

PLAN NAME:		CABIN 1	
NO.	DESCRIPTION	DATE	APPR.
7	ADD EXTERIOR TRUSS	06/14/23	SMM



MAE
MORTENSEN ARCHITECTURAL ENGINEERING
8452 Frederickburg Rd., Ste. 380
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TPELS FIRM # 16119

SHEET TITLE:	FRAMING DETAILS FOR MURRAY RESIDENCE	N.C.E.:	WILSON
ADDRESS:	120 RED OAK TRAIL	BLOCK:	LA VERNIA
SUBDIVISION:		CITY:	
PLAN NO.:	plan	The use of any drawings is limited to the project specified in the title block. Any reuse of this drawing is prohibited without the expressed written consent of MAE, Mortensen Architectural Engineering, PLLC.	
JOB NO.:	22-064		
DATE:	5/31/2023		
DESIGNER:	CWL		
CHECKED:	SMM		
DRAWN:	CWL		
SHEET:	S-2		

REVISIONS

FILE: C:\2023\PROJECTS\

INTERIOR HEADER SCHEDULE		
MAXIMUM SPAN		
SIZE	ONE STORY	TWO STORY
2-2x4	3'-1"	2'-2"
2-2x6	4'-6"	3'-2"
2-2x8	5'-9"	4'-1"
2-2x10	7'-0" **	5'-0" **
2-2x12	8'-1" **	5'-9" **
3-2x10	8'-9" ***	7'-2" ***

* THESE HEADER SIZES ARE TO BE USED UNLESS OTHERWISE NOTED ON PLAN
* ALL HEADER MATERIAL TO BE NO. 2 S.P.
* * PROVIDE 2 2X4 JACK STUDS EACH SIDE
* * * PROVIDE 3 2X6 JACK STUDS EACH SIDE

DESIGN CRITERIA NOTES:
THE INTENDED DESIGN STANDARDS (LATEST EDITION) AND/OR CRITERIA ARE AS FOLLOWS:

GENERAL WOOD TRUSSES: INTERNATIONAL RESIDENTIAL CODE (IRC) 2018 EDITION
NDS ANS/TP1 1-2015

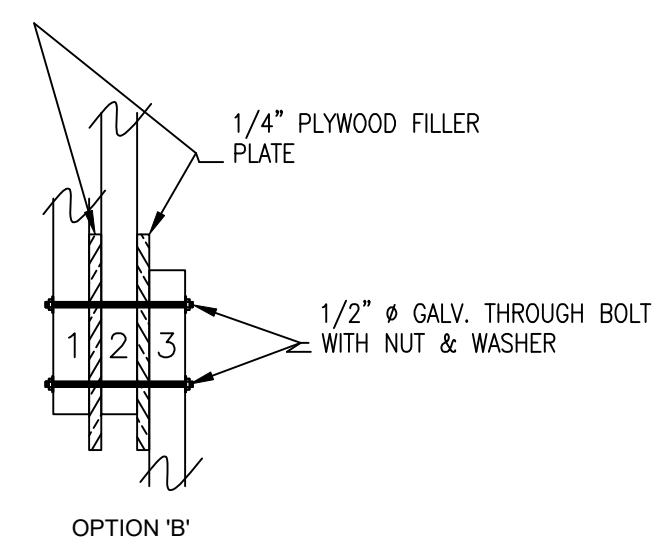
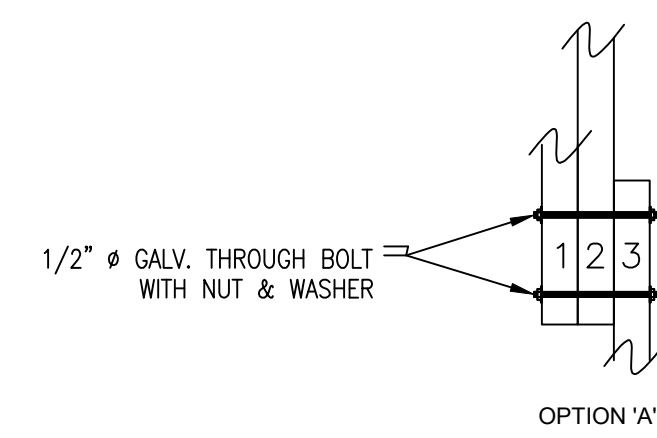
2. DESIGN LOADS

DEAD LOADS: ROOF 20 PSF, CEILING 5 PSF
LIVE LOADS: FLOORS 40 PSF, ROOF 20 PSF, CEILING JOIST 10 PSF
SNOW LOADS: ROOF 5 PSF
WIND LOADS: 115 MPH 3-SECOND GUST WIND SPEEDS PER IRC 2018 EXPOSURE "C" EARTHQUAKE ZONE "A"

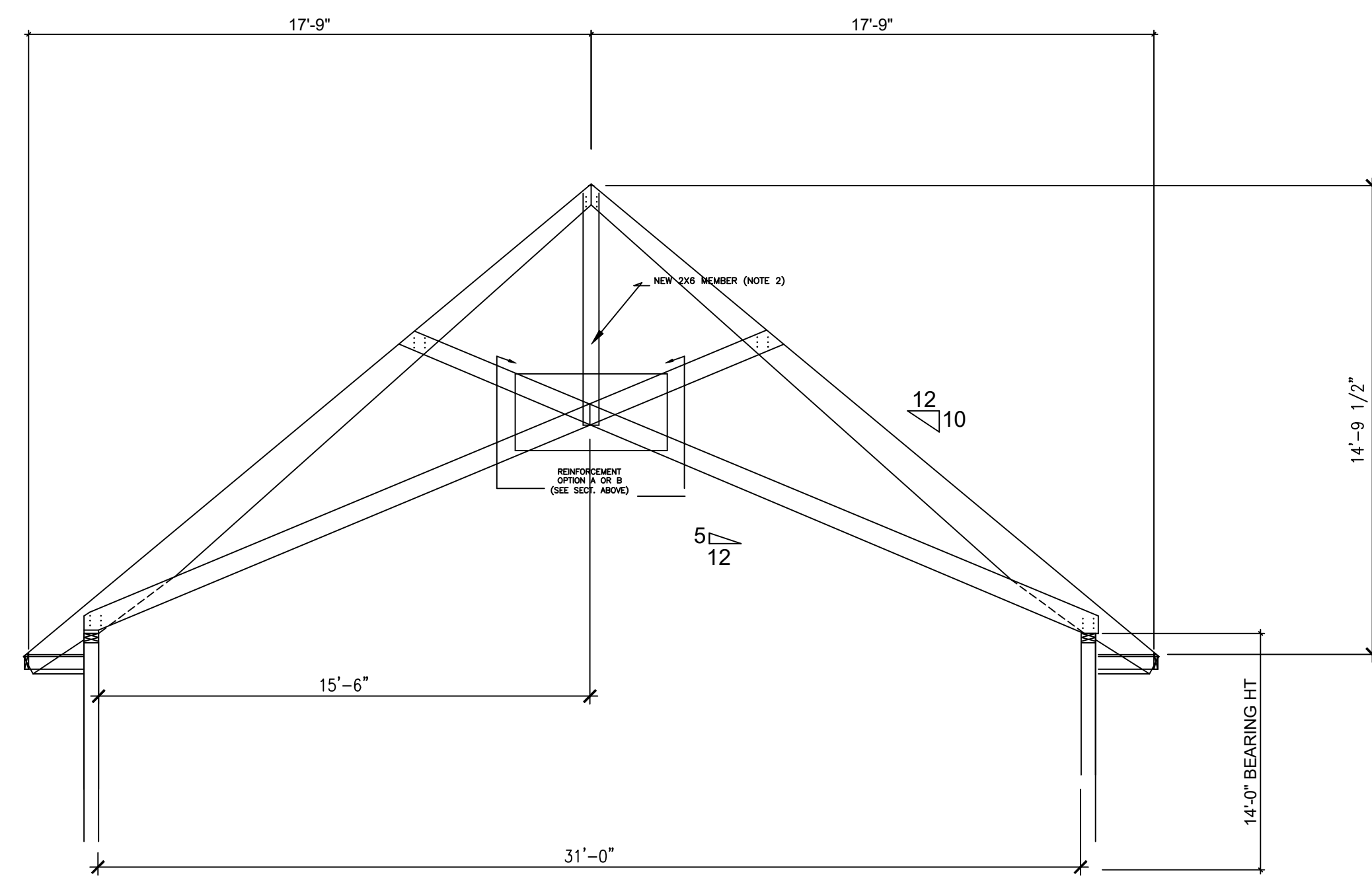
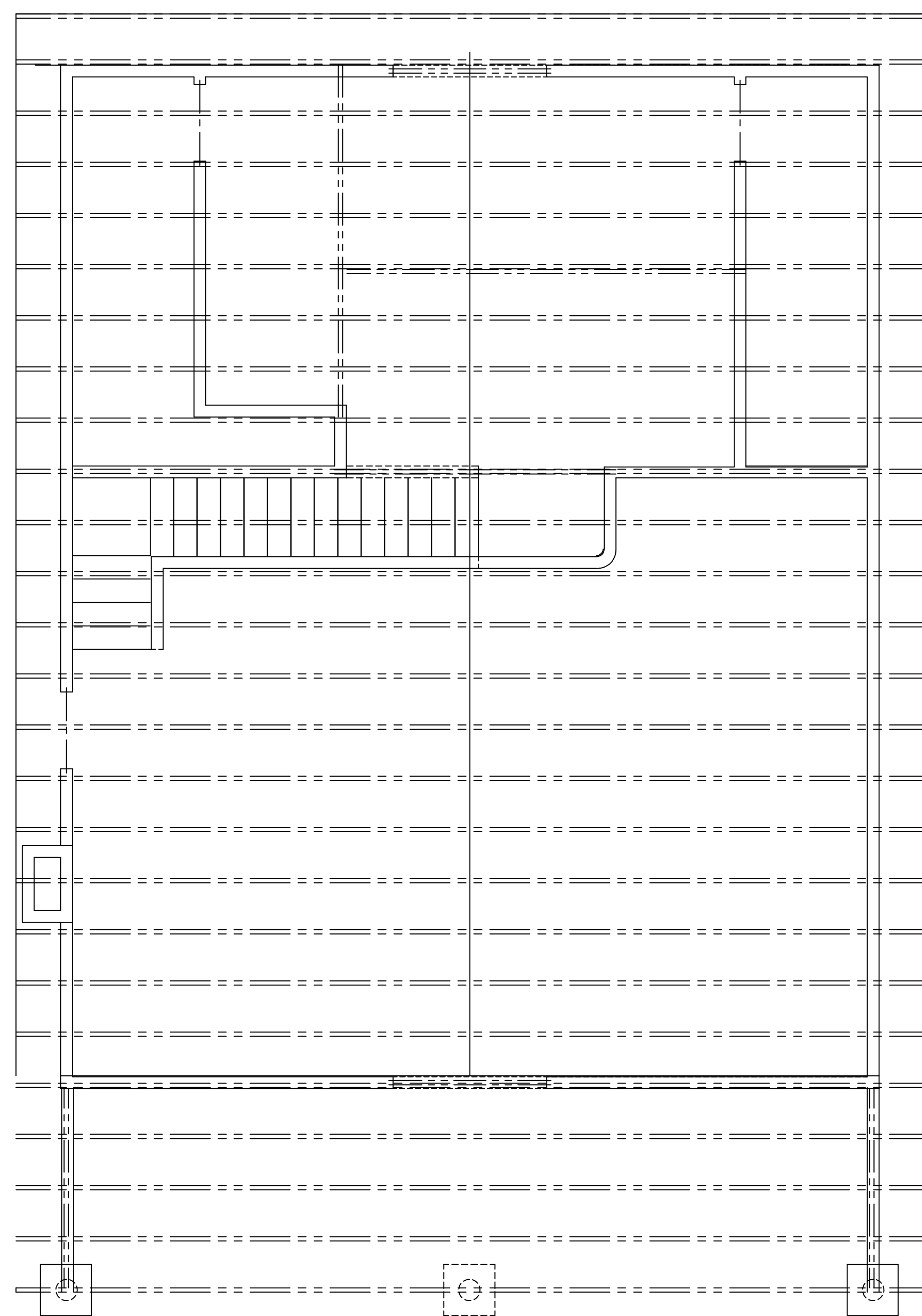
ROUGH CARPENTRY:
1. ALL WOOD FRAMING MATERIAL SHALL BE SURFACE DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALL FRAMING LUMBER SHALL BE NO. 2 SYP OR BETTER.
2. ALL LOAD BEARING PARTITIONS SHALL RECEIVE A DOUBLE 2X TOP PLATE AND LAPPED AT CORNERS. ALL SPLICES SHALL BE GREATER THAN OR EQUAL TO 48".
3. ALL PARTITIONS SHALL BE BRACED ON THE TOP AT INTERVALS NOT EXCEEDING 6 FEET ON CENTER.
4. ALL MULTIPLE GIRDERS, BEAMS AND JOISTS SHALL BE GANG NAILED IN ACCORDANCE WITH IRC 2018 WALL FRAMING SPECIFICATIONS.
5. ALL FRAMING EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
6. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS, AND OTHER ACCESSORIES SHALL BE MANUFACTURED BY "SIMPSON STRONG TIE" OR APPROVED EQUAL.
7. PREFABRICATED LVL'S, GLULAMS, AND LSL HEADERS AND BEAMS SHALL BE MANUFACTURED BY LOUISIANA PACIFIC (LP) OR APPROVED EQUAL. MINIMUM BENDING STRESSES SHALL BE AS FOLLOWS:
LVL'S = 2,950 PSI
LSL'S = 1,730 PSI
GLULAMS = 2,400 PSI
8. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS AND OTHER HARDWARE EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.
9. INSTALL ALL BLOCKING NECESSARY FOR ATTACHING ALL FINISHES, GYPSUM WALLBOARD, CABINETRY, ETC.
10. ATTACH EXTERIOR WOOD PLATES TO FOUNDATIONS WITH 1/2" ANCHOR BOLTS AT 4'-0" O.C. MAXIMUM SPACING WITH AT LEAST 2 BOLTS PER PLATE, BEGINNING 12" FROM ALL CORNERS.
11. INSTALL COLUMNS AT ALL INTLS, BEAMS, HEADERS EQUAL TO THE WIDTH OF THE BEAM. ALL MEMBERS WITH SPANS LESS THAN 5 FOOT SHALL HAVE SINGLE JACK STUDS.
12. ATTACH WALL AND ROOF SHEATHING TO FRAMING WITH 9d NAILS AT 12" O.C. INTERMEDIATE SUPPORTS AND 6" O.C. EDGE SUPPORTS.
13. THE CONTRACTOR SHALL INSURE THAT ALL LOADS AND REACTIONS FROM BEAMS, BEARINGS WALLS, COLUMNS, ETC. ARE CONTINUOUSLY SUPPORTED TO THE FOUNDATION.
14. DO NOT USE FOAM BOARD INSULATED SHEATHING FOR EXTERIOR SHEATHING. CHECK WITH ENGINEER FOR ACCEPTABLE SHEATHING METHODS.

CONSTRUCTION NOTES:
PRIOR TO CONSTRUCTION, THE BUILDER SHALL VERIFY ALL DIMENSIONS, LINES, GRADES, AND ELEVATIONS AND SITE SPECIFIC CONSTRUCTION REQUIREMENTS WITH THE PLANS PREPARED BY THE RESPONSIBLE ARCHITECT OR DESIGNER. FAILURE TO DO SO SHALL IN THE EVENT OF ERRORS OR INCONSISTENCIES BE CONSIDERED CAUSE FOR THE ENGINEERS VOIDANCE OF THE ASSOCIATED FRAMING PLANS AND DETAILS.

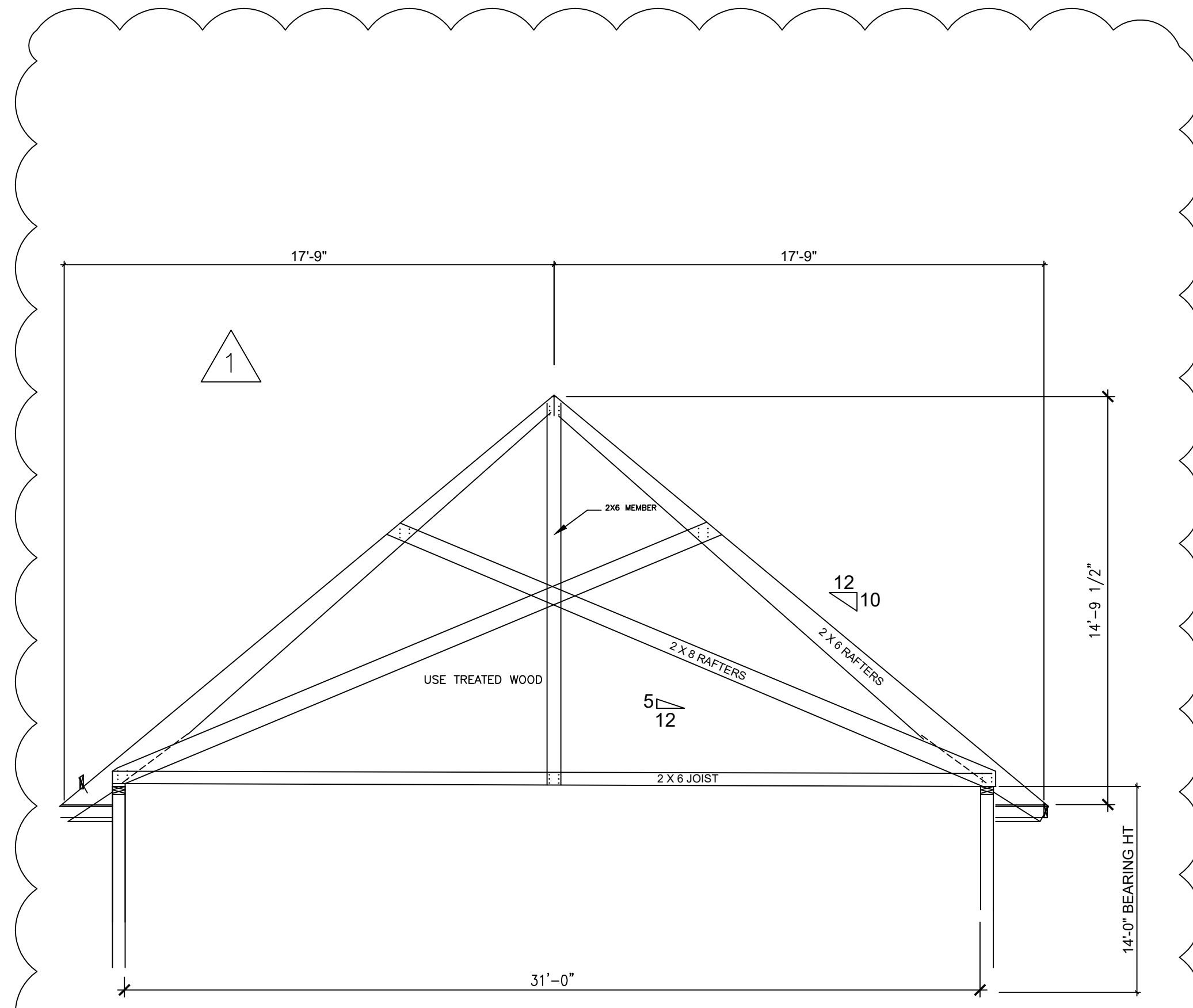
FRAMING NOTES:
-ALL CEILING JOISTS TO BE 2X6 S.P. NO.2 @ 16"O.C., UNLESS NOTED OTHERWISE.
-ALL FLOOR JOIST TO BE 2X10 S.P. NO.2 @ 16"O.C., UNLESS NOTED OTHERWISE.
-ALL HIP, VALLEY, AND RIDGE MEMBERS TO BE 2X10 S.P. NO.2, UNLESS NOTED OTHERWISE.
-VERIFY ROOF PITCH ON SITE- 8:12.
-PURLINS TO BE 2X6 S.P. NO.2 AND SUPPORTED @ 4'-0" O.C. MIN.
-ALL RAFTERS ON VAULTED CEILINGS TO BE 2X10 S.P. NO.2, TO ALLOW SPACE FOR THE REQUIRED INSULATION R38.
-SEE "HEADER SCHEDULE" FOR HEADER SIZES.
-ALL LUMBER FOR THE FOUNDATION SHALL BE (WPT) WEATHER TREATED LUMBER.



FASTENING DETAIL AT MEMBER CROSSING



INTERIOR TRUSS



END EXTERIOR TRUSS

HANGER SCHEDULE		
MEMBER	HANGER	REACTION (LBS)
(1) 2x's	HU SERIES	500 MIN.
(2) 2x10	HU210-2	1,650
(2) 2x12	HU212-2	2,145
(3) 2x10	HU210-3	1,875
(3) 2x12	HU212-3	2,145
FOR LVL'S, PSL'S & GL'S: (2)MEMBER X DEPTH		
3.5X9.25	HUS410	1,860
3.5x11.875	HUS412	2,510
3.5x14	HU416	2,680
3.5x16	HHUS410	5,190
3.5x18	HGUS414	11,180
(3)MEMBER X DEPTH		
5.25X9.25	HU5.31/9	1,875
5.25x11.875	HHUS5.5/10	5,190
5.25x14	HHUS5.5/10	5,190
5.25x16	HHUS5.5/10	5,190
5.25x18	HGUS5.5/14	11,180
TJI'S	IUT SERIES	730 MIN
* THESE HANGERS ARE TO BE USED UNLESS OTHERWISE NOTED ON PLAN		
* ALL HANGERS ARE SIMPSON STRONG TIE.		