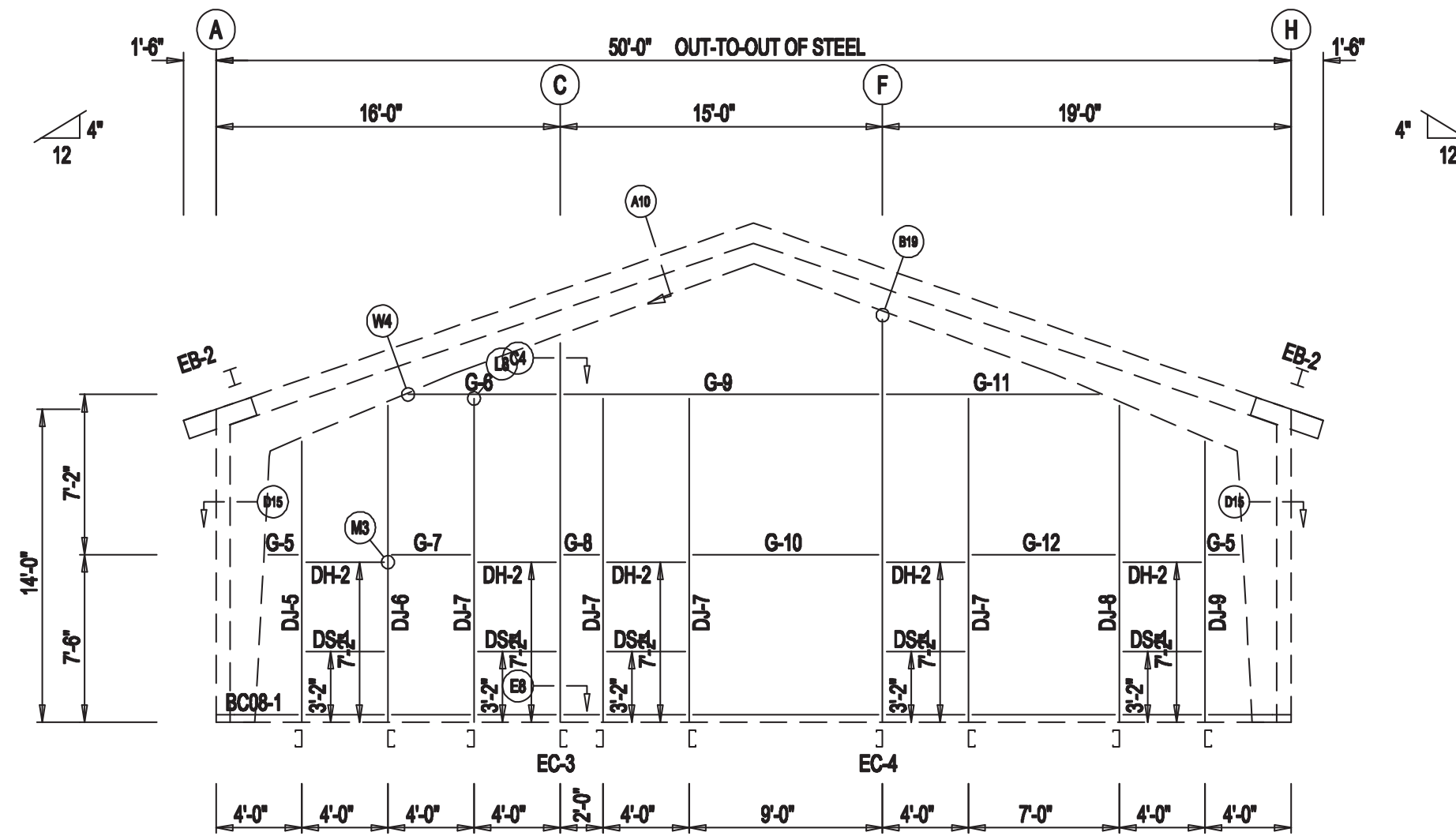
2513 MCCAIN BLVD., STE 2 #385
 NORTH LITTLE ROCK, AR 72116-7606
 1-800-643-5555

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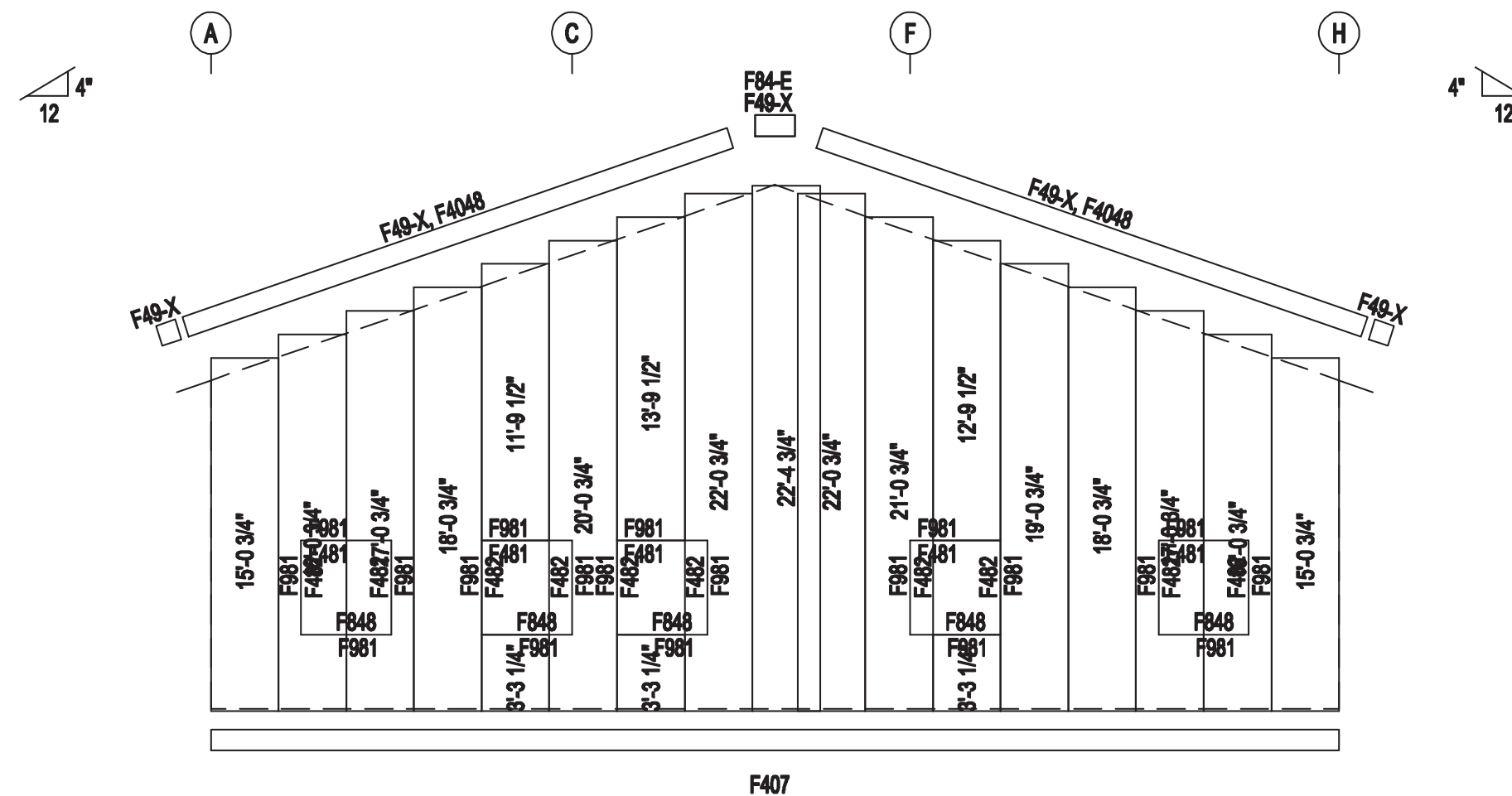
GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

PROJECT:							
CUSTOMER:				OWNER:			
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		E5	0



ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4

PANELS: 26 Gauge PBR - Light Stone

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

HERITAGE
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LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		E6	0

BEARING FRAME ONLY:

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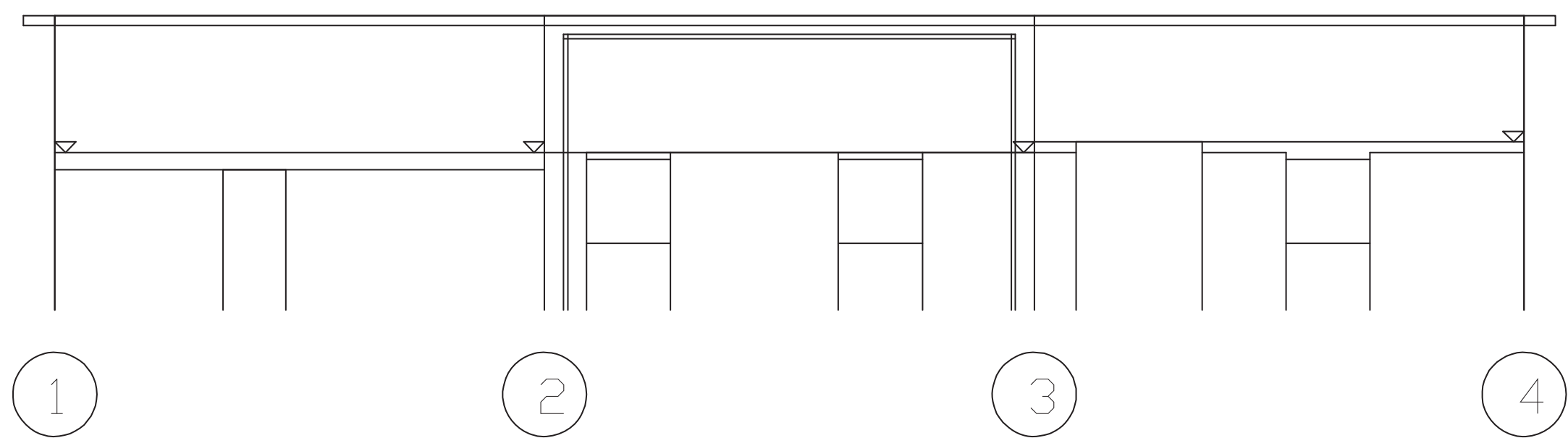
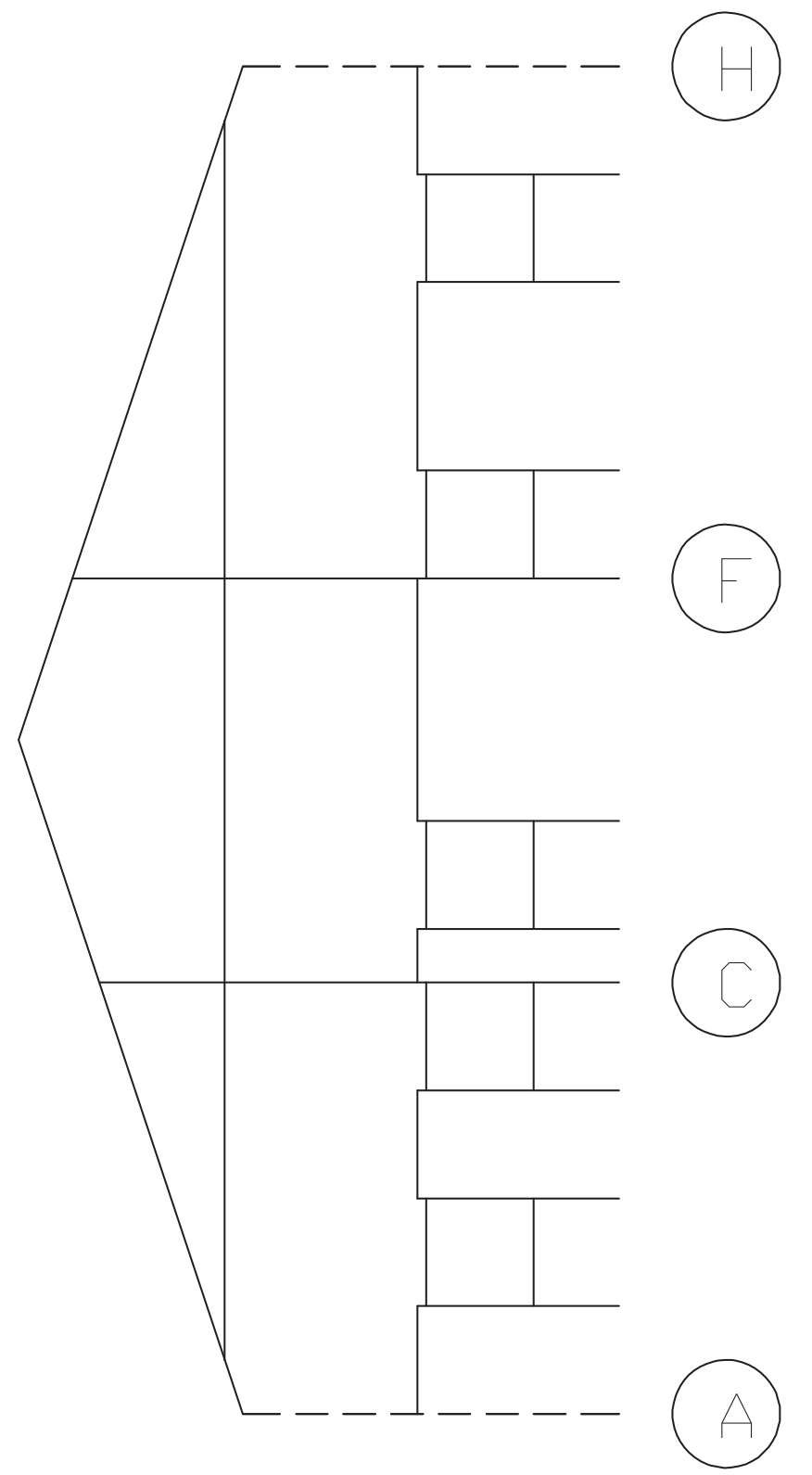
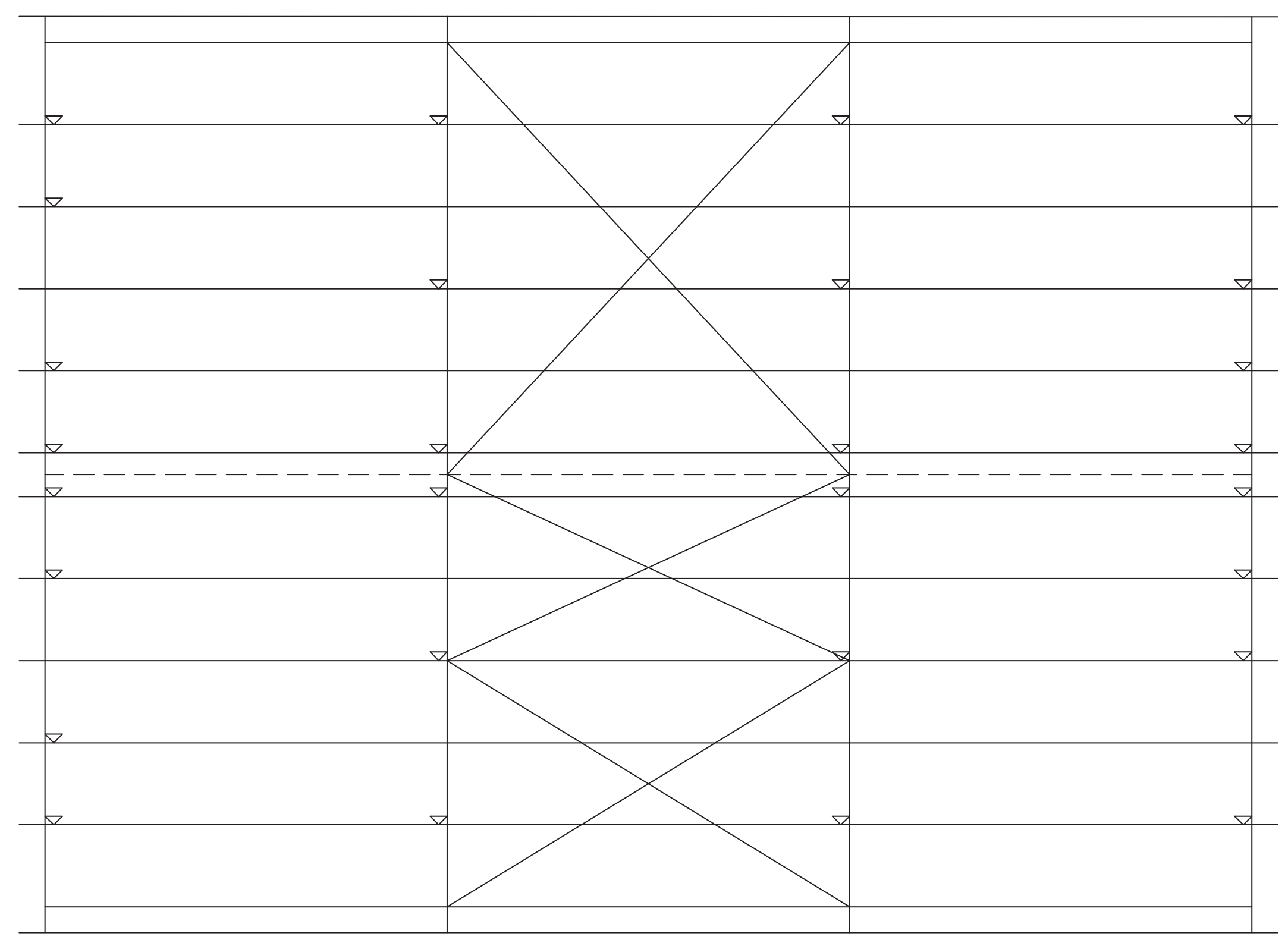
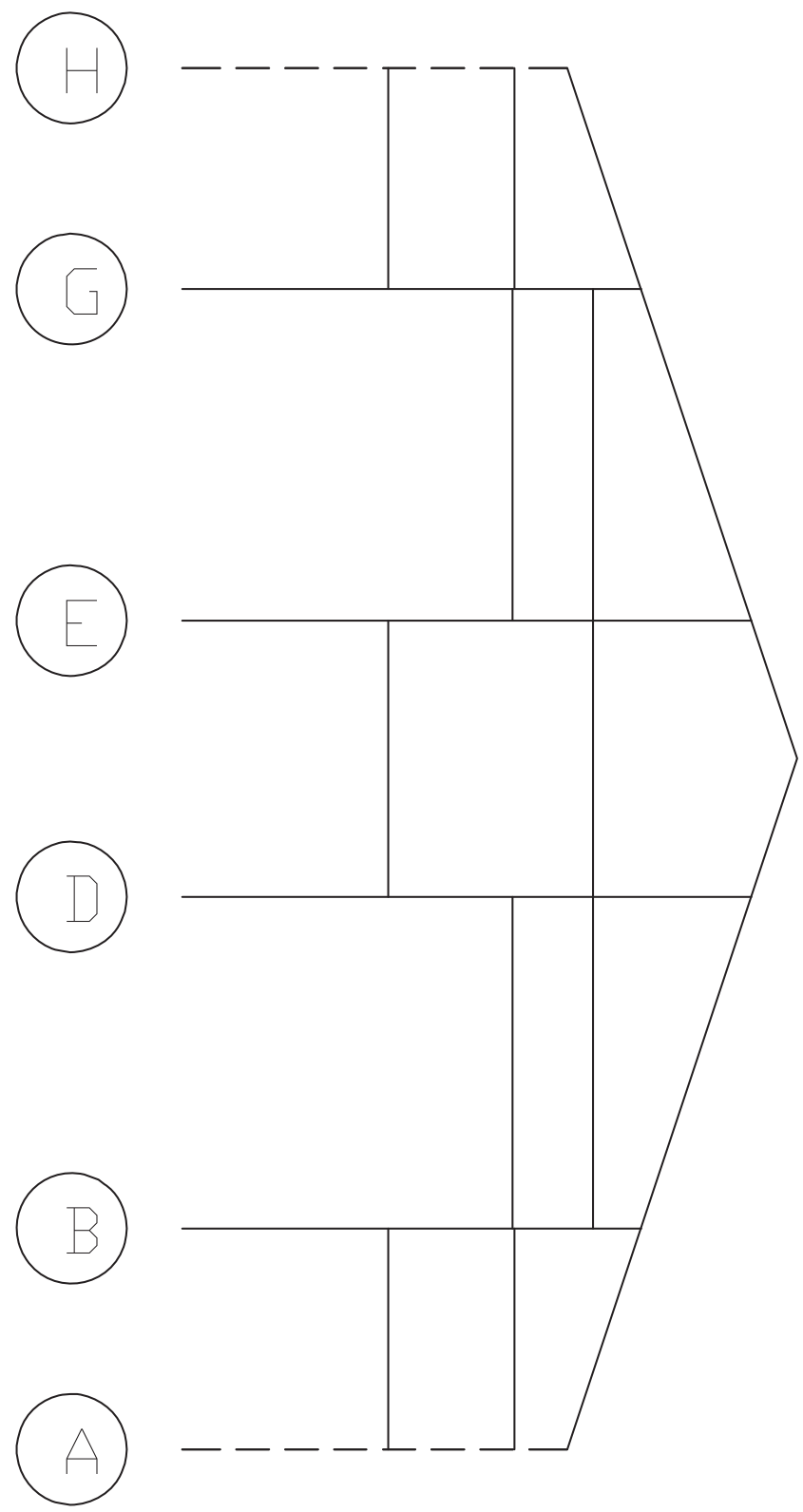
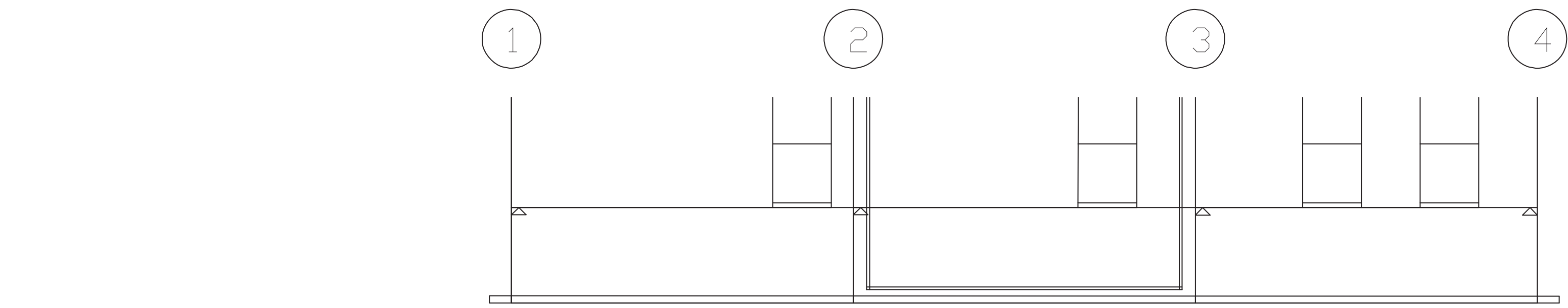
BOLT TABLE

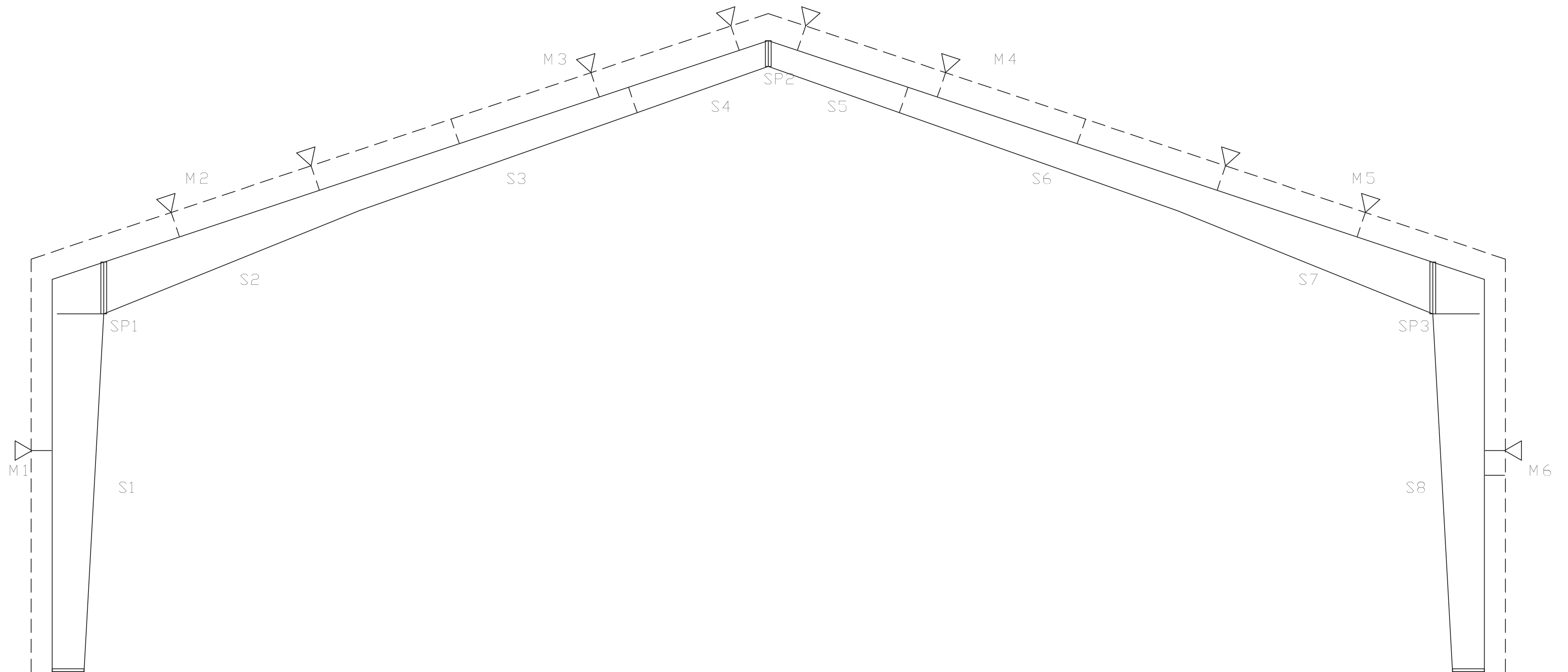
FRAME LINE 4	QUAN	TYPE	DIA	LENGTH
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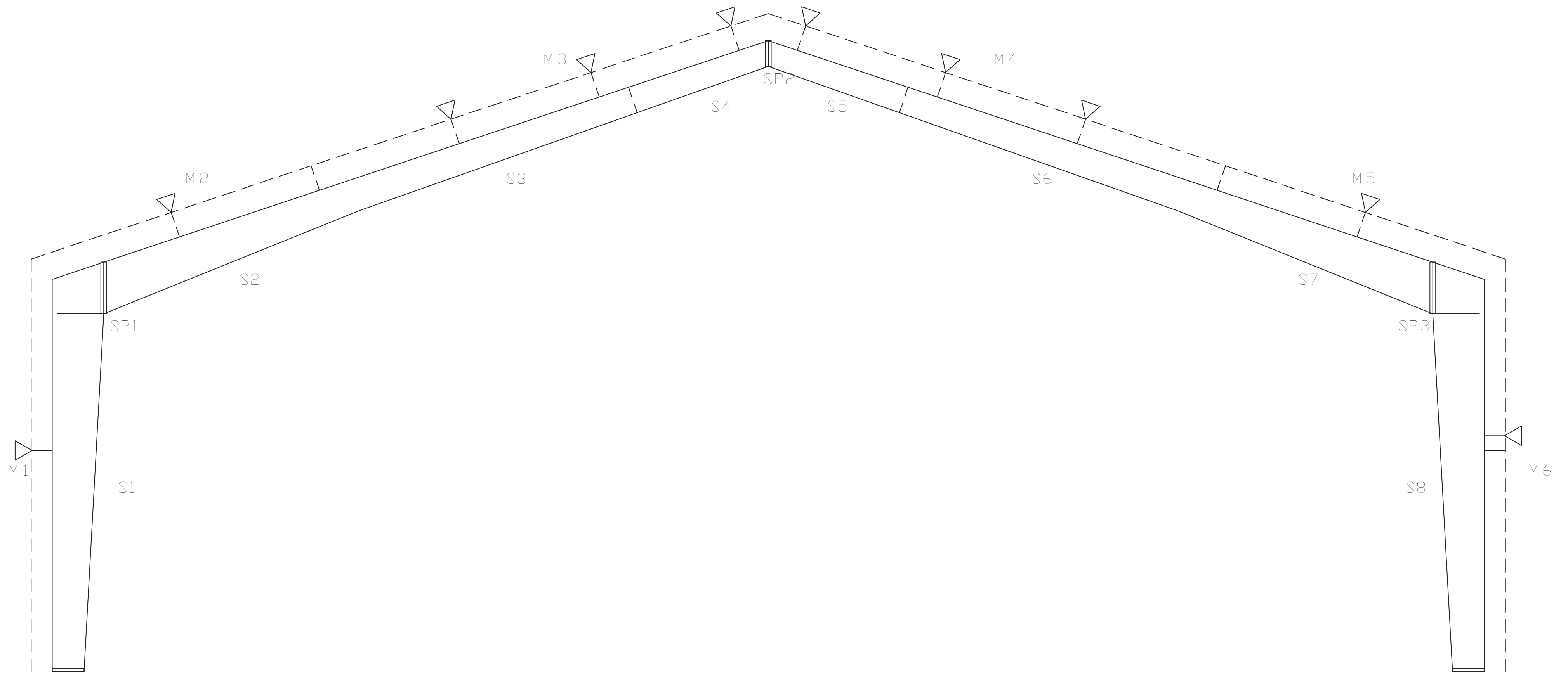
GENERAL NOTES:

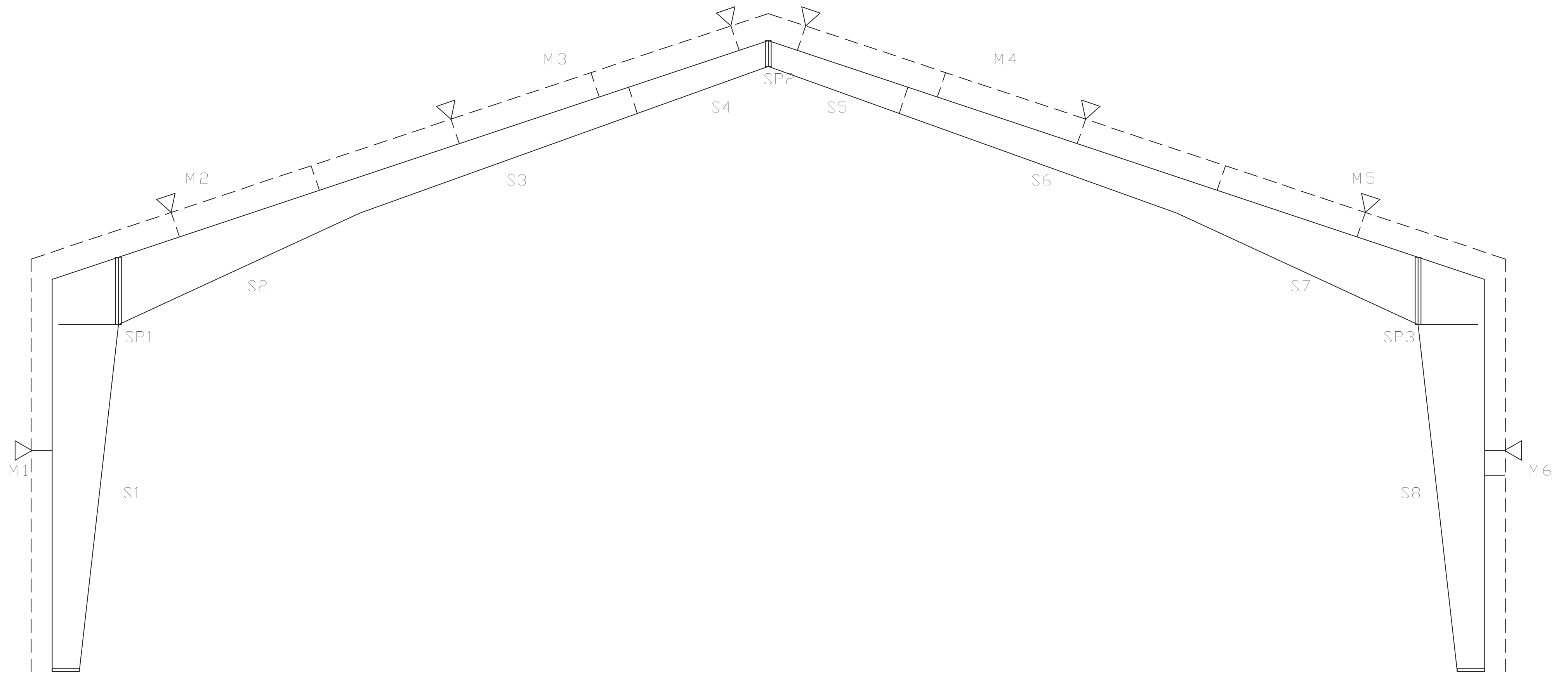
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4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

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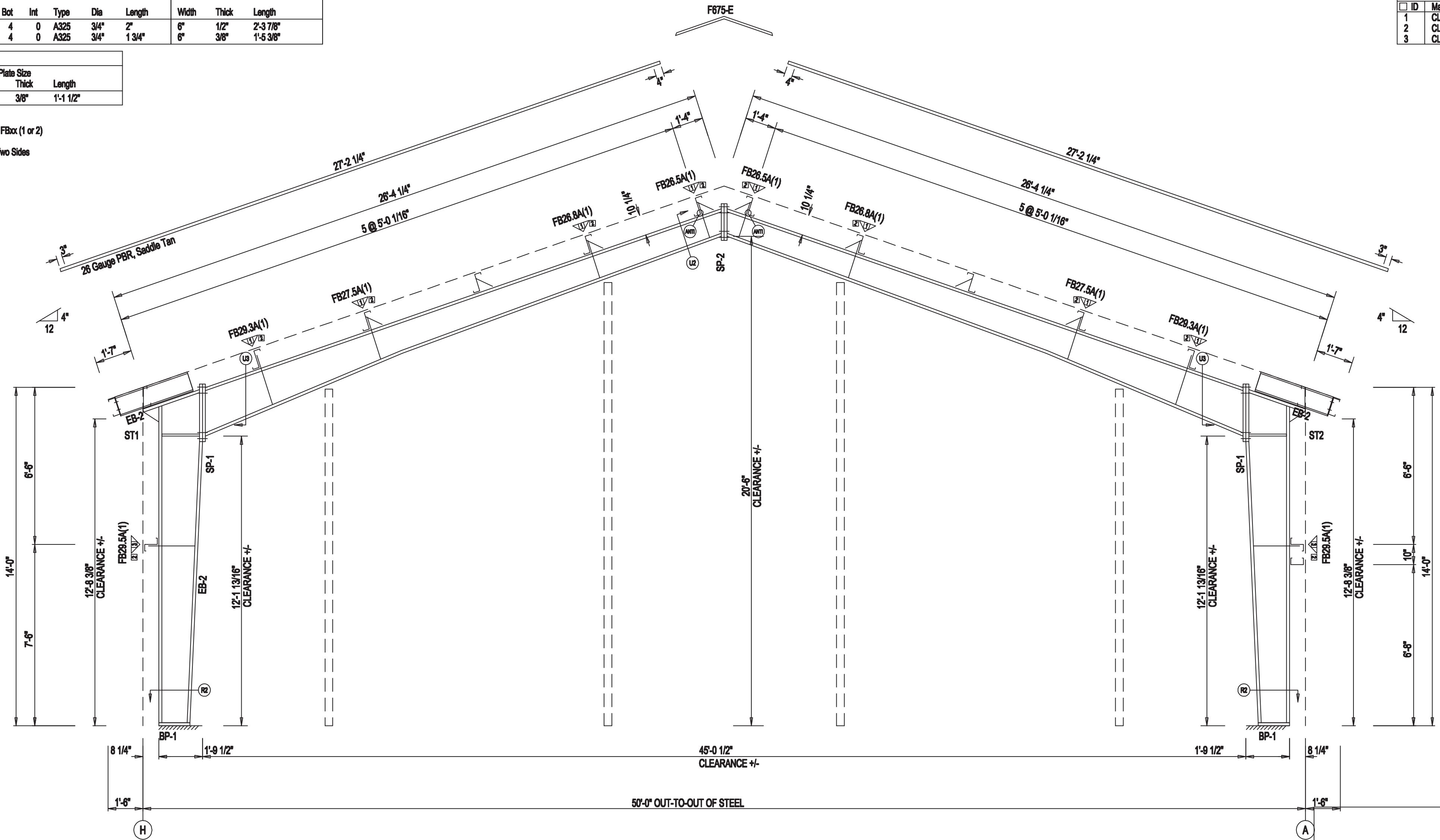


SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	3/4"	2"	6"	1/2"	2'-3 7/8"
SP-2	4	4	0	A325	3/4"	1 3/4"	6"	3/8"	1'-5 3/8"

BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP-1	6"	3/8"	1'-1 1/2"

CONNECTION PLATES	
ID	Mark/Part
1	CL197
2	CL199
3	CL198

FLANGE BRACES: FBxx (1 or 2)
 xx=length(in)
 (1) One Side; (2) Two Sides
 A - L2X2X14G



RIGID FRAME ELEVATION: FRAME LINE 1

GENERAL NOTES:

- BOLT TIGHTENING - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRE-TENSIONING METHODS, INCLUDING TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT-TENSION-INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT BOLTS DIRECT-TENSION-INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT BOLTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.1) IS SUGGESTED.
- ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 BOLTS.
- INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN.

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

HERITAGE
BUILDING SYSTEMS

2513 MCCAIN BLVD, STE 2 #385
 NORTH LITTLE ROCK, AR 72116-7606
 1-800-643-5555

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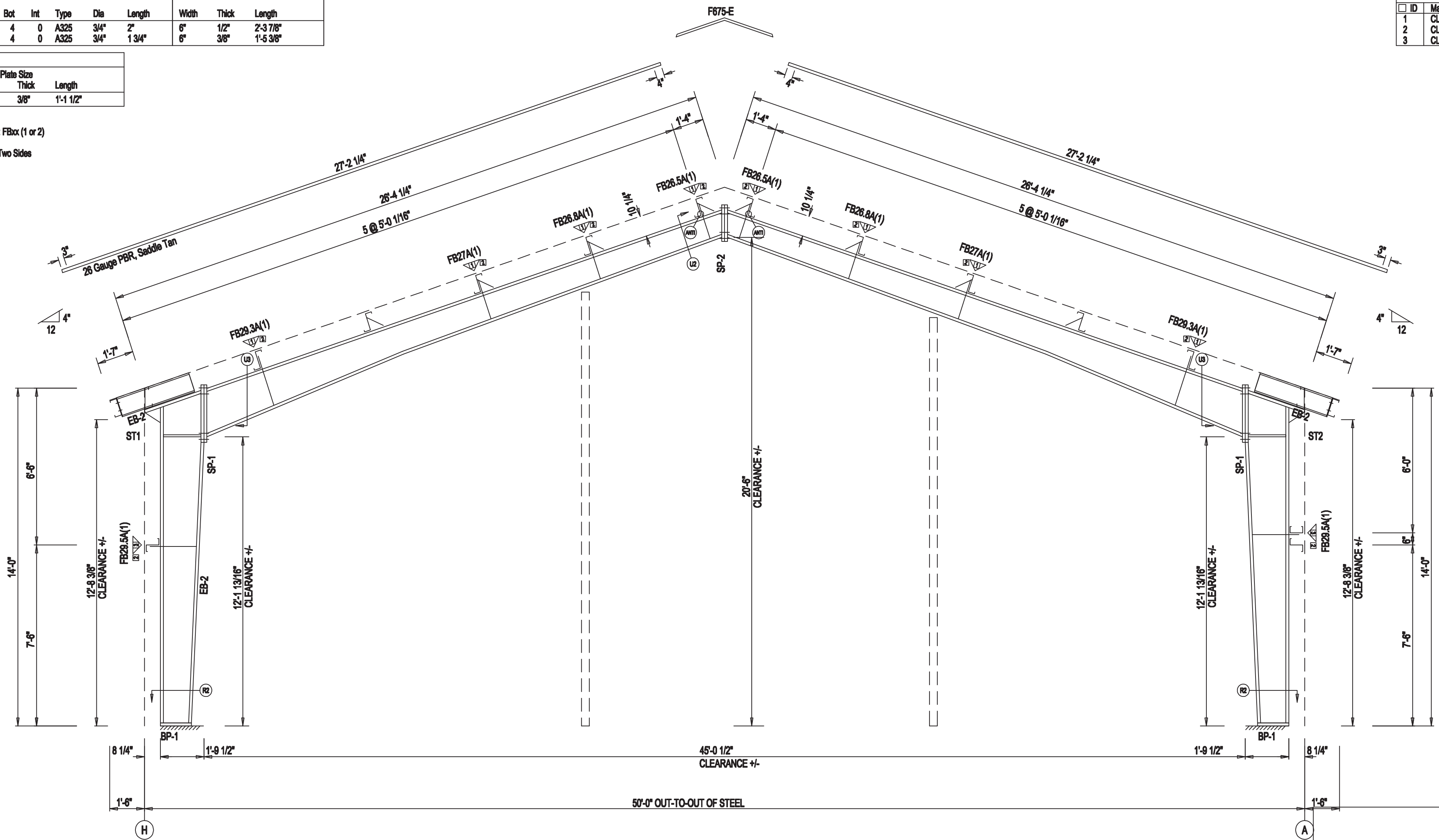
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CUSTOMER:			OWNER:				
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		E7	0

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	3/4"	2"	6"	1/2"	2'-3 7/8"
SP-2	4	4	0	A325	3/4"	1 3/4"	6"	3/8"	1'-5 3/8"

BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP-1	6"	3/8"	1'-1 1/2"

CONNECTION PLATES	
ID	Mark/Part
1	CL197
2	CL199
3	CL198

FLANGE BRACES: FBxx (1 or 2)
 xx=length(in)
 (1) One Side; (2) Two Sides
 A - L2X2X14G



RIGID FRAME ELEVATION: FRAME LINE 4

GENERAL NOTES:

- BOLT TIGHTENING - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRE-TENSIONING METHODS, INCLUDING TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT-TENSION-INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT BOLTS DIRECT-TENSION-INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT BOLTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.1) IS SUGGESTED.
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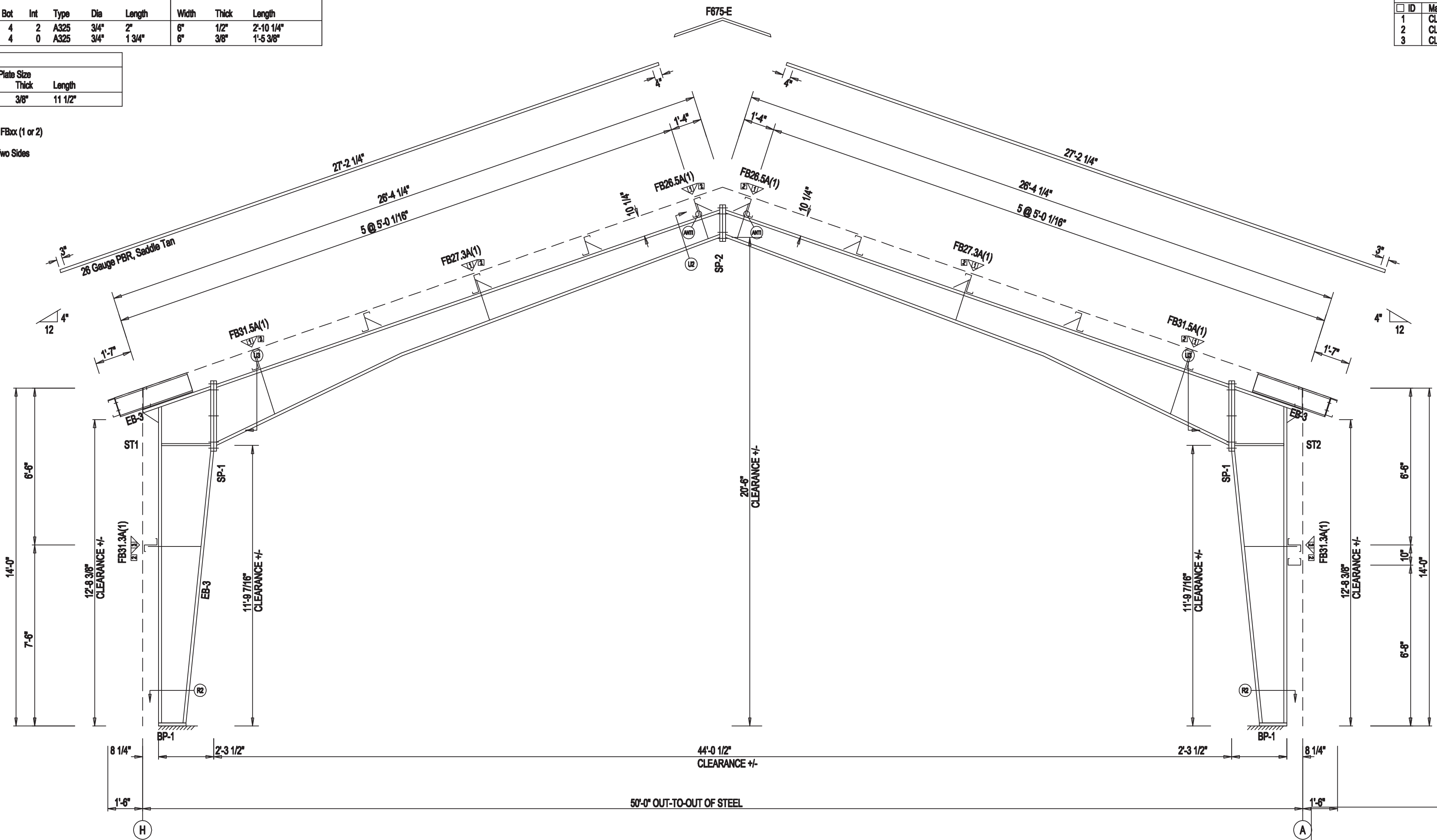
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SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	2"	6"	1/2"	2'-10 1/4"
SP-2	4	4	0	A325	3/4"	1 3/4"	6"	3/8"	1'-5 3/8"

BASE PLATE TABLE			
Col Mark	Width	Plate Size Thick	Length
BP-1	6"	3/8"	11 1/2"

CONNECTION PLATES	
ID	Mark/Part
1	CL197
2	CL199
3	CL198

FLANGE BRACES: FBxx (1 or 2)
 xx=length(in)
 (1) One Side; (2) Two Sides
 A - L2X2X14G



RIGID FRAME ELEVATION: FRAME LINE 2 3

GENERAL NOTES:

- BOLT TIGHTENING - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRE-TENSIONING METHODS, INCLUDING TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT-TENSION-INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT BOLTS DIRECT-TENSION-INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT BOLTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.1) IS SUGGESTED.
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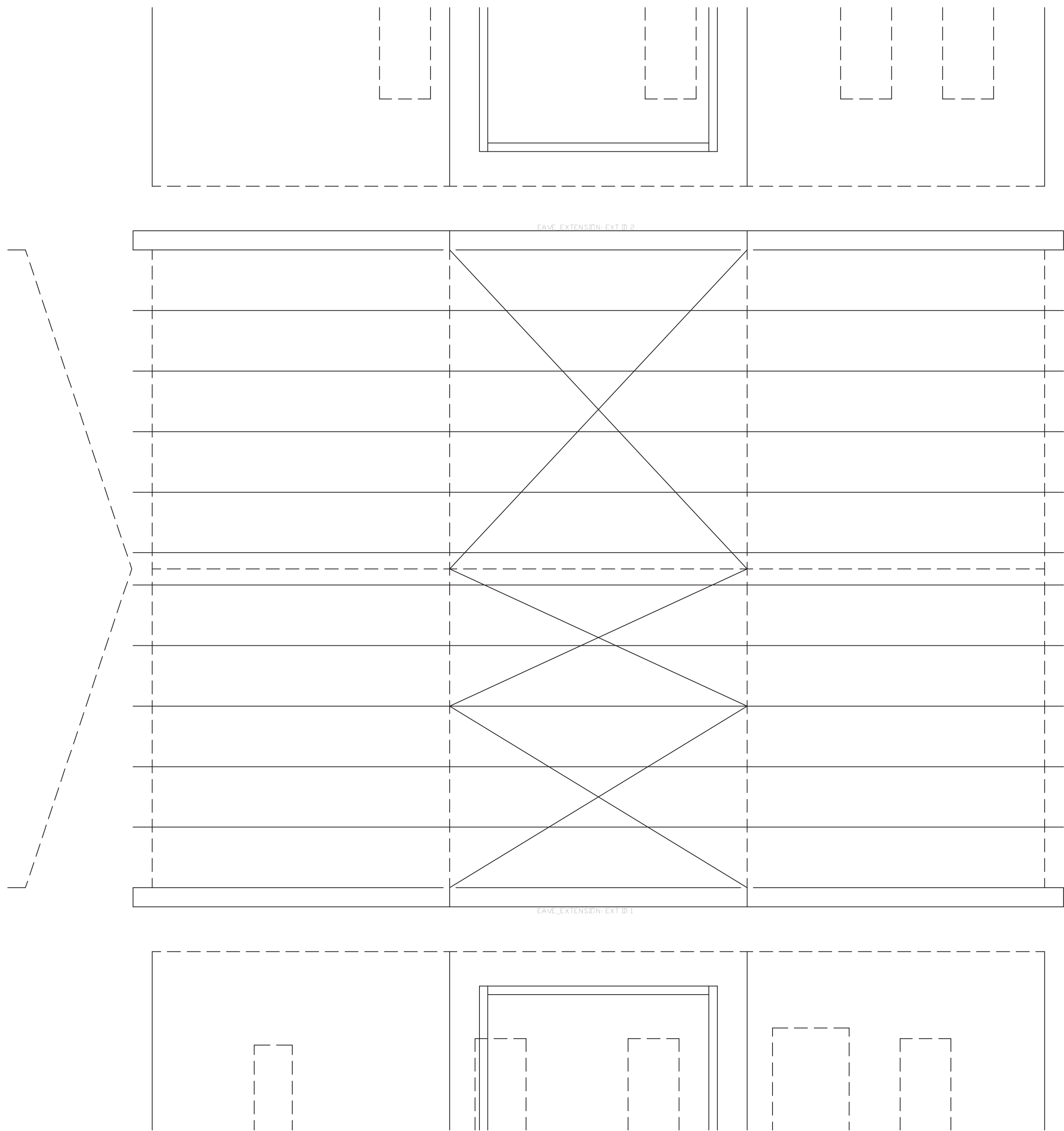
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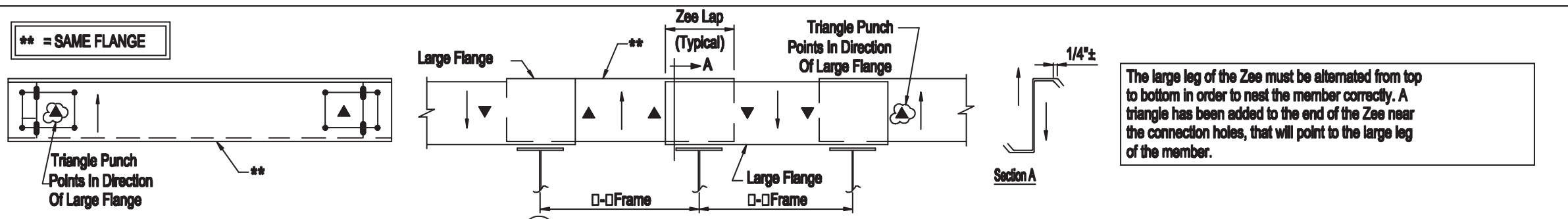
HERITAGE
BUILDING SYSTEMS

2513 MCCAIN BLVD, STE 2 #385
 NORTH LITTLE ROCK, AR 72116-7606
 1-800-643-5555

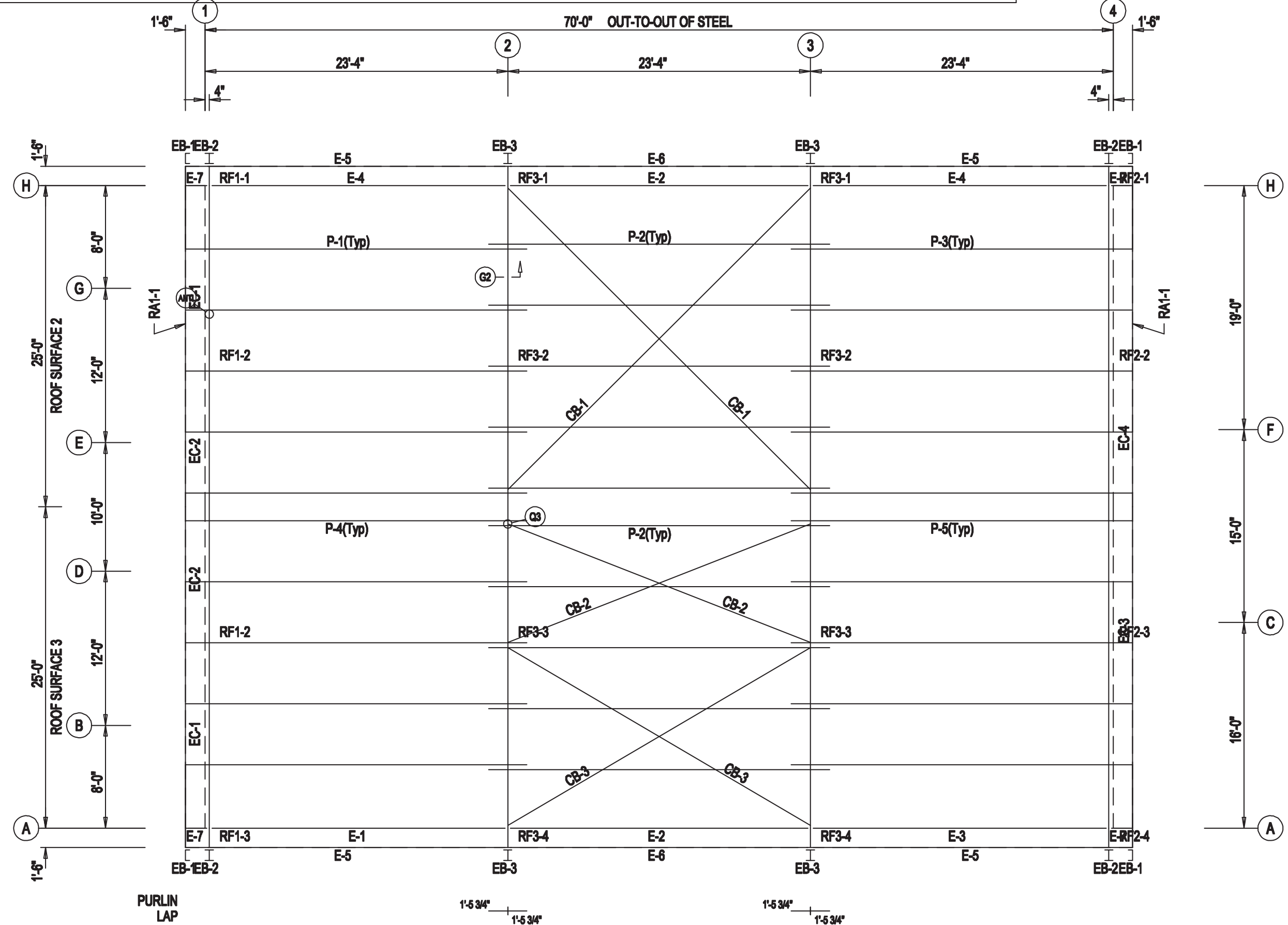
PROJECT:							
CUSTOMER:		OWNER:					
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		E9	0

S-32





EXTENSION/CANOPY BOLTS				
ROOF PLAN				
MARK	QUAN	TYPE	DIA	LENGTH
EB-2	4	A325	1/2"	1 1/4"
EB-3	4	A325	1/2"	1 1/4"



ROOF FRAMING PLAN

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

HERITAGE
BUILDING SYSTEMS

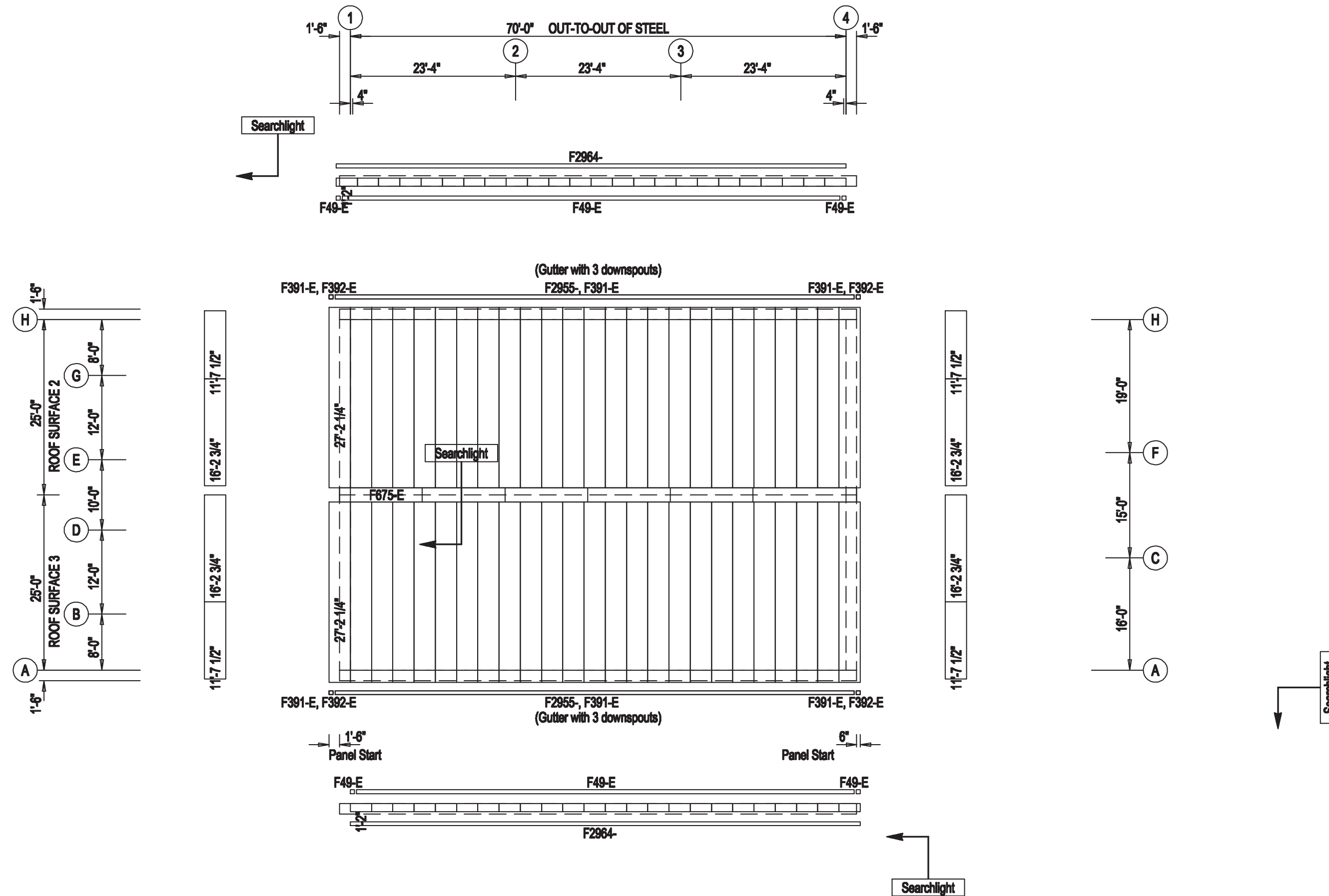
2513 MCCAIN BLVD., STE. 2 #385
NORTH LITTLE ROCK, AR 72116-7606
1-800-643-6555

S-34

- GENERAL NOTES:**
1. INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
 2. ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 3. STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
 4. DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
 5. DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
 6. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

PROJECT:		CUSTOMER:		OWNER:	
LOCATION:		CAD	DATE	SCALE	PHASE
			4/12/22	N.T.S.	1
		BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
		A		E1	0

PBR ROOF SHEETING NOTE:
 PBR ROOF PANELS ARE TO BE FIELD CUT IF THE PANELS EXTEND OUTSIDE OF THE ROOF PLANE, PANELS ARE NOT TO BE BACK LAPPED.



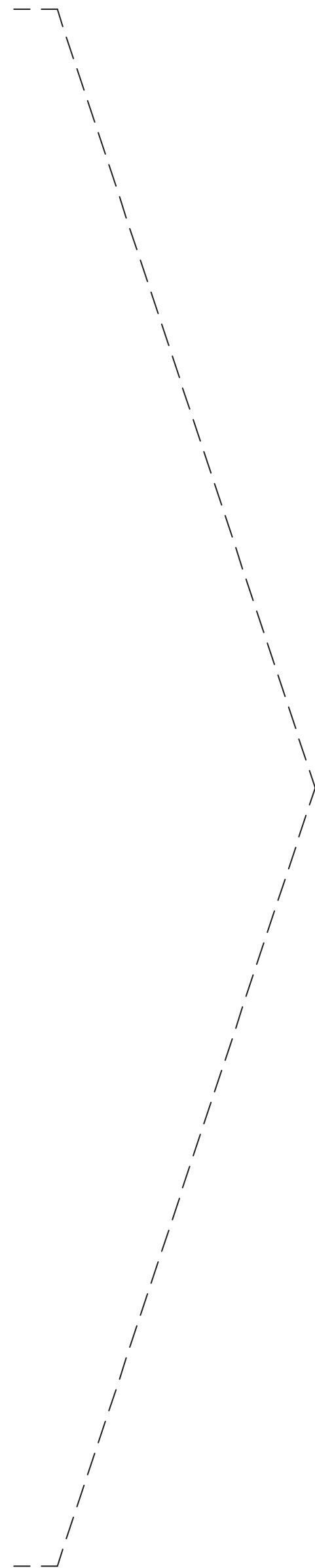
ROOF SHEETING PLAN
 PANELS: 26 Gauge PBR - Saddle Tan

- GENERAL NOTES:**
1. INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
 2. ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 3. STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
 4. DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
 5. DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
 6. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

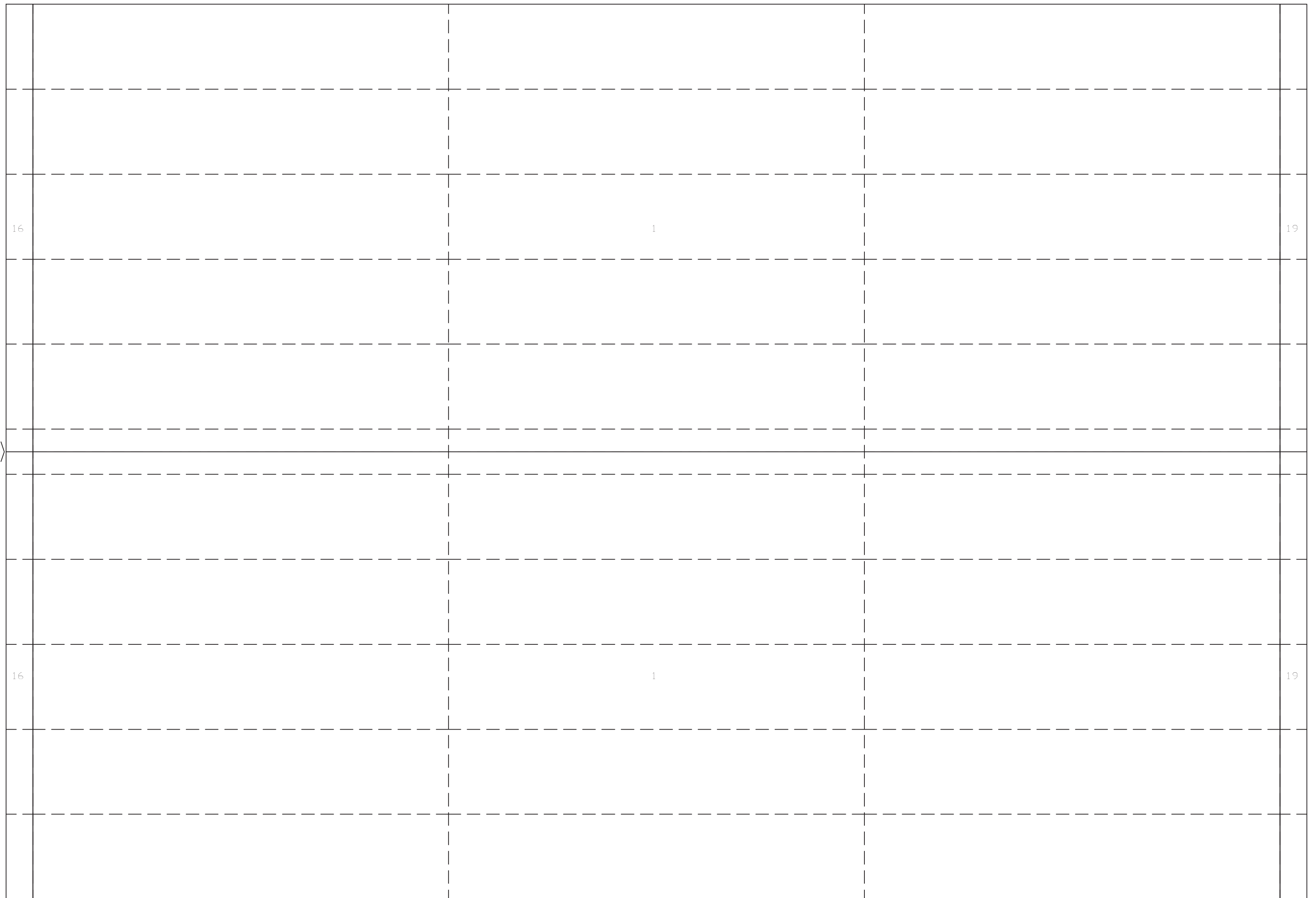
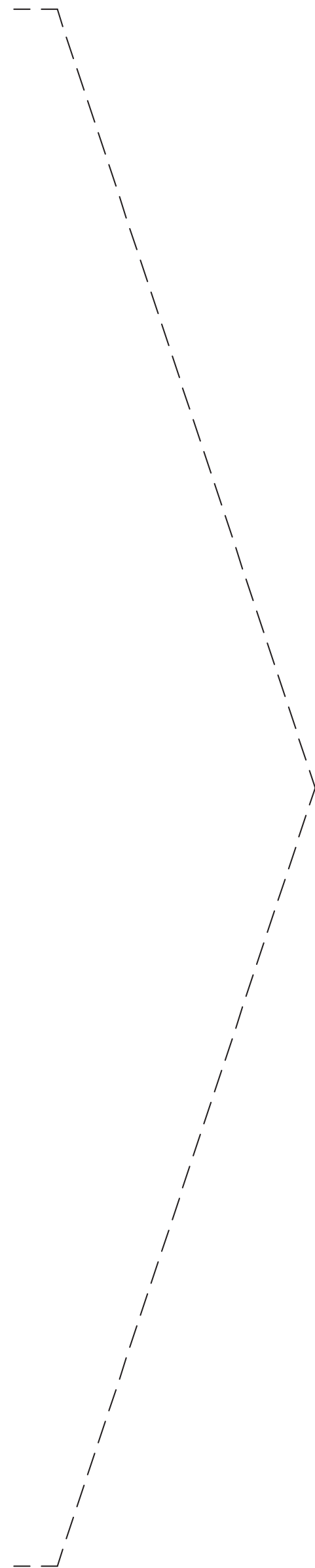
ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

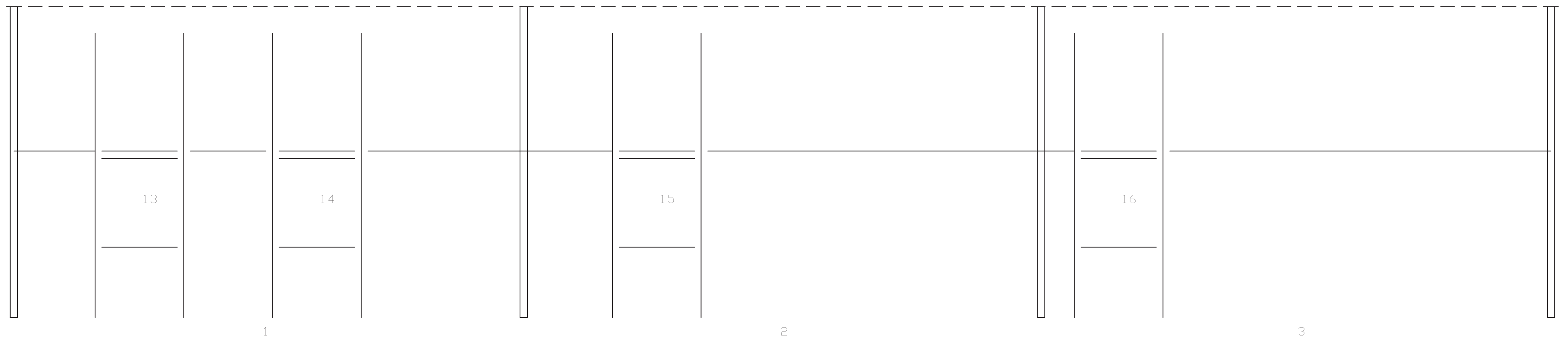
HERITAGE BUILDING SYSTEMS									
2513 MCCAIN BLVD, STE 2 #385 NORTH LITTLE ROCK, AR 72116-7606 1-800-643-5555									
PROJECT:					OWNER:				
CUSTOMER:					OWNER:				
LOCATION:									
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE		
	4/12/22	N.T.S.	1	A		E2	0		

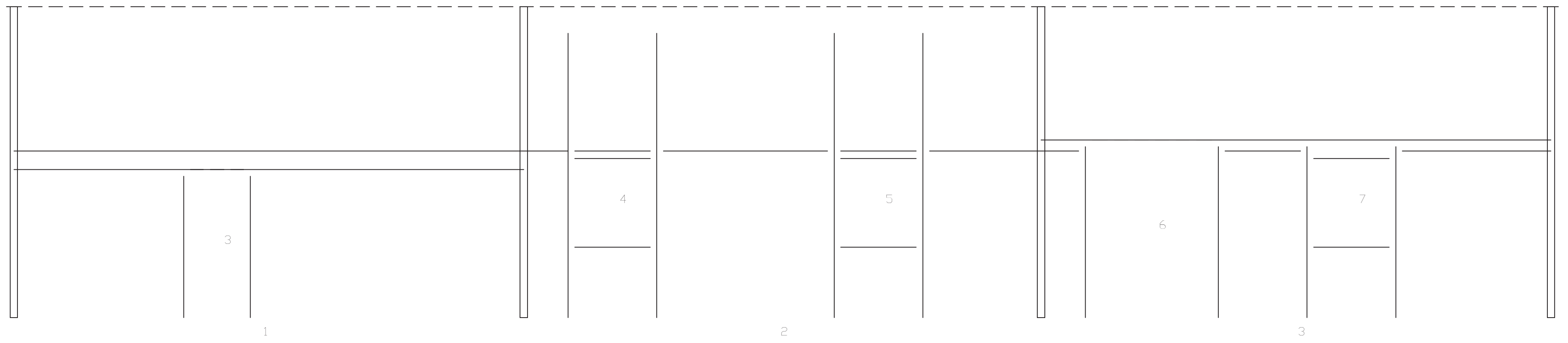
S-35

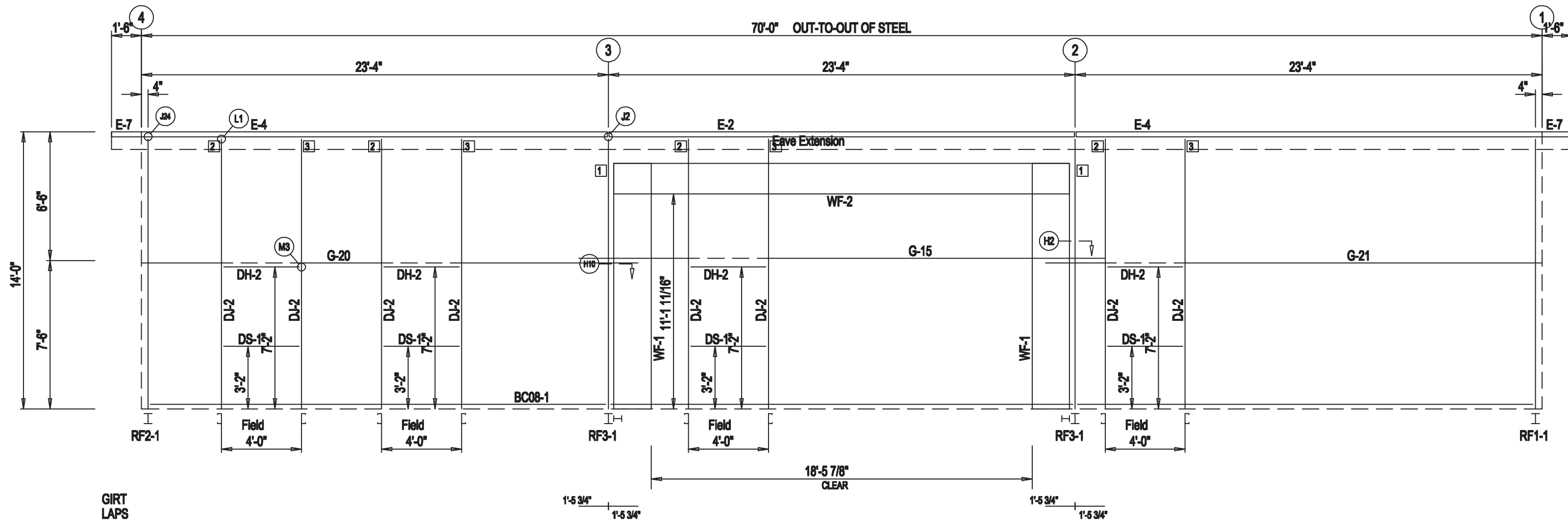


17										20
16	3				1				5	19
18	10				6				9	21
17	7				4				8	20
16	3				1				5	19
18										21





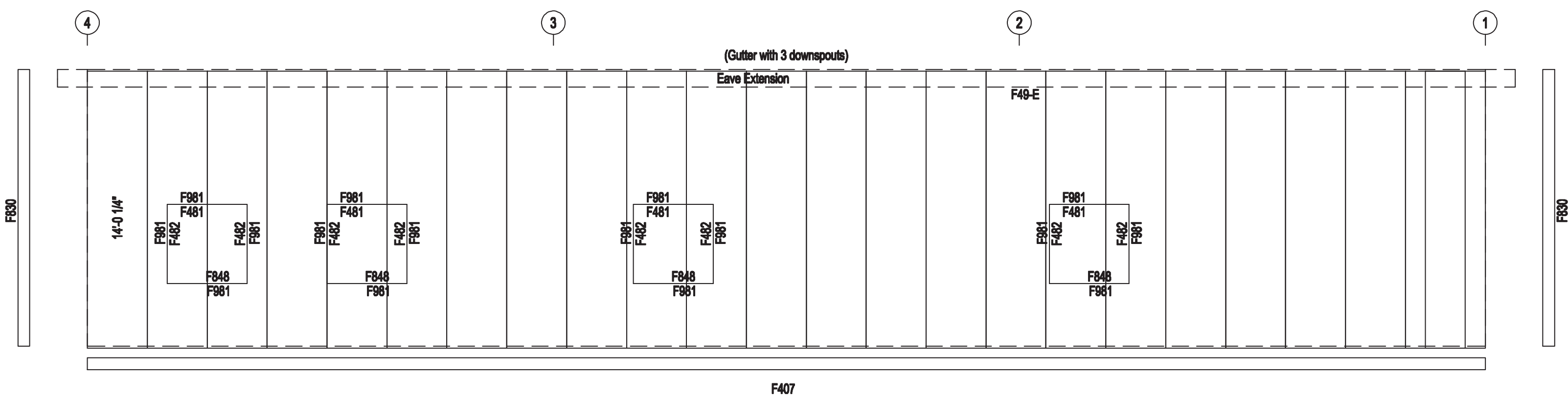




SIDEWALL FRAMING: FRAME LINE H

BOLT TABLE				
FRAME LINE H				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 - WF-2	8	A325	3/4"	2"
WF-1 - RF3-1	8	A325	3/4"	1 1/2"

CONNECTION PLATES	
FRAME LINE H	
ID	MARK/PART
1	SC478
2	SC587_L
3	SC587_R



SIDEWALL SHEETING & TRIM: FRAME LINE H

PANELS: 26 Gauge PBR - Light Stone

ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

HERITAGE
BUILDING SYSTEMS

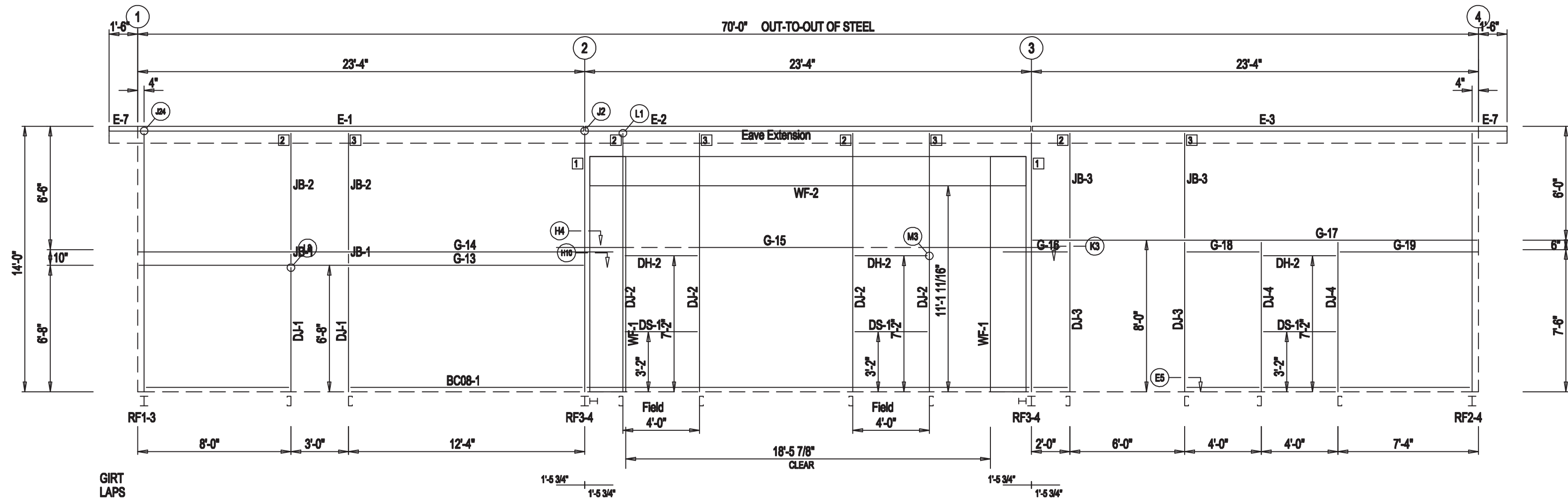
2513 MCCAIN BLVD, STE 2 #385
NORTH LITTLE ROCK, AR 72116-7606
1-800-643-6555

PROJECT:		CUSTOMER:		OWNER:			
LOCATION:							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		E4	0

GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

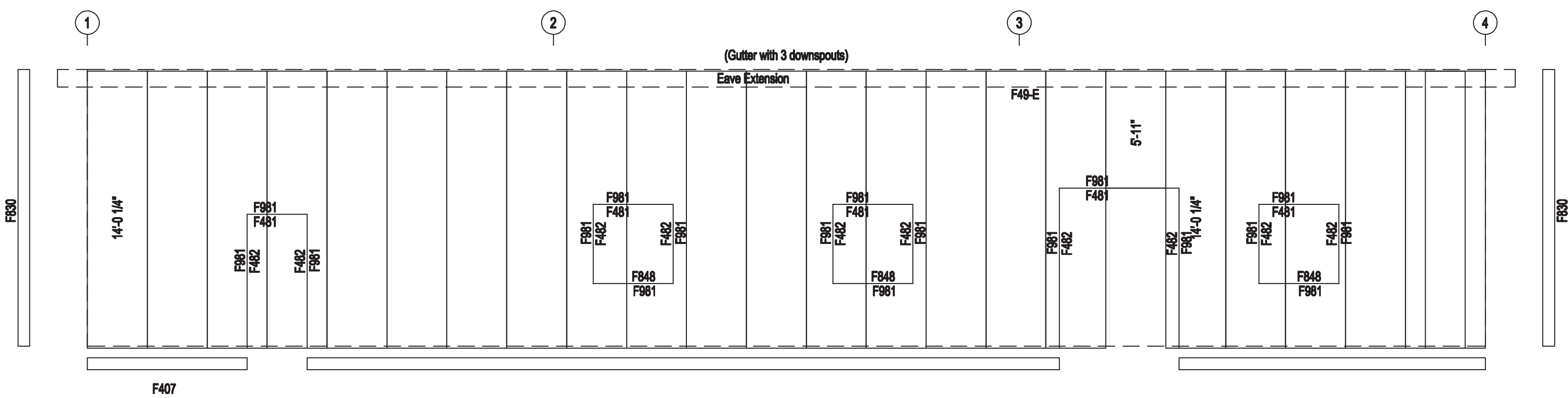
S-40



SIDEWALL FRAMING: FRAME LINE A

BOLT TABLE				
FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 - WF-2	8	A325	3/4"	2"
WF-1 - RF3-4	8	A325	3/4"	1 1/2"

CONNECTION PLATES	
FRAME LINE A	
ID	MARK/PART
1	SC479
2	SC587_L
3	SC587_R



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Gauge PBR - Light Stone

DOWNSPOUT SPACING LOCATIONS
 DOWNSPOUTS ARE TO BE PLACED AT A SPACING NOT TO EXCEED ?? FT. WITH A DOWNSPOUT WITHIN ?? FT. OF EACH END OF THE GUTTER RUN. GUTTER STRAPS TO BE 2'-0" ON CENTER.

GENERAL NOTES:
 1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
 2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
 4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

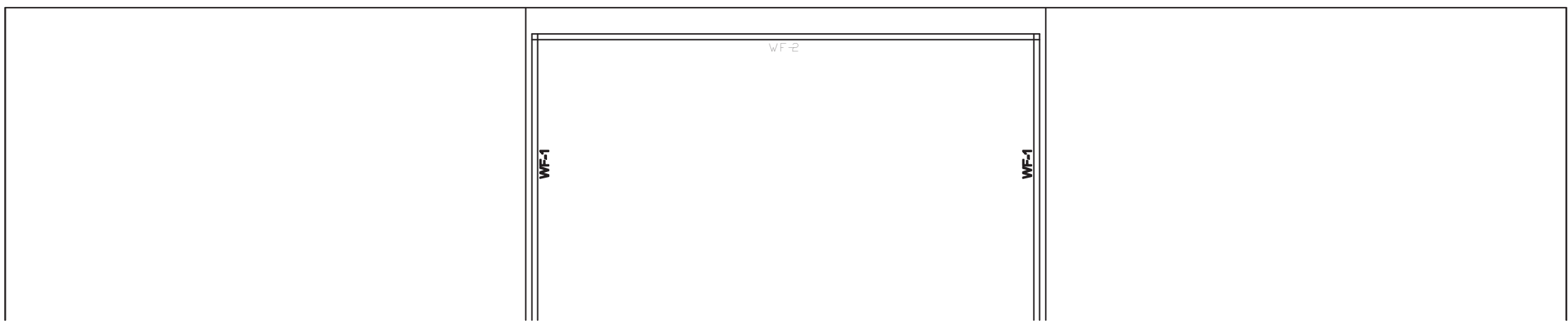
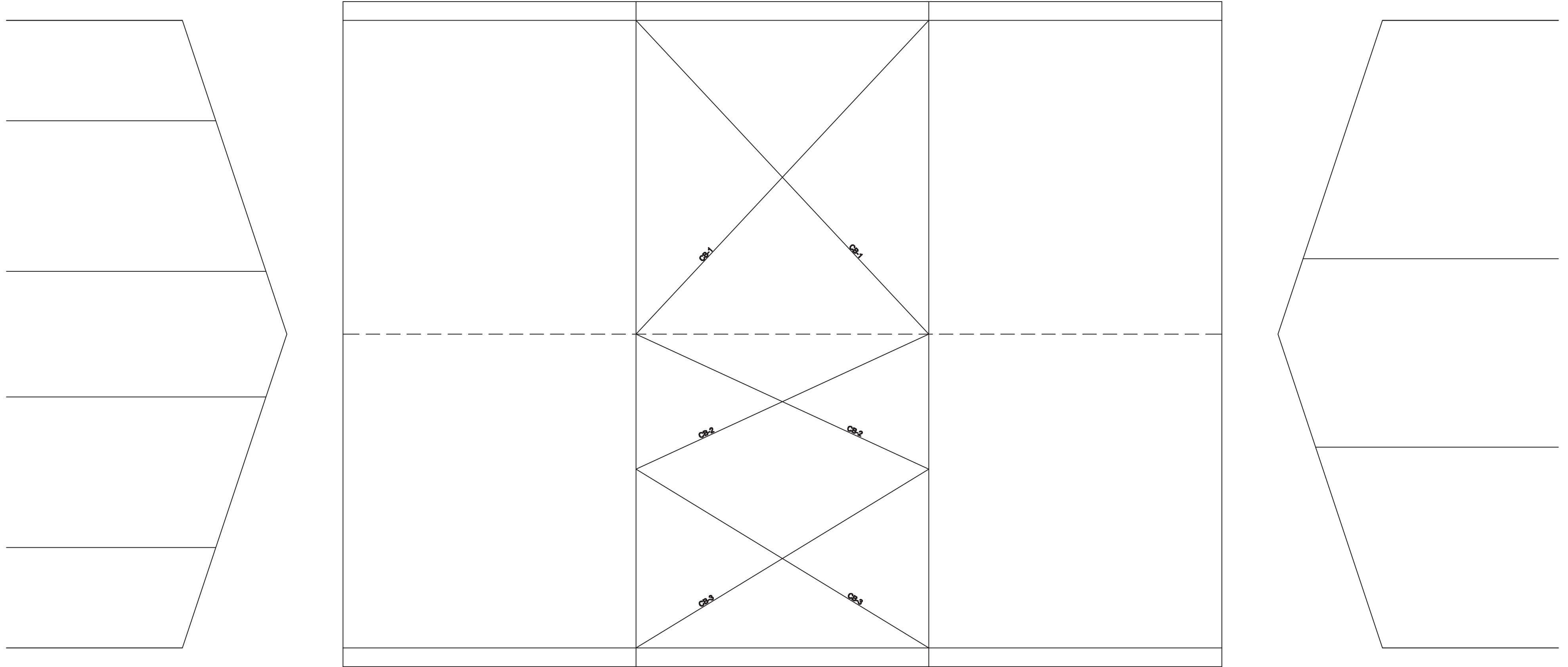
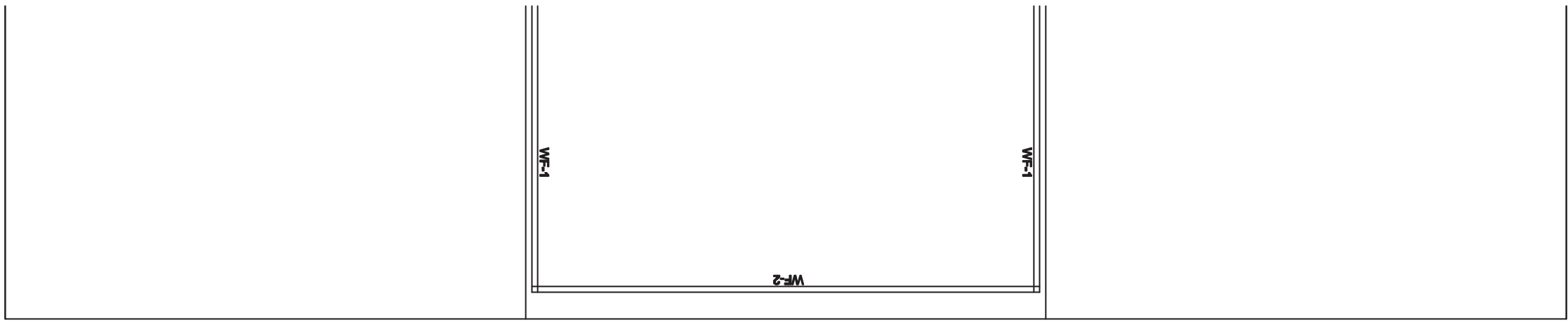
ISSUE	DATE	DESCRIPTION	BY	CKD	DSN
0	4/12/22	FOR QUOTE			

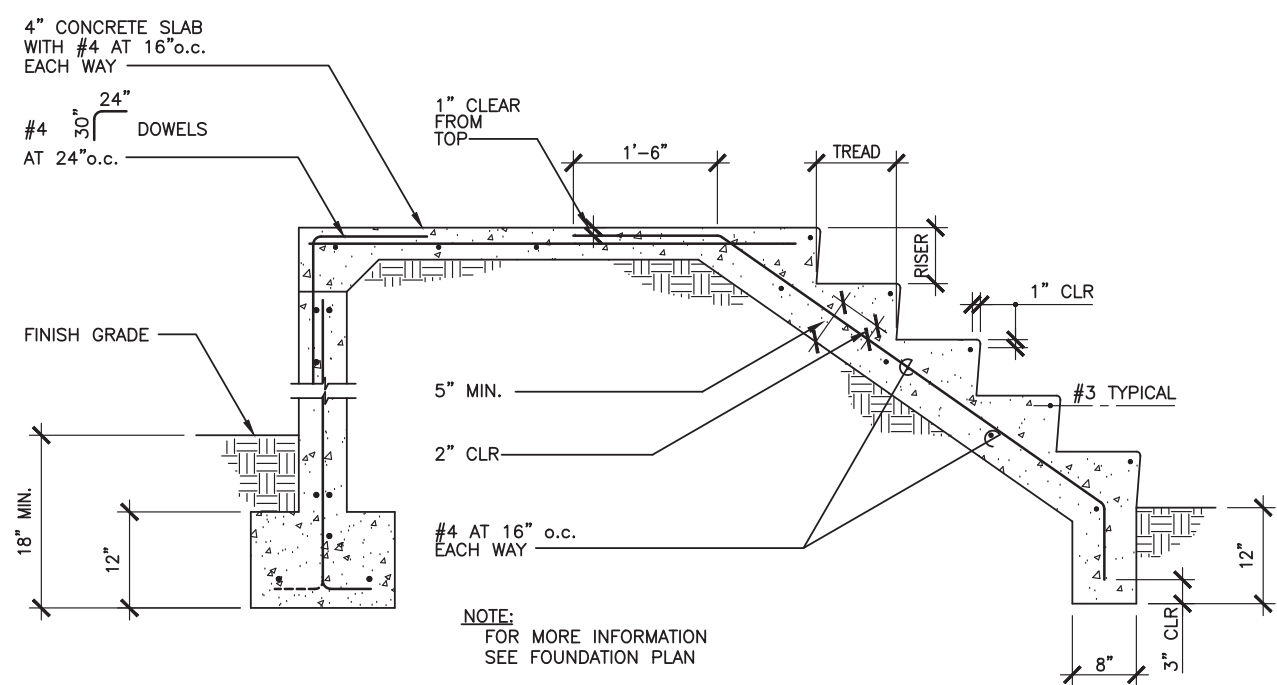
HERITAGE
 BUILDING SYSTEMS

2513 MCCAIN BLVD, STE 2 #385
 NORTH LITTLE ROCK, AR 72116-7606
 1-800-643-6555

PROJECT:		OWNER:					
CUSTOMER:		LOCATION:					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/12/22	N.T.S.	1	A		E3	0

S-41

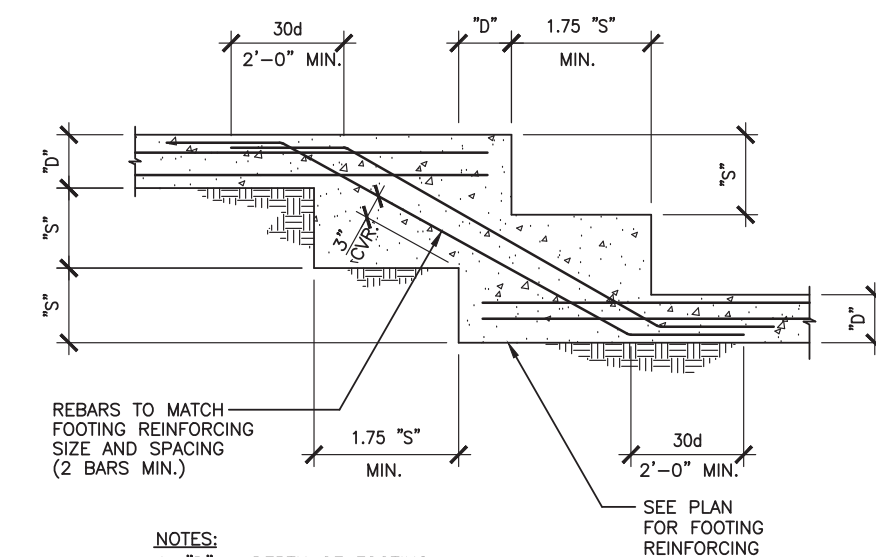




TYPICAL STAIR ON GRADE

3/4"-1"

6

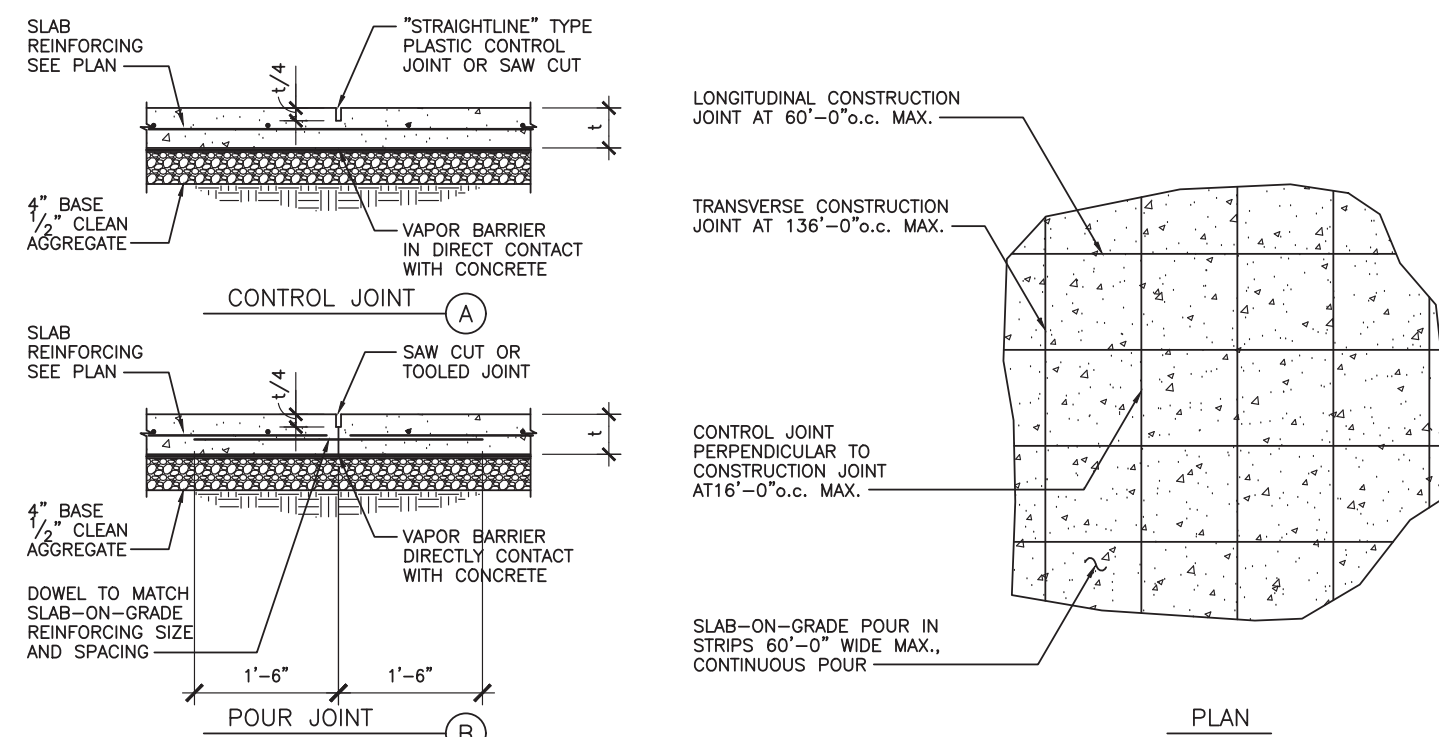


- NOTES:
 1. "D" = DEPTH OF FOOTING
 2. "S" = 1'-6" MAX. U.O.N.
 3. d = BAR DIAMETER

TYPICAL STEPPED FOOTING

3/4"-1"

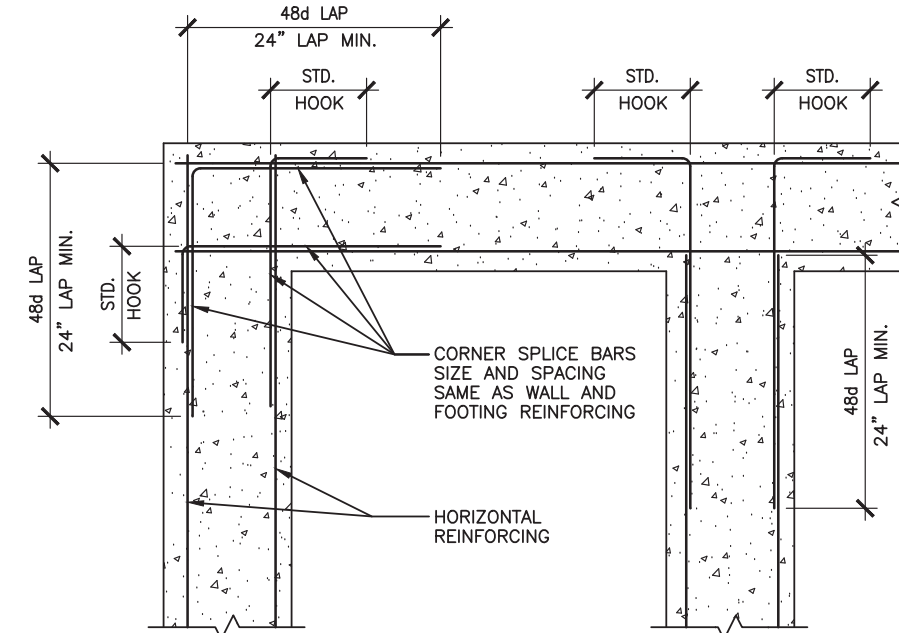
3



TYPICAL SLAB-ON-GRADE DETAIL

3/4"-1"

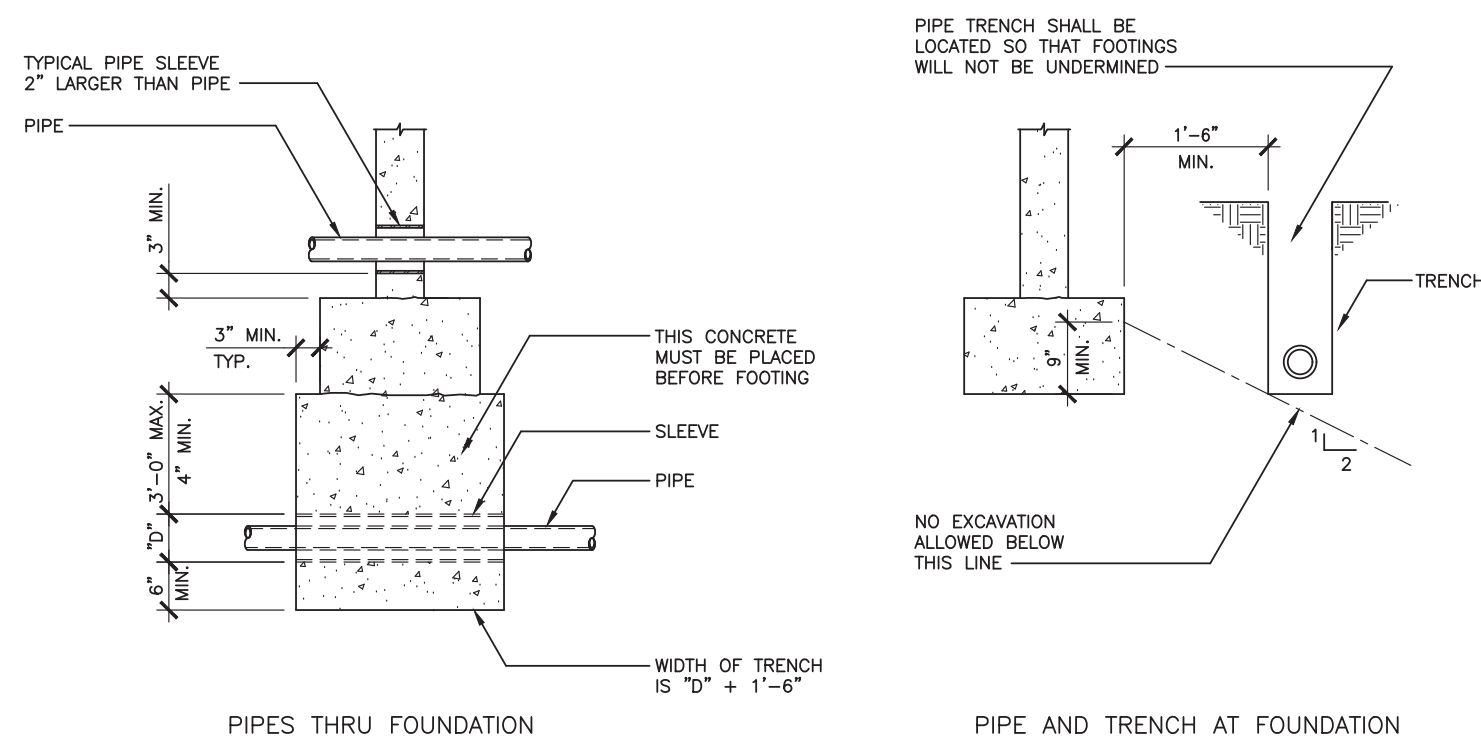
5



TYPICAL FOOTING/WALL CORNER REINFORCING

3/4"-1"

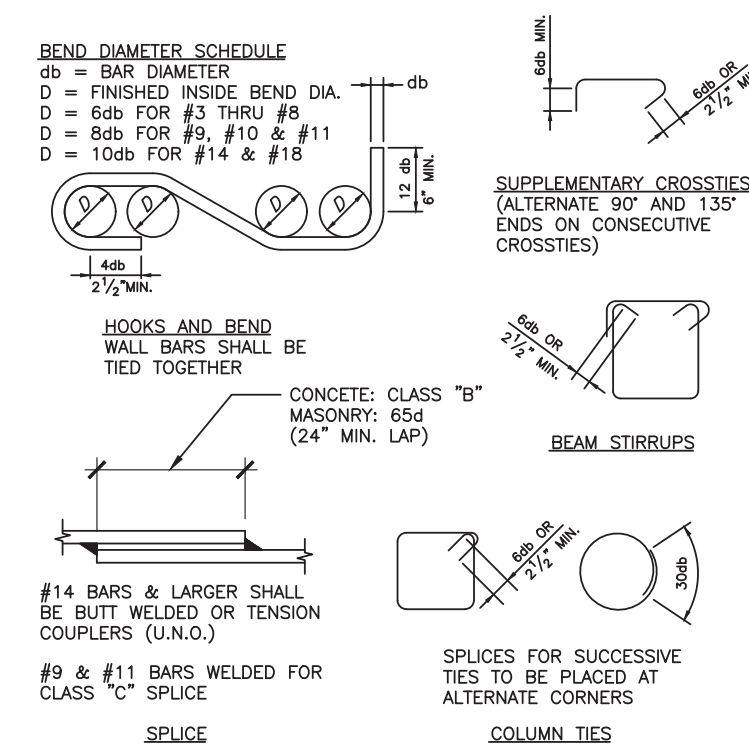
2



TYPICAL PIPE AT FOOTING

3/4"-1"

4



TYPICAL REBAR BENT

3/4"-1"

1

REVISION DESCRIPTION	BUILDING DEPARTMENT SUBMITTAL
DATE	10-15-2022
NO.	1
DATE ISSUED	10-15-2022
DRAWN BY	ML
CHECKED BY	TL

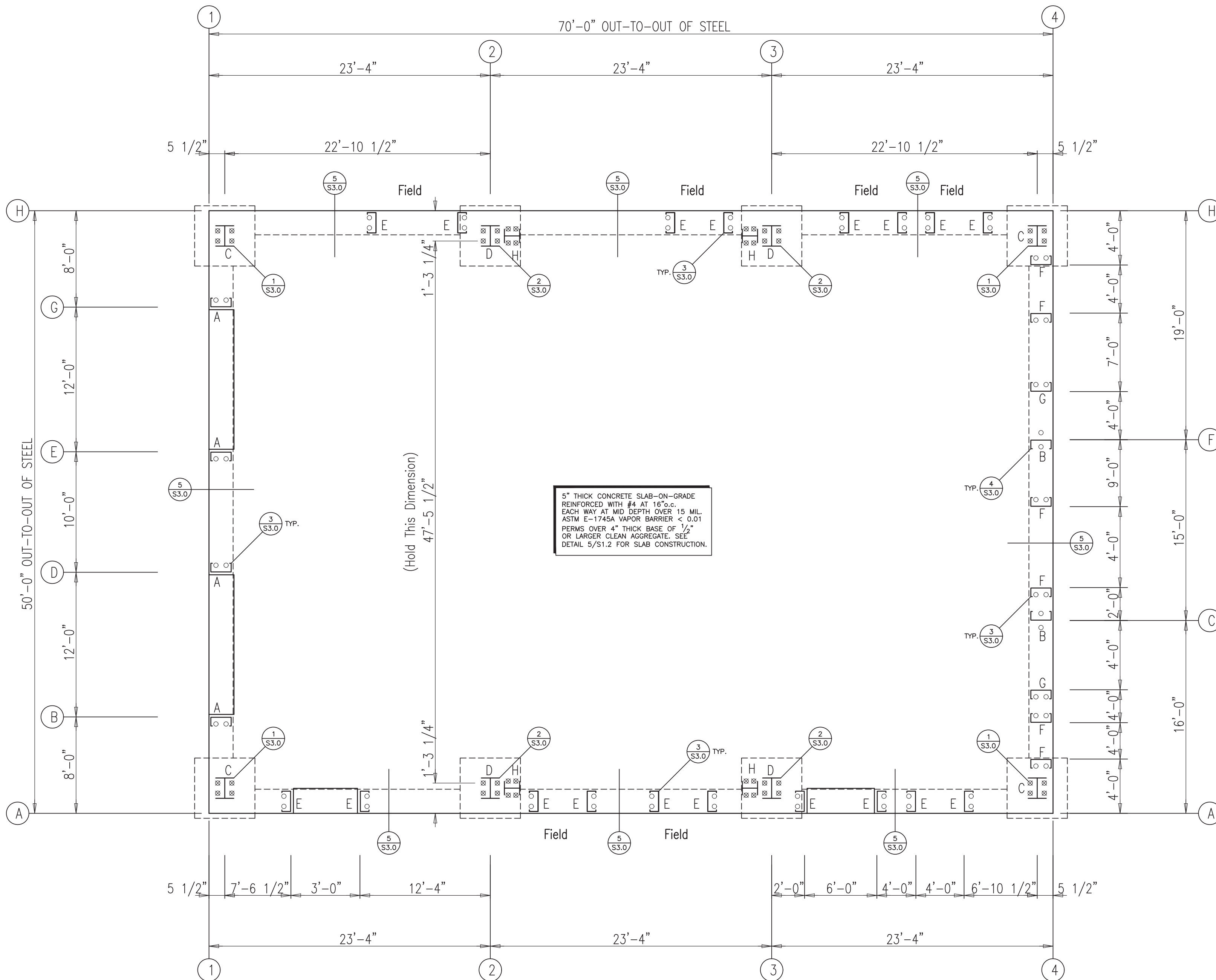
THANG LE & ASSOCIATES, INC.
 STRUCTURAL ENGINEERS, INC.
 319 E. FOOTHILL BLVD., SUITE C
 ARCADIA, CALIFORNIA 91006
 PHONE: (626) 731-1539

REGISTERED PROFESSIONAL ENGINEER
 THANG H. LE
 S 4978
 EXP 06/30/24
 STATE OF CALIFORNIA
 10.15.2022

LARSON BARN
 10818 CROTHERS ROAD
 SAN JOSE, CALIFORNIA 95127

TYPICAL CONCRETE DETAILS

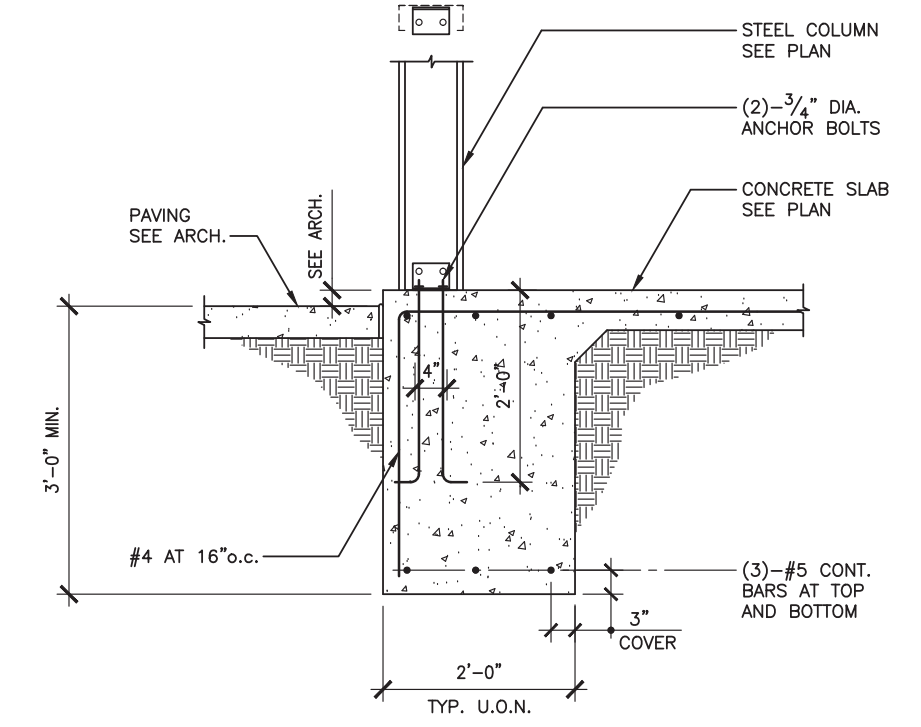
S1.2



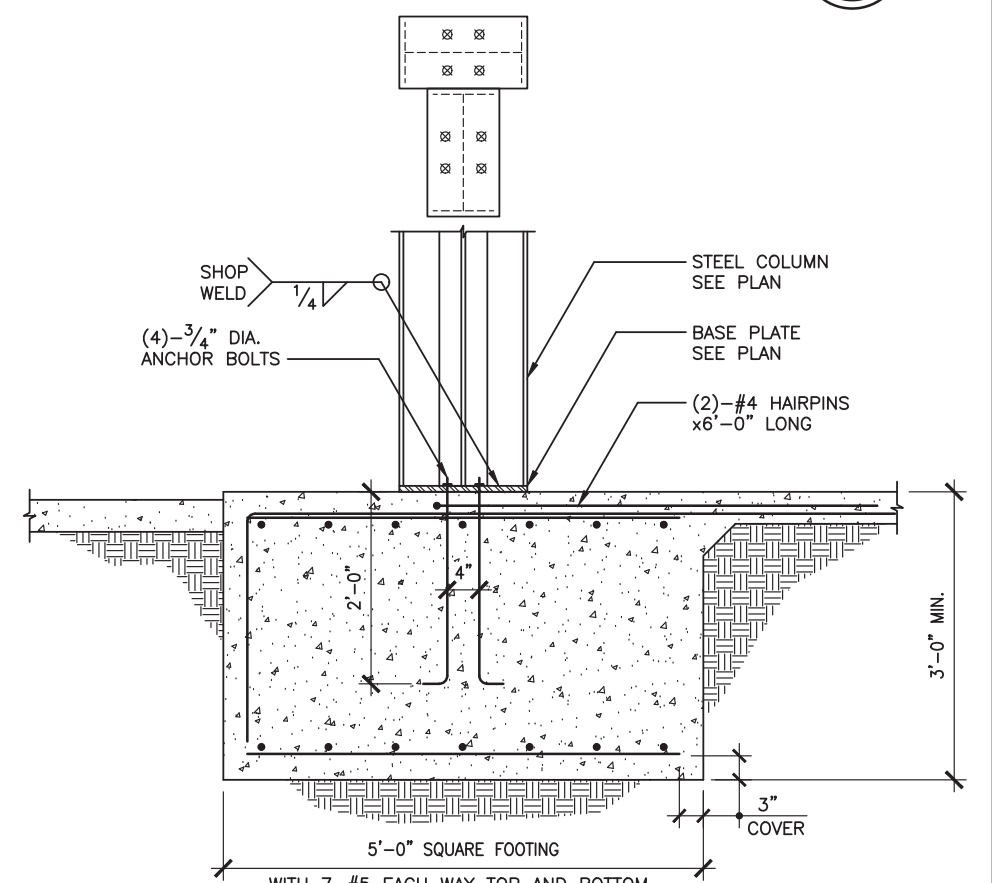
FOUNDATION PLAN
 SCALE: 1/4"=1'-0"

- NOTES:
1. ALL COLUMN FOOTINGS ARE CENTERED ON COLUMNS AND COLUMNS ARE CENTERED ON GRIDS U.O.N. WALL FOOTINGS ARE CENTERED BENEATH WALLS U.O.N.
 2. SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
 3. SEE SHEET S1.2 FOR TYPICAL CONCRETE DETAILS.
 4. VERIFY SIZE, LOCATION AND DEPTH OF UTILITIES AND SLEEVES WITH OTHER TRADES. FOR MECH LINES BELOW FOUNDATION, STEP AND THICKEN FOOTING AS INDICATED IN DETAIL.
 5. VERIFY SHOWN DIMENSIONS WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS. NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO CONSTRUCTION.
 6. FOR TYPICAL FOOTING/WALL CORNER BAR REINFORCING SEE (S1.2)
 7. --- DESIGNATES GRADE BEAM
 --- SEE PLAN FOR REINFORCEMENT
 8. [] DESIGNATES NEW PAD FOOTING, SEE PLAN (S1.2) FOR REINFORCEMENT
 9. IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION REPORT MAY BE REQUIRED.

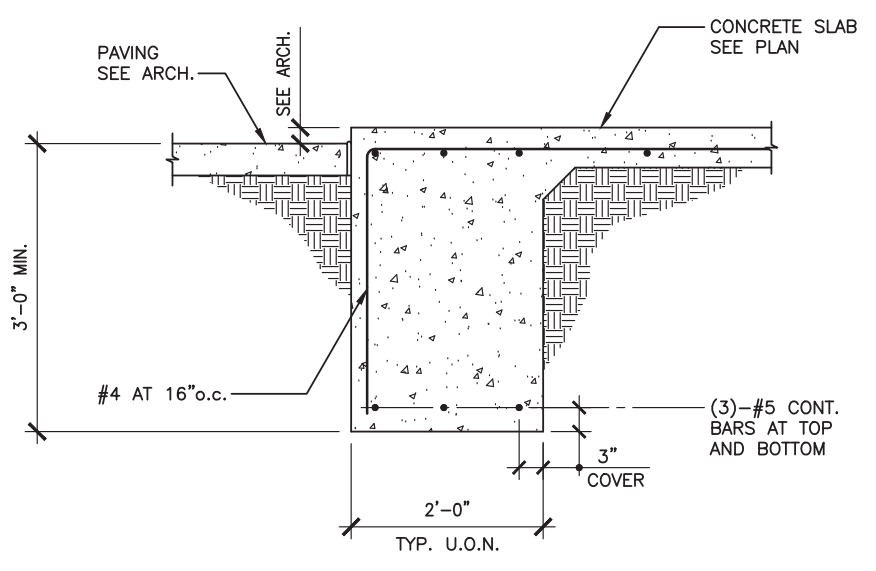
REVISION	DESCRIPTION
DATE	BUILDING DEPARTMENT SUBMITTAL
NO.	DATE ISSUED
10-15-2022	10-15-2022
DRAWN BY	CHECKED BY
ML	TL
THANG LE & ASSOCIATES, INC. STRUCTURAL ENGINEERS, INC. 319 E. FOOTHILL BLVD., SUITE C ARCADIA, CALIFORNIA 91006 PHONE: (626) 731-1539	
10.15.2022	
LARSON BARN 10818 CROTHERS ROAD SAN JOSE, CALIFORNIA 95127	
FOUNDATION PLAN	
S2.0	



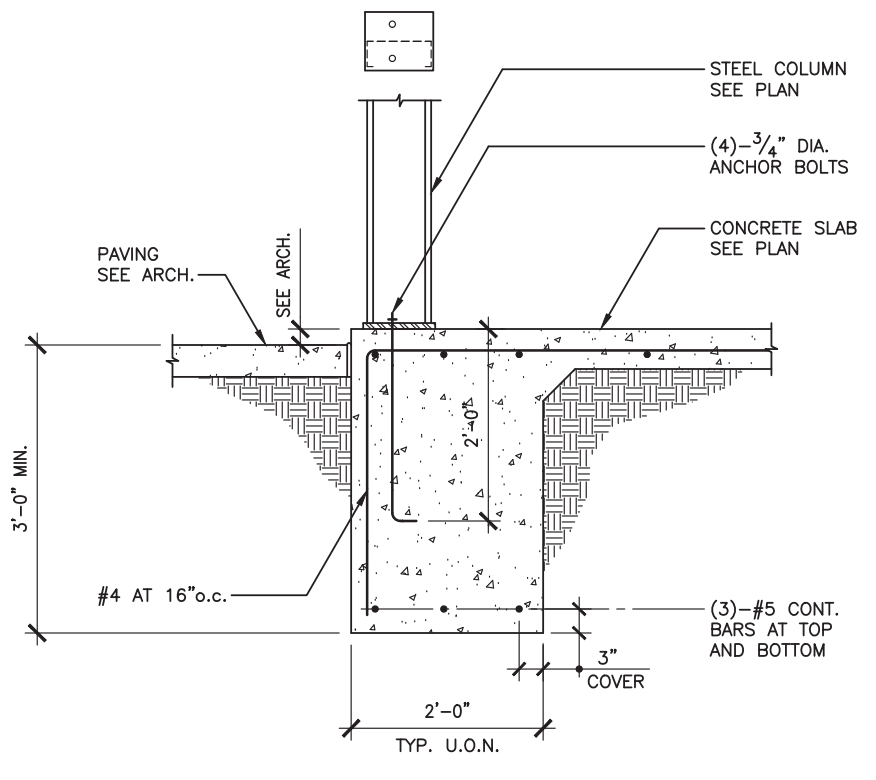
THICKENED SLAB EDGE
3/4"-1" 3



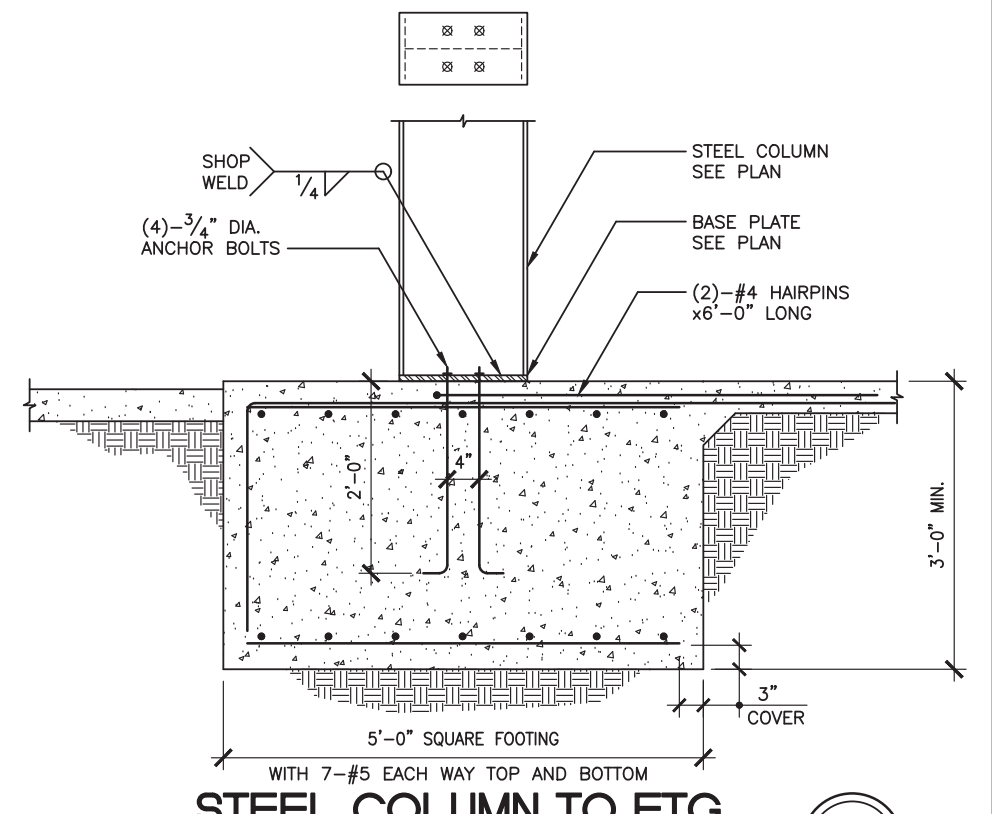
STEEL COLUMN TO FTG
3/4"-1" 2



THICKENED SLAB EDGE
3/4"-1" 5



THICKENED SLAB EDGE
3/4"-1" 4

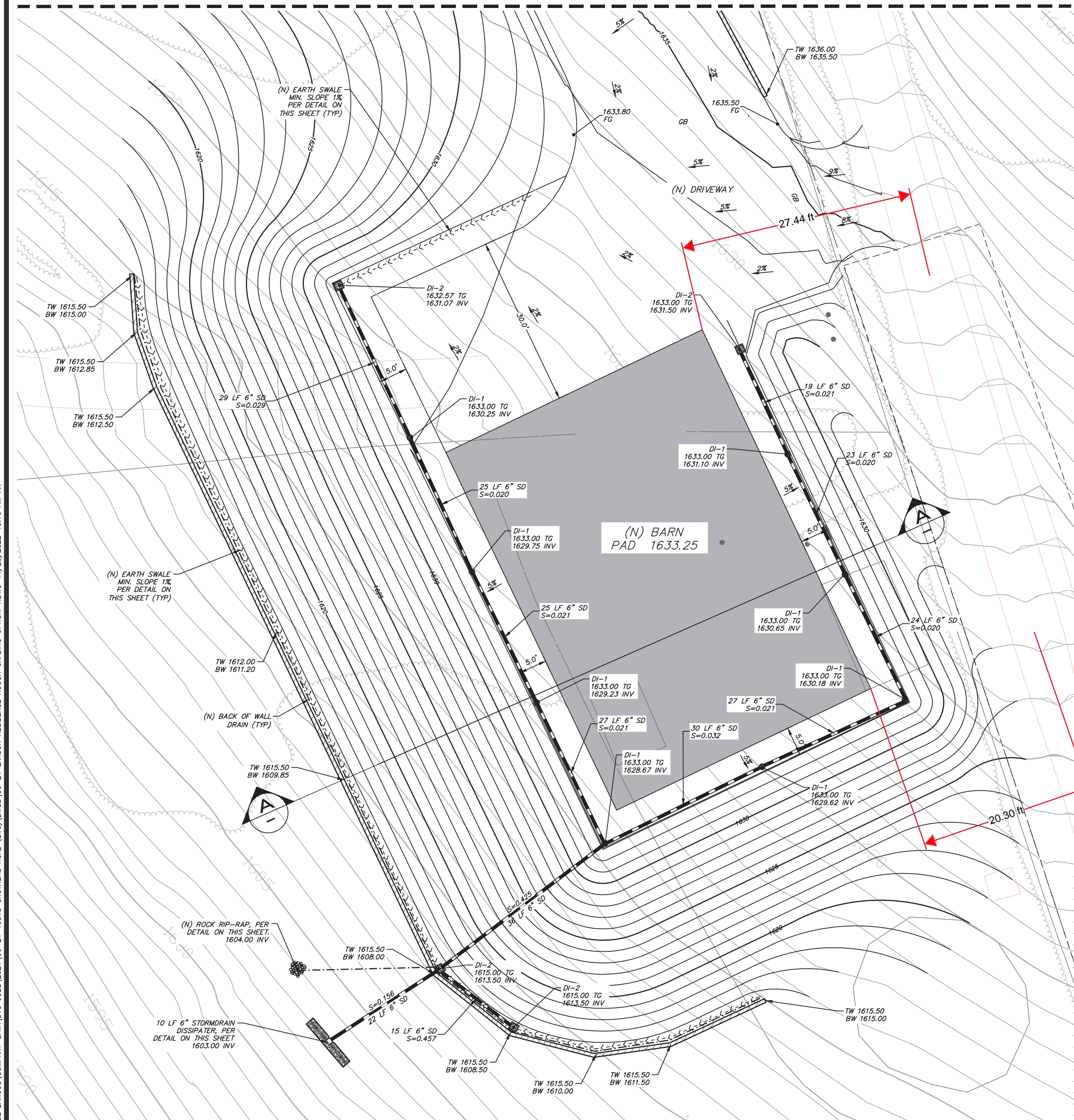


STEEL COLUMN TO FTG
3/4"-1" 1

	REVISION DESCRIPTION	DATE	NO.	DATE ISSUED	DRAWN BY	CHECKED BY
	BUILDING DEPARTMENT SUBMITTAL	10-15-2022		10-15-2022	ML	TL
THANG LE & ASSOCIATES STRUCTURAL ENGINEERS, INC.						
319 E. FOOTHILL BLVD., SUITE C ARCADIA, CALIFORNIA 91006 PHONE: (626) 731-1539						
10.15.2022						
LARSON BARN						
10818 CROTHERS ROAD SAN JOSE, CALIFORNIA 95127						
FOUNDATION DETAILS						
S3.0						

MATCH LINE SEE SHEET C7

MATCH LINE SEE SHEET C7

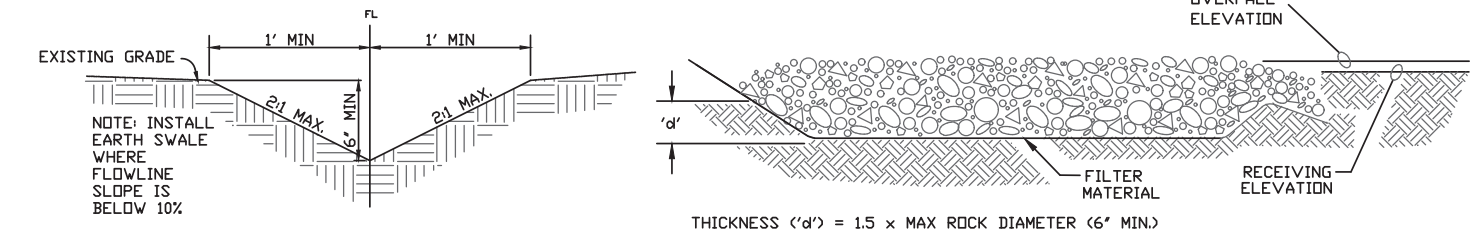
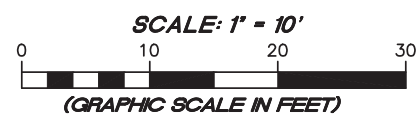


BARN ROUGH GRADING PLAN

EARTHWORK:

	CUT	FILL	NET
BARN	10 CY	5520 CY	5510 CY FILL
TOTAL	10 CY	5520 CY	5510 CY FILL <IMPORT>

NOTE: NO DEDUCTION FOR PAD/CONCRETE WAS ASSUMED.



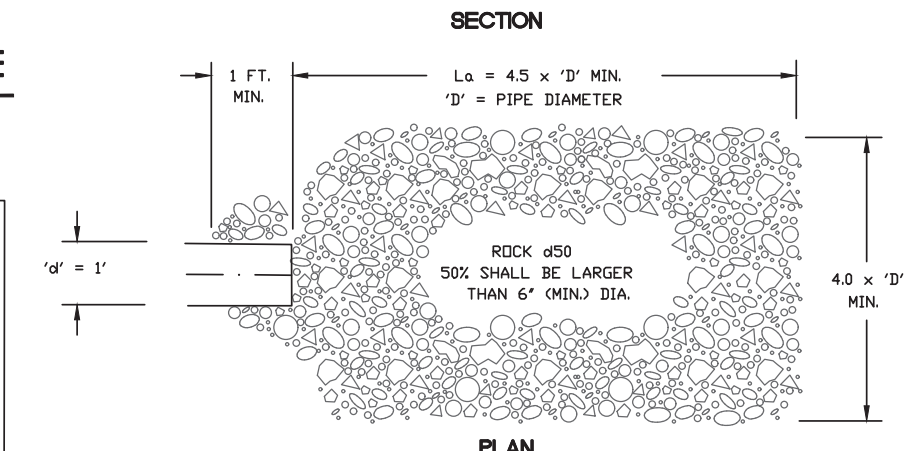
EARTH SWALE

NOT TO SCALE

DRAINAGE SCHEDULE

- DI-1: 6" ROUND ATRIUM GRATE (OR APPROVED EQUAL)
- DI-2: 12"x12" OLDCASTLE PRECAST CONCRETE INLET (OR APPROVED EQUAL)
- TD-1: TRAFFIC RATED TRENCH DRAIN (OR APPROVED EQUAL)

ALL 6" STORM DRAIN PIPE TO BE HDPE DUAL WALL.
ALL 4" STORM DRAIN AND ROOF LEADER DRAIN PIPE TO BE PVC SCHEDULE 40.



SECTION

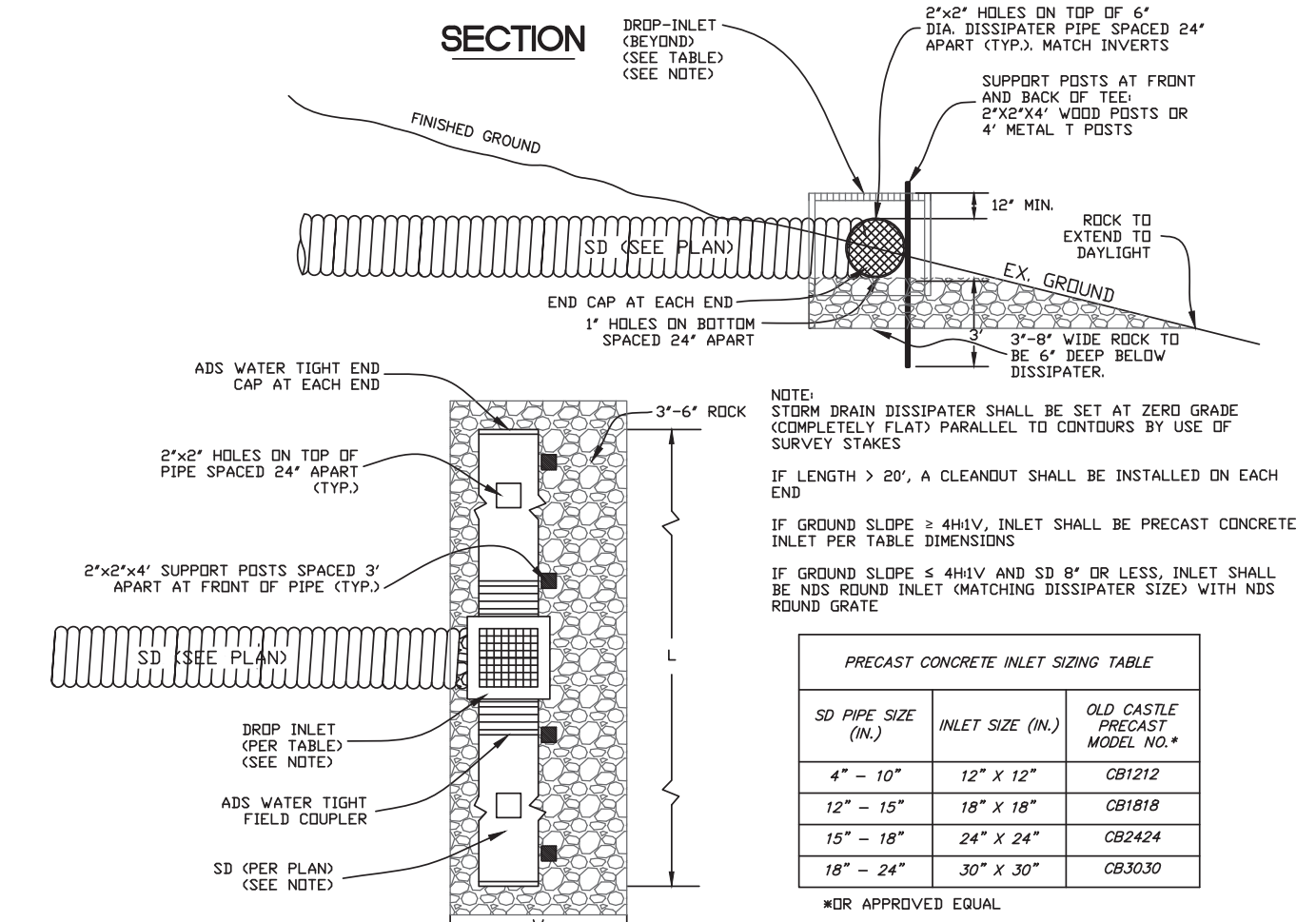
PLAN

- NOTES:
- 'L_o' = LENGTH OF APRON. DISTANCE 'L_o' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
 - APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
 - FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" THICK (MIN) GRADED GRAVEL LAYER.

ROCK OUTLET FOR BACK OF WALL DRAIN

NOT TO SCALE

SECTION



PLAN

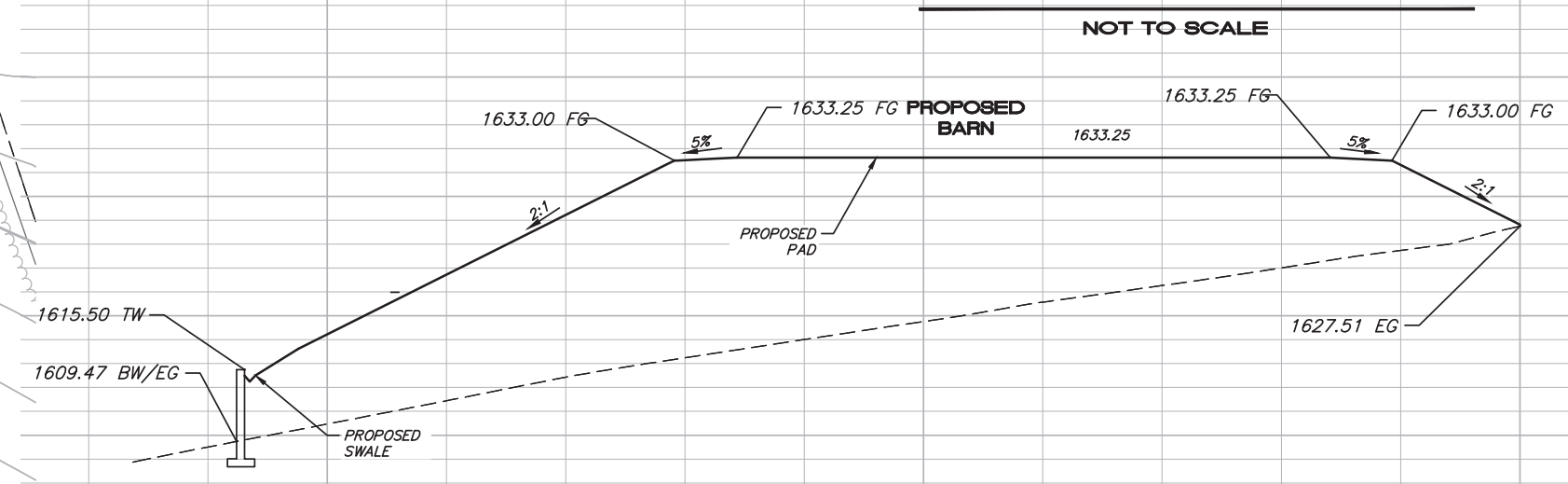
STORM DRAIN DISSIPATER

NOT TO SCALE

PRECAST CONCRETE INLET SIZING TABLE

SD PIPE SIZE (IN.)	INLET SIZE (IN.)	OLD CASTLE PRECAST MODEL NO.*
4" - 10"	12" X 12"	CB1212
12" - 15"	18" X 18"	CB1818
15" - 18"	24" X 24"	CB2424
18" - 24"	30" X 30"	CB3030

*OR APPROVED EQUAL



PROFILE A-A'

1" = 10' HORIZONTAL
1" = 10' VERTICAL

DESCRIPTION BY DATE

REVISION

DVC GROUP INC.
PLANNING • ENGINEERING • C.M.
513 CENTER STREET
HEALDSBURG, CA 95448
(707) 395-0968

REGISTERED PROFESSIONAL ENGINEER • CIVIL
No. 60225
Exp. 06-30-22
DANIEL JOHN HUGHES
DATE
NOVEMBER 28, 2022

**10818 CROTHERS ROAD
BARN ROUGH GRADING PLAN**
06-21
SHEET NO.

C8
OF 8 SHEETS