Job Name: RICK VANHANDEL — Truss ID: B — Qty: 1 — Drwg:

BRG	X-LOC	REACT	SIZE	REQ'D
1	0- 2-12	3849	5.50"	3.19"
2	47- 9- 4	3849	5.50"	3.19"

BRG REQUIREMENTS shown are based ONLY on the truss material at each bearing

TC	FORCE	AXL	BND	CSI
1-2	-5350	0.10	0.27	0.37
2-3	-5714	0.15	0.15	0.30
3-4	-5638	0.13	0.38	0.51
4-5	-1510	0.00	0.25	0.26
5-6	-2116	0.01	0.18	0.20
6-7	-2116	0.01	0.18	0.20
7-8	-1510	0.00	0.25	0.26
8-9	-5638	0.13	0.38	0.51
9-10	-5714	0.15	0.15	0.30
10-11	-5350	0.10	0.27	0.37

BC	FORCE	AXL	BND	CSI
12-13	4314	0.12	0.20	0.31
13-14	4326	0.08	0.67	0.75
14-15	4553	0.10	0.67	0.77
15-16	4553	0.10	0.67	0.77
16-17	4326	0.08	0.67	0.75
17-18	4326	0.12	0.20	0.31
18-19	4314	0.12	0.20	0.31

WEB	FORCE	CSI	WEB	FORCE	CSI
2-13	-1165	0.42	8-16	1905	0.47
2-14	1008	0.25	10-16	1008	0.25
4-14	1905	0.47	10-18	-1165	0.42

TB	FORCE	AXL	BND	CSI
4-20	-3400	0.78	0.22	1.00
20-8	-3400	0.78	0.22	1.00

AW	FORCE	CSI	AW	FORCE	CSI
5-20	1055	0.26	7-20	1055	0.26
6-20	-478	0.08			

TC	2x6	SPF	C1650F1.5E
BC	2x12	SP	2250F-1.9E
WEB	2x4	SPF	#1/#2-CAN
TIE BEAM	2x6	SPF	C1650F1.5E
ATTIC WB	2x4	SPF	#1/#2-CAN

Lumber shear allowables are per NDS.
Refer to Joint QC Detail Sheet for Maximum Rotational Tolerance used
Attic room load = 45 psf, plus any added loads indicated. Room LL Defl. is L/360.
IRC/IBC truss plate values are based on testing and approval as required by IBC 1703 and ANSI/TPI and are reported in available documents as ER-1607 and ESR-1118.
Drainage must be provided to avoid ponding.
Attic collar tie requires lateral restraint shown, or rigid sheathing is required.
20 psf bottom chord live load NOT required on this truss, per IBC/IRC requirements for attics with limited storage.

☒ Web bracing required at each location shown. Refer to BCSI for proper required lateral restraint. For alternative web bracing, see ITWBCG's standard details.
[PM]=PLATE MONITOR USED-See Joint Report
Designed per ANSI/TPI 1-2002
This design does not account for long term time dependent loading (creep). Building Designer must account for this.
THIS DESIGN IS THE COMPOSITE RESULT OF MULTIPLE LOAD CASES.
Loaded for 10 PSF non-concurrent BCLL.
+ +
Unrestrained horiz. LL deflection = 0.30 "
+ +
One row of cross bridging (X-bracing) may be required at centerline of room per NDS.

This design based on chord bracing applied per the following schedule:

	max o.c.	from	to
TC	24.00"	18- 0- 0	30- 0- 0

HORIZONTAL REACTION(S) :
support 1 -291 lb
support 2 -291 lb
This truss is designed using the ASCE7-05 Wind Specification
Bldg Enclosed = Yes, Importance Factor = 1.00
Truss Location = Not End Zone
Hurricane/Ocean Line = No , Exp Category = B
Bldg Length = 104.00 ft, Bldg Width = 48.00 ft
Mean roof height = 20.50 ft, mph = 90
ASCE7 II Standard Occupancy, Dead Load = 10.0 psf
Designed as Main Wind Force Resisting System - Low-rise and Components and Cladding
Tributary Area = 96 sqft

----------LOAD CASE #1 DESIGN LOADS ----------------

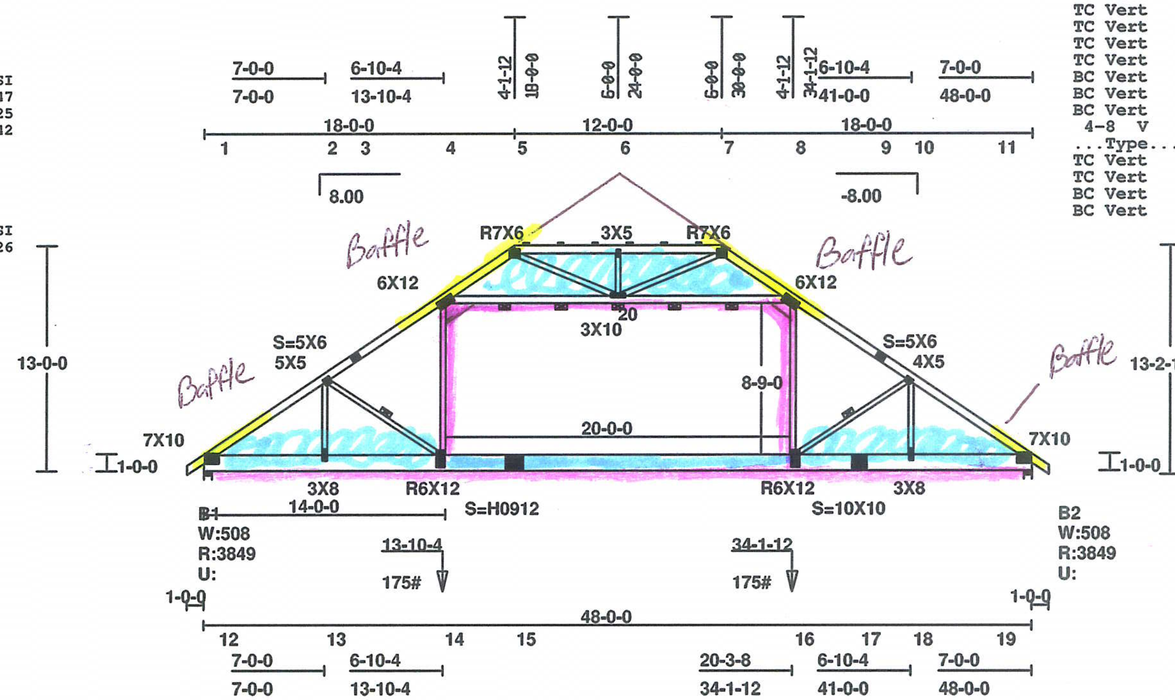
Dir	L.Plf	L.Loc	R.Plf	R.Loc	LL/TL
TC Vert	100.00	- 1- 0- 0	100.00	0- 0- 0	0.60
TC Vert	80.00	0- 0- 0	80.00	13-10- 4	0.75
TC Vert	100.00	13-10- 4	100.00	14- 0- 0	0.60
TC Vert	80.00	14- 0- 0	80.00	34- 0- 0	0.75
TC Vert	100.00	34- 0- 0	100.00	34- 1-12	0.60
TC Vert	80.00	34- 1-12	80.00	48- 0- 0	0.75
TC Vert	100.00	48- 0- 0	100.00	49- 0- 0	0.60
BC Vert	20.00	0- 0- 0	20.00	13-10- 4	0.00
BC Vert	110.00	13-10- 4	110.00	34- 1-12	0.73
BC Vert	20.00	34- 1-12	20.00	48- 0- 0	0.00
4-8 V	20.00	14- 0- 0	20.00	34- 0- 0	0.00

...Type...	lbs	X.Loc	LL/TL
TC Vert	60.0	- 1- 0- 0	1.00
TC Vert	60.0	49- 0- 0	1.00
BC Vert	175.0	13-10- 4	0.00
BC Vert	175.0	34- 1-12	0.00

MAX DEFLECTION (span) :
L/899 MEM 14-15 (LIVE) LC 3
L= -0.63" D= -0.20" T= -0.84"

===== Joint Locations =====

1	0- 0- 0	11	48- 0- 0
2	7- 0- 0	12	0- 0- 0
3	8-11- 0	13	7- 0- 0
4	13-10- 4	14	13-10- 4
5	18- 0- 0	15	18- 0- 0
6	24- 0- 0	16	34- 1-12
7	30- 0- 0	17	38- 0- 0
8	34- 1-12	18	41- 0- 0
9	39- 1- 0	19	48- 0- 0
10	41- 0- 0	20	24- 0- 0



3/17/2014

All plates are 20 gauge Truswal Connectors unless preceded by "MX" for HS 20 gauge or "H" for 16 gauge, positioned per Joint Detail Reports available from Truswal software, unless noted.

Scale: 3/32" = 1'

PH. 920-766-0601
VALLEY TRUSSES INC
P.O. BOX 101, Kaukauna, WI. 54130

WARNING Read all notes on this sheet and give a copy of it to the Erecting Contractor.

This design is for an individual building component not truss system. It has been based on specifications provided by the component manufacturer and done in accordance with the current versions of TPI and AFPA design standards. No responsibility is assumed for dimensional accuracy. Dimensions are to be verified by the component manufacturer and/or building designer prior to fabrication. The building designer must ascertain that the loads utilized on this design meet or exceed the loading imposed by the local building code and the particular application. The design assumes that the top chord is laterally braced by the roof or floor sheathing and the bottom chord is laterally braced by a rigid sheathing material directly attached, unless otherwise noted. Bracing shown is for lateral support of components members only to reduce buckling length. This component shall not be placed in any environment that will cause the moisture content of the wood to exceed 19% and/or cause connector plate corrosion. Fabricate, handle, install and brace this truss in accordance with the following standards: 'Joint and Cutting Detail Reports' available as output from Truswal software, 'ANSI/TPI 1', 'WTCA 1' - Wood Truss Council of America Standard Design Responsibilities, 'BUILDING COMPONENT SAFETY INFORMATION' - (BCSI) and 'BCSI SUMMARY SHEETS' by WTCA and TPI. The Truss Plate Institute (TPI) is located at 218 N. Lee Street Suite 312, Alexandria, VA 22314. The American Forest and Paper Association (AFPA) is located at 1111 19th Street, NW, Ste 800, Washington, DC 20036.

Chk:
Dsgnr:

TC Live	30.00 psf
TC Dead	10.00 psf
BC Live	0.00 psf
BC Dead	10.00 psf
TOTAL	50.00 psf

WO: VANHANDEL012214

DurFacs L=1.15 P=1.15
Rep Mbr Bnd 1.10
O.C.Spacing 2- 0- 0
Design Spec IRC-2006
Seqn T6.5.19 - 20169