

PLATE DESIGNATION	Type	Size
1.1	2x4	2 1/4
1.2	2x4	4 1/2
1.3	2x4	6 3/4
1.4	2x4	9
2.1	2x6	2 1/4
2.2	2x6	4 1/2
2.3	2x6	6 3/4
2.4	2x6	9
2.5	2x6	11 1/4
3.1	2x8	2 1/4
3.2	2x8	4 1/2
3.3	2x8	6 3/4
3.4	2x8	9
3.5	2x8	11 1/4
3.6	2x8	13 1/2
3.7	2x8	15 3/4

SIZE	LUMBER	MAXIMUM SPAN	
		TOP CHORD	BOTTOM CHORD
2x4	#1 KD. SP.	30'-7"	44'-9"
2x4	#2 KD. SP.	23'-9"	31'-9"
2x4	#2 MG. KD. SP.	26'-5"	37'-9"
2x6	#1 DENSE KD. SP.	50'-10"	83'-0"
2x6	#1 KD. SP.	46'-2"	70'-5"
2x6	#2 KD. SP.	36'-11"	48'-4"
2x6	#2 MG. KD. SP.	41'-3"	59'-6"
2x8	#1 DENSE KD. SP.	67'-0"	109'-7"
2x8	#1 KD. SP.	60'-11"	92'-9"
2x8	#2 KD. SP.	48'-9"	63'-8"
2x8	#2 MG. KD. SP.	54'-5"	78'-3"

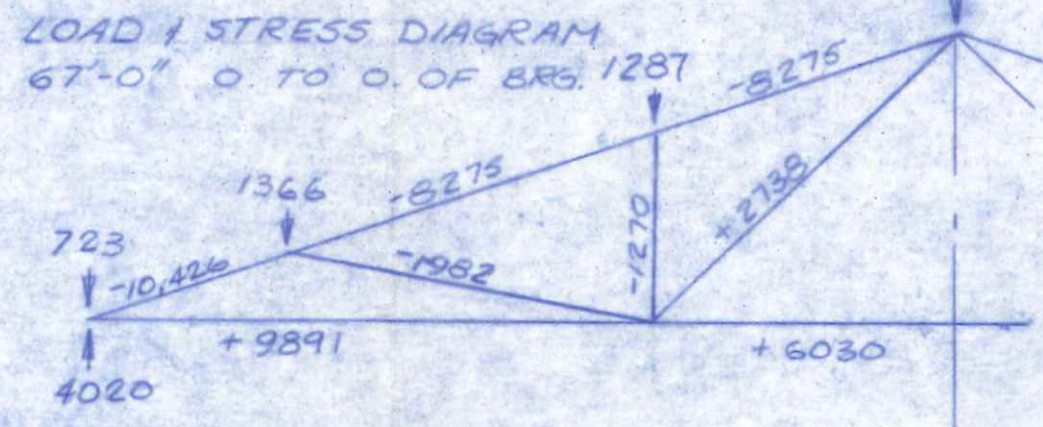
VEES ARE 2x4 #3 SPP. DEV. OR BETTER (UNLESS NOTED OTHERWISE)

PLATES

JOINTS	Jt. 1	Jt. 2	Jt. 3	Jt. 4	Jt. 5	Jt. 6	Jt. 7
S	20'-0"	2-4	1-1	1-1	3-3	3-4	2-3
P	22'-0"	2-5	1-1	1-1	3-3	3-4	2-3
A	24'-0"	2-5	1-1	1-1	3-3	3-4	2-3
N	26'-0"	2-5	1-1	1-1	3-3	3-4	2-3
S	28'-0"	2-5	1-1	1-1	3-3	3-4	2-3
	30'-0"	2-5	1-1	1-1	3-3	3-4	2-3
	32'-0"	3-5	1-2	1-1	3-4	1-2	3-4
	34'-0"	3-5	1-2	1-1	3-4	1-2	3-4
	36'-0"	3-5	1-2	1-1	3-4	1-2	3-5
	38'-0"	3-5	1-2	1-1	3-4	1-2	3-5
	40'-0"	3-6	1-2	1-1	3-4	1-2	3-5
	42'-0"	3-6	1-2	1-1	3-4	1-2	3-5
	44'-0"	3-6	1-2	1-1	3-4	1-2	3-5
	46'-0"	3-7	1-2	1-1	3-4	1-2	3-5
	48'-0"	3-7	1-2	1-1	3-4	1-2	3-5
	50'-0"	3-7	1-2	1-1	3-4	1-2	3-5
	52'-0"	3-7	1-2	1-2	3-5	1-3	3-5
	54'-0"	3-8	1-2	1-2	3-5	1-3	3-5
	56'-0"	3-8	1-2	1-2	3-5	1-3	3-5
	58'-0"	3-8	1-2	1-2	3-5	1-3	3-6
	60'-0"	3-8	1-2	1-2	3-5	1-3	3-6
	62'-0"	3-5	2-4	1-2	1-2	3-5	1-3
	64'-0"	3-5	2-4	1-2	1-2	3-5	1-3
	66'-0"	3-5	2-4	1-2	1-2	3-5	1-3
	67'-0"	3-5	2-4	1-2	1-2	3-5	1-3

4 1/2 POLE BARN FAN WEB

4 @ O.C.



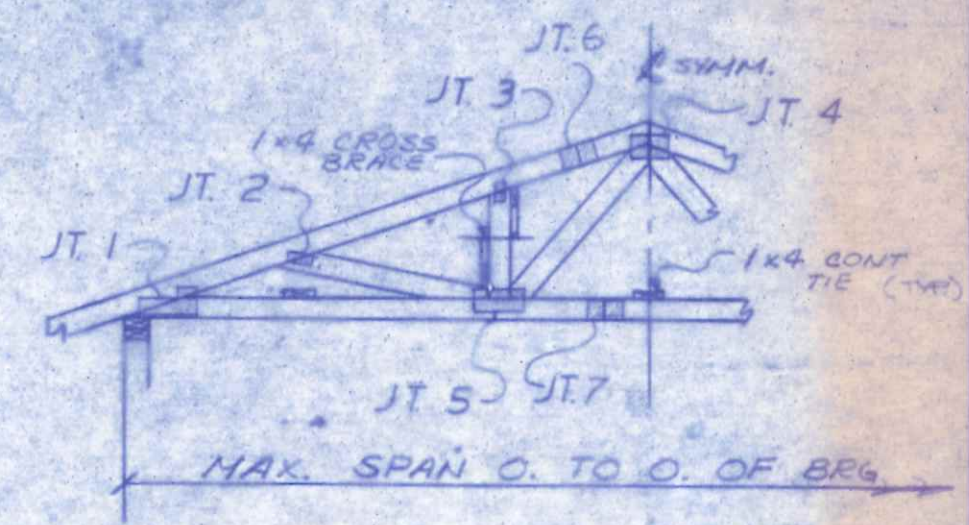
2x4 TRUSS

2x6 TRUSS

2x8 TRUSS

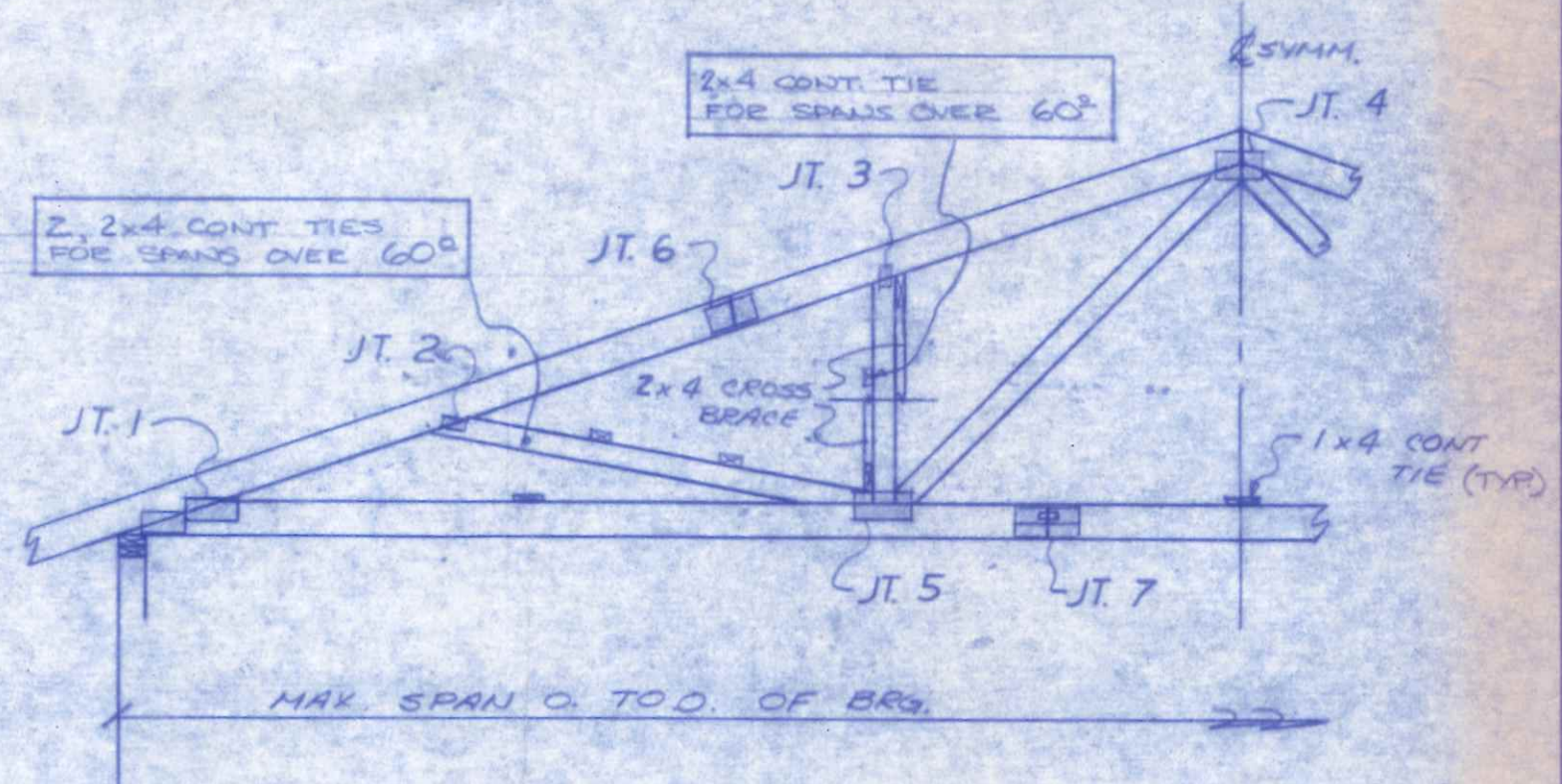
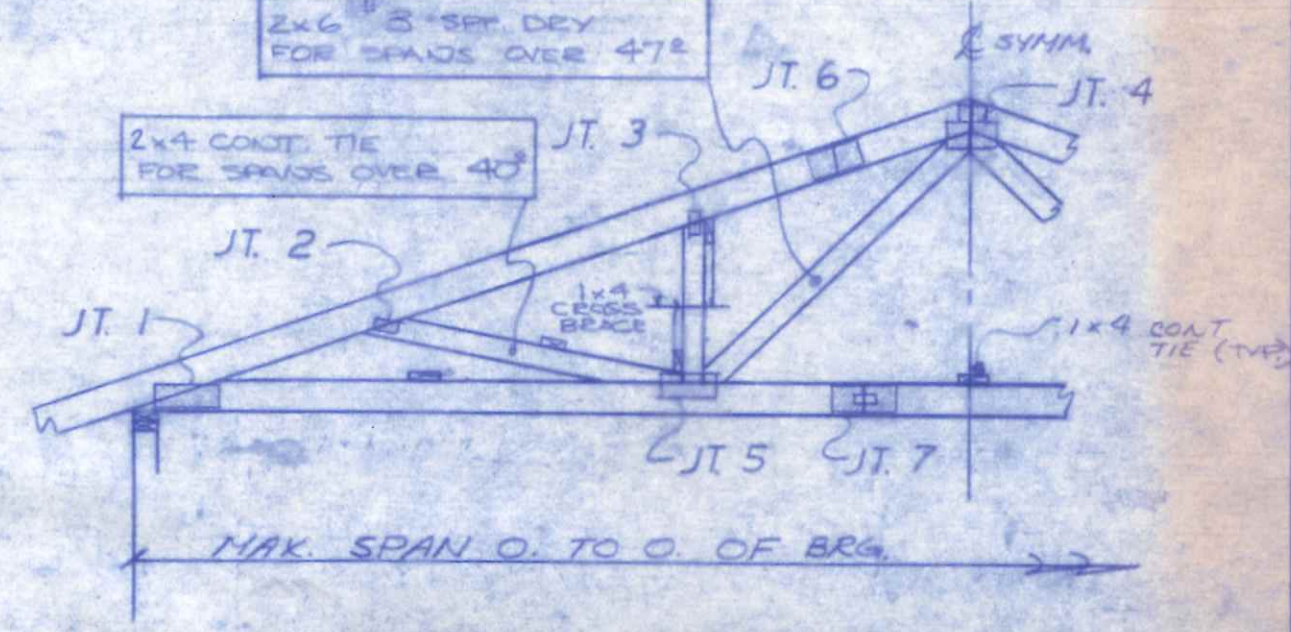
TOP CHORD LIVE LOAD	25 PSF	5% OF ALLOWABLE STRESS INCREASE USED IN THIS DESIGN.
TOP CHORD DEAD LOAD	5	
BOTTOM CHORD DEAD LOAD	5	
TOTAL LOAD	30 PSF	

48" O.C. SPACING



2x4 CONT. TIE FOR SPANS OVER 40'

2x6 #3 SPP DEV. FOR SPANS OVER 47'



RECEIVED

APR 12 1976

CITY OF NAPOLEON ENGINEERING DEPT.

BY: *[Signature]*

639 Leonard

POSITION TRUSS PLATES SYMMETRICAL ABOUT JOINT EXCEPT WHERE DIMENSIONED OTHERWISE.

FIELD INSTRUCTION

USE CARE AND CAUTION DURING FIELD HANDLING TO PREVENT UNDESIRABLE STRESS & STRAIN DURING ERECTION. PROVIDE ADEQUATE LATERAL BRACING DURING ERECTION TO PREVENT DAMAGING.

ALL DESIGN IS IN ACCORDANCE WITH LATEST REVISIONS OF NATIONAL DESIGN SPECIFICATIONS FOR STRESS-GRADE LUMBER AND ITS FASTENINGS AND TPI

LOADS AND WORKING STRESSES

When trusses are designed for a total load	Then allowable value of each member	And the allowable lumber working stress shall be
2.5 S. Basic load plus short time live loads	66.3 + 144 Pounds per sq. ft.	Basic stress as defined by grading rules for species
3.0 S. Total load	51 + 108 Pounds per sq. ft.	Basic stress = 135
2.5 S. Total load such as wind	59 + 102 Pounds per sq. ft.	Basic stress = 131.25

Troy Truss 20 ga. Connector Plates Approved by F.H.A. & BOCA



CHARTER MEMBER

NOT TO SCALE

4 IN 12 PITCH TRUSS FAN WEB POLE BARN

DESIGNED BY: *[Signature]* 4/12/75

DRAWN BY: *[Signature]* CHECKED BY: *[Signature]*

DATE: 5-27-75

REVISIONS BY:

TROY TRUSS PLATE

MANUFACTURED BY

TROY STEEL CORPORATION

1284 ROCHESTER ROAD

TROY, MICHIGAN 48064

313-588-8020

TRUSSES FABRICATED BY

[Signature]

4 1/2 POLE BARN FAN WEB 4 @ o.c.

SCALE: _____ APPROVED BY: _____ DRAWN BY: _____

DATE: _____ REVISED: _____

ENGINEER DEVS NO. 04131 DRAWING NUMBER

SHEET (3) OF (4)