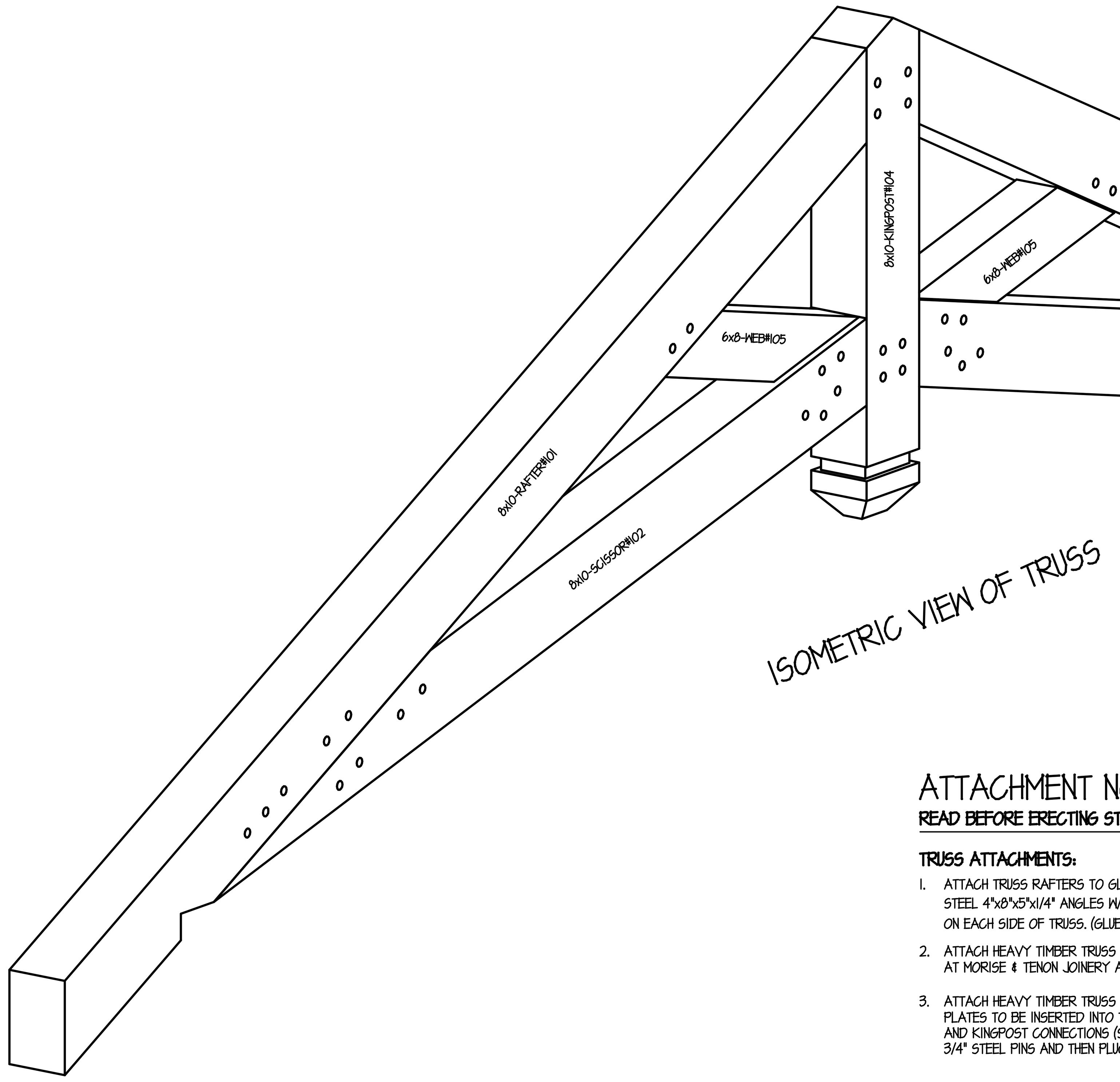


ISOMETRIC VIEW OF TRUSS

GENERAL NOTES:

1. HEAVY TIMBER FRAME DESIGN CRITERIA: HEAVY TIMBER FRAMES ARE DESIGNED FOR THE LOADING SHOWN IN ACCORDANCE WITH THE 1997 "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS) BY THE AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA), AND THE LATEST EDITION OF "THE TIMBER CONSTRUCTION MANUAL" (TCM) BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC).
2. HEAVY TIMBER FRAME HANDLING AND FIELD ERECTION: HEAVY TIMBER FRAME SHALL BE HANDLED, INSTALLED, AND FASTENED ACCORDING TO THE 1997 NDS BY AF&PA AND THE LATEST EDITION OF THE TCM BY AITC. ALL HEAVY TIMBERS SHALL BE HANDLED WITH STRAPS OR SLINGS SO AS NOT TO MARK WOOD SURFACES. HEAVY TIMBER TRUSSES AND BEAMS SHALL NOT BE CUT OR REMANUFACTURED WITHOUT THE WRITTEN APPROVAL OF THE BUILDING DESIGNER.
3. WHEN STRUCTURAL MEMBERS ARE IN CONTACT WITH OTHER CONSTRUCTION MATERIAL (PLASTER, GLASS, TILE, ETC.). THE APPROVING PARTY MUST ASSUME THE RESPONSIBILITY TO ACCOMMODATE DEFLECTION, ACCOMMODATIONS SHALL ALSO BE MADE FOR THE TEMPORARY SWELLING OF STRUCTURAL WOOD MEMBERS DUE TO CHANGES IN WOOD MOISTURE CONTENT.
4. WOOD PEGS SHALL BE HARDWOOD SPECIES WITH A SPECIFIC GRAVITY NO LESS THAN 0.68. ALL PEGS ARE 1" DIAMETER UNLESS NOTED OTHERWISE.
5. STEEL PINS ARE 3/4" DIAMETER CHAMFERED ASTM A-36 STEEL STOCK UNLESS NOTED OTHERWISE. DRILLED HOLES IN TIMBER SHALL BE SAME DIAMETER AS PIN TO PROVIDE A SNUG FIT. WOOD PLUGS USED TO CONCEAL PINS SHALL BE GLUED IN PLACE, AND SHALL BE SIZED SO AS TO MAINTAIN A 1/8" SPACE BETWEEN THE WOOD PLUG AND THE STEEL PIN.
6. ALL BOLTS ARE ASTM-A307, GRADE 2. BOLTS AND NUTS ARE TO BE ZINC PLATED CONFORMING TO ASTM B633. HEX NUTS ARE ASTM-A563, GRADE A. WASHERS SHALL BE SAE FLAT WASHERS. ALL BOLTS ARE 3/4" DIAMETER UNLESS NOTED OTHERWISE. DRILLED HOLES IN THE WOOD AND STEEL SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER.
7. ALL STEEL PLATES ARE 1/4" THICK UNLESS NOTED OTHERWISE AND ARE ASTM-A36 GRADE A. PLATE ASSEMBLIES ARE TO BE SHOP WELDED WITH 1/4" FILLET WELD MINIMUM. NO FIELD WELDING REQUIRED. ALL PLATE HARDWARE TO BE COATED WITH RUST INHIBITIVE PAINT. USE 70 KSI ELECTRODES FOR ALL WELDED ASSEMBLIES.
8. LOADING (AS PER ASCE 7-98)

ROOF LOAD (PSF)

LIVE	30
DEAD	10

WIND LOADS

DESIGN WIND SPEED	90 MPH
EXPOSURE CLASSIFICATION	C
IMPORTANCE FACTOR	1.0

9. DESIGN VALUES IN PSI ACCORDING TO 1997 NDS WWPA GRADING RULES

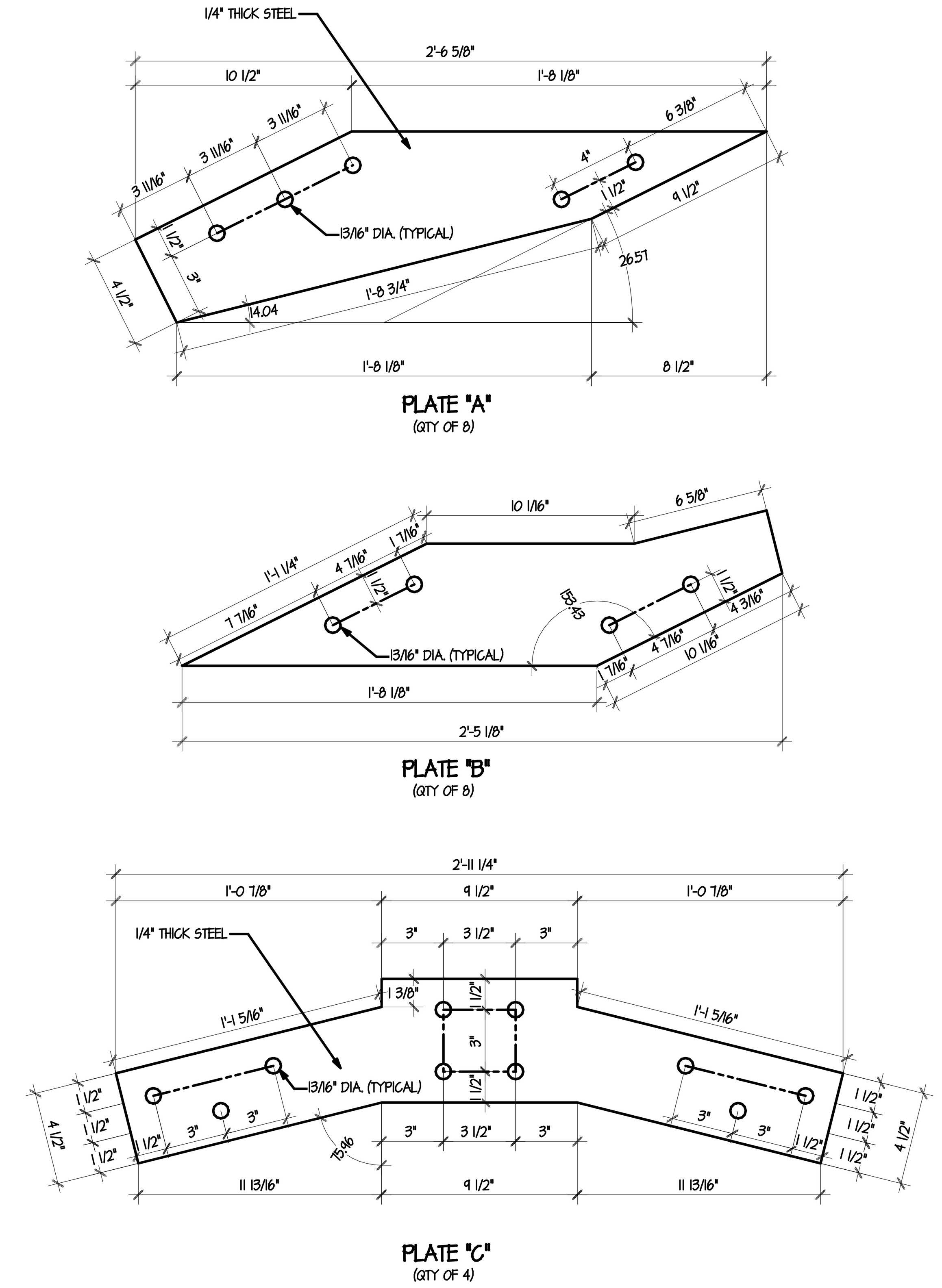
1 DOUGLAS FIR-LARCH
(BEAMS & STRINGERS)

Fb	= 1300
Fc parallel	= 875
Ft	= 875
Fc perpendicular	= 625
Fv	= 85
E	= 1,500,000

10. DEFLECTION LIMITS:

VERTICAL
LL - L/240
TL - L/180

HORIZONTAL
WL- - L/240



ATTACHMENT NOTES

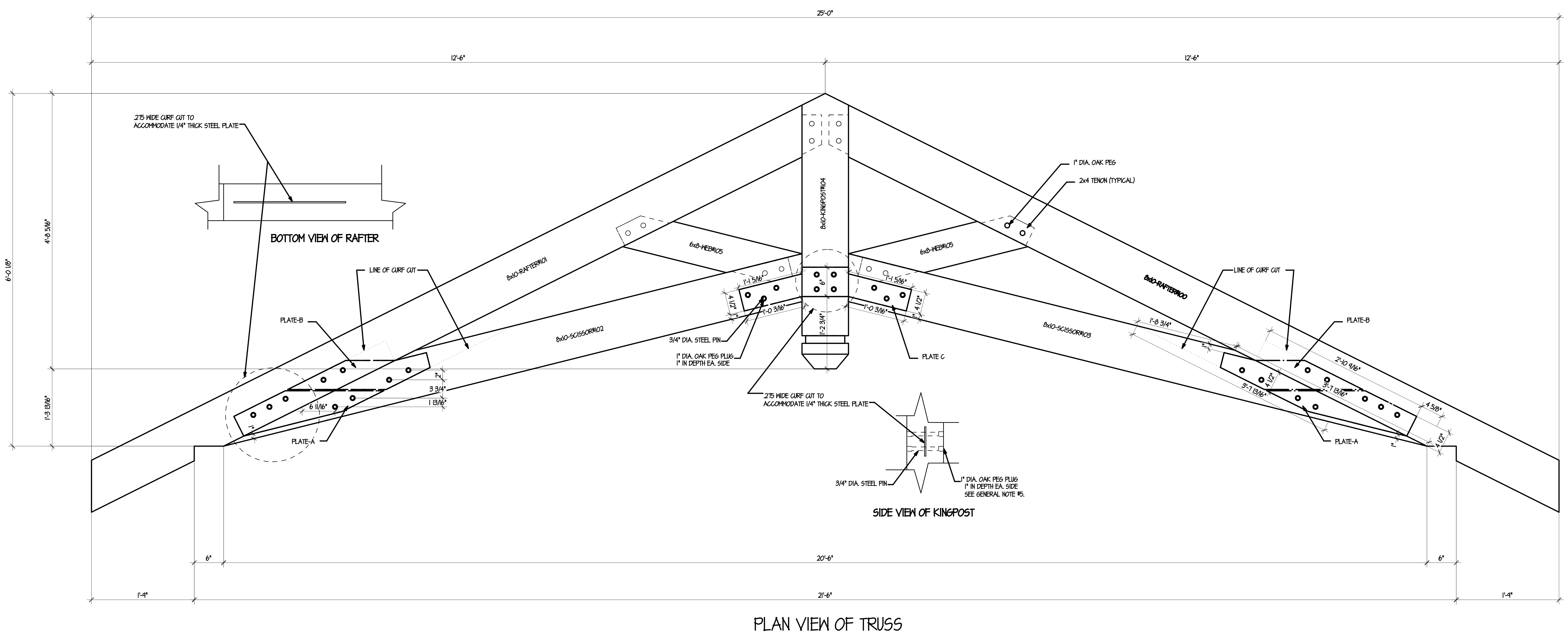
READ BEFORE ERECTING STRUCTURE.

TRUSS ATTACHMENTS:

1. ATTACH TRUSS RAFTERS TO GLUE LAM GIRDER USING PAINTED STEEL 4"x8"x5"x1/4" ANGLES W/ (2) 1/2" DIA. THRU BOLTS ON EACH SIDE OF TRUSS. (GLUE LAM AND PLATE BY OTHERS.)
2. ATTACH HEAVY TIMBER TRUSS TOGETHER USING 1" DIA. OAK PEGS (TYP.) AT MORISE & TENON JOINERY AREAS (WEBS, KINGPOST, ETC.)
3. ATTACH HEAVY TIMBER TRUSS TOGETHER USING 1/4' THICK STEEL PLATES. PLATES TO BE INSERTED INTO TIMBERS WITH CURF CUT AT BOTTOM CHORD AND KINGPOST CONNECTIONS (SEE DWGS). PLATES TO BE SECURED WITH 3/4" STEEL PINS AND THEN PLUGGED WITH 1" DIA OAK PEGS AT EITHER SIDE.

PRODUCTION NOTES:

1. DOUG FIR MATERIAL
2. PLANED
3. SEAL TIMBERS



PLAN VIEW OF TRUSS
(QTY OF 4)

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TTE DRAWING NUMBER: ME060-03

Timothy R. Royer P.E. WV Cert. #11747

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DANDRIDGE, TENNESSEE 37725
800-247-4442

CUSTOMER: US EQUIPMENT
HUNTINGTON, WV

MODEL: CUSTOM TIMBER TRUSS

SQUARE FOOTAGE: N/A

TITLE: HEAVY TIMBER TRUSS DESIGN

LAST DATE PLOTTED: 01-05-04

REVISION TYPE:	REV. BY:	DATE:
FINAL	RBA	1/4/04

SCALE: 1" = 1'-0"

DATE: 11-24-03

DRAWN BY: RBA

CUSTOMER NAME: US EQUIPMENT

SALES ORDER NO: 10803

JOB ORDER NO: 9120

HEARTHSTONE REP: MANIS

SHEET NO: 1 OF 1

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