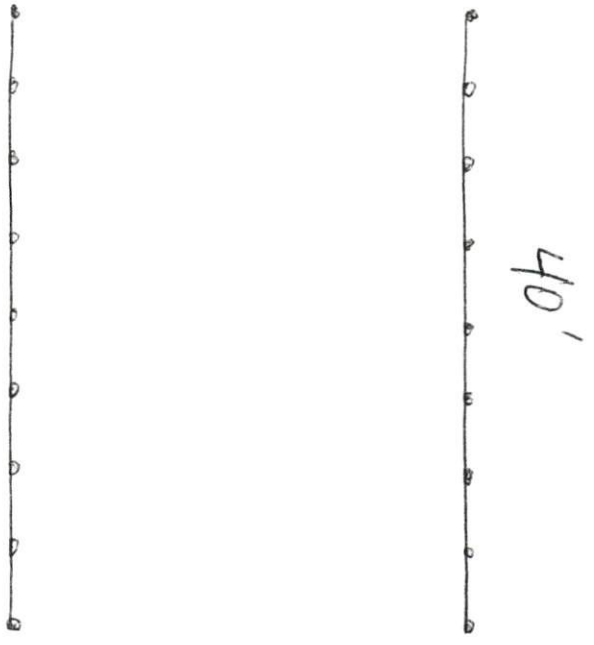
OVERHILLS SCHOOL
30 X 40 X 10'H OPEN SHELTER

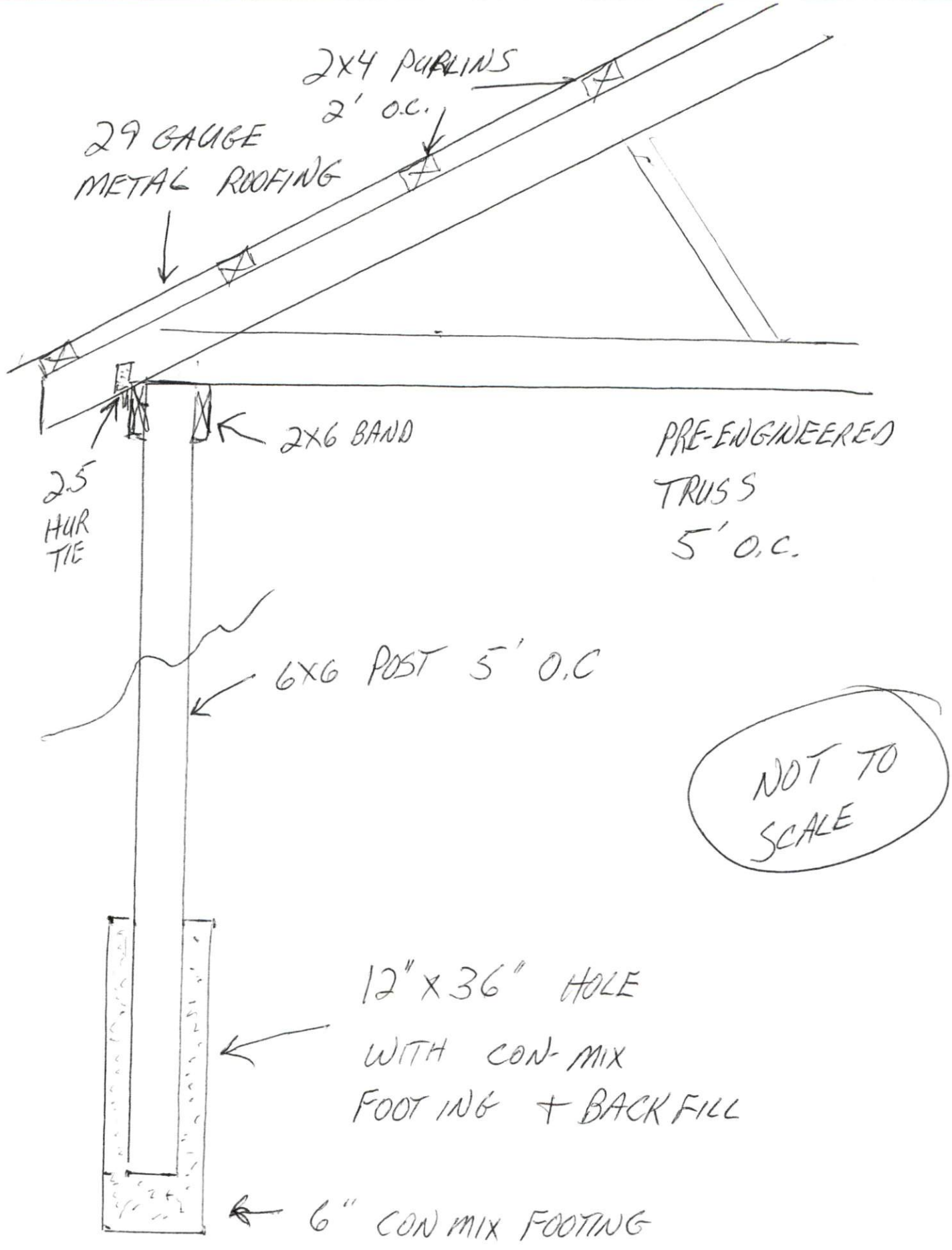
6X6 POST 5' O.C

TRUSS 5' O.C

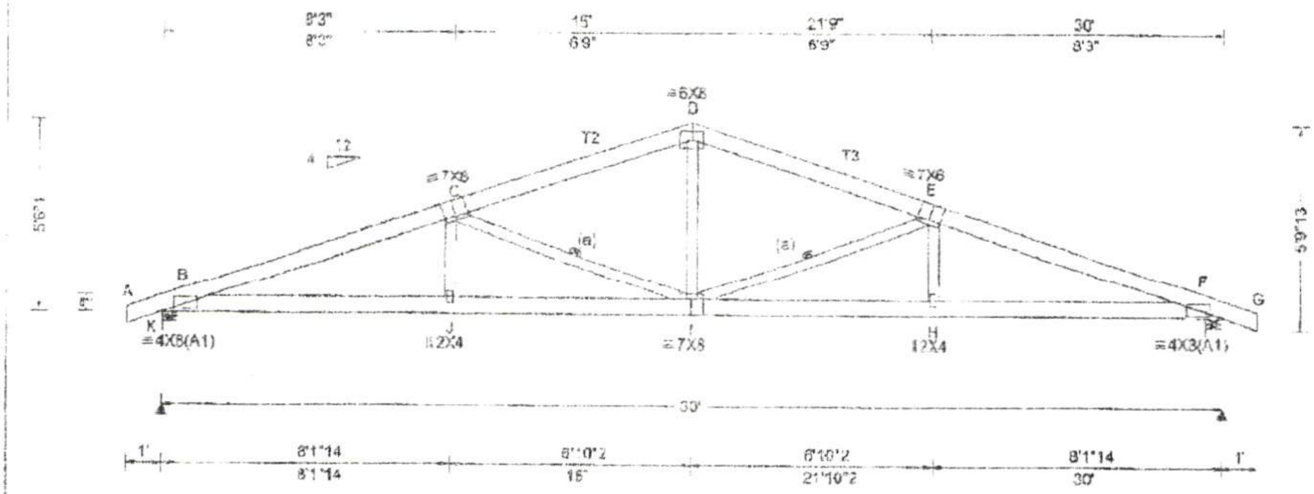
2X4 PURLINS ON TOP 2' O.C

29 GA PAINTED METAL TOP & GABLE ENDS




2X4 PURLINS
2' O.C.
29 GAUGE
METAL ROOFING
2X6 BAND
PRE-ENGINEERED
TRUSS
5' O.C.
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: 10789	COMN	Ply: 1	Job Number: 0524	Cust: R9612 JRef: 1Xc995120002 T1
FROM:		Qty: 9	OverHills	DrwNo: 052.22.0948.53383
			Truss Label: A1	/ FK 02/21/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 5.00	Speed: 120 mph	Pf: NA Ce: NA	VERT(LL): 0.268 I 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.400 I 891 240
BCDL: 5.00	Risk Category: I	Snow Duration: NA	HORZ(LL): 0.086 F - -
Des Ld: 30.00	EXP: C Kzt: NA		HORZ(TL): 0.128 F - -
NCBCLL: 0.00	Mean Height: 15.00 ft	Building Code:	Creep Factor: 2.0
Soffit: 2.00	TCDL: 3.0 psf	IBC 2018	Max TC CSI: 0.767
Load Duration: 1.25	BCDL: 1.0 psf	TPI Std: 2014	Max BC CSI: 0.791
Spacing: 60.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: No	Max Web CSI: 0.535
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	
	GCpi: 0.18	WAVE	VIEW Ver: 20.02.01C.0113.09
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	2386	/-	/-	/985	/859	/267
F	2386	/-	/-	/985	/859	/-

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 & F are a rigid surface
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	2841	-5236	D - E	2204	-3698
C - D	2204	-3698	E - F	2843	-5236

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	4850	-2567	I - H	4845	-2515
J - I	4845	-2567	H - F	4850	-2514

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - I	964	-1683	I - E	965	-1683
D - I	1405	-682			

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

Purlins

In lieu of structural panels use purlins 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 PLLC
NC COA # P-0898
02/21/2022

ALPINE
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045