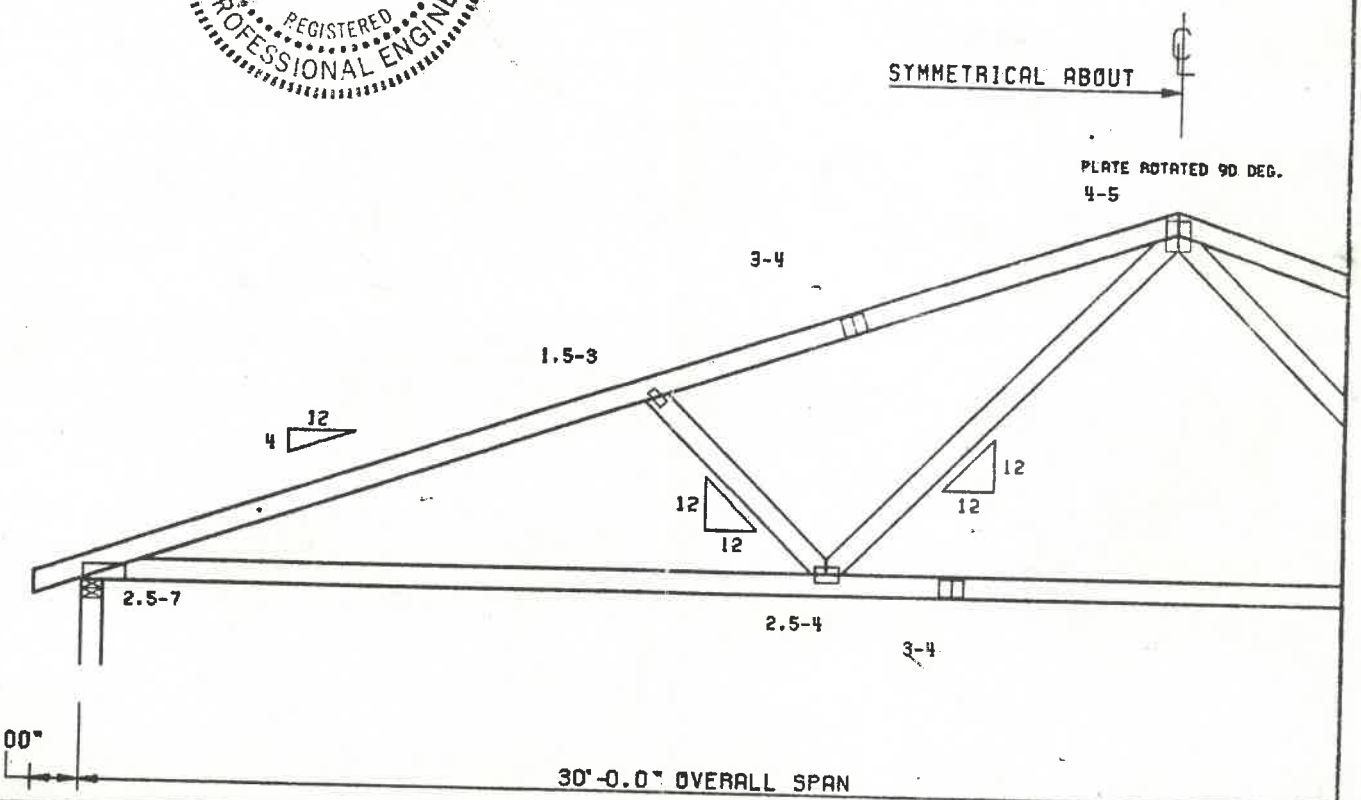
LEE WEIRAUCH
930 W. MAIN
592-8591

LUMBER SPECIFICATIONS

TOP CHORD 2X4 #1 KD15 S.PINE
BOT CHORD 2X4 #2 DENSE DRY/KD19 S.PINE
WEBS 2X4 #3/STUD KD15 S.PINE

LOCATE INTER-PANEL SPLICES AT 1/4 PANEL LENGTH +/- 12 INCHES FROM EITHER END OF THE PANEL INDICATED.

STATE OF OHIO
TIMOTHY L. LaCHAPELLE
E45260
REGISTERED PROFESSIONAL ENGINEER



TRUSWAL CONNECTOR PLATES ARE FORMED FROM 16, 18, AND 20 GAGE GALVANIZED (ASTM A 446) STEEL. PLATES SHALL BE APPLIED TO BOTH FACES OF THE TRUSS AT EACH JOINT. WHERE DIMENSIONS ARE NOT SHOWN, PLATES SHALL BE PLACED SYMMETRICALLY ABOUT THE JOINT OR AS INDICATED BY CIRCLES (0). CUTTING AND FABRICATION SHALL BE ACCOMPLISHED USING EQUIPMENT WHICH WILL PRODUCE SNUG FITTING JOINTS AND FULLY EMBEDDED PLATES. REFER TO "QUALITY CONTROL MANUAL" BY THE TRUSS PLATE INSTITUTE (TPI), 100 W. CHURCH ST. FREDERICK, MD. 21701. ONLY LATERAL BRACING REQUIRED OF INDIVIDUAL TRUSS MEMBERS IS NOTED ON THIS DRAWING. TRUSWAL SYSTEMS BEARS NO RESPONSIBILITY FOR THE ERECTION OF TRUSSES. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING TEMPORARY ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND "DOMINOING". REFER TO "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS" (TPI). THIS DESIGN ASSUMES THAT THE TOP CHORD IS CONTINUOUSLY BRACED BY THE ROOF SHEATHING. WHERE NO RIGID CEILING IS APPLIED DIRECTLY TO THE BOTTOM CHORD IT SHALL BE BRACED AT INTERVALS NOT EXCEEDING 10'-0". IT IS THE RESPONSIBILITY OF OTHERS TO ASCERTAIN THAT THE DESIGN LOADS UTILIZED ON THIS DRAWING MEET OR EXCEED THE ACTUAL DEAD LOADS IMPOSED BY THE STRUCTURE AND THE LIVE LOADS IMPOSED BY THE LOCAL BUILDING CODE OR HISTORICAL CLIMATIC RECORDS. CAMBER, WHICH IS NOT A STRUCTURAL REQUIREMENT OF THE TRUSS, MAY BE REQUIRED TO MAINTAIN UNIFORM CEILING HEIGHT AND PROPER APPEARANCE. CAMBER, WHEN NECESSARY, IS BEST DETERMINED BY JUDICIOUS APPLICATION OF EXPERIENCE AND THEREFORE IS OUTSIDE THE SCOPE OF RESPONSIBILITY OF TRUSWAL SYSTEMS.

LIVE LOAD....	30.0 P.S.F.
DEAD LOAD....	7.0 P.S.F.
CEILING D.L..	10.0 P.S.F.
TOTAL	47.0 P.S.F.

15% DURATION FACTOR

TRUSWAL SYSTEMS
32501 DEQUINDRE
MADISON HEIGHTS
MICHIGAN 48071

SPAN	CODE	SPACING	DATE
30'-0.0"	TPI	24" O.C.	8/22/83

AN OPTIMAX® DESIGN

M50806

MIKE MACIO

ACCOUNT : MIKE MAGID
SUPPORTING CALCULATIONS FOR DRAWING # M50806
JOB NAME: D234B001 1
SPAN: 30 FT 0 IN 0/16TH
4/ 3 TRIANGULAR TRUSS

TRUSWAL SYSTEMS CORPORATION
8/22/83

LOADING: 30+ 7+ 10 = 47 PSF AT 15.0% SPACING: 24" O.C. 1 PLY
BEARING SIZES: LEFT 4.0", RIGHT 4.0" OVERHANG: LEFT 0'-8.0", RIGHT 0'-8.0
HEELS: LEFT 3-15/16" RIGHT 3-15/16" CANTS: LEFT 0'-0.0", RIGHT 0'-0.0"

UNIFORM LOADS
74 PLF FROM 1 TO 5 TC
20 PLF FROM 1 TO 5 BC

MEMBER FORCES FROM LEFT TO RIGHT:

TOP CHORD	BOTTOM CHORD	WEBS		REACTIONS
T 1= -3155	B 1= 2993	W 1= -565	W 3= 844	REACTION @ 1= 1376
T 2= -2747	B 2= 2019	W 2= 844	W 4= -565	REACTION @ 5= 1376
T 3= -2747	B 3= 2993			
T 4= -3155				

TOP AND BOTTOM CHORD LUMBER ANALYSIS (TPI-78)

TOP CHORD: #1 KD15 S.PINE 1800000 E

PAN	SIZE	SLOPE	L-ACT	L-AVE	QFACT	FA(PSI)	FB(PSI)	AXIAL	BENDING	CSI
1	2X 4	4.00	7.90	7.32	0.75M	1209	2100	0.432	0.543	0.976
2	2X 4	4.00	7.08	7.08	0.90P	1450	2100	0.314	0.610	0.924
3	2X 4	-4.00	7.08	7.08	0.90P	1450	2100	0.314	0.610	0.924
4	2X 4	-4.00	7.90	7.32	0.75M	1209	2100	0.432	0.543	0.976

BOT CHORD: #2 DENSE DRY/KD19 S.PINE 1600000 E

PAN	SIZE	SLOPE	L-ACT	L-AVE	QFACT	FA(PSI)	FB(PSI)	AXIAL	BENDING	CSI
1	2X 4	0.00	10.26	9.68	1.00P	975	1900	0.508	0.420	0.929
2	2X 4	0.00	9.44	9.68	1.00P	975	1900	0.343	0.420	0.764
3	2X 4	0.00	10.26	9.68	1.00P	975	1900	0.508	0.420	0.929

EBS ANALYSIS: ALL WEBS 2 X 4 #3/STUD KD15 S.PINE
WEBS START AT: TOP

OTES:
ALLOWABLE MAXIMUM LIVE LOAD DEFLECTION (L/240) = 1.500 IN.
ACTUAL MAXIMUM LIVE LOAD DEFLECTION = 0.224 IN. OCCURS AT PANEL POINT 7.

LEE WEIRAUCH
930 W MIAMI
592-8591

PROJECT RECORD FORM

ADDRESS _____ NAME _____

DATE	REMARKS
25 Nov 85	Leland L Weirauch 592-8591 930 Main Street West Napoleon Ohio 43545
	The following is a list of code violations which must be corrected before work is permitted to continue on the structure.
	CABO R-602.2 ALLOWABLE SPANS TABLE R-602.2.1 ALLOWABLE SPAN FOR GIRDERS
	Allowable span for the center 4x12 wood girder with 30 lb live load is 16'-6" 40' 16.5' = 2.4 or 3 spans
	Allowable span for the south 4x12 wood girder with 30 lb live load is 13'-½" 40' 13.05' = 3.07 or 3 spans
	TABLE R-602.2.2 REQUIRED SIZE OF COLUMNS 3" Steel Pipe or 4"x4" Wood Column 2'x2'x8" Concrete Footing Required
	Feel free to contact me at the City of Napoleon Building Department. Phone 592-4010
	Paul E Buehrer 25 Nov 85 Paul Buehrer

10-72

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10-72

RICK RIEBESEL

942 HALEY 592-1226

LEE WEIRAUCH

930 W MAIN

22 OCT 85
4:02 PM

30' X 40'

8" X 16" footer

30 in deep

DIGGING FOOTER TUE 22 OCT 85

HE SAYS LELAND WEIRAUCH HAS MET SETBACKS