

OVERHILLS SCHOOL

30 X 40 X 10'H OPEN SHELTER

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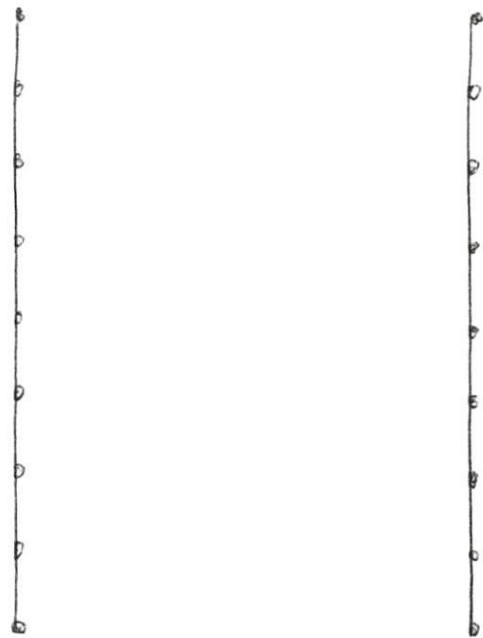
6X6 POST 5' O.C

TRUSS 5' O.C

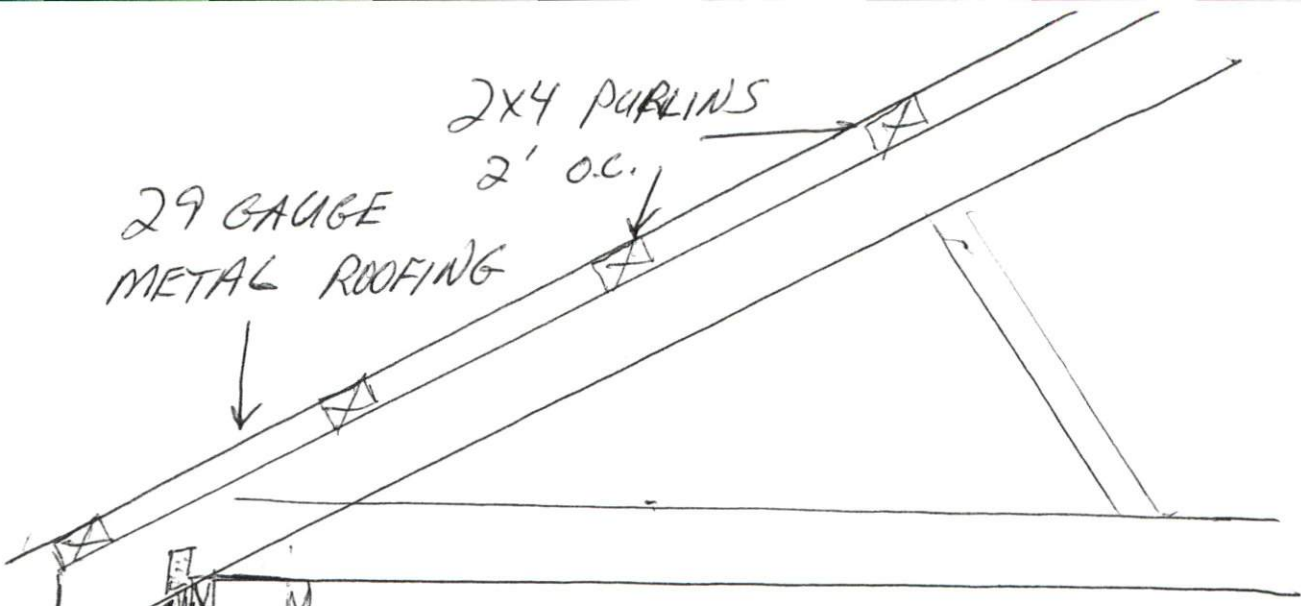
2X4 PURLINS ON TOP 2' O.C

29 GA PAINTED METAL TOP & GABLE ENDS

30'



40'



2x4 PURLINS  
2' o.c.

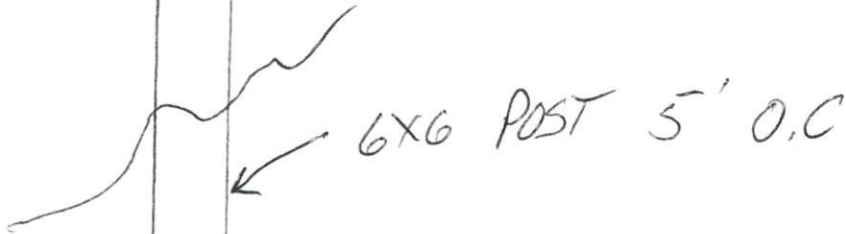
29 GAUGE  
METAL ROOFING

PRE-ENGINEERED  
TRUSS  
5' o.c.



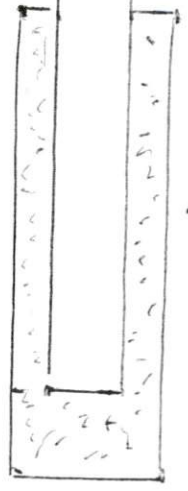
2x6 BAND

2.5  
HUR  
TIE



6x6 POST 5' o.c

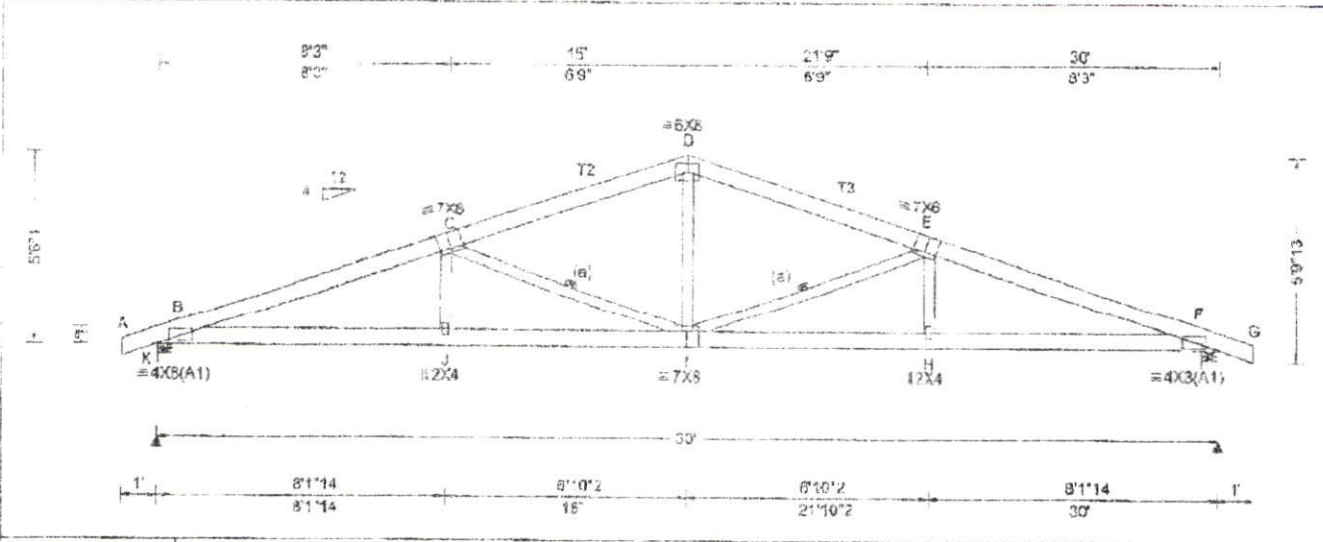
NOT TO  
SCALE



12" x 36" HOLE  
WITH CON-MIX  
FOOTING + BACKFILL

6" CON MIX FOOTING

SEQN: 0799    COMM: Ply 1    Job Number: 0924    Cust: R9612 JR: 11/09/12/002 T1  
 FROM: Qty: 8    Overhills    Truss Label: A1    DwnNo: 052 22.0548.53383  
 / FK    02/21/2022



<b>Loading Criteria (psf)</b> TCCLL: 20.00 BCCLL: 0.00 BCDL: 5.00 Des Ld: 30.00 NCBCCL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 60.0"	<b>Wind Criteria</b> Wind Std: ASCE 7-16 Speed: 120 mph Enclosure: Closed Risk Category: I EXP: C    Kzt: NA Mean Height: 15.00 ft TCCL: 3.0 psf BCDL: 1.0 psf MWFRS Parallel Dist: 0 to hr/2 C&C Dist: 3.00 ft Loc. from endwall: Any GC&C: 0.18 Wind Duration: 1.60	<b>Snow Criteria (Pg.F1 in PSF)</b> Pg: NA    Ct: NA    CAT: NA Pt: NA    Cg: NA Ld: NA    Cs: NA Snow Duration: NA  <b>Building Code:</b> IBC 2018 TP: Std: 2014 Rep. Fac: No FT: RT.20(0x10(0)) Plate Types: WAVE	<b>Defl/CSI Criteria</b> PP Deflection in lbc Udefl L/H VERT(L): 0.268 I 999 240 VERT(DL): 0.400 I 891 240 HORZ(L): 0.066 F - - HORZ(DL): 0.128 F - - Creep Factor: 2.0 Max TC CSI: 0.767 Max BC CSI: 0.791 Max Web CSI: 0.555 VIEW Ver: 20.02.01C.0113.09	<b>Maximum Reactions (lbs)</b> <table border="1"> <thead> <tr> <th>Loc</th> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>2388</td> <td>-</td> <td>-</td> <td>1985</td> <td>1859</td> <td>1267</td> </tr> <tr> <td>F</td> <td>2388</td> <td>-</td> <td>-</td> <td>1985</td> <td>1859</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS          K Brg Wid = 5.5    Min Req = 2.8          F Brg Wid = 5.5    Min Req = 2.8          Bearings K &amp; F are a rigid surface          Members not listed have forces less than 375#  <b>Maximum Top Chord Forces Per Ply (lbs)</b></p> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>2941 - 5236</td> <td>D - E</td> <td>2204 - 3658</td> </tr> <tr> <td>C - D</td> <td>2204 - 3658</td> <td>E - F</td> <td>2643 - 5236</td> </tr> </tbody> </table> <p><b>Maximum Bot Chord Forces Per Ply (lbs)</b></p> <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - J</td> <td>4350 - 2567</td> <td>- H</td> <td>4845 - 2515</td> </tr> <tr> <td>J - I</td> <td>4345 - 2567</td> <td>H - F</td> <td>4850 - 2514</td> </tr> </tbody> </table> <p><b>Maximum Web Forces Per Ply (lbs)</b></p> <table border="1"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>C - I</td> <td>364 - 1683</td> <td>I - E</td> <td>955 - 1683</td> </tr> <tr> <td>D - I</td> <td>1405 - 662</td> <td></td> <td></td> </tr> </tbody> </table>	Loc	R+	/R-	/Rh	/Rw	/U	/RL	K	2388	-	-	1985	1859	1267	F	2388	-	-	1985	1859	-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	2941 - 5236	D - E	2204 - 3658	C - D	2204 - 3658	E - F	2643 - 5236	Chords	Tens.Comp.	Chords	Tens. Comp.	B - J	4350 - 2567	- H	4845 - 2515	J - I	4345 - 2567	H - F	4850 - 2514	Webs	Tens.Comp.	Webs	Tens. Comp.	C - I	364 - 1683	I - E	955 - 1683	D - I	1405 - 662		
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**Lumber**  
 Top chord: 2x6 SP #1; T2,T3 2x6 SP #2;  
 Bot chord: 2x6 SP #1;  
 Webs: 2x4 SP #3;

**Bracing**  
 (a) Continuous lateral restraint, equally spaced on member.

**Loading**  
 Truss designed for unbalanced load using 0.00/1.00 windward/leeward factors

**Furlins**  
 In lieu of structural panels use furlins to brace TC @ 24" oc.

**Wind**  
 Wind loads based on MWFRS with additional C&C member design.  
 Wind loading based on gable roof types.



Engineering Services provided  
 by ABCD Engineering P.LLC  
 NCCOA # P-0898  
 02/21/2022

**WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING.  
**IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCS1 (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS1. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid soffit. Locations shown for permanent lateral restraint of truss shall have bracing installed per BCS1 sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information.  
 Alpine, a division of TPI/ Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page indicating this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.  
 For more information see these web sites: Alpine: alpinehw.com; TPI: tpiinc.org; SBCA: sbccomponents.com; ICC: iccsale.org; AWC: awc.org

