



FASTENERS

ALL NAILS SHALL BE HOT DIP GALVANIZED - MEETING ASTM A153-09 CLASS D
ALL BOLTS, LAGS, NUTS & WASHERS - MEETING ASTM A153-09 CLASS C
(OR ASTM F2329-05)

ESTIMATED FASTENER QUANTITIES

OPTIONAL MAIN POST SIZES

<u>TIMBERS:</u>		
<u>ACTUAL_DIMENSION</u>	<u>SPECIES</u>	<u>COMMERCIAL_GRADE</u>
6" x 10" FULL SIZE	SOUTHERN PINE	SELECT STRUCTURAL
6" x 10" FULL SIZE	SOUTHERN PINE	#1 DENSE
8" x 8" FULL SIZE	SOUTHERN PINE	#1 DENSE
<u>GLULAMS:</u>		
<u>ACTUAL_DIMENSION</u>	<u>SPECIES</u>	<u>COMMERCIAL_GRADE</u>
5 1/8" x 8 1/4"	SOUTHERN PINE	24F-V5 SP/SP
5 1/2" x 9 3/8"	SOUTHERN PINE	20F-V5 SP/SP
6 3/4" x 8 1/4"	SOUTHERN PINE	20F-V4 SP/SP

DESIGN ASSUMPTIONS

GROUND SNOW LOAD:	60 PSF
EXPOSURE CATEGORY	1.0
THERMAL FACTOR:	1.2
IMPORTANCE FACTOR:	0.8
SLOPE FACTOR:	1.0
TERRAIN CATEGORY	"B" (WOODED TERRAIN, OR OBSTRUCTIONS)
ROOF EXPOSURE:	<u>PARTIALLY EXPOSED</u>
BASIC WIND SPEED:	90 MPH
BUILDING TYPE:	ENCLOSED
IMPORTANCE FACTOR:	0.87
EXPOSURE CATEGORY:	<u>"C" (OPEN TERRAIN W/ SCATTERED OBSTRUCTIONS)</u>
GUST FACTOR:	0.85
EXPOSURE COEF., K_z :	0.90
TOPOGRAPHIC FACTOR, K_{zt} :	1.0 (NO ESCARPMENT, 2D RIDGE OR 3D HILL)
DIRECTIONALITY FACTOR, K_d :	0.85
ROOF DEAD LOAD:	5 PSF
ROOF LIVE LOAD:	20 PSF
BEDDED PACK MANURE:	40 PCF "AT REST" EFP (MAX. 48" HIGH)
MIN. REQUIRED SOIL BEARING:	3000 PSF (SILTY SAND SOILS)
MIN. LATERAL SOIL PRESSURE	200 PSF (SILTY SAND SOILS)

NOTES

- ALL PRESSURE TREATED POSTS SHALL BE TREATED WITH A MIN. OF 0.60 PCF OF CCA OR 0.13 PCF OF CuN (COPPER NAPHTHENATE) MEETING AWPA U1 STANDARD FOR USE CATEGORY UC4C. OTHER PRESERVATIVES MEETING AWPA STANDARD U1, USE CATEGORY UC4C ARE ACCEPTABLE.

ALL PRESSURE TREATED LUMBER, NOT IN DIRECT GROUND CONTACT, SHALL BE TREATED WITH A MIN. OF 0.40 PCF OF CCA OR 0.06 PCF OF CuN (COPPER NAPHTHENATE) MEETING AWPA U1 STANDARD FOR USE CATEGORY UC4A. OTHER PRESERVATIVES MEETING AWPA STANDARD U1, USE CATEGORY UC4A ARE ACCEPTABLE.

MEMBER LIST

DESCRIPTION	TREATMENT	MEMBER	LENGTH	QTY.	TOTAL LENGTH	SPECIES AND GRADE
MAIN OUTER POSTS	PT	8x10	17'-8"	18	318'	SOUTHERN YELLOW PINE (SYP) #1 OR BETTER
SIDE POSTS	PT	8x10	9'	7	63'	SOUTHERN YELLOW PINE (SYP) #1 OR BETTER
GIRDER	KD	4-2x10	16'	32	512'	SPRUCE PINE FIR (SPF) #2 OR BETTER
GIRDER BLOCK	PT	2x8	1'	36	36'	SOUTHERN YELLOW PINE (SYP) #1 OR BETTER
KNEE BRACE	PT	2-2x6	6'-10"	18	246'	SOUTHERN YELLOW PINE (SYP) #2 OR BETTER
KNEE/WYE BRACE BLOCK	PT	2x10	1'-6"	36	54'	SOUTHERN YELLOW PINE (SYP) #1 OR BETTER
WYE BRACE	PT	2-2x10	4'	32	256'	SOUTHERN YELLOW PINE (SYP) #2 OR BETTER
WYE BRACE DBL BRACKET	STEEL	-	-	28	-	16" ASTM A653 OR A1011 GRADE 33, A153 CLASS B GALV
WYE BRACE SINGLE BRACKET	STEEL	-	-	8	-	16" ASTM A653 OR A1011 GRADE 33, A153 CLASS B GALV
COMMON ROOF TRUSS	-	-	-	31	-	2'-0" SPACING
GABLE ROOF TRUSS	-	-	-	2	-	
ROOF PURLINS	KD	2x4	16'	96	1536'	SPRUCE PINE FIR (SPF) #1 OR BETTER
TOP CHORD DIA. BRACE	KD	2x4	~10'	24	240'	SPRUCE PINE FIR (SPF) #1 OR BETTER
BOT. CHORD LAT. BRACE	KD	2x4	16'	12	192'	SPRUCE PINE FIR (SPF) #1 OR BETTER
BOT. CHORD DIA. BRACE	KD	2x4	~13'	12	156'	SPRUCE PINE FIR (SPF) #1 OR BETTER
SWAY BRACE	KD	2x4	~11'	16	176'	SPRUCE PINE FIR (SPF) #1 OR BETTER
WEB LATERAL BRACE (EST.)	KD	2x4	16'	12	192'	SPRUCE PINE FIR (SPF) #1 OR BETTER
ROOFING	-	-	-	-	2944 SF	-
SIDE WALL PLANK	PT	3x8 MIN	16'	72	1152'	SOUTHERN YELLOW PINE (SYP) #1 OR BETTER

ESTIMATED CONCRETE QUANTITIES

<u>DESCRIPTION</u>	<u>CONCRETE QTY PER POST</u>	<u>NUMBER</u>	<u>TOTAL QUANTITY</u>
CONCRETE FOOTING	0.28 CY	25	7 CY
CONCRETE COLLAR	0.32 CY	25	8 CY

OPTIONAL SIDE POST SIZES

<u>TIMBERS:</u>		
<u>ACTUAL DIMENSION</u>	<u>SPECIES</u>	<u>COMMERCIAL GRADE</u>
6" x 10" FULL SIZE	SOUTHERN PINE	#1 DENSE
6" x 10" FULL SIZE	SOUTHERN PINE	SELECT STRUCTURAL
6" x 12"	SOUTHERN PINE	#1
<u>GLULAMS:</u>		
<u>ACTUAL DIMENSION</u>	<u>SPECIES</u>	<u>COMMERCIAL GRADE</u>
5 $\frac{1}{2}$ " x 98"	SOUTHERN PINE	24F-V5 SP/SP

1	9-08-09	INITIAL DESIGN	TKJ
2	3-19-10	DRAFT DESIGN	TKJ
3	7-28-10	MODIFIED DRAWING FOR 12' EWE	TKJ
4	8-4-10	POSTS, FASTENERS, CORRECT.	TKJ
5	8-5-10	POST OPTION, CONC. QUANTITY	TKJ
6	12-7-10	BEDDED PACK & OTHER LOADS	TKJ
7	1-7-11	KNEE BRACE, BRACKET GALV.	TKJ
8	1-31-11	KNEE BRACE DIMENSION	TKJ
9	4-7-11	REVIEW FORT WORTH NDCSMC	TKJ
10	7-5-11	PE STAMPED TRUSS STATEMENT	TKJ
11	8-2-11	ASTM A1011 STEEL ADDED	TKJ
NO.	DATE	DESCRIPTION	BY

	Date
Designed TATE JEFFREY	7/10
Drawn TATE JEFFREY	7/10
Details Check LES WRIGHT	8-3-10
Structural Check LAWRENCE FRAGOMELLI	4-7-11
Approved by TATE JEFFREY	7-5-11

HAZARD CLASS
LOW

JOB CLASS
V

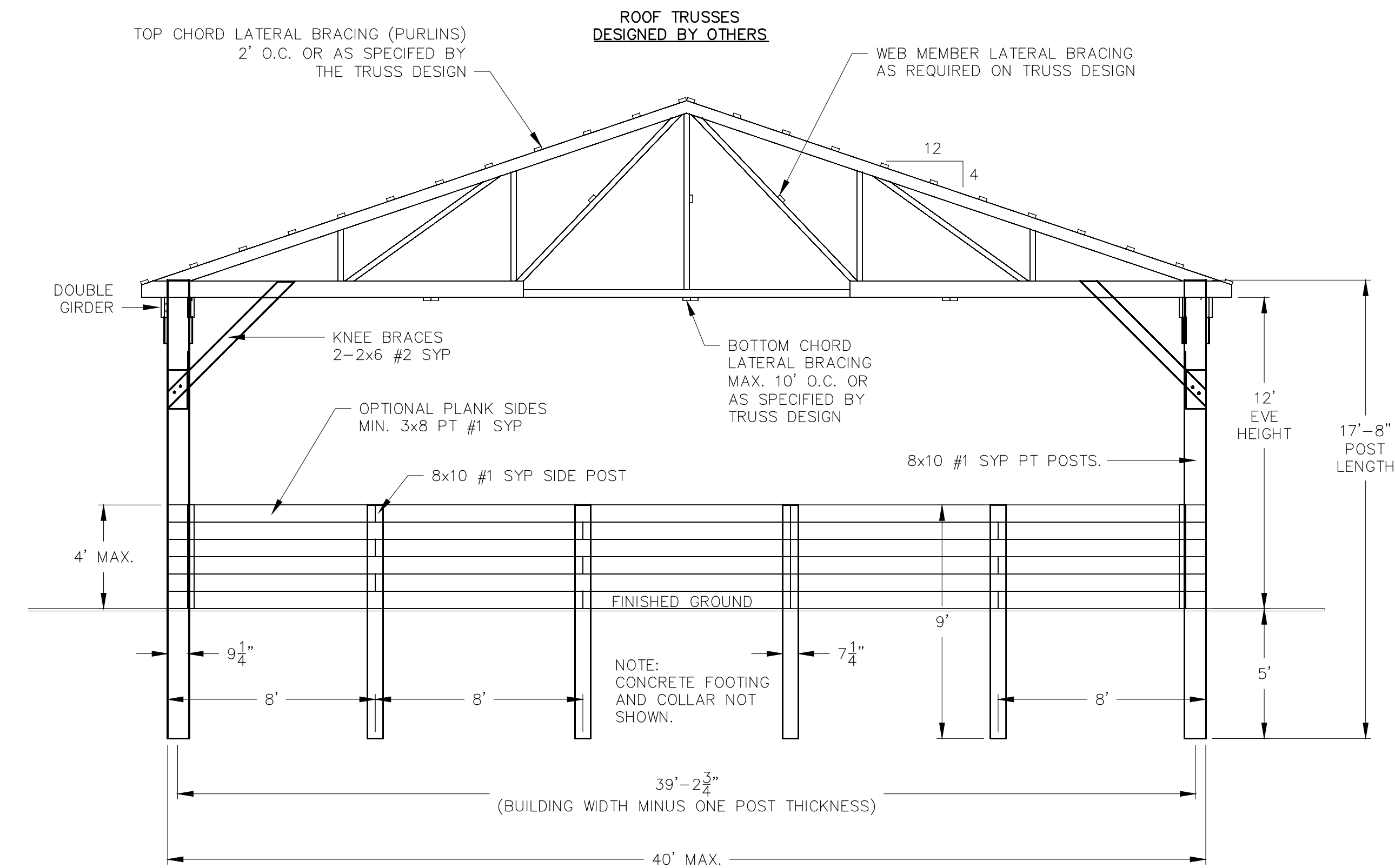
VERMONT STANDARD DRAWING
12' EVE, 40' SPAN ROOF STRUCTURE
ISOMETRIC VIEW

VERMONT

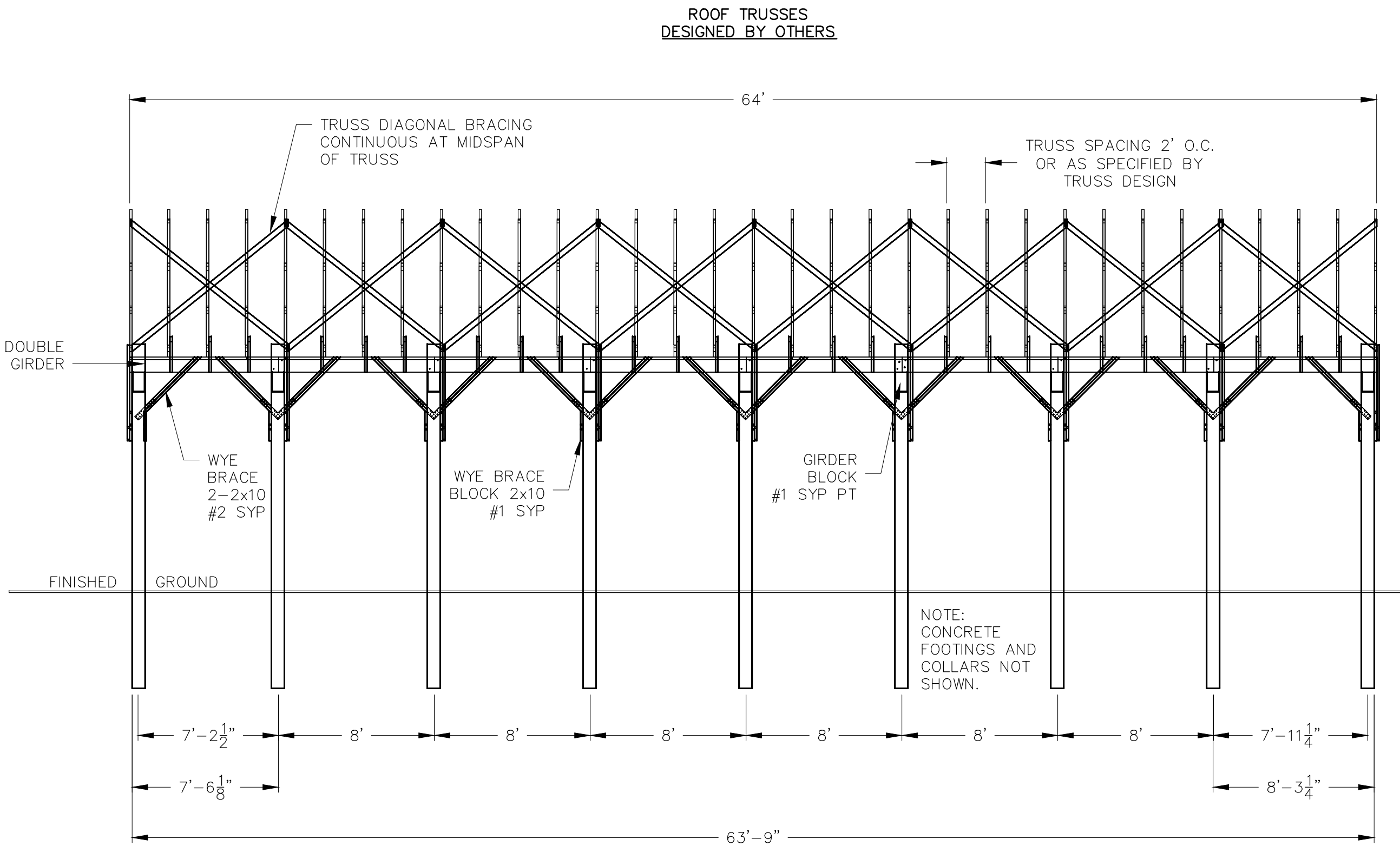
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Drawing Name	VT124060B-C
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Sheet 1 of 6



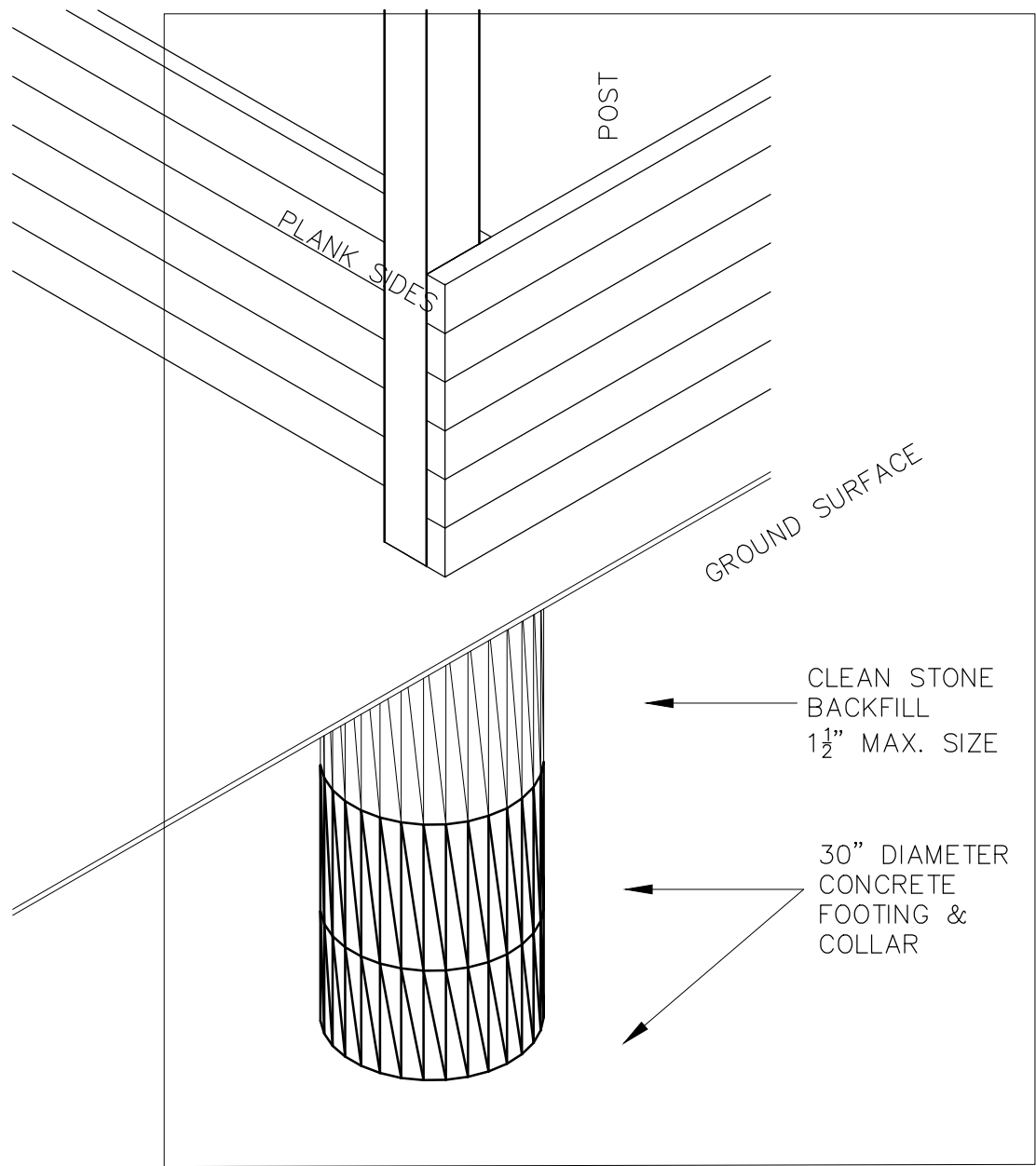
BUILDING SECTION
SCALE 1/8" = 1'-0"



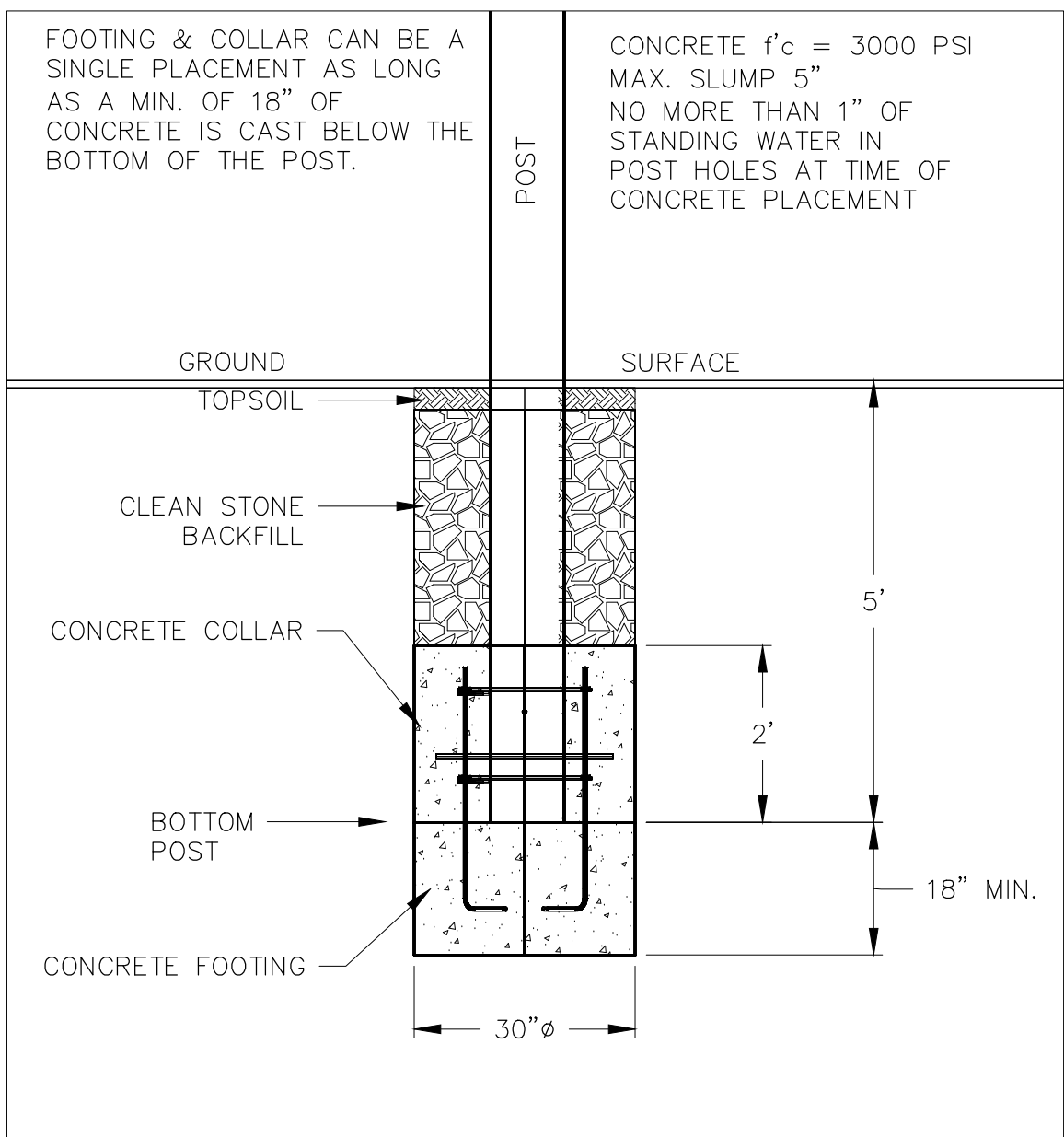
POST LAYOUT DETAILS
SCALE 3/32" = 1'-0"

FOUNDATION CONSTRUCTION NOTES

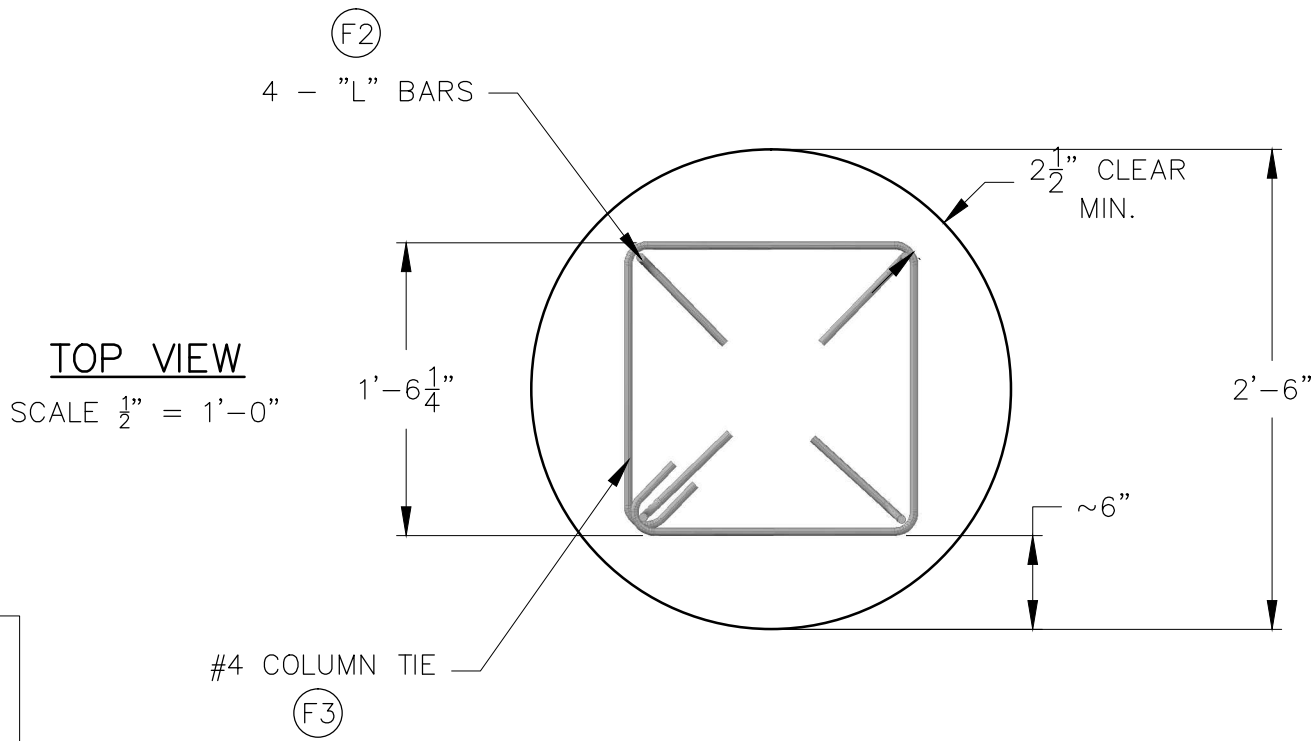
1. POST FOUNDATIONS CAN BE AUGERED OR EXCAVATED. OVER EXCAVATED AREA SHALL BE BACKFILLED SOLELY WITH CLEAN STONE, < 5% FINES, MAX. AGGREGATE 1 1/2".
2. THERE SHALL BE NO MORE THAN 1" OF STANDING WATER IN THE AREA EXCAVATED FOR POSTS AT THE TIME OF CONCRETE PLACEMENT.
3. CONCRETE SHALL BE SUPPLIED BY A READY MIX SUPPLIER. DRY CONCRETE MIX (SELF HYDRATING) SHALL NOT BE USED.
4. CONCRETE FOOTING AND COLLAR SHALL CURE A MIN. OF 24 HRS BEFORE BACKFILLING BEGINS. REMOVAL OF TEMPORARY BRACING OR CONSTRUCTION OF THE BUILDING BEGINS.
5. CLEAN STONE BACKFILL AROUND POSTS SHALL BE CAPPED WITH A MIN. OF 4" OF TOPSOIL.



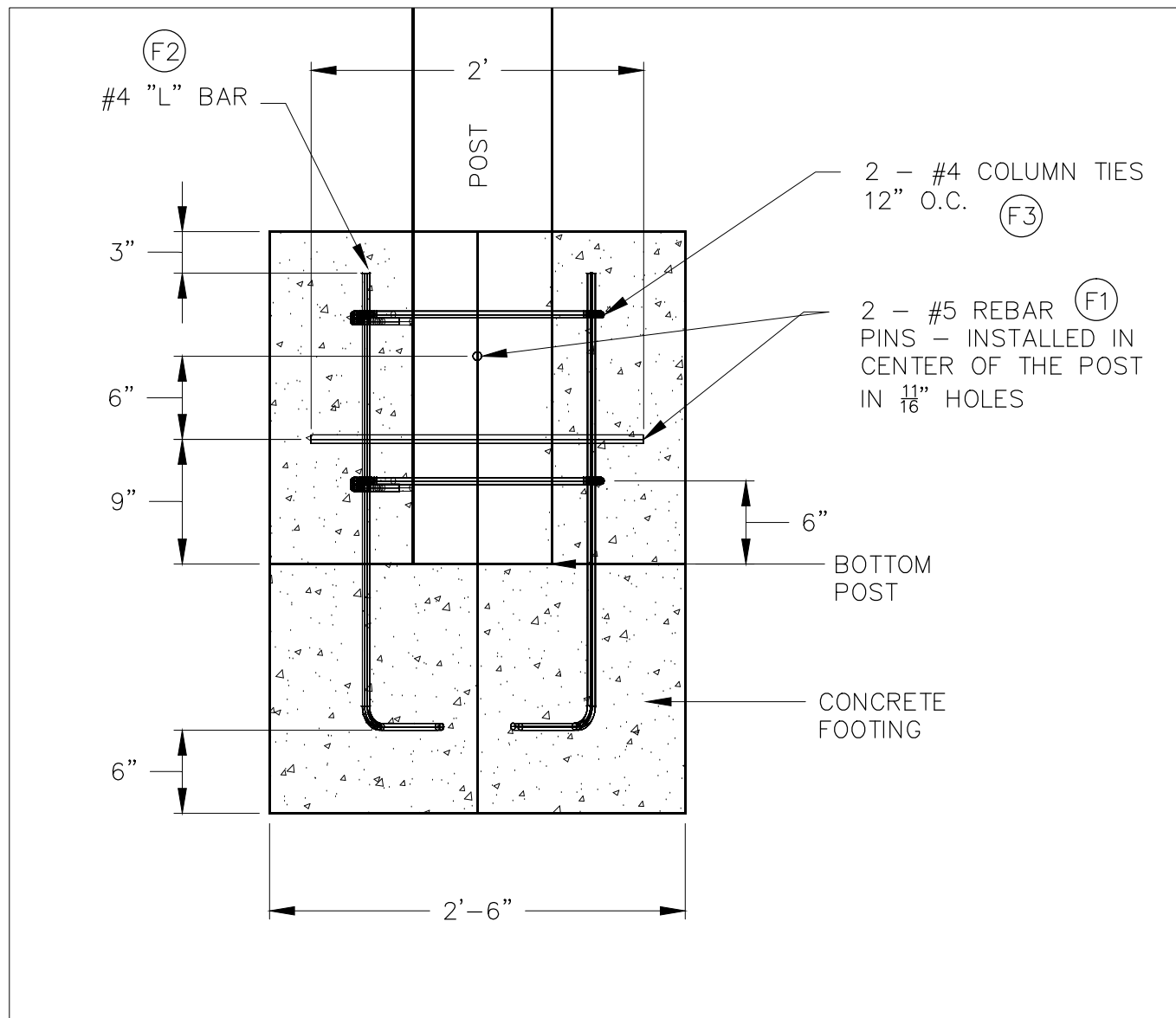
ISOMETRIC VIEW
NTS



SIDE VIEW -- DIMENSIONS
SCALE 1/4" = 1'-0"

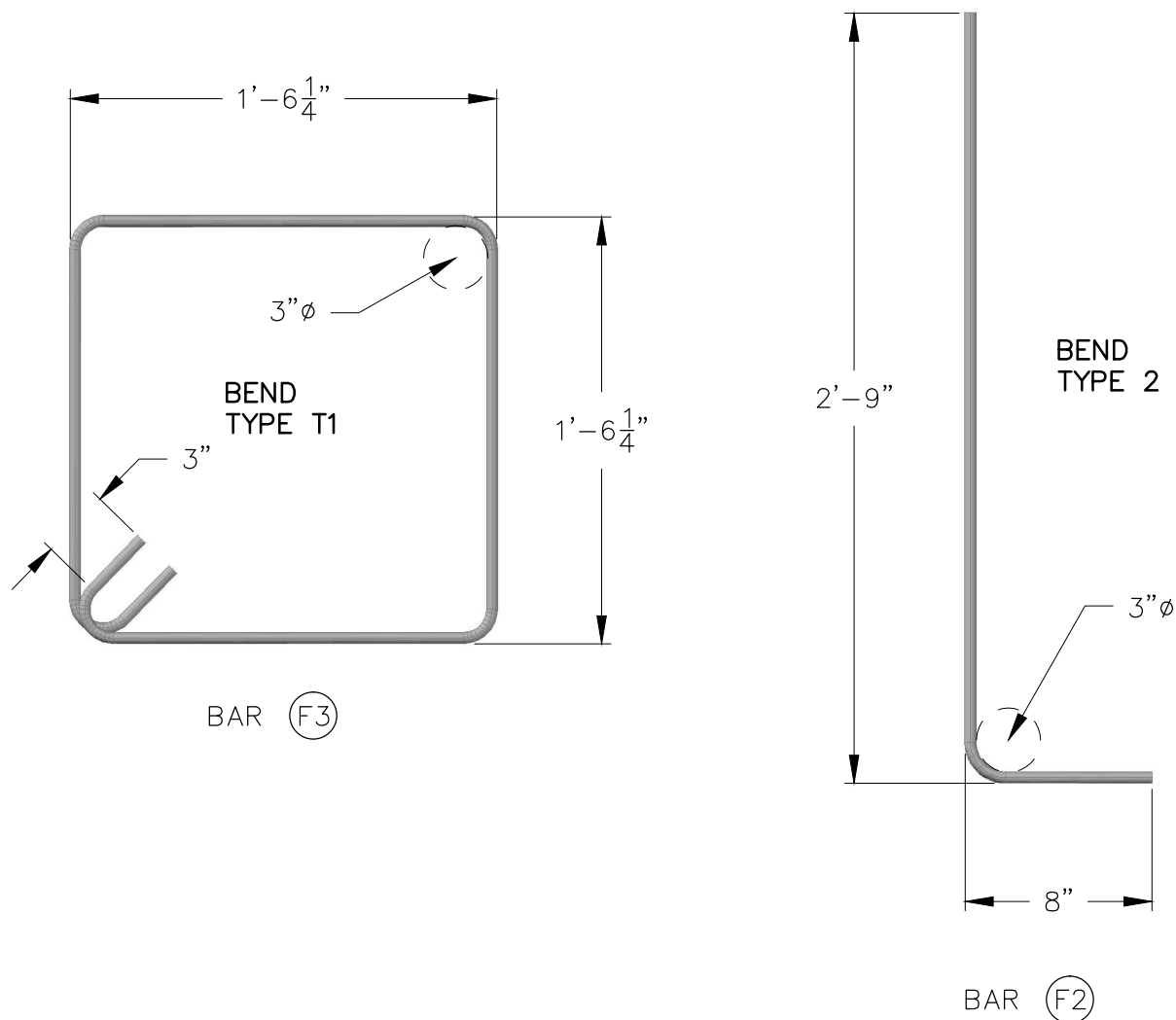


TOP VIEW
SCALE 1/2" = 1'-0"



SIDE VIEW -- ANCHOR PINS
SCALE 1/2" = 1'-0"

STEEL SCHEDULE						
LOCATION	BAR SIZE	SPACING	LENGTH FT-IN	QUANTITY	TOTAL LENGTH FT-IN	TYPE
(F1)	#5	6"	24"	50	100'	STR.
(F2)	#4	-	3'-5"	100	342'	(2)
(F3)	#4	12"	6'-7"	50	330'	(1)



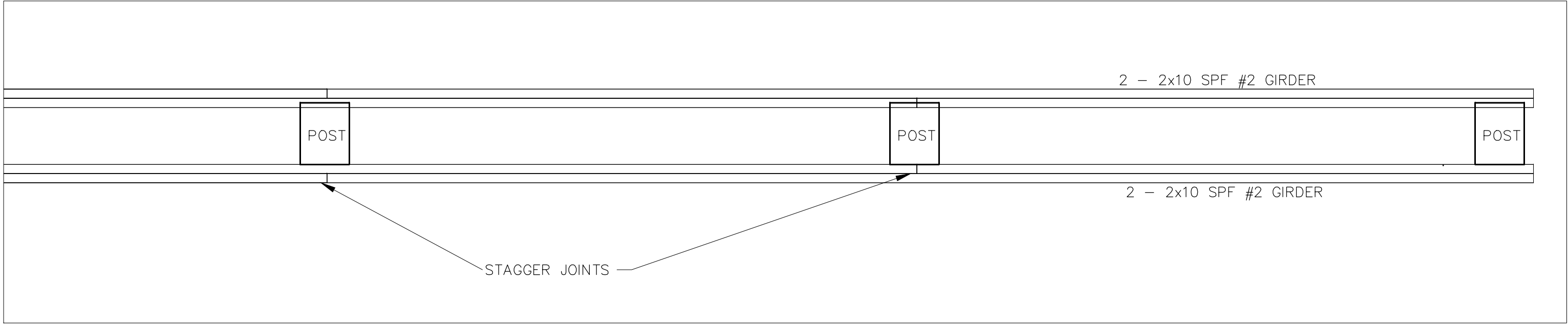
BAR BEND DETAILS
SCALE 3/4" = 1'-0"

Date	7/10
Designed	TATE JEFFREY
Drawn	TATE JEFFREY
Details Check	LES WRIGHT
Structural Check	LAWRENCE FRAGOMELI
Approved by	TATE JEFFREY

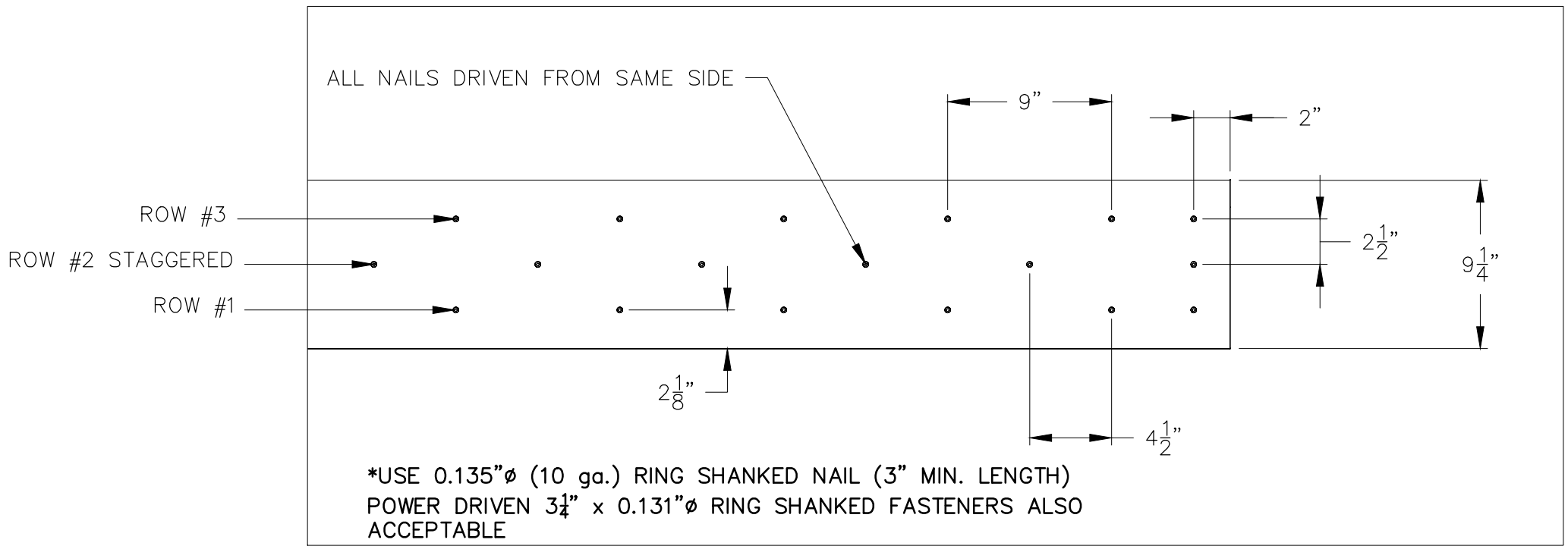


HAZARD CLASS	LOW
JOB CLASS	V

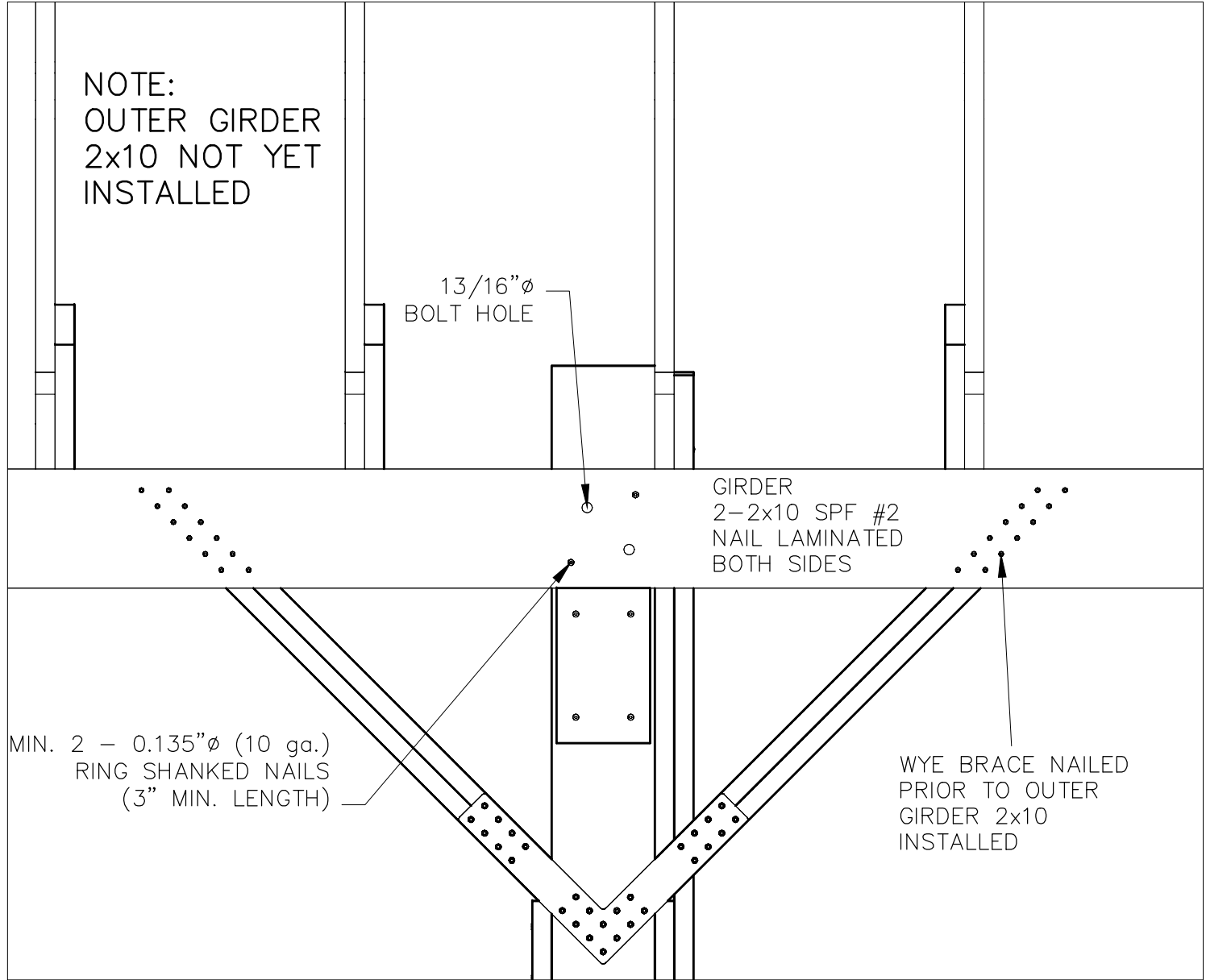
VERMONT STANDARD DRAWING
12' EVE, 40' SPAN ROOF STRUCTURE
FOUNDATION



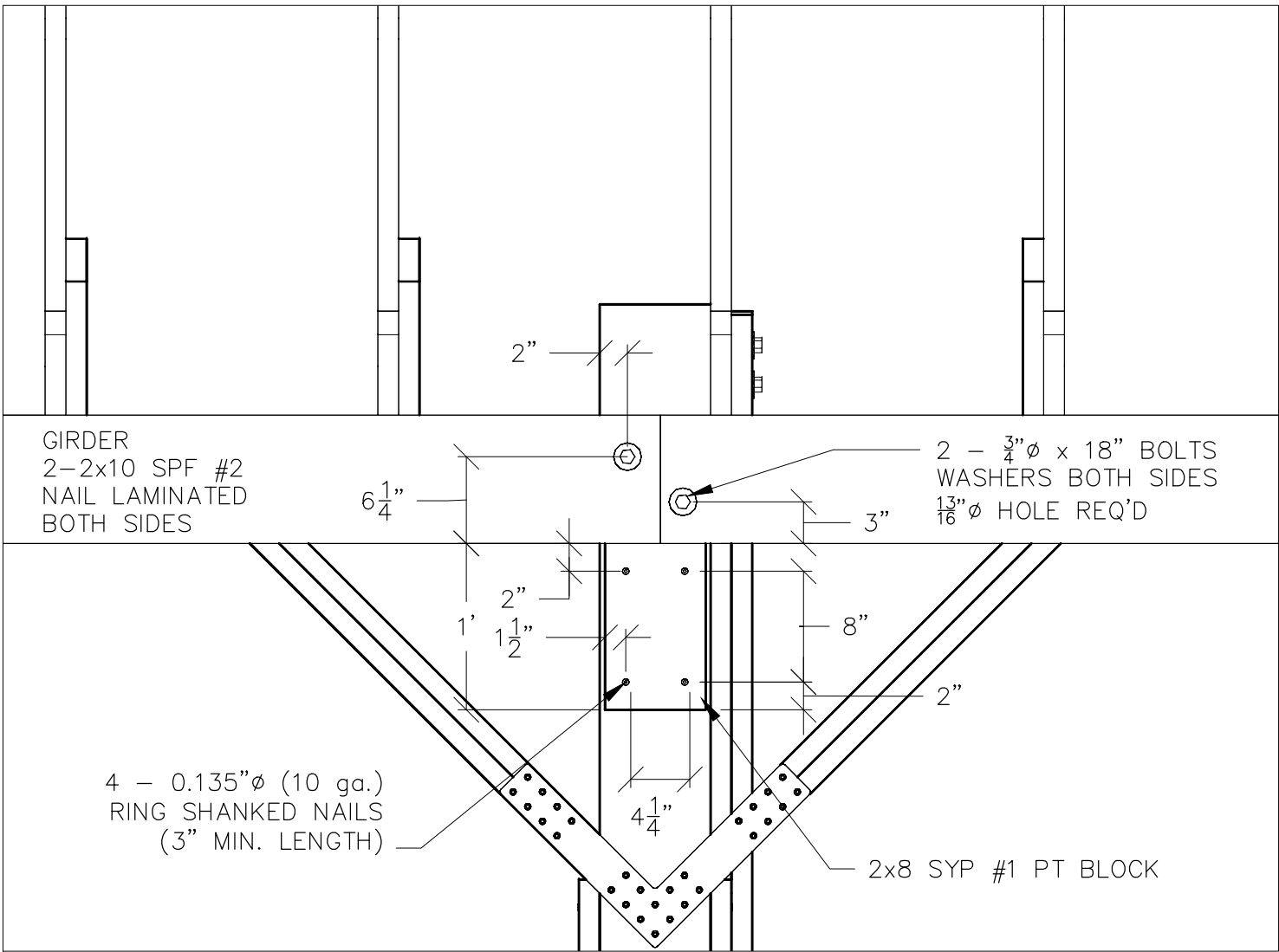
GIRDER LAYOUT DETAIL-TOP VIEW
NTS



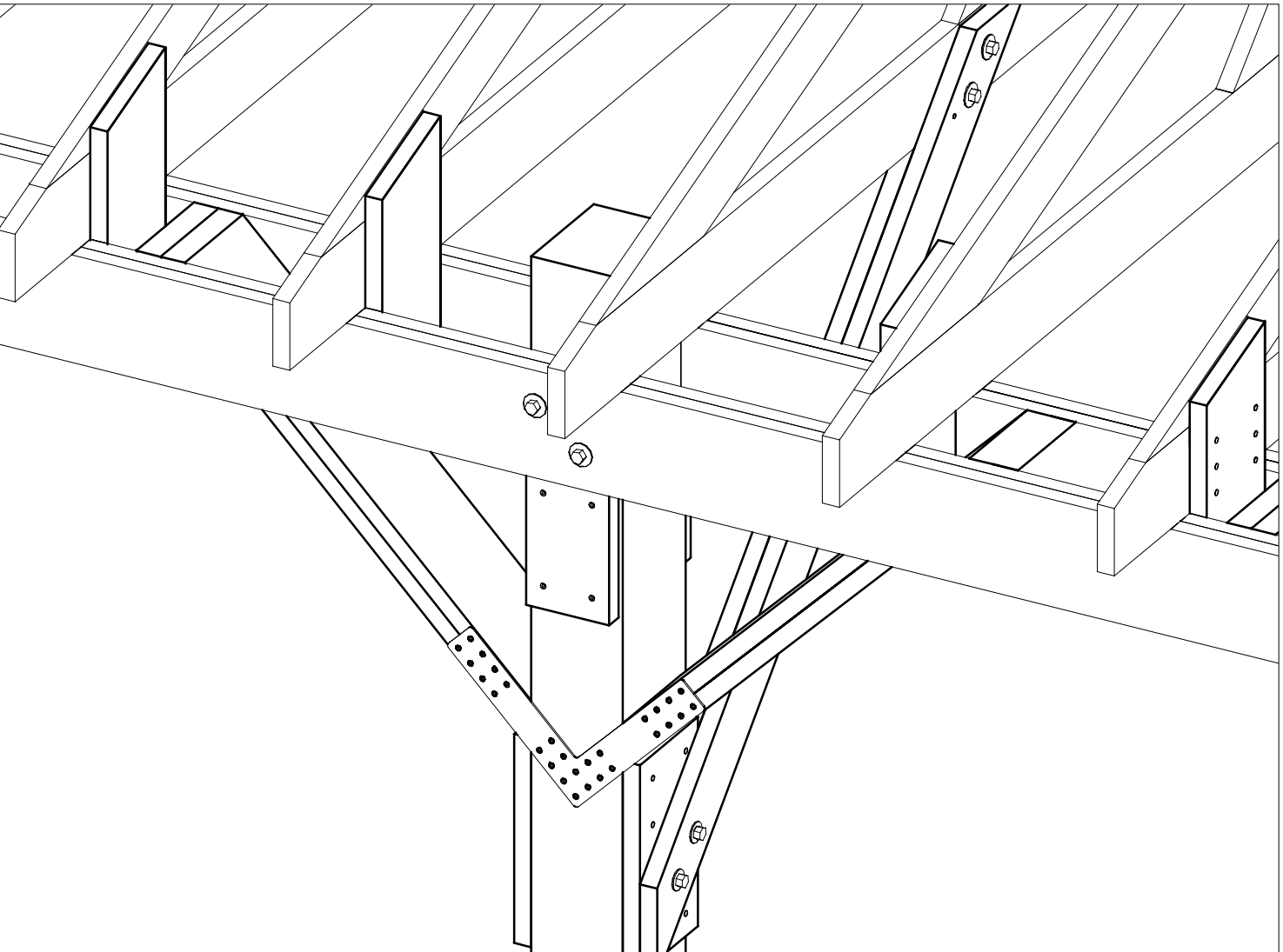
GIRDER NAIL LAMINATION
SCALE $\frac{3}{4}$ " = 1'-0"



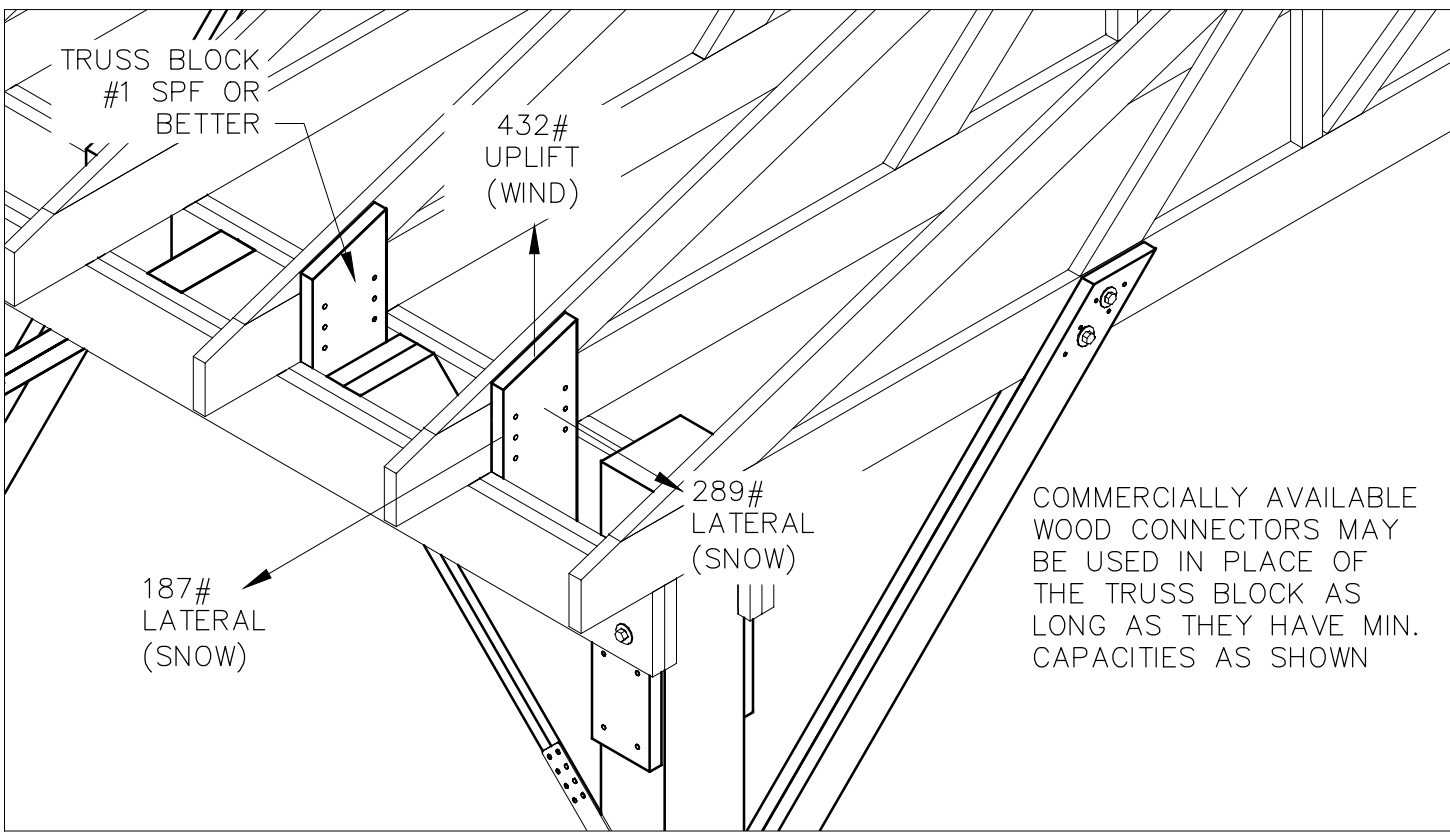
GIRDER CONNECTION
SCALE $\frac{1}{2}$ " = 1'-0"



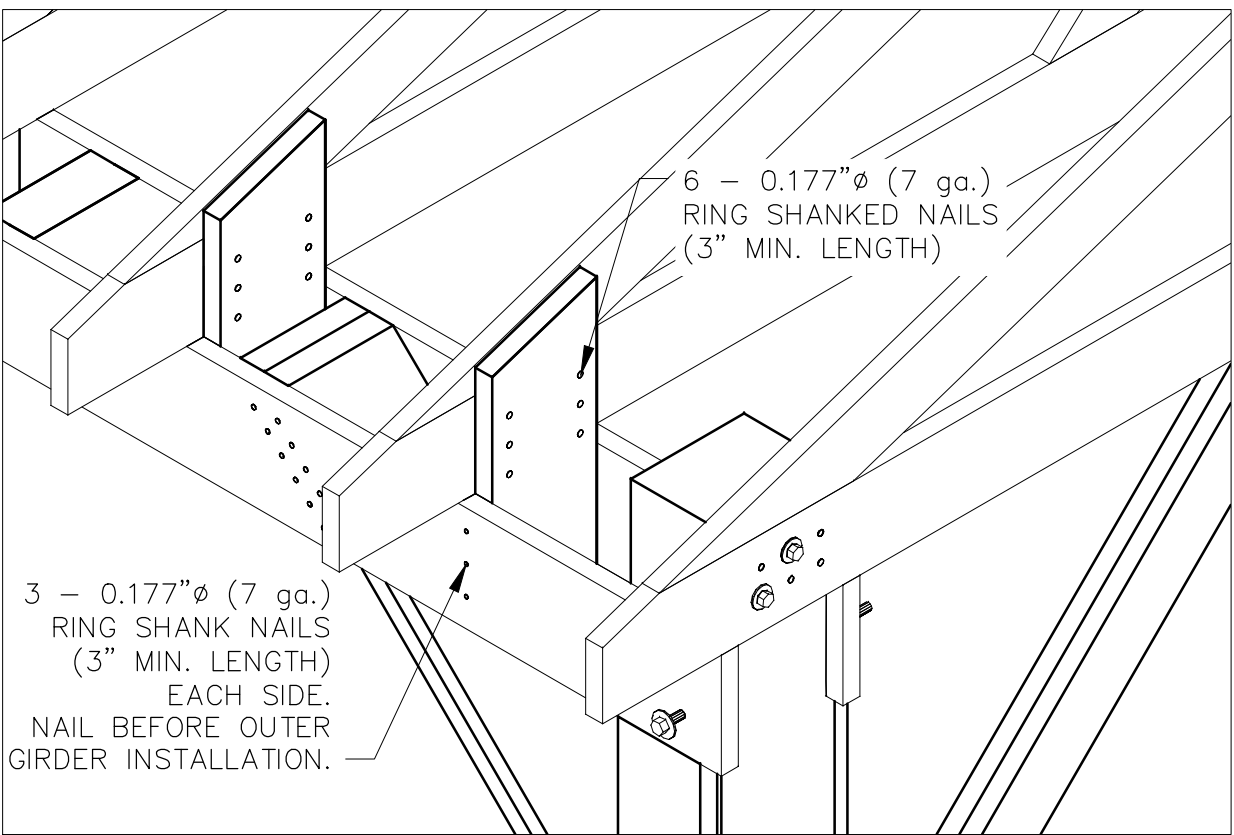
GIRDER CONNECTION
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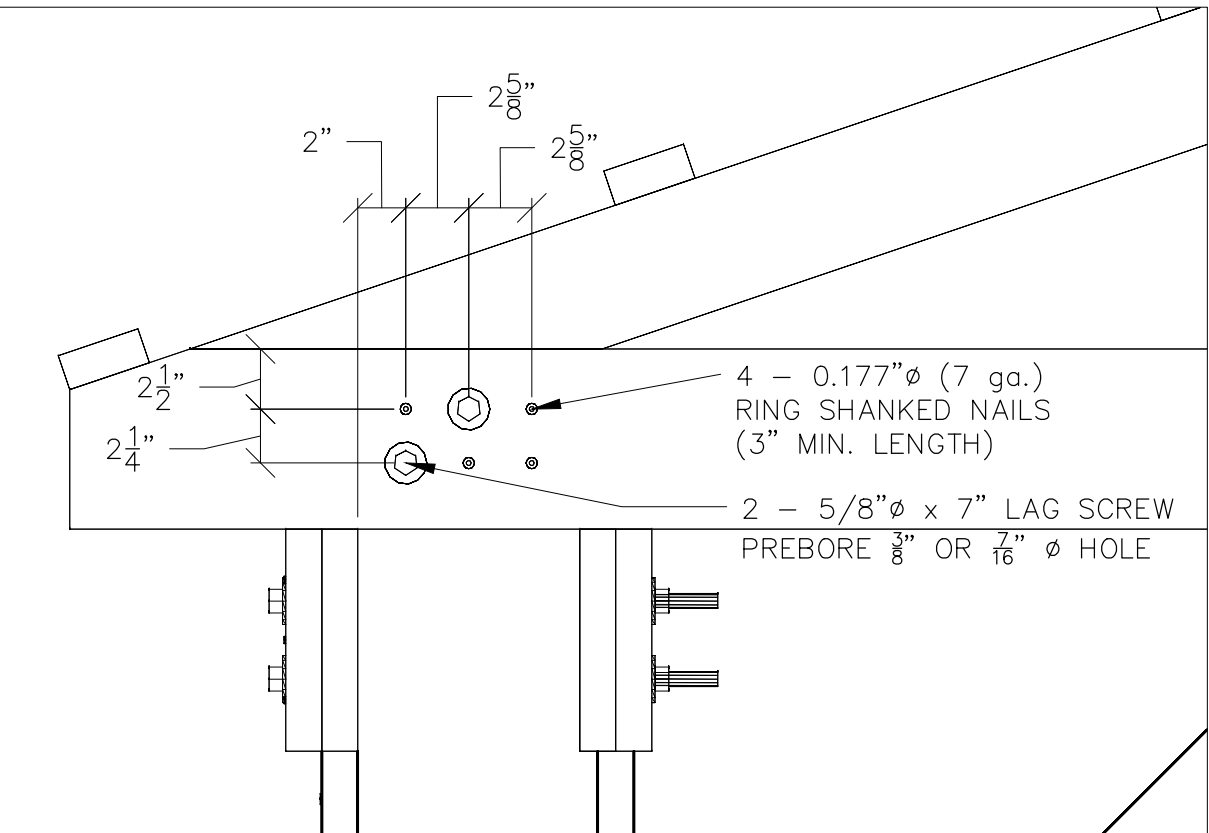
GIRDER CONNECTION
NTS



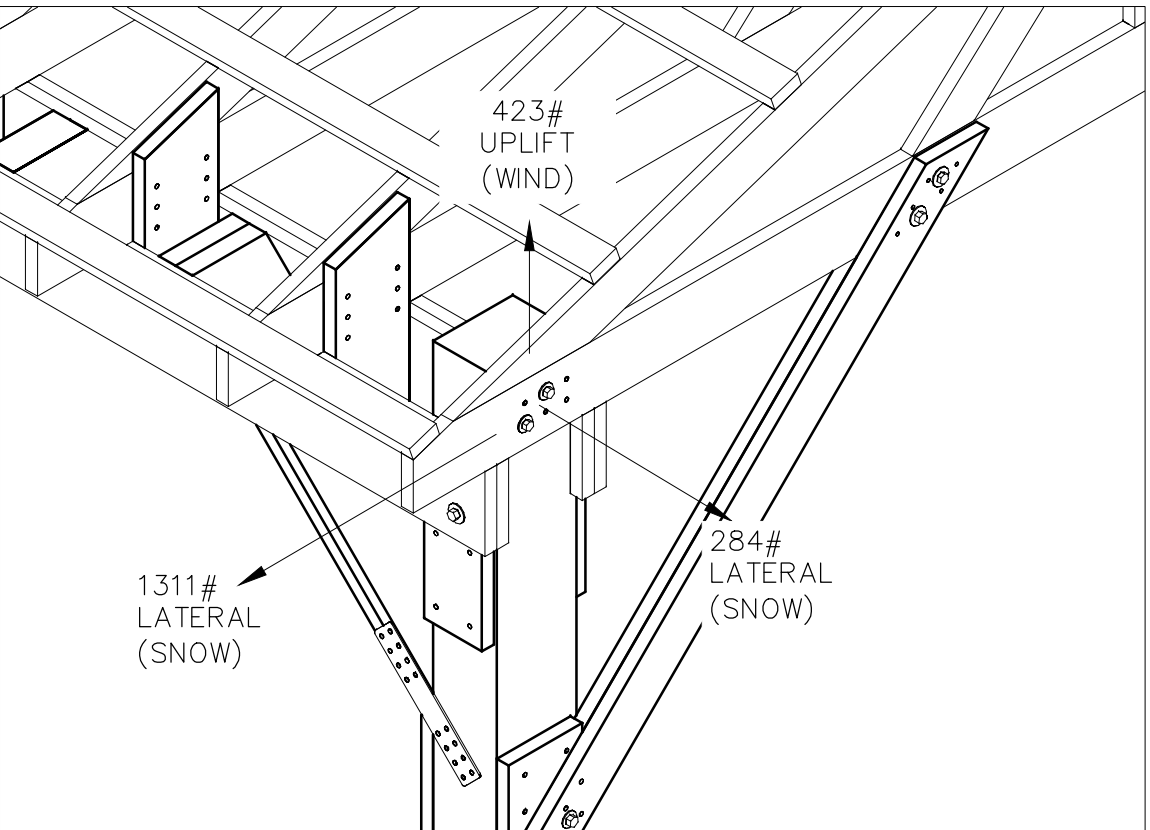
TRUSS CONNECTION
MINIMUM CAPACITIES SHOWN



TRUSS CONNECTION
NTS



TRUSS CONNECTION @ POST
SCALE $\frac{3}{4}$ " = 1'-0"



TRUSS CONNECTION @ POST
MINIMUM CAPACITIES SHOWN



HAZARD CLASS
LOW

JOB CLASS
V

VERMONT STANDARD DRAWING
12' EVE, 40' SPAN ROOF STRUCTURE
GIRDER DETAILS

VERMONT

File Name

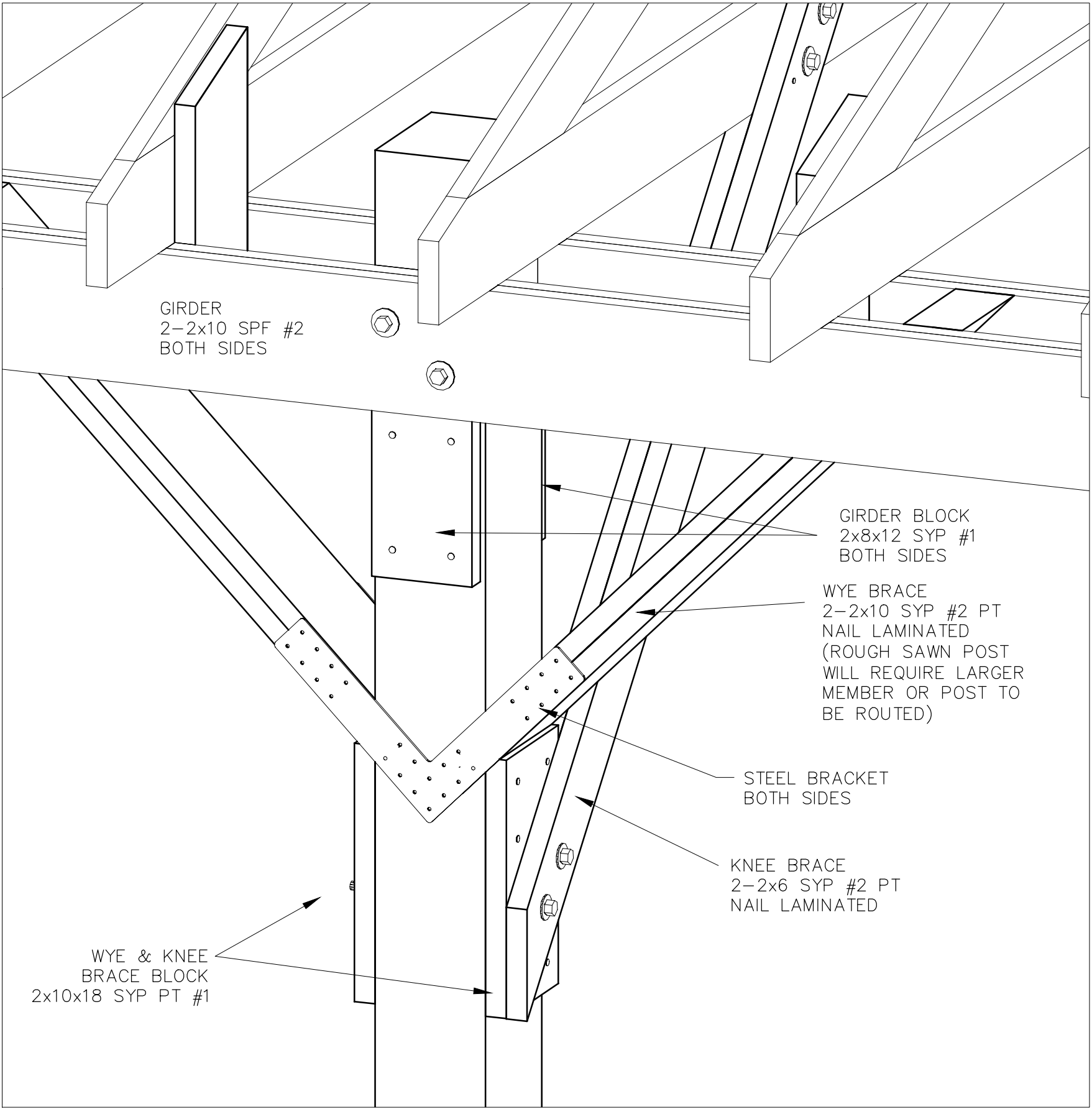
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Sheet 3 of 6

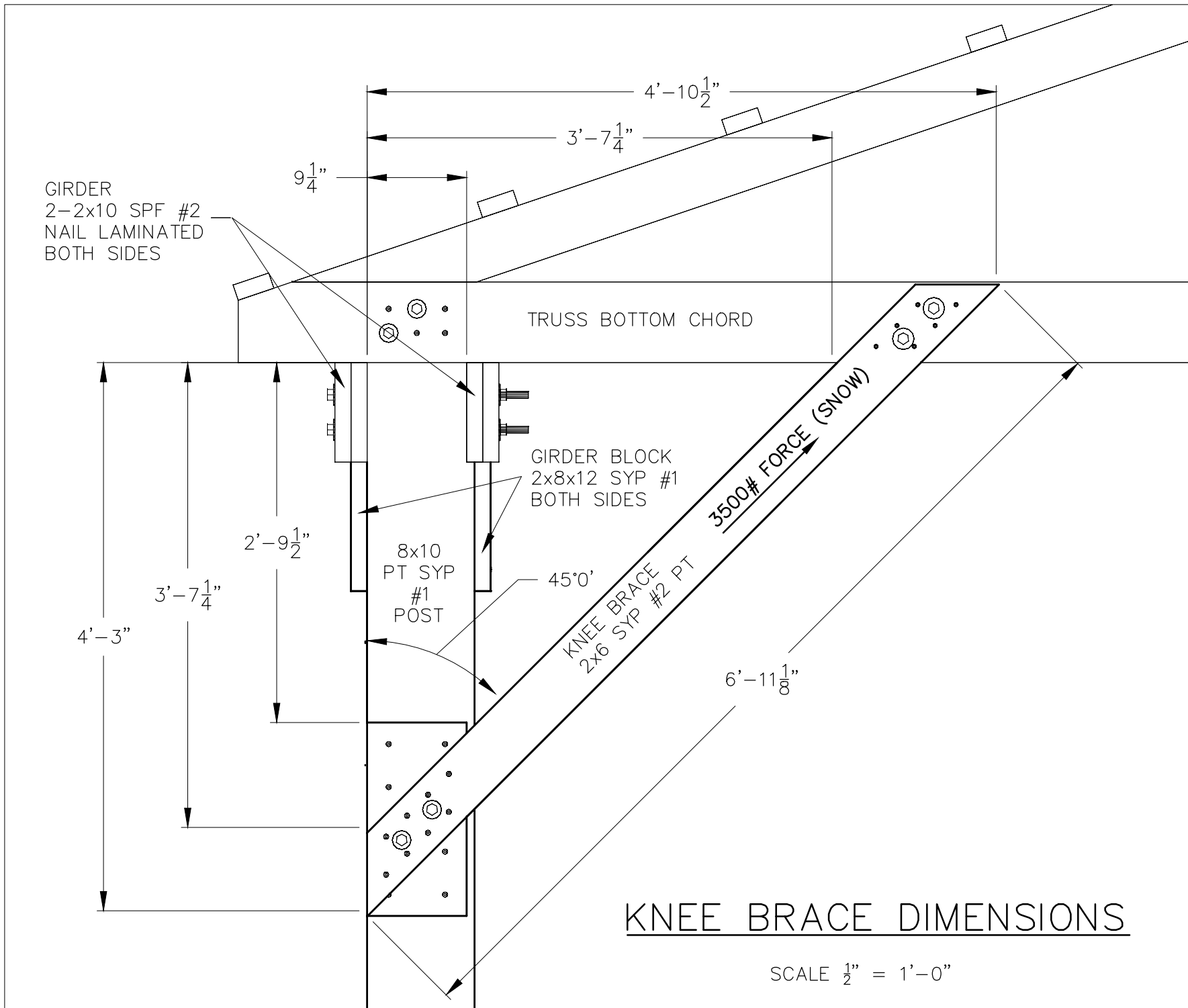
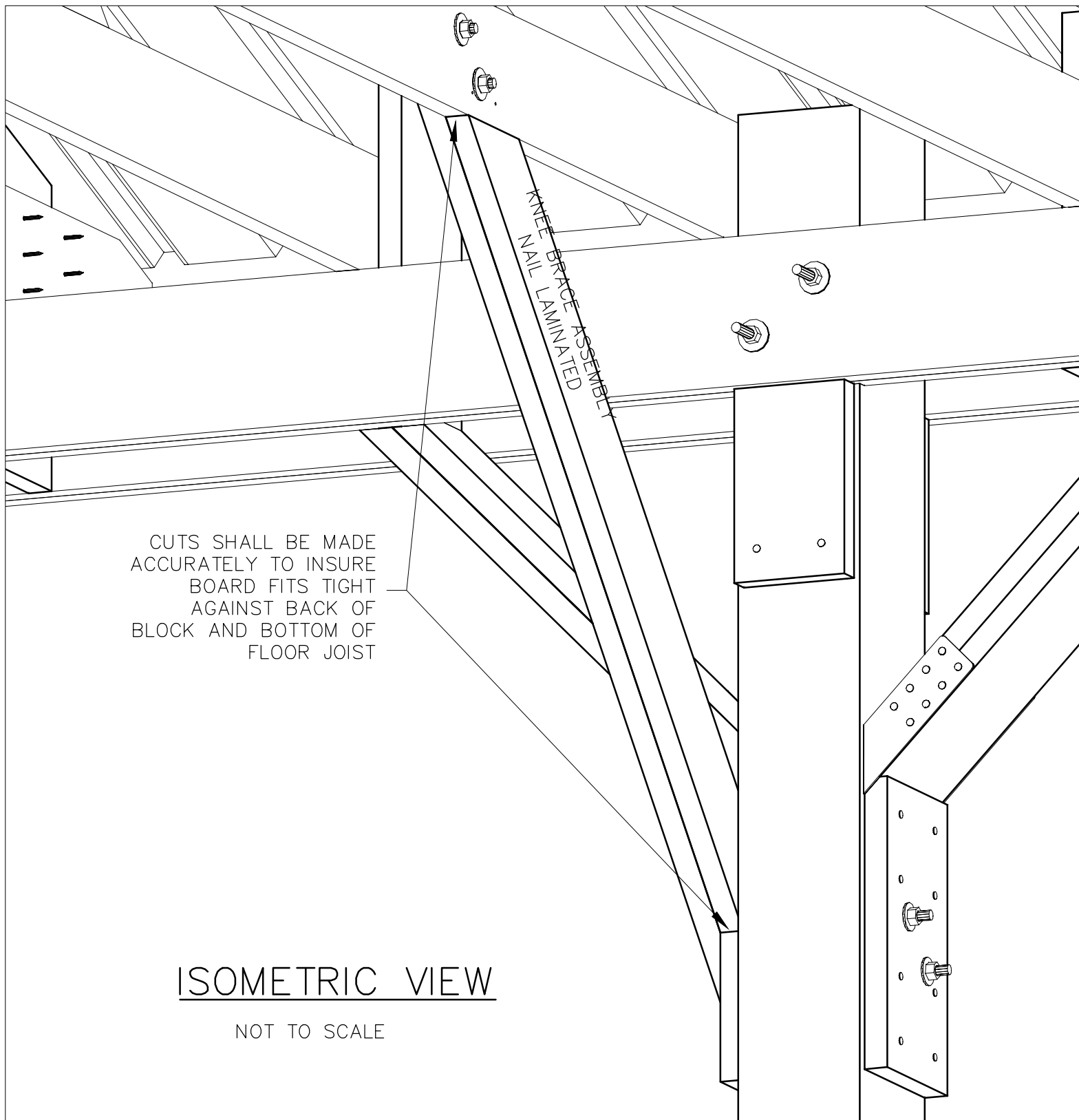
Designed	TATE, JEFFREY	Date	7/10
Drawn	TATE, JEFFREY		7/10
Details Check	LES WRIGHT		8-3-10
Structural Check	LAWRENCE FRAGOMELI		4-7-11
Approved by	TATE, JEFFREY		7-5-11



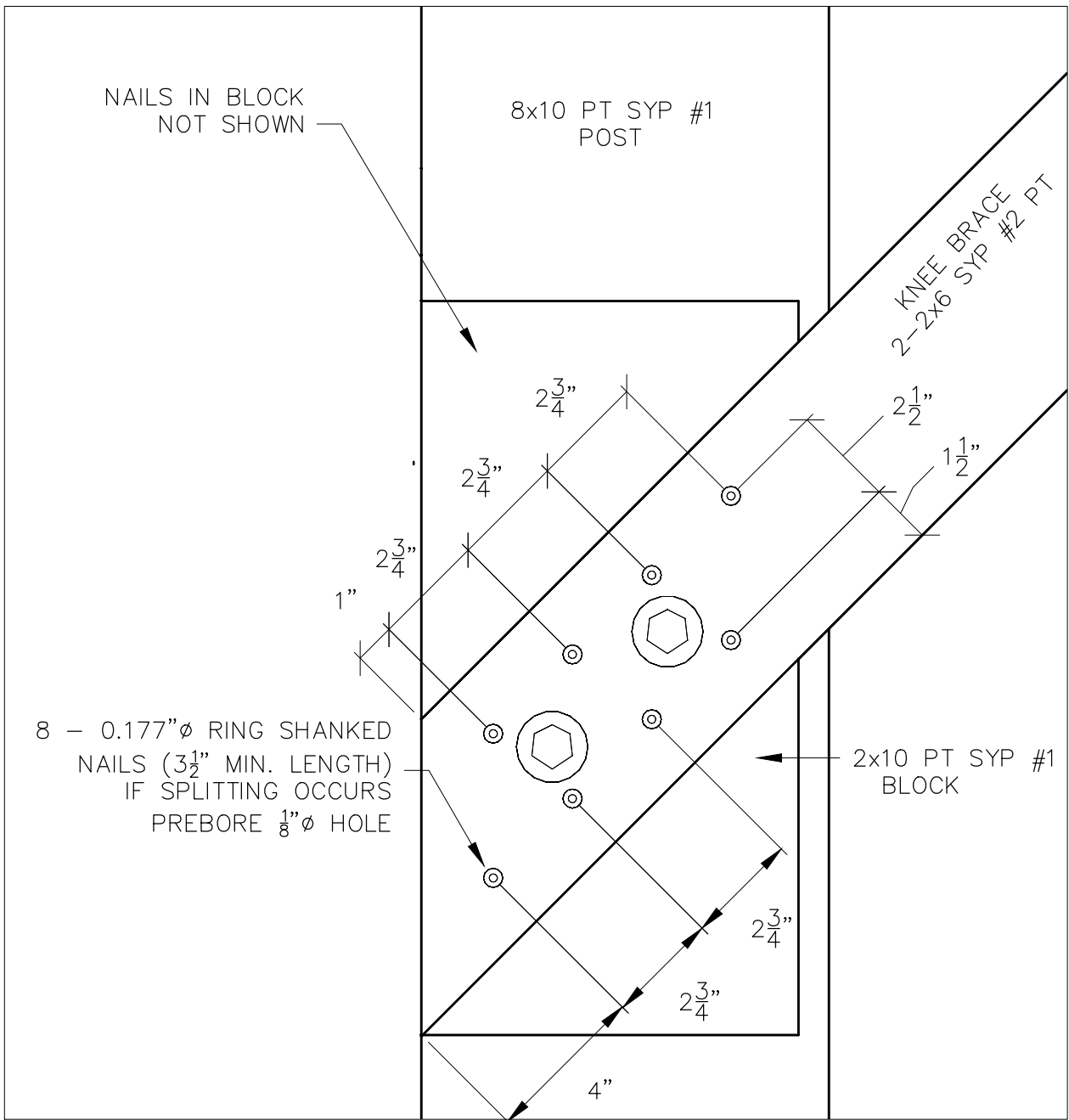
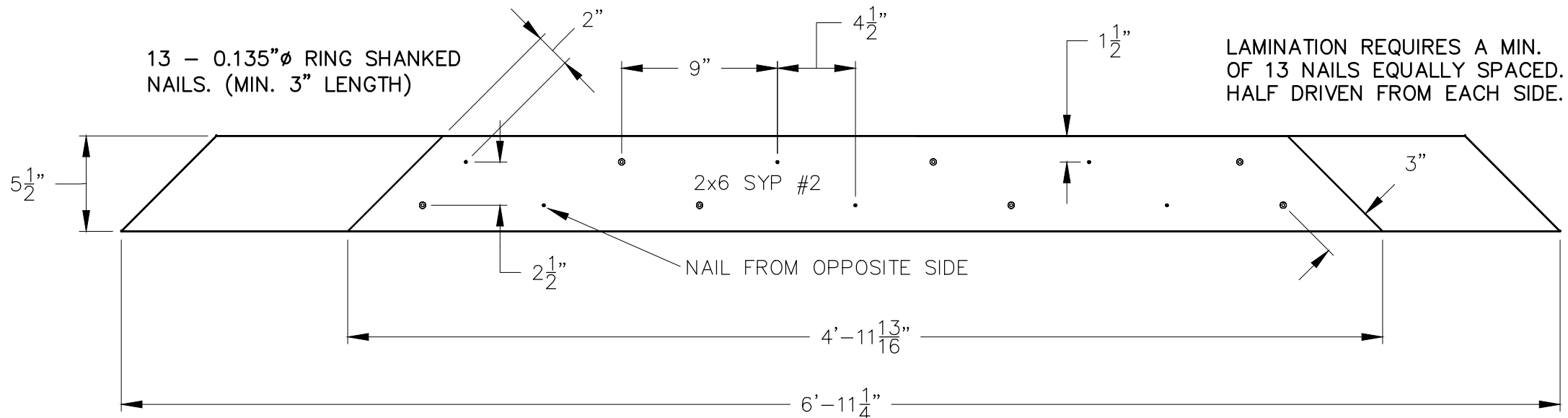
VERMONT STANDARD DRAWING 12' EVE, 40' SPAN ROOF STRUCTURE WYE BRACE DETAILS	HAZARD CLASS LOW	 NRCS Natural Resources Conservation Service United States Department of Agriculture	Designed TATE, JEFFREY	Date 7/10
	JOB CLASS V		Drawn TATE, JEFFREY	7/10
VERMONT			Details Check LES, WRIGHT	8-3-10
			Structural Check LAWRENCE, FRAGOMELLI	4-7-11
			Approved by TATE, JEFFREY	7-5-11
File Name				
Drawing Name	VT124060B-C			
Sheet	4	of	6	



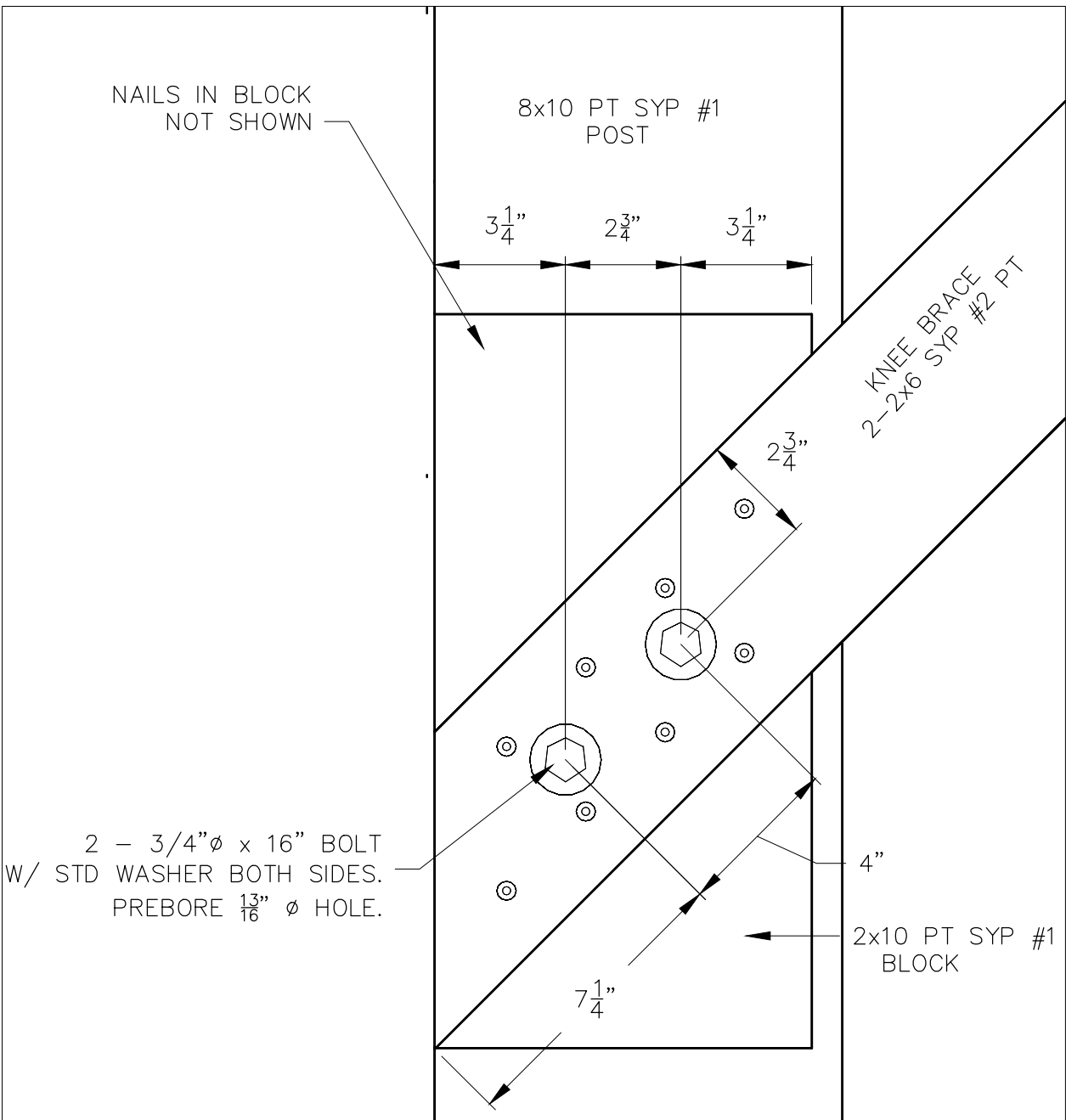
ISOMETRIC VIEW
NOT TO SCALE



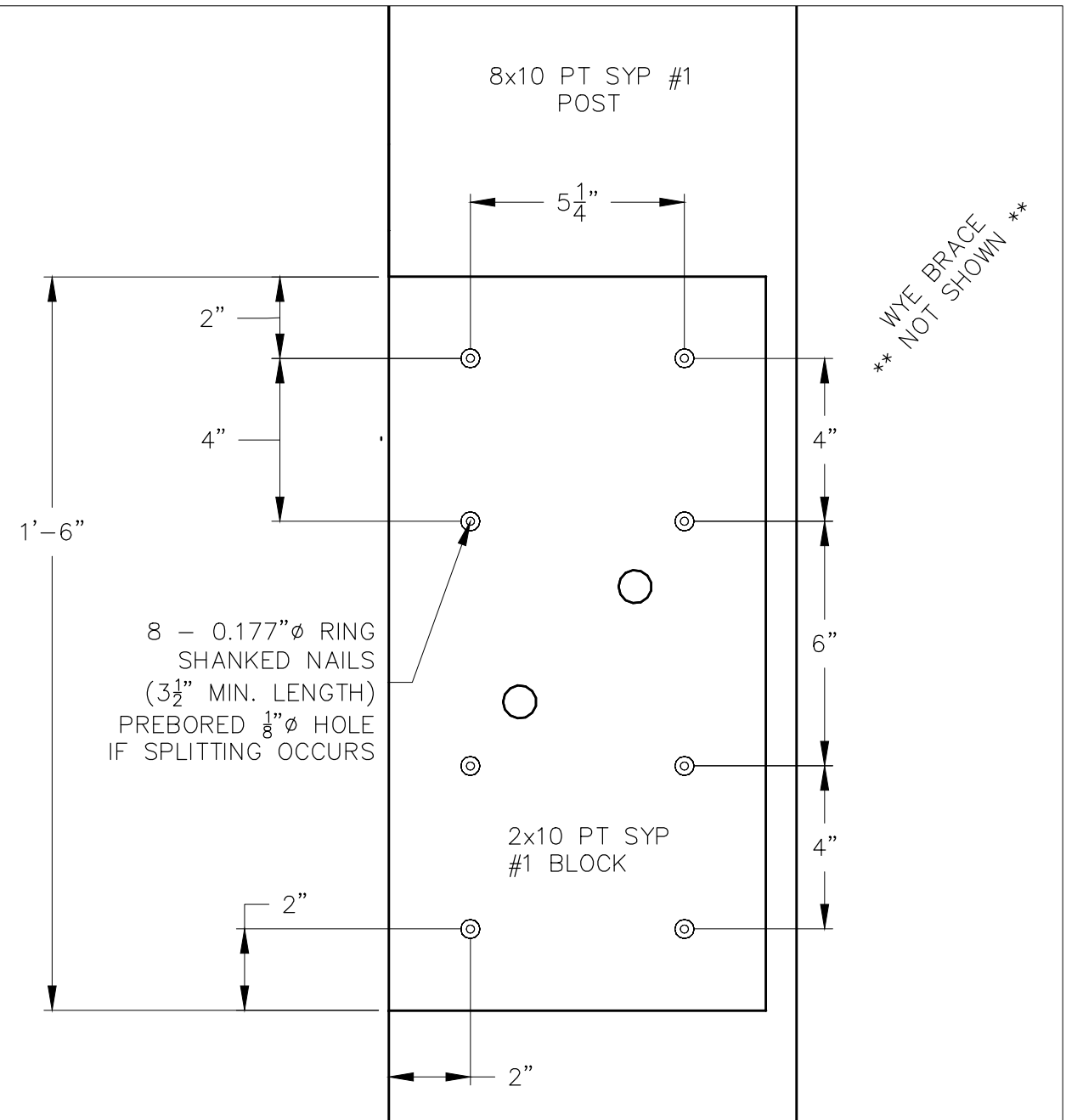
KNEE BRACE NAIL
LAMINATION PATTERN
SCALE $\frac{3}{4}$ " = 1'-0"



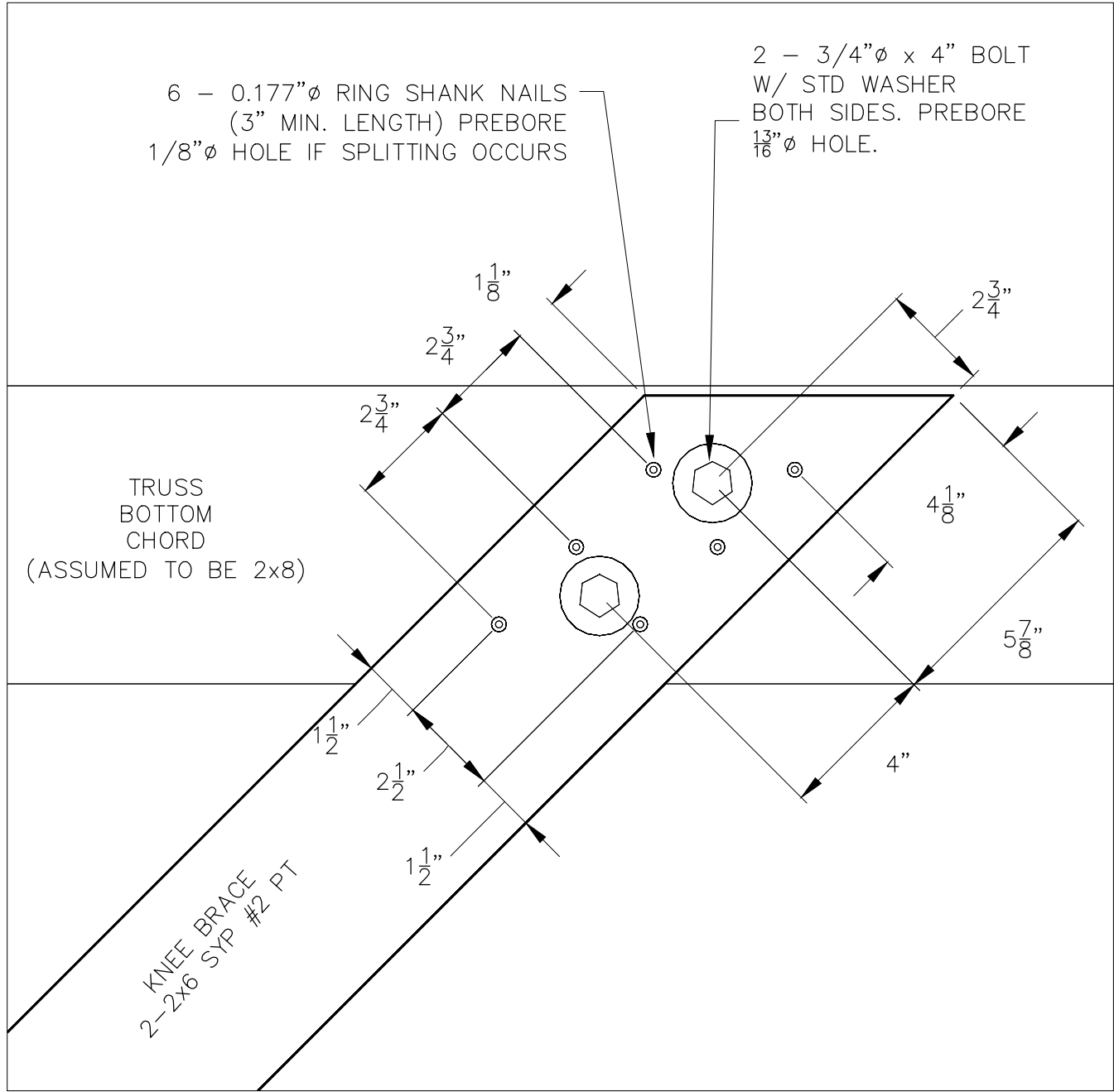
KNEE BRACE CONNECTION @ POST
SCALE $\frac{1}{2}$ " = 1'-0"



KNEE BRACE CONNECTION @ POST
SCALE $\frac{1}{2}$ " = 1'-0"



KNEE BRACE BLOCK DETAIL
SCALE $\frac{1}{2}$ " = 1'-0"



KNEE BRACE CONNECTION @ FLOOR JOIST
SCALE $\frac{1}{2}$ " = 1'-0"

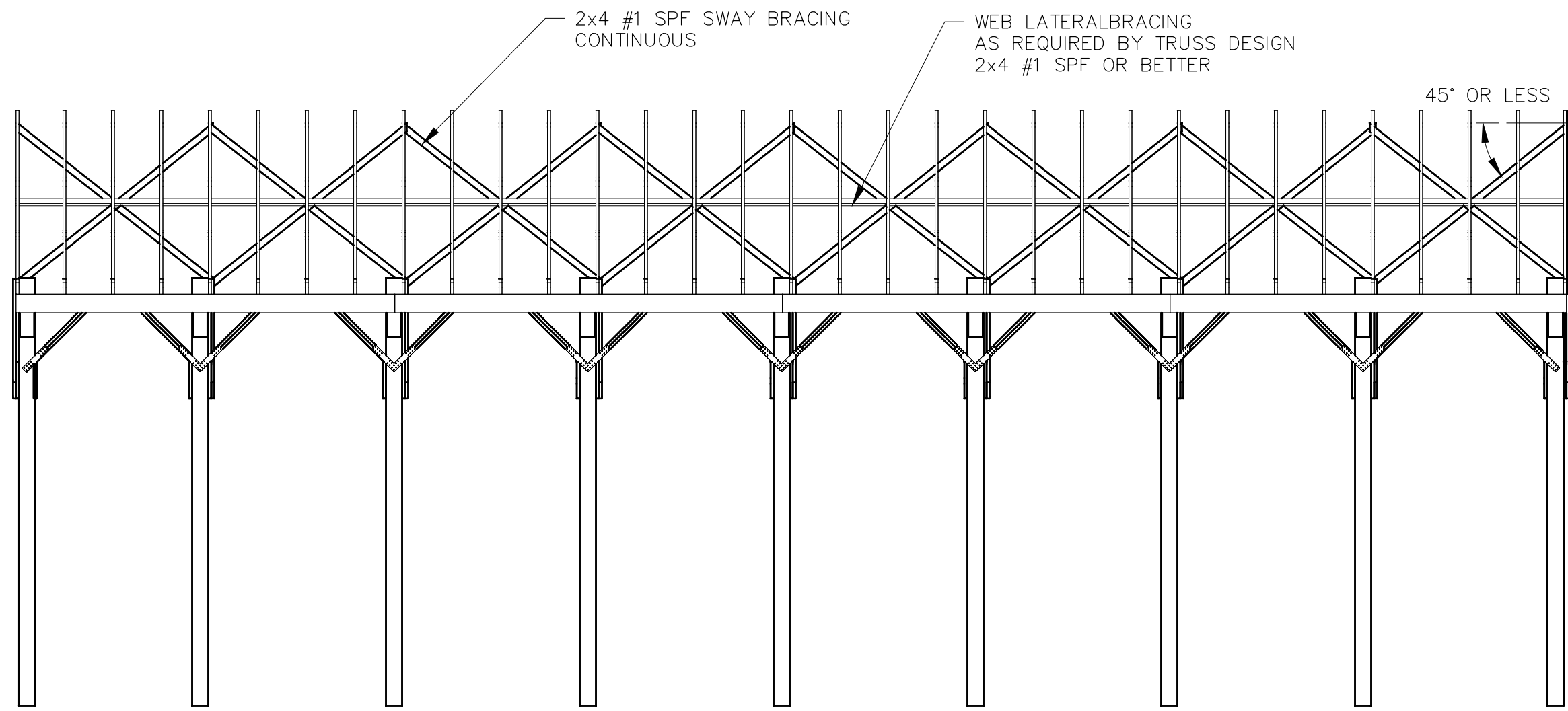
Designed TATE, JEFFREY Date 7/10
Drawn TATE, JEFFREY 7/10
Details Check LES, WRIGHT 8-3-10
Structural Check LAWRENCE, FRACOMELLI 4-7-11
Approved by TATE, JEFFREY 7-5-11



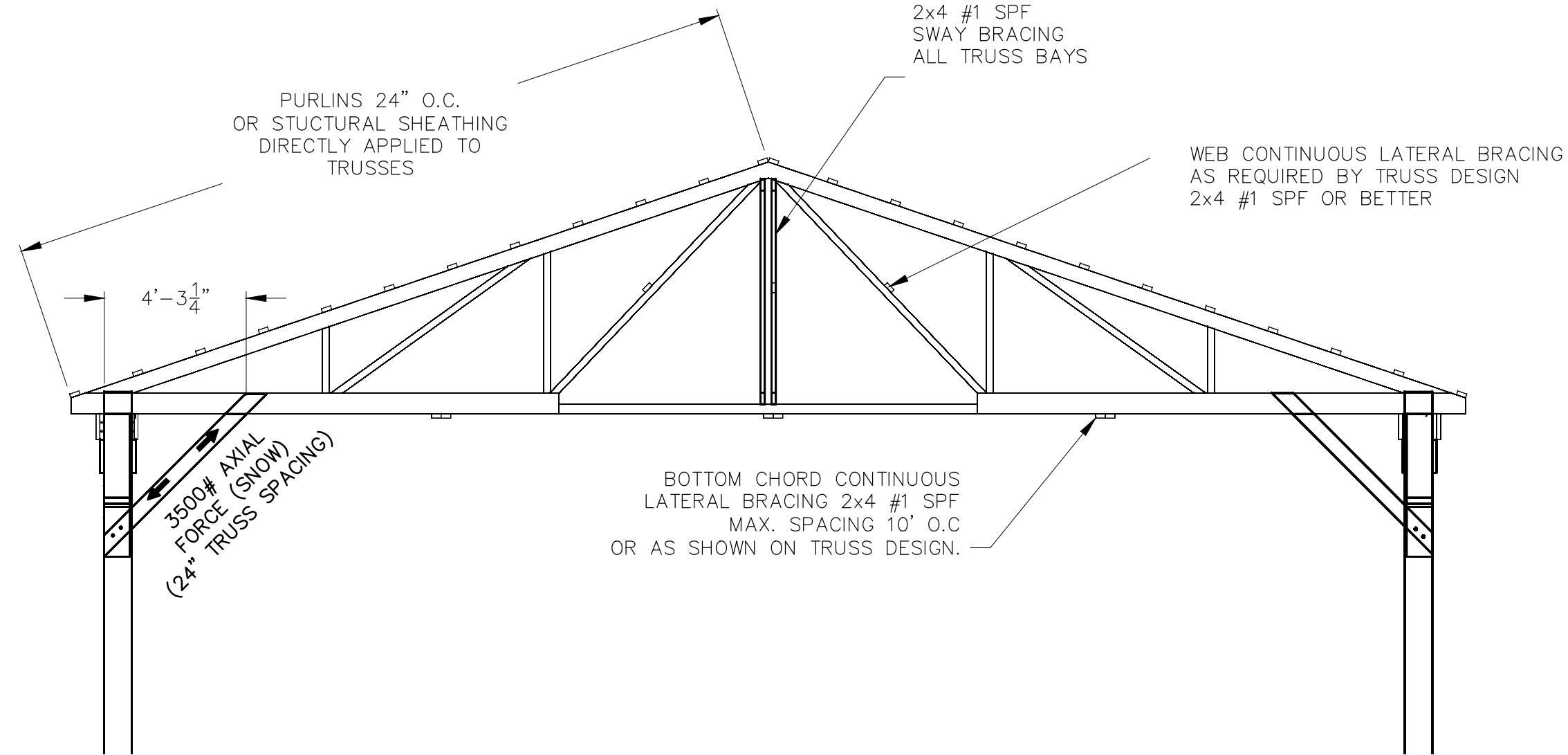
HAZARD CLASS
LOW
JOB CLASS
V

VERMONT STANDARD DRAWING
12' EVE, 40' SPAN ROOF STRUCTURE
KNEE BRACE DETAILS
VERMONT

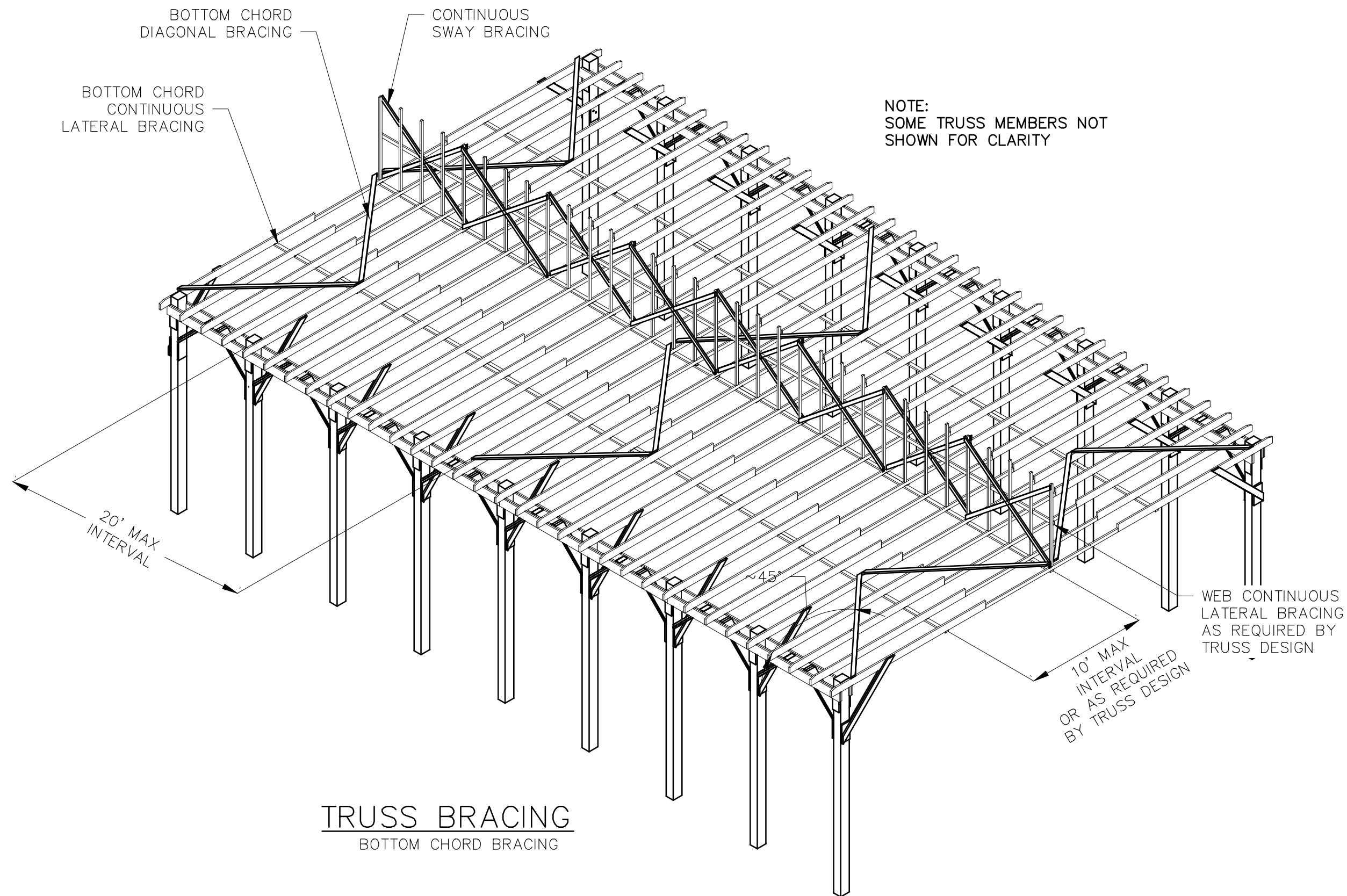
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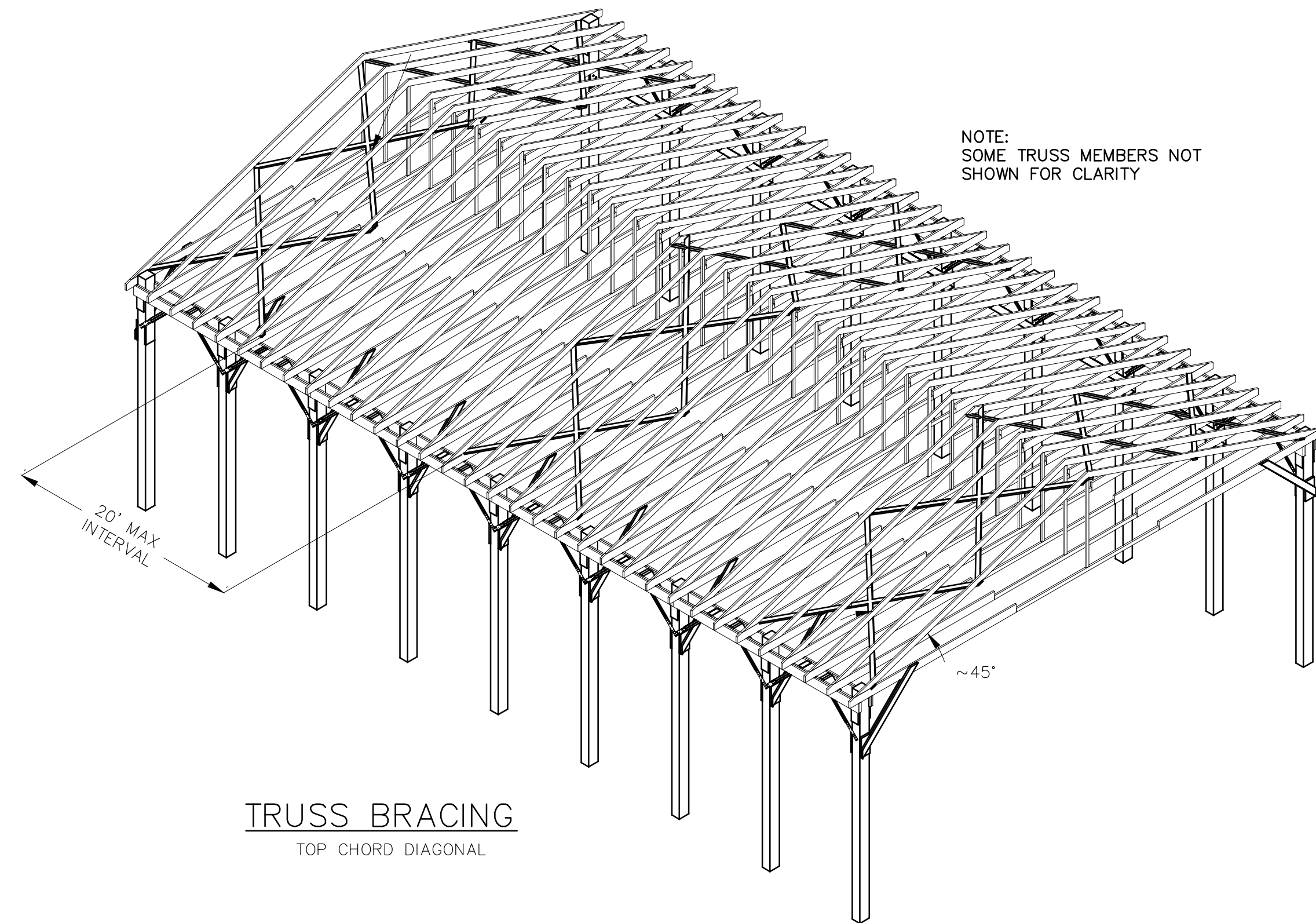
TRUSS BRACING
SCALE $\frac{3}{32}$ " = 1'-0"



TRUSS BRACING
SCALE $\frac{1}{8}$ " = 1'-0"



TRUSS BRACING
BOTTOM CHORD BRACING



TRUSS BRACING
TOP CHORD DIAGONAL

NOTE:
ALL PURLINS, LATERAL BRACING AND DIAGONAL
BRACING REQUIRE A MIN. OF:
2-10d (0.131"Ø MIN.)
RING SHANKED NAILS
AT EACH INTERSECTION