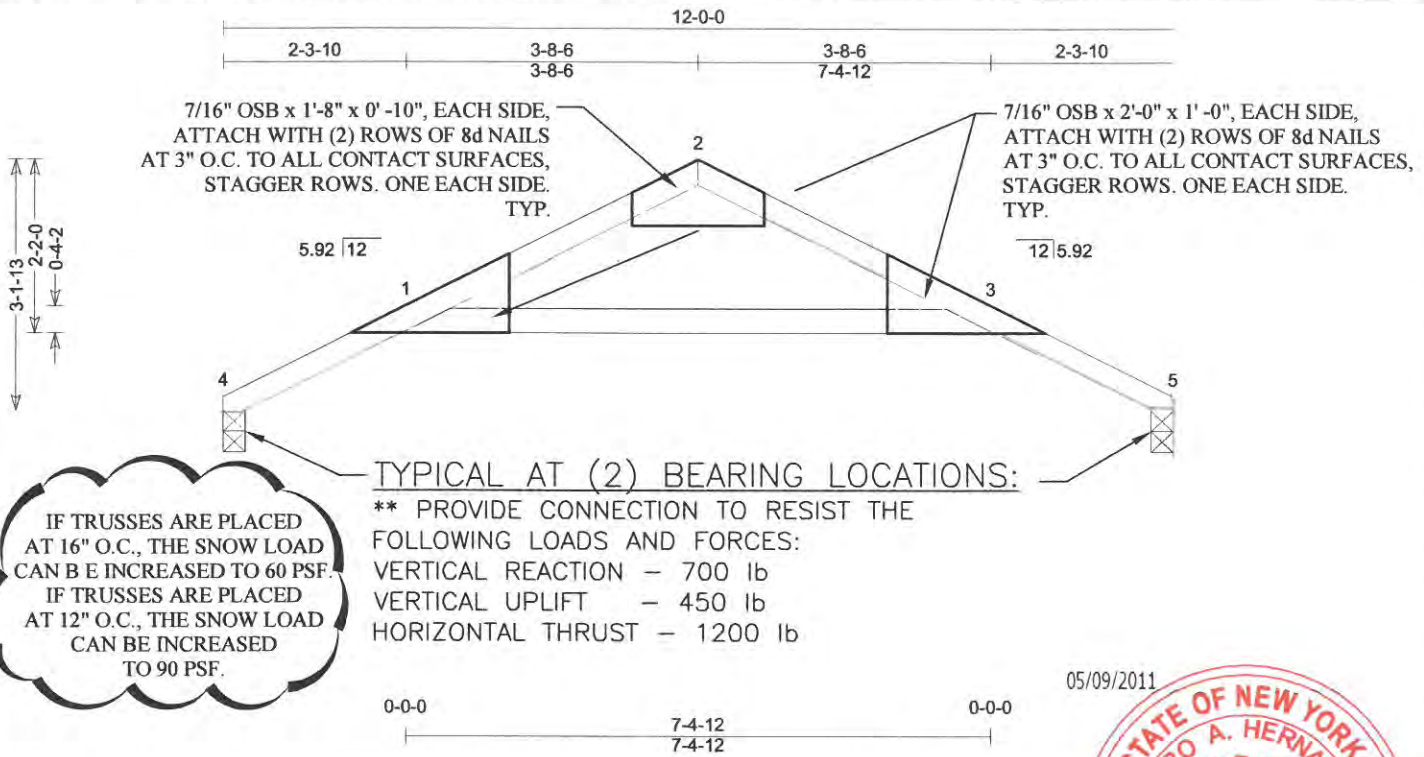


SPAN 7-4-12	PITCH 5.921 /12	QTY 1	OHL 2-3-10	OHR 2-3-10	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 23 lbs
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05/09/2011



Loading	General	CSI Summary	Deflection	L/	(loc)	Allowed
Load (psf) TCLL: 40 TCDL: 7 BCLL: 0 BCDL: 10	Bldg Code: IBC 2003/ TPI 1-2002 Rep Mbr Increase No D.O.L.: 115%	TC: 0.87 (1-2) BC: 0.60 (3-1) Web: 0.00 (1)	Vert TL: 0.21 in Vert LL: 0.02 in Horz TL: 0 in	L/ 663 L/ 999	(3-1) (3-1)	L/ 240 L/ 360

Reaction Summary

JT	Type	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
4	Pin (Wall)	1	3.313 in	1.50 in	698 lbs		-147 lbs	-441 lbs	-441 lbs	668 lbs
5	Pin (Wall)	1	3.313 in	1.50 in	698 lbs		-147 lbs	-441 lbs	-441 lbs	668 lbs

Material Summary

TC SPF #2 2 x 4
BC SPF #2 2 x 4
Webs

Bracing Summary

TC Bracing: Sheathed or Purlins at 3-5-0, Purlin design by Others.
BC Bracing: Sheathed or Purlins at 5-4-0, Purlin design by Others.

Loads Summary

- This truss has been designed for the effects of wind loads in accordance with ASCE7 - 02 with the following user defined input: 90 mph, Exposure C, Enclosed, Gable/Hip, Building Category II (I = 1.00), h=B=L=15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- This truss has been designed for the effects of balanced and unbalanced snow loads for hips/gables in accordance with ASCE7 - 02 except as noted, with the following user defined input: 40 psf ground snow load. NOTE: Conservatively, all flat/sloped roof factors have been ignored and the ground snow load has been used for the roof snow load. DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- This truss has been designed for the effects of a 18.1 psf live load computed in accordance with IBC 2003 assuming slope = 5.92 /12 and area supported = 24 ft².
- Minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces Summary

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force)

TC	4-1	0.847	-1,340 lbs	1-2	0.868	-869 lbs	2-3	0.868	-869 lbs	3-5	0.847	-1,340 lbs
BC	3-1	0.596	-1,171 lbs									

Notes:

- When this truss has been chosen for quality assurance inspection, the Effective Tooth Count Method per TPI 1-2002/A3.4 shall be used.
- Brace bottom chord with approved sheathing.
- Multiple pinned bearings exist.

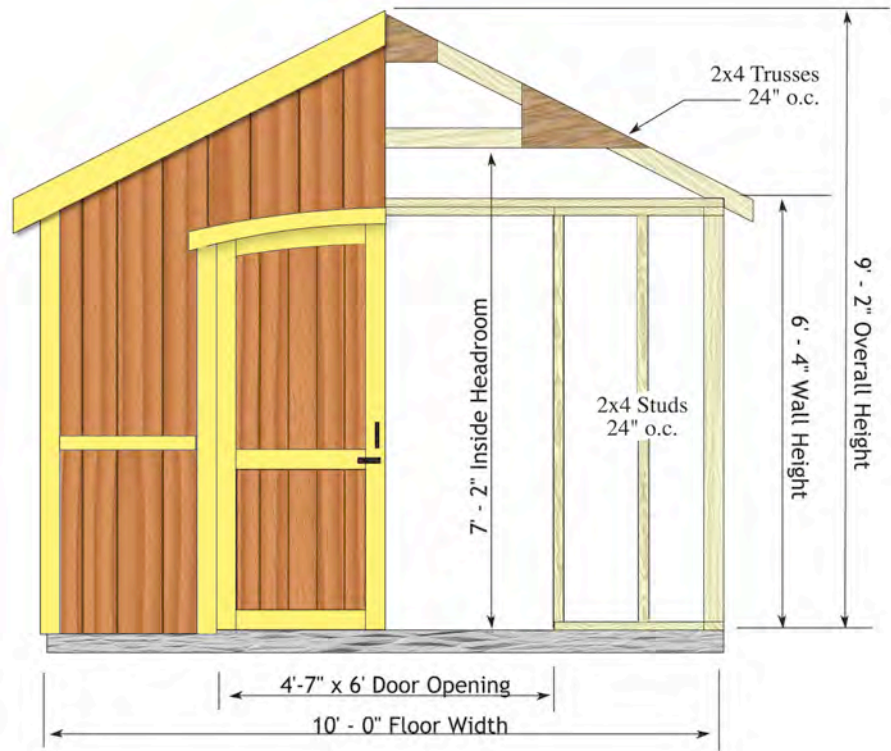
UNIQUE BEARING CONDITIONS AT JOINTS 4 & 5 REQUIRE SPECIAL ATTENTION
THE BUILDING DESIGNER MUST ACCOUNT FOR NOT ONLY THE BEARING REACTION BUT FOR THE HORIZONTAL THRUST AND THE UPLIFT. PROVIDE MECHANICAL CONNECTION (BY OTHERS) TO RESIST SAID FORCES SHOWN HEREON. THRUST = 1180lb/TRUSS

A copy of this design shall be furnished to the erection contractor. This design is for an individual building component (a truss). It is based on specifications provided by the Truss Designer and performed in accordance with TPI 1-2002 and the 2001 NDS design standard. No responsibility is assumed for the accuracy of information provided by the Truss Designer. Dimensions shall be verified by building designer. Creep deflection is not automatically accounted for by the software. The building designer shall review loading, truss configuration and initial deflection data shown to ensure that this design meets or exceeds minimum loading required by applicable building codes. Compression chords shall be laterally braced by the roof or floor sheathing, directly attached, unless otherwise noted. Bracing shown is for internal support of individual truss components only to reduce buckling length. It is not wind or lateral load bracing or overall building design bracing which is by others. Refer to BCN-3 recommended truss handling and erection. Do not apply loads beyond weight of erectors until all permanent bracing is in place. Concentration of construction loads greater than the design loads shall not be applied to the trusses at any time. Trusses shall be handled with care prior to erection to avoid damage. Lumber moisture content shall be 19% or less at the time of fabrication, unless noted otherwise (U.N.O.). Connector plates shall be manufactured by Eagle Metal Products (ESR-1082). Plates shall be applied on both faces of truss at each joint. Plate dimensions are listed width x length. Slots (holes) in plate shall run parallel to the plate length. The plate shall be centered on joint and/or placed in accordance with the current version of TPI assumes adequate anchoring will be provided to resist uplift at supports. The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any particular building design is the responsibility of the building designer, per ANSI/TPI 1-2002 Chapter 2.



Before you order our kit or begin construction, obtain a building permit. If additional documents are required contact Richard@barnkits.com.

CAMBRIDGE ELEVATION



Foundation Size

10'x12' Building	10' - 0" x 12' - 0"
10'x16' Building	10' - 0" x 16' - 0"
10'x20' Building	10' - 0" x 20' - 0"

Wall Framing: Constructed from 2x4 pre-cut wall studs spaced 24" on center between top, bottom and tie plates.

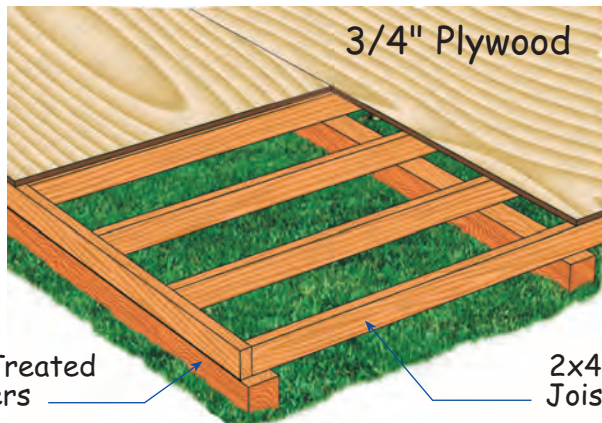
Pocket Doors: Pre-built 2x4 frame covered with LP 'Smart Panel' primed siding. White pine trim, *not painted*, installed over siding.

Siding: Louisiana-Pacific 'Smart Panel' primed 8" o.c. groove with 50 year warranty, 5 year labor replacement

Roof System: 2x4 trusses spaced 24" on center, (40 psf ground snow load, 90 mph wind load). 7/16" OSB roof sheathing. *Shingles by owner.*

Exterior Trim: White pine trim for corners, door, gable trim and front and sidewall fascia.

Hardware: Nails for all framing, metal hurricane hangers for trusses. Heavy duty aluminum track, decorative door handles and lockable door latch.



Deluxe Floor: 4x4 treated runners can be installed directly on the grass. The runners elevate the floor providing air flow under the floor eliminating moisture. 8' and 10' wide floors have three runners, 12' wide floor have four. The floor covering is 3/4" plywood.