

PERMIT
CITY OF NAPOLEON - BUILDING DEPARTMENT

255 West Riverview Avenue, Napoleon, Ohio 43545 - 419-592-4010

Permit No. 01945 Issued 4-2-90
date

Job Location 935 Harmony Gary Wris
address

Lot 24 Brickyard Subdivision
sub-div or legal discript

Issued By Eldon Huber
building official

Owner Four Seasons Homes 599-0836
name tel.

Address PO Box 413

Agent Four Seasons Homes 599-0836
builder-eng.-etc. tel.

Address PO Box 413

Description of Use Residence

Residential 1
no. dwelling units

Commercial _____ Industrial _____

New Add'n. _____ Alter _____ Remodel _____

Mixed Occupancy _____

Change of Occupancy _____

Estimated Cost \$ 65,000.00

ZONING INFORMATION

district A	lot dimensions 72 X 100	area 7200	front yd 30'	side yds L-8' R-17'	rear yd 29
max hgt 35'	no pkg spaces 2-min	no ldg spaces	max cover 35%	petition or appeal req'd None required	date appr

WORK INFORMATION:

Size: Length 40'9" Width 51'5" Stories 1 Garage Fl. Area 400
 Ground Floor Area 1225

Height _____ Building Volume (for demo. permit) _____
cu. ft.

Electrical: 150 AMP U.C. Service and 16 new circuits
brief description

Plumbing: New 2-bath, kitchen and laundry
brief description

Mechanical: 100,000 Natural gas fired furnace
brief description

Sign: _____ Dimensions _____ Sign Area _____

Additional Information: New construction

Date _____ Applicant Signature Daniel Brubaker
owner-agent

White-Building Department Yellow-Applicant Pink-Electrical Inspector Green-Clerk-Treasurer Gold-County Auditor

	FEE	BASE	PLUS	TOTAL
<input checked="" type="checkbox"/> BUILDING Underground		9.00	158.00	167.00
<input checked="" type="checkbox"/> ELECTRICAL		15.00	48.00	63.00
<input checked="" type="checkbox"/> PLUMBING		9.00	27.00	36.00
<input checked="" type="checkbox"/> MECHANICAL		18.00	2.00	20.00
<input checked="" type="checkbox"/> DEMOLITION				
<input type="checkbox"/> ZONING		5.00		5.00
<input checked="" type="checkbox"/> SIGN				
<input type="checkbox"/> WATER TAP		375.00		375.00
SEW. INSP.				
SEWER TAP		60.00		60.00
TEMP. WATER		5.00		5.00
TEMP. ELECT.		10.00		10.00
ADDITIONAL PLAN REVIEW	20 Copies @ .25	Struct. _____ hrs	Elect. _____ hrs	5.00
TOTAL FEES.....				971.00
LESS MIN. FEES PAID _____				
BALANCE DUE.....				

PAID

APR 16 1990

CITY OF NAPOLEON

INSPECTION RECORD

	UNDERGROUND			ROUGH-IN						FINAL		
	Type	Date	By	Type	Date	By	Type	Date	By	Type	Date	By
PLUMBING	Building Drains			Drainage, Waste & Vent Piping	6/22	EH	Indirect Waste			Drainage, Waste & Vent Piping	7/20	BD
	Water Piping									Backflow Prevention		
	Building Sewer			Water Piping	6/22	EH	Condensate Lines			Water Heater	7/20	BD
	Sewer Connection									FINAL APPROVAL	7/20	BD
MECHANICAL	Refrigerant Piping			Refrigerant Piping			Chimney(s)			Grease Exhaust System		
				Duct Furnace(s)			Fire Dampers			Air Cond. Unit(s)		
	Ducts/Plenums			Ducts/Plenums			<input type="checkbox"/> Radiant Htr(s) <input type="checkbox"/> Unit Htr(s)			Refrigeration Equipment		
				Duct Insulation			Pool Heater			Furnace(s)	9/20	BD
				Combustion Products Vents			Ventilation <input type="checkbox"/> Supply <input type="checkbox"/> Exhst.			FINAL APPROVAL	7/20	BD
ELECTRICAL	Conduits & or Cable			Conduits/Cable			<input type="checkbox"/> Range <input type="checkbox"/> Dryer			Temp Service Temp Lighting		
	Grounding & or Bonding			Rough Wiring			<input type="checkbox"/> Generator(s) <input type="checkbox"/> Motors			Fixtures Lampholders		
	Floor Ducts Raceways			Service Panel Switchboard			<input type="checkbox"/> Water Htr <input type="checkbox"/> Welder			Signs		
	Service Conduit			Busways Ducts			<input type="checkbox"/> Heaters <input type="checkbox"/> Heat Cable			Electric Mtr. Clearance		
	Temporary Power Pole			Subpanels			<input type="checkbox"/> Duct Htr(s) <input type="checkbox"/> Furnace(s)			FINAL APPROVAL	2/20	BD
											7/20	BD
BUILDING	Location, Set-backs, Esmt(s)		EH	Exterior Wall Construction		EH	Roof Covering Roof Drainage	6/22	EH	Smoke Detector		
	Excavation		EH				Exterior Lath			Demolition (sewer cap)		
	Footings & Reinforcing						<input type="checkbox"/> Interior Lath <input type="checkbox"/> Wallboard					
	Floor Slab			Interior Wall Construction		EH	Fire Wall(s)			Building or Structure		
	Foundation Walls		EH	Columns & Supports			Fireplace Chimney					
	Sub-soil Drain			Crawl Space <input checked="" type="checkbox"/> Vent <input type="checkbox"/> Access		EH	Attic <input checked="" type="checkbox"/> Vent <input type="checkbox"/> Access	6/22	EH			
	Piles			Floor System(s)	*	EH				FINAL APPROVAL BLDG. DEPT.	7/20	BD
				Roof System			Special Insp Reports Rec'd			Certificate of Occupancy Issued	7/20	BD
FINAL	INSPECTIONS, CORRECTIONS, ETC.						INSPECTIONS, CORRECTIONS, ETC.					
	<p>PAID</p> <p>Special Inspection Socio Public Bldg Jo 1571 5/9 EH</p>											

RESIDENTIAL PLAN CORRECTION SHEET

CITY OF NAPOLEON
255 West Riverview Ave.
Napoleon, OHIO 43545
419/592-4010

ADDENDUM TO Permit No. 01945-(1)
Owner FOUR SEASONS HOMES
Contractor FOUR SEASONS HOMES
Location 975 HARBORWAY

Please note the items checked below and incorporate them into your plans as indicated: PERMIT ISSUED, CORRECT PLANS AND RE-SUBMIT. PERMIT NOT ISSUED, INCORPORATE ITEMS DURING CONSTRUCTION.

GENERAL			
<input type="checkbox"/>	Provide approved smoke detector(s) as req'd.		
<input checked="" type="checkbox"/>	Provide 1/2" gypsum wallboard between dwelling and garage, on garage side.		
<input checked="" type="checkbox"/>	Provide min. 1 3/8" solid wood door from garage to dwelling. (or equal)		
<input type="checkbox"/>	Submit fully dimensioned plot plan.		
<input type="checkbox"/>	Provide min. of 1-3'0" x 6'8" exit door.		
<input checked="" type="checkbox"/>	Provide min. 22" x 30" attic access opening.		
<input checked="" type="checkbox"/>	Provide min. 18" x 24" crawl space access opening.		
<input type="checkbox"/>	Provide approved sheathing or flashing behind masonry veneer.		
<input type="checkbox"/>	Provide min. 15# underlayment on roof.		
<input type="checkbox"/>	Provide adequate fireplace hearth.		
<input type="checkbox"/>	Install factory built fireplaces/stoves according to manufacturers instructions.		
<input type="checkbox"/>	Terminate chimney 2' above roof or 2' above highest point of building within 10' of chimney.		
LIGHT AND VENTILATION			
<input checked="" type="checkbox"/>	Provide mechanical exhaust or window in bathroom		
<input type="checkbox"/>	Provide min. <u>780</u> Sq. In. net free area attic ventilation.		
<input checked="" type="checkbox"/>	Provide min. <u>118</u> Sq. In. net free area crawl space ventilation. <u>W/ VAPOR BARR + 1-VENT 3" FR EA CORNER</u>		
FOUNDATION			
<input type="checkbox"/>	Min. depth of foundation below finished grade is 32".		
<input type="checkbox"/>	Min. size of footer _____ x _____.		
<input checked="" type="checkbox"/>	Provide anchor bolts 1/2" @ 6' o.c. 1' from each corner. Embedded 7" in concrete and 15" in masonry.		
<input type="checkbox"/>	Show size of basement columns.		
FRAMING			
<input type="checkbox"/>	Show size of wood girder in _____.		
<input type="checkbox"/>	Provide design data for structural member in _____.		
<input type="checkbox"/>	Floor joists undersized in _____.		
<input checked="" type="checkbox"/>	Provide double joists under parallel bearing partitions.		
<input checked="" type="checkbox"/>	Provide 1" x 4" let in corner bracing, approved sheathing, or equal.		
<input type="checkbox"/>	Show size of headers for openings over 4' wide _____.		
<input type="checkbox"/>	Show size of members supporting porch roof.		
<input type="checkbox"/>	Provide double top plate for all bearing partitions and exterior walls.		
<input type="checkbox"/>	Provide design data for prefab wood truss.		
<input type="checkbox"/>	Ceiling joists undersized in _____.		
<input type="checkbox"/>	Roof rafters undersized in _____.		
PLUMBING AND MECHANICAL			
<input checked="" type="checkbox"/>	Terminate all exhaust systems to outside air.		
<input checked="" type="checkbox"/>	Insulate ducts in unheated areas.		
<input checked="" type="checkbox"/>	Provide backflow prevention device on all hose bibs.		
<input checked="" type="checkbox"/>	Terminate pressure and temperature relief valve drain in an approved manner.		
<input type="checkbox"/>	Provide dishwasher drain with approved air gap device.		
METAL VENEERS			
<input type="checkbox"/>	Contact City Utilities Dept. to remove conductors and/or meter.		
<input type="checkbox"/>	Provide approved system of grounding and bonding.		
ELECTRICAL			
<input type="checkbox"/>	Show location of service entrance panel and service equipment panel.		
<input checked="" type="checkbox"/>	G. F. C. I. req'd. on temporary electric.		
<input checked="" type="checkbox"/>	Outdoor, bathroom and garage receptacles shall be protected by G. F. C. I. <u>+ KITCHEN</u>		
<input checked="" type="checkbox"/>	Maximum number of receptacles permitted on a G. F. C. I. circuit shall be 10 for 20 A. circuits and 7 for 15A. circuits.		
<input checked="" type="checkbox"/>	Refrigerators, microwaves, washers, disposal, furnace and air conditioners shall be on separate circuits.		
INSPECTIONS			
The following indicated inspections are required. The owner or his agent shall contact the City Building Dept. at least 24 hrs prior to the time the inspection is to be made.			
<input checked="" type="checkbox"/>	Foctors and Setbacks.	<input checked="" type="checkbox"/>	Building sewer.
<input checked="" type="checkbox"/>	Foundation.	<input checked="" type="checkbox"/>	HVAC rough-in.
<input checked="" type="checkbox"/>	Plumbing rough-in.	<input checked="" type="checkbox"/>	Final Building
<input checked="" type="checkbox"/>	Plumbing final.		other.
<input checked="" type="checkbox"/>	Electrical service.	<input checked="" type="checkbox"/>	<u>BUILDING FRAMING</u>
<input checked="" type="checkbox"/>	Electrical rough-in.		
<input checked="" type="checkbox"/>	Electrical final		

Additional Corrections. BEDROOM EXIT WINDOWS MIN. HT. 26.0 FT., 24", WD. 20"
AREA 57 SQ. FT. PROVIDE 2- 1/2" X 18" ANCHOR BOLTS PER CRAWL SPACE PIER TO ATTACH THE GIRDER

The approval of plans and specifications does not permit the violation of any section of the Building Code or other City Ordinance. This addendum is attached to Permit No. 01945 and made a part thereof. DATE APPROVED OR DISAPPROVED 4-2-90 Checked by ELDON HUBER Plan Examiner.

3

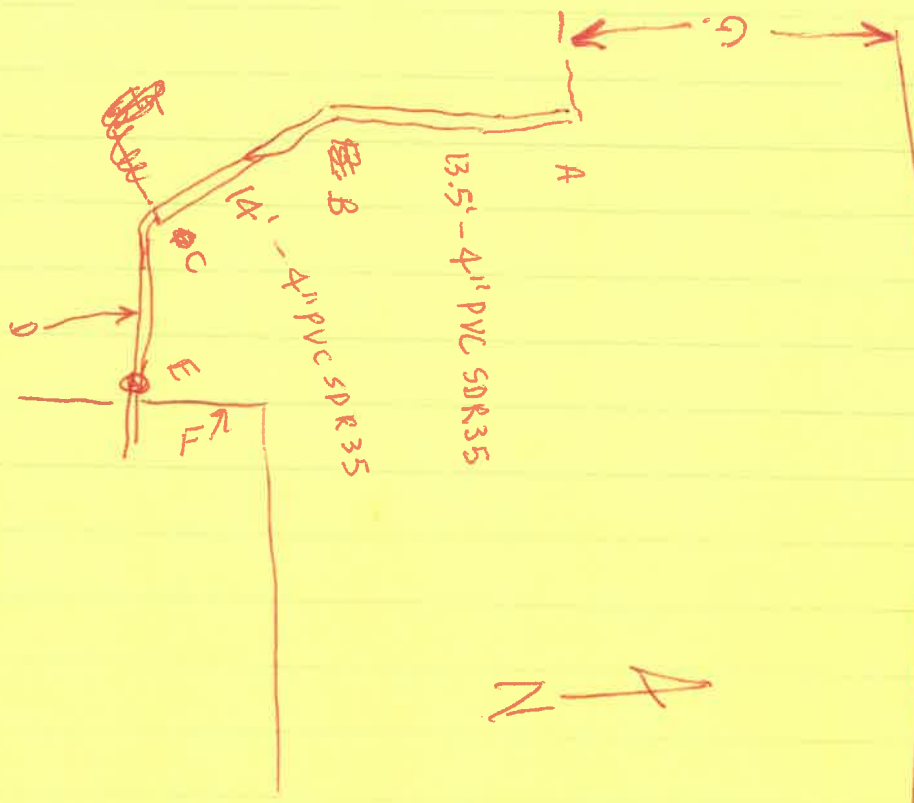
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935 Harmony Dr

← Harmony Drive →



by ROF & Sonny
19 April 90

A = 7' to the top of Sewer

B = 45° Elbow ~~3.3'~~ Cover

C = 45° Adaptor with slip joint

D = PVC Sch 40

E = 3.5' below top block wall to top of pipe

F = 450 PVC SDR 35

G = 45" From Wall to E Elbow

H = 4" Vertical Cleamout

I = 6' 2" From Corner of House to E Cleamout

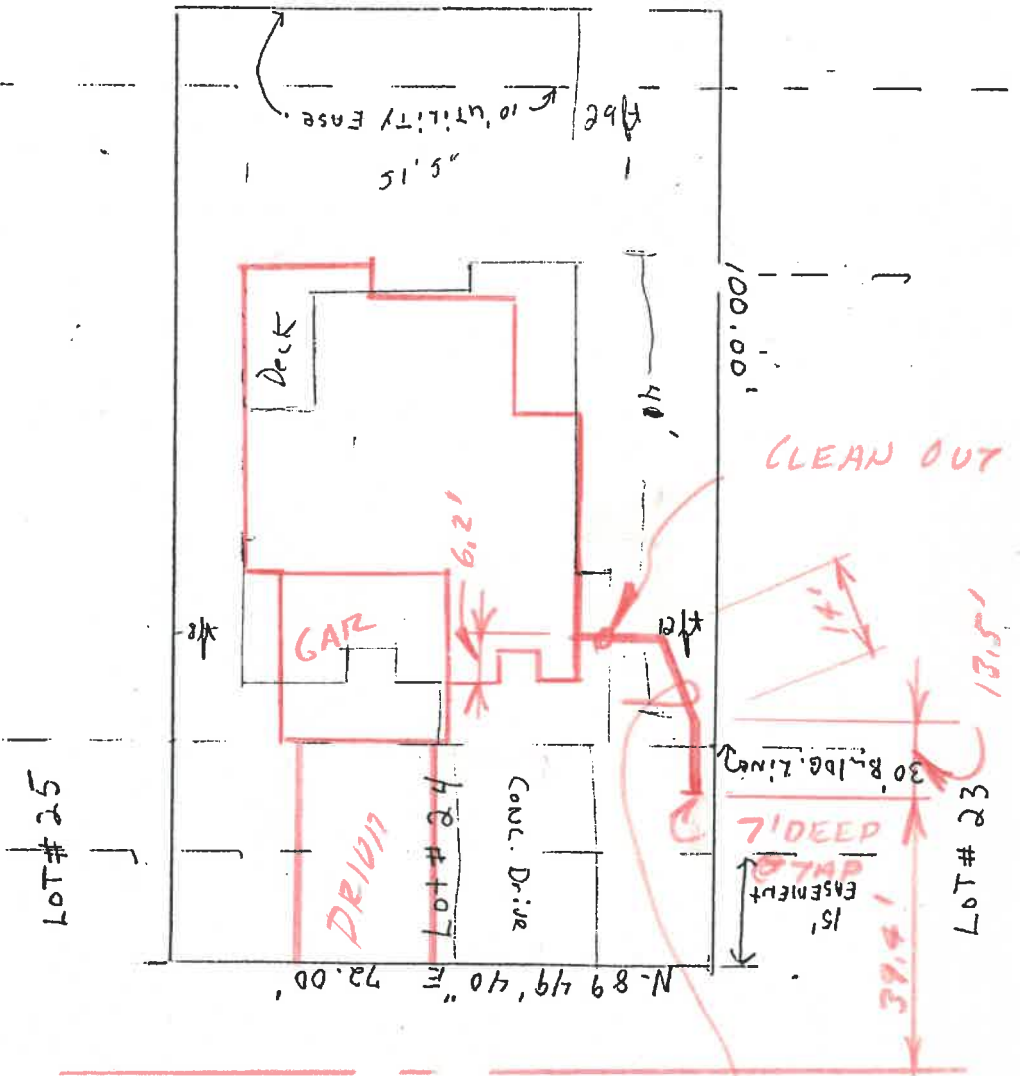
J = ~~39.4'~~ 39.4' From E of Street to ~~top~~

Where Contractor

Connected to Top made before at this point goes from 6" to 4" with a gasket toward

Street and a gasket joint toward the house

SITE PLAN FOR
 FOUR SEASON HOMES
 LOT #24 PHASE I BRICKYARD
 SUBDIVISION, CITY OF NAPOLEON, HENRY CO. OHIO



ALSO SEE SEWER TAP
 PLAN FOR 945 HARMONY
 FOR BALLANCE OF TAP

HARMONY Drive

5' SIDIR. 75'

N-89°49'40"E 72'

SEWER TAPPING PERMIT

Issued by

The City of Napoleon Engineering Dept.

255 West Riverview Ave. Napoleon, Ohio 43545 Pn. 592-4010

Entry No. _____

Permit No. S.A.-133 Issued 4-3-90 Build. Permit No. 01995

Permit Fee \$ 60.00

Job Location 935 Harmony Drive

Street Bond \$ _____

Lot 24 BRICKYARD
sub div. or legal disc.

Date Paid _____

Issued By _____

Owner Four Seasons Homes Pn. 595-0870

Address P.O. Box 413

Agent FOUR SEASONS HOMES Pn. 597-0871

Address P.O. BOX 413

for office use only
.....

WORK INFORMATION

Sanitary Sewer Tap Size of Tap 4" Size and Type of Sewer _____ Street to be Opened

Storm Sewer Tap Size of Tap 9" Size and Type of Sewer A.D.S. Street to be Opened

Street opening Agreement Approval Date _____ Opening Bond Fee (Set by Engineer) _____

READ AND SIGN BELOW; The undersigned hereby agrees complete the work described above and to make use of said sewers only as allowed by and in strict accordance with all applicable provisions of The Napoleon Engineering Dept. Rules and Regulations, The Napoleon Standard Specification for Water Main, Sanitary Sewer and Storm Sewer Construction and other Pertinent Sections of the Napoleon Code of Ordinances.

Date April 2, 1990 Signature of Applicant Daniel Burkaker
Permit not valid without signature

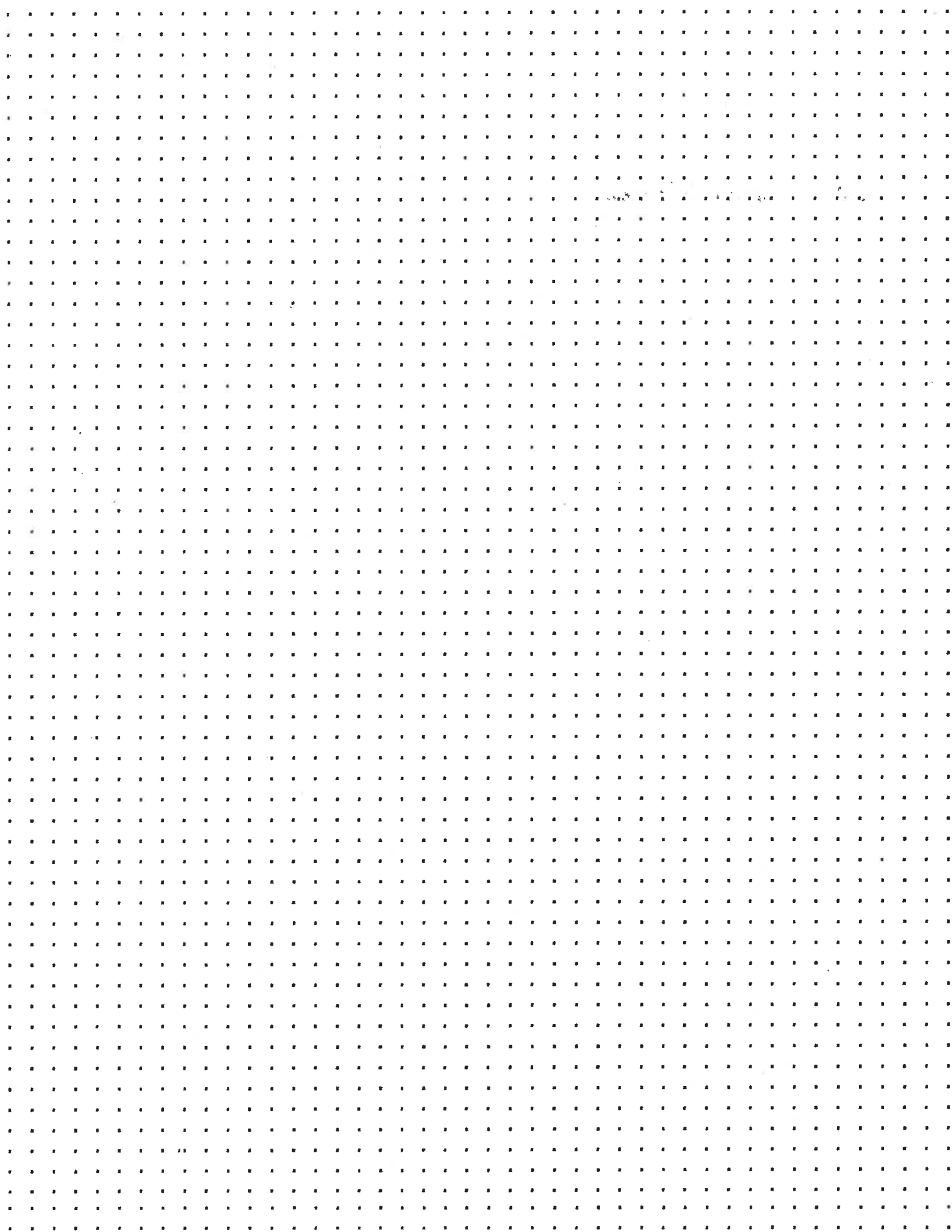
INSPECTION RECORD _____ to be completed by the Field Inspector

Date Inspection is made 4-19-90 Size and Type of Sewer 4" S.I.D.I.R. 35

Location SEE PLAN Depth SEE PLAN Type of Test LOAD Additional Information _____

Date 4-19-90 Inspected By SONNY HELDRICK + R.O.F.
signature of inspector

Sketch Of Installation on Back or Attached



No. ... 335

CERTIFICATE OF OCCUPANCY
THE CITY OF NAPOLEON

ENGINEERING DEPARTMENT
DIVISION OF INSPECTION

This is to certify that the Building or Land as herein described complies with all the building and health laws and ordinances and with the provisions of the Zoning Ordinance.

Location of Occupancy ... 935 Harmony Drive ... Occupancy ... *Lang & Family*

Owner of Property ... *Lang & Family* ... Address ... 935 Harmony Drive

Issued to ... *Same* ... Address ...

Zoning ... *R-Residential District* ... Bldg. Permit No. ... 1945

Substantial qualifications of occupancy ... *All final inspections complete and approved.*

This certificate is issued by the City Building Inspector, as provided by law, and is to certify that construction is completed substantially in conformity with the approved plans and permission is hereby granted to occupy such building in compliance with such legal use and occupancy as authorized under the provisions of the ordinances of the City of Napoleon.

Issued this *fourth* day of *October* 19*41*

This is a valuable record for owner or lessee and should be so preserved.
Signed *Sam J. P. Ramsey*
City Building Inspector

APPLICATION
for
RESIDENTIAL BUILDING, ELECTRICAL, PLUMBING, MECHANICAL, PERMITS and DEMOLITION PERMIT
from the

CITY OF NAPOLEON - BUILDING DEPARTMENT

255 West Riverview Ave. Napoleon, Ohio 43545 Pn. 419-592-4010

Entry No. _____

Permit No. 01945 Issued 4-2-92

Job Location 935 HARMONY

Lot 24 Brickyard Sub-Div

Issued By EH sub-div. or legal disc.
building official

Owner Four Seasons Homes Pn 599-0836

Address P.O. Box 413 Napoleon

Agent FOUR SEASONS HOMES Pn 599-0836

Address PO. BOX 413 NAPA

Description of Use Residential

Residential / no. dwelling units _____

Commercial _____ Industrial _____

New X Add'n. _____ Alter _____ Renodel _____

Mixed Occupancy _____

Change of Occupancy _____

Estimated Cost \$ 65,000

-ZONING INFORMATION

district	lot dimensions	area	front yd	side yds.	rear yd
<u>A</u>	<u>72 x 100</u>	<u>7200 S.F.</u>	<u>30'</u>	<u>L-8' R-17'</u>	<u>29'</u>
max hgt	no pkg spaces	no ldg spaces	max cover	petition or appeal req'd.	date appr
<u>35'</u>	<u>2-MW</u>		<u>35%</u>	<u>NOHD RES.</u>	

WORK INFORMATION:

BUILDING: Garage Fl. Area 400 Basement Fl. Area 0 Second Floor Area 0

Size: Length 40' 9" Width 51' 5" Stories 1 Ground Floor Area 1225

Height _____ Building Volume (for demo. permit) _____ cu. ft.

Description of Works: New Construction

Ck. Permits Reg.	Base	Fees Plus	Total
<input checked="" type="checkbox"/> Building	<u>9.00</u>	<u>158.00</u>	<u>167.00</u>
<input checked="" type="checkbox"/> Electrical	<u>15.00</u>	<u>48.00</u>	<u>63.00</u>
<input checked="" type="checkbox"/> Plumbing	<u>9.00</u>	<u>27.00</u>	<u>36.00</u>
<input checked="" type="checkbox"/> Mechanical	<u>18.00</u>	<u>2.00</u>	<u>20.00</u>
Demolition			
<input checked="" type="checkbox"/> Zoning	<u>5.00</u>		<u>5.00</u>
Sign			
<input checked="" type="checkbox"/> Water tap	<u>375.00</u>		<u>375.00</u>
<input checked="" type="checkbox"/> Sewer Tap	<u>60.00</u>		<u>60.00</u>
<input checked="" type="checkbox"/> Temp. Water	<u>5.00</u>		<u>5.00</u>
<input checked="" type="checkbox"/> Temp. Elec.	<u>10.00</u>		<u>10.00</u>
Additional struc. review	<u>20</u>	<u>CONVISE, 25</u>	<u>5.00</u>
Elect. review			
Total Fees.....			<u>971.00</u>
Less Min. Fees Pd.			
Balance Due.....			

Continue on Back Side for Electrical, Plumbing and Mechanical and other Information;

ELECTRICAL: Electrical Contractor Four Seasons Homes Pn. _____

Address P.O. Box 413 Estimated Cost \$ 3000-

Type of work: New Service change _____ Rewiring _____ Additional Wiring _____ Temp. Elec. Req. _____
yes no

Size of service 150 Amp Underground Overhead _____ No. of new circuits 16

Description of work: NEW 150 AMP D.C. SERV & 16 CIRCUITS

PLUMBING: Plumbing Contractor Four Seasons Homes Pn. _____

Address P.O. Box 413 Estimated Cost \$ _____

Water Tap Req. Size 1" Type of Pipe Plastic Water Dist. Pipe _____ type
yes no

San. Sewer Tap Req. Size _____ Type of Pipe _____ Dr. Waste Vt. Pipe _____ type
yes no

St. Sewer Tap Req. Size _____ Type of Pipe PVC Street to be Opened _____
yes no

Main Building Drain Size _____ Main Vent Pipe Size _____ List Number of Plumbing Fixtures Below

Water Closets 2 Bathtubs 2 Showers _____ Lavatories 2 Kitchen Sinks 1 Disposal 1 Dishwasher 1 Clothes Washer _____

Floor Drains 0 Other Fixtures: Type _____ No. _____

Description of Work: New 2 - BATH KITCHEN & LAUNDRY

MECHANICAL: Mechanical Contractor Damen Pn. _____

Address _____ Estimated Cost _____

Heating System: Forced Air Gravity _____ Hot Water _____ Steam _____ Unit Heaters _____ Radiant _____ Baseboard _____

Type of Fuel: Electric _____ Natural Gas Propane _____ Wood _____ Coal _____ Solar _____ Geothermal _____ Other _____

No. of Heat Zones _____ Hot Water: (One Pipe _____ Two Pipe _____ Series Loop _____) Electric Heat: (No of Circuits _____) No. of Furnaces 1

No. of Hot Air Runs 10 No. of Hot Water Radiators _____ Total Heat Loss _____ Rated Capacity of Furnace/Boiler 100,000
Btu

Location of Heating Units: Crawl Space _____ Floor Level _____ Attic _____ Suspended _____ Roof _____ Outside _____ Other GARAGE

Description of Work NEW 100,000 NAT. GAS FIRED FURNACE

DRAWINGS REQUIRED: All Applications must be Accompanied by Two Complete sets of Drawings Including SITE PLAN, FOUNDATION PLAN, FLOOR PLANS, STRUCTURAL FRAMING PLANS, EXTERIOR ELEVATIONS, SECTIONS and DETAILS, STAIR DETAILS, ELECTRICAL LAYOUT, PLUMBING ISOMETRIC, HEATING LAYOUT ETC. All plans shall be DRAWN TO SCALE. Show all existing structures on the site plan also, show Electric Panel and Furnace Locations.

READ AND SIGN BELOW; The undersigned hereby makes application for a permit for all work described herein, and agrees to complete the work in strict accordance with all applicable provisions of the current edition of the C.A.B.D. Building Code, the Napoleon Building and Zoning Codes, the Napoleon Engineering Dept. Rules and Regulations, Standard Specifications and other Pertinent Sections of the Napoleon Code of Ordinances.

Date _____ Signature of Applicant Greg Hamme
Application not valid without signature

N-89°49'40"E 72

Harmony Drive

SITE PLAN FOR
FOUR SEASON HOMES
LOT #24 PHASE I BRICKYARD
SUBDIVISION, CITY OF NAPOLEON, HENRY CO. OHIO

LOT # 23

15' EASEMENT

N-89°49'40"E 72.00'

30' BULD. LINE

CONC. DRIVE

LOT # 24

LOT # 25

12'

12'

100'00'

40'

Deck

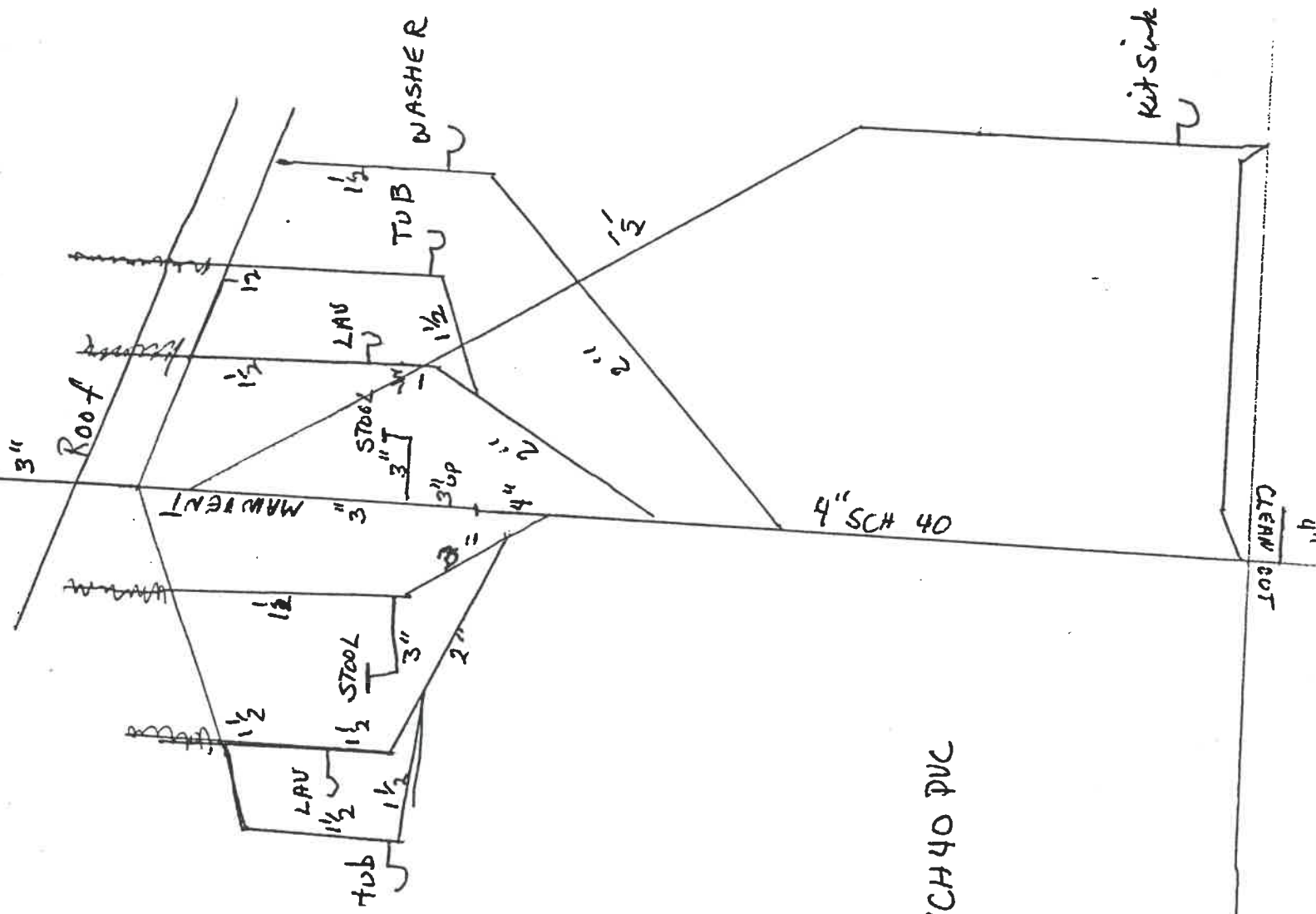
5.15

Abc

10' UTILITY EASE.

LOT # 13





ALL PIPE SCH 40 PVC

NAPOLÉON BUILDING, DEPARTMENT (SAMPLE DRAWING)

VENTS - 10 FT upon center

ROOFING - ASPHALT

UNDERLAYMENT - 20# FELT

SHEATHING - PARTICLE BOARD - 7/16"

TRUSSES
24 O.C.

2X RAFTERS @ 16" O.C.

2X CEILING JOISTS @ 16" O.C.

~~fiberglass~~ CEILING INSULATION

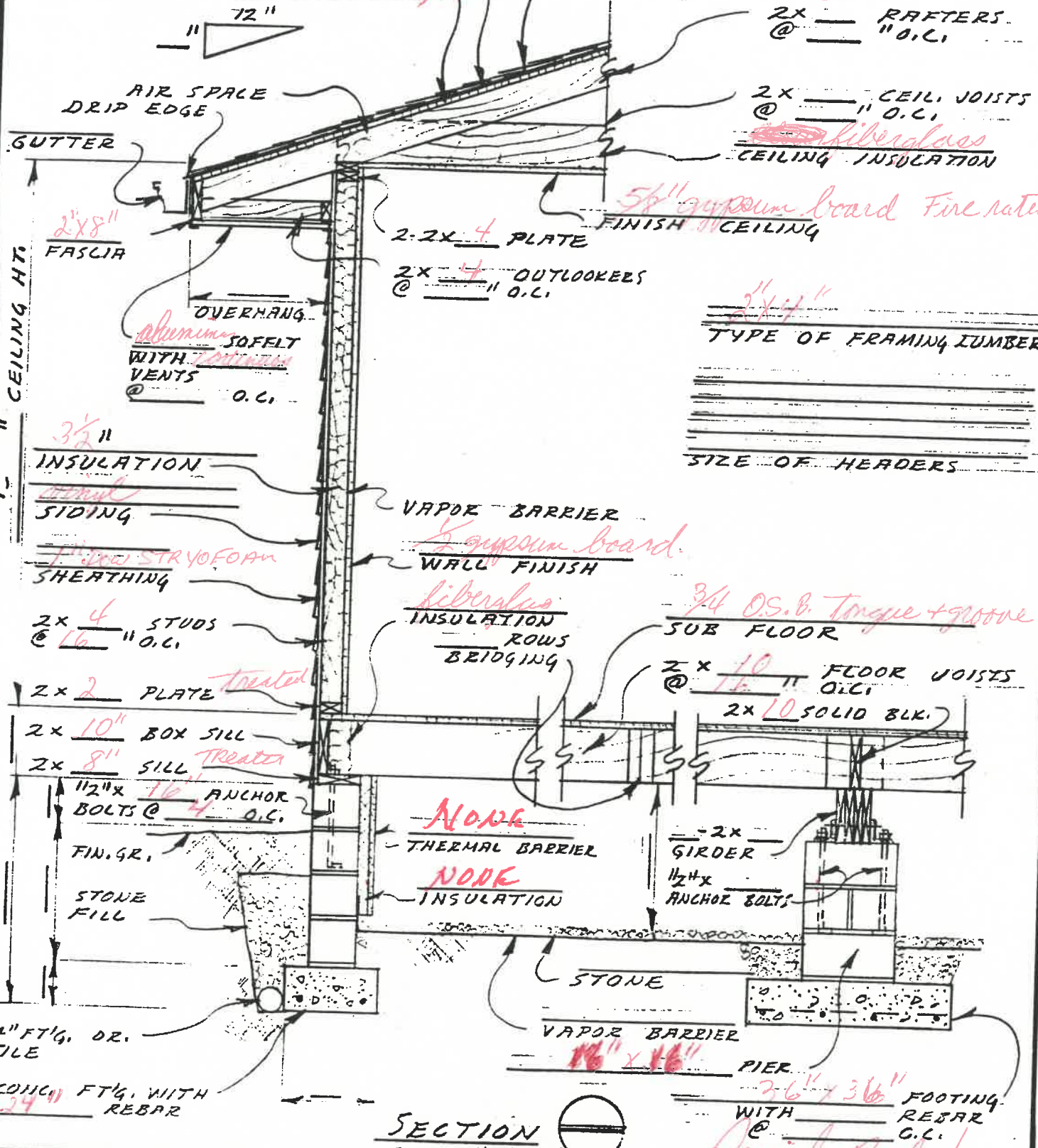
5/8" gypsum board Fire rated
FINISH CEILING

2-2X4 PLATE

2X 4 OUTLOOKERS @ 16" O.C.

2x4 TYPE OF FRAMING LUMBER

SIZE OF HEADERS



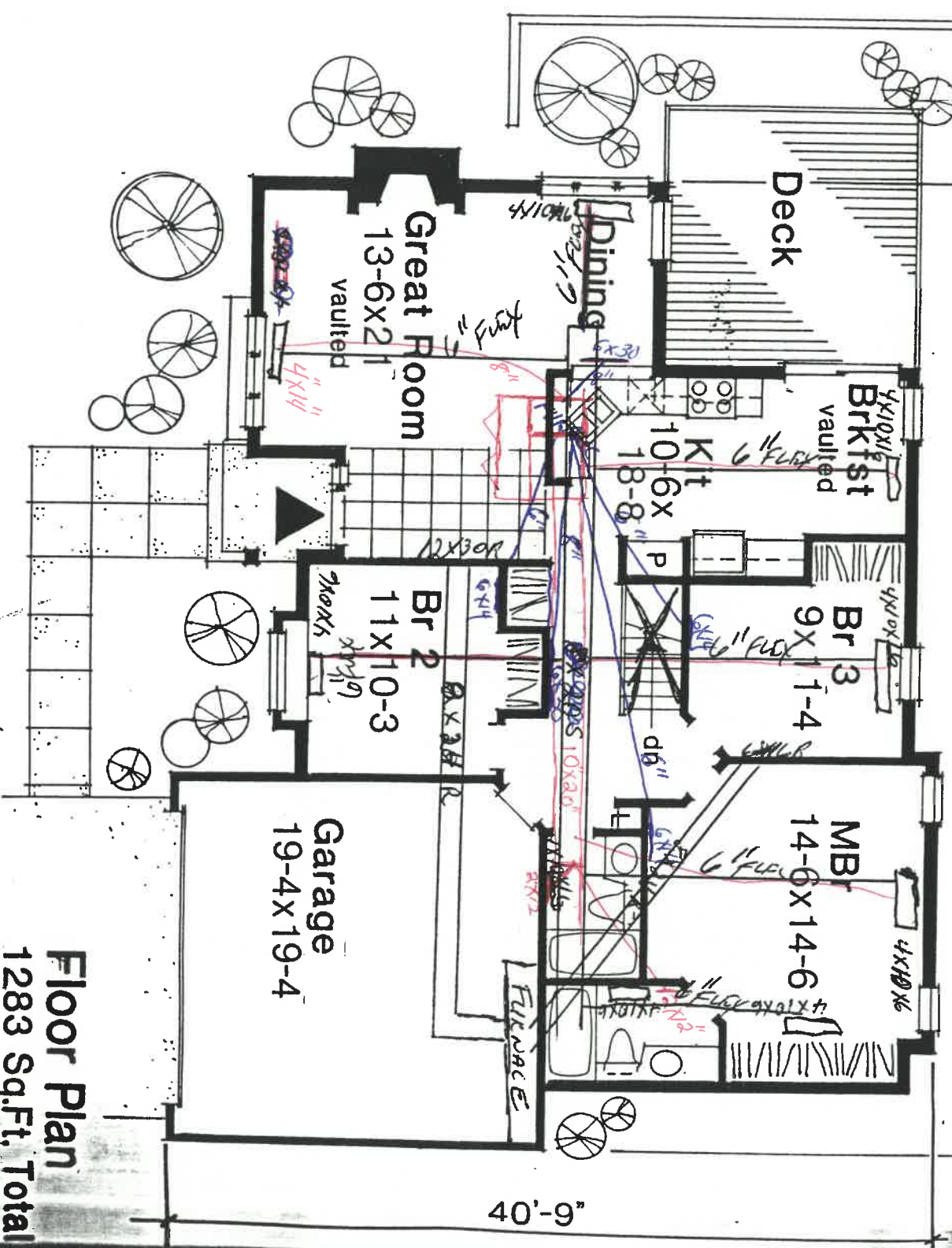
SECTION
SCALE 1/2"=1'-0"

Daniel Bubaker

DATE 4/2/90 WALL SECTION @ CRAWL SPACE DWG. NO OF

FURNACE - HEED ⁶⁰ ~~ADD~~ TRAIL ^{SPACE} DOWN FLOOR H1 EFFEC.
 DUCT - FIBERGLAS DUCT BOARD
 RUNS - INSULATED FLEX DUCT
 SUPPLY - CRAWL SPACE
 RETURN - ATTIC

VENT 2 1/4 SCH 40 PVC THROUGH ROOF 51'-5"



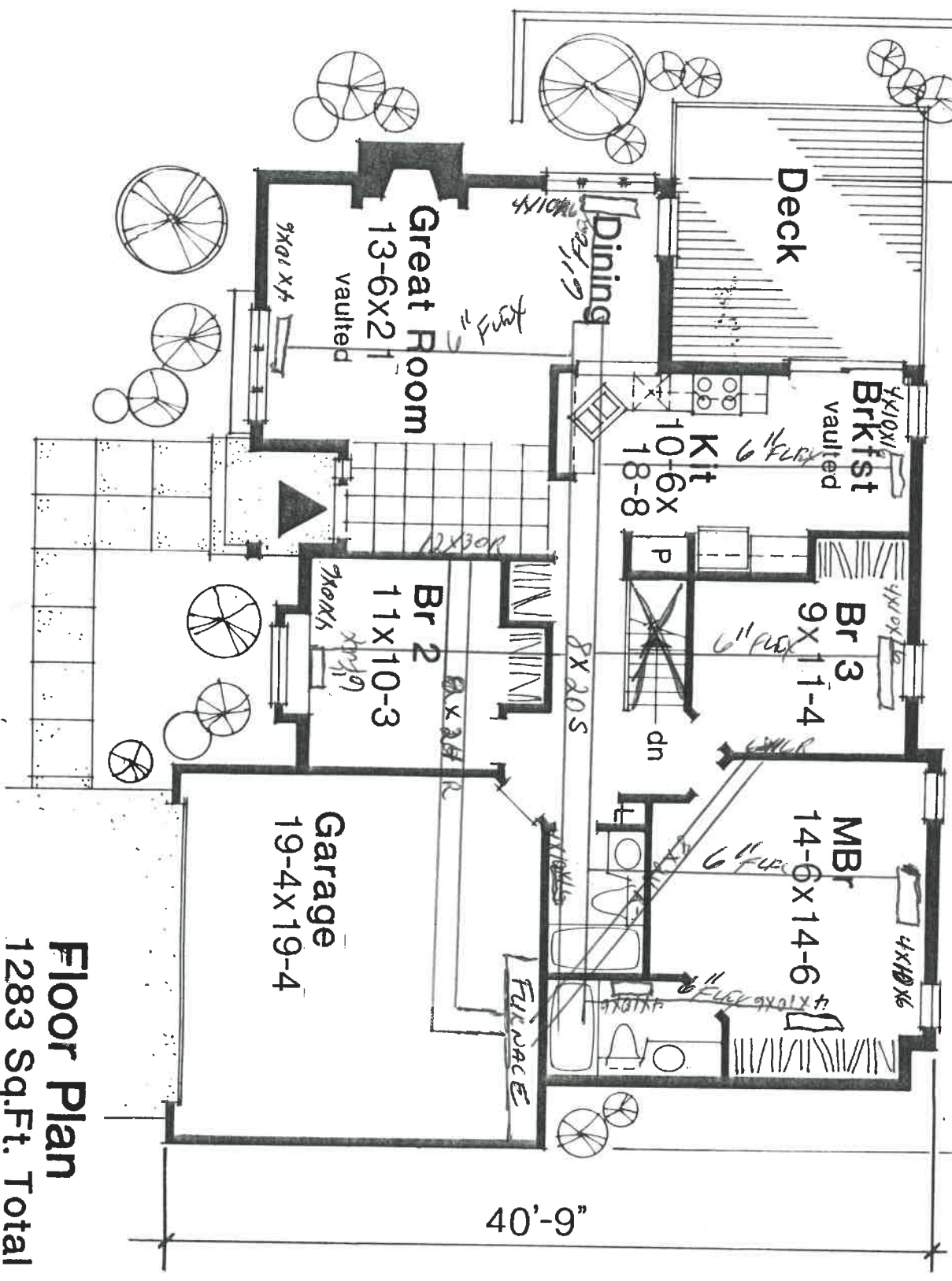
Floor Plan
 1283 Sq.Ft. Total

FURNACE - HEDE 100 CLARK DOWN FLOW H1 EFFEC.
 DUCT - FIBERGLAS DUCT BOARD
 RUNS - INSULATED FLEX DUCT

SUPPLY - CRAWL SPACE
 RETURN - ATTIC

VENT 2 1/4" SCH 40 PVC THRU ROOF 51'-5"

VOID
 STEEL REINFORC CON.



Floor Plan
 1283 Sq.Ft. Total

7	F3-19E	CALL#	4/16	JT	TYPE	N	LEN	Y	X	(MEMBER)
1	HL01	GNQ20	3.0X	5.0	3.75					
2	IN11	GNQ20	1.0X	4.0	2.00					
3	PK12	GNQ20	5.0X	5.0						
4	IN11	GNQ20	1.0X	4.0						
5	HL01	GNQ20	3.0X	5.0	3.75					
6	IN02	GNQ20	5.0X	5.0						
7	IN02	GNQ20	5.0X	5.0						

MEMBER	FR-TO	FORCE (LBS)	HOR DISP	SLOPE/12	DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. MEMBER LENGTH	W E B S	CONC	LOAD	CHORDS	SIZE	LUMBER DESCRIPTION	DESIGN CRITERIA
1-2	2063C	5-0-0	0	9.000	70.0	0.0	2-7	340C	1	70	1-3	2X 4	NO.2 KD15 SO. PINE	TOP CH. DL= 25 PSF
2-3	2063C	5-0-0	0	9.000	70.0	0.0	3-7	1283T	5	70	3-5	2X 4	NO.2 KD15 SO. PINE	DL= 10 PSF
3-4	2063C	5-0-0	0	-9.000	70.0	0.0	3-6	1283T	1	70	3-1	2X 8	NO.1 KD15 SO. PINE	BOT CH. DL= 20 PSF
4-5	2063C	5-0-0	0	-9.000	70.0	0.0	4-6	340C						DL= 10 PSF
5-6	1650T	5-0-0	0	0.000	60.0	10.0								TOTAL LOAD= 65 PSF
6-7	998T	10-0-0	0	0.000	120.0	10.0								
7-1	1650T	5-0-0	0	0.000	60.0	10.0								

DESIGN SPECS. FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, TPI, 1985

MAX. PURLIN SPACE= 0.0 FT., MAX. UNBRACED BOT. CH. LEN= 10.0 FT.

*** PLYWOOD SHEATHING REQUIRED ON TOP CHORD ***

NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE NAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-10D COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING, BY OTHERS.

THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

INPUT DEF. L/360

INCREASES (PER CENT)

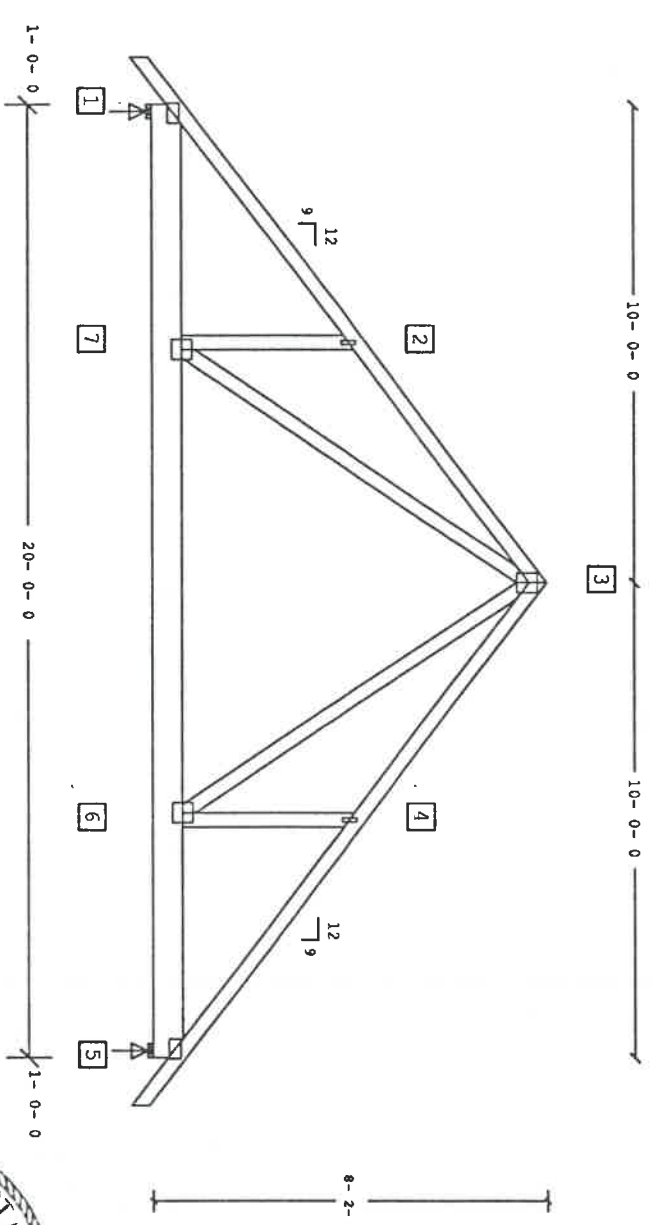
TOP LS= 15 BCH LS= 15

LEFT OVERHANG= 1-0-0

RIGHT OVERHANG= 1-0-0

NAIL VALUES (PSI)	GROSS CHORDS	WEBS
MAX MIN	MAX MIN	MAX MIN
GNQ20 228 180	190 140	

90-5060-1



GROSS BRG	JT REACT	LN-SX
1	1670	3-8
5	1670	3-8

CAMBER= 0-1/8
OMH= 8-0 P

Handling & Erection

Miscellaneous Information

Bracing Information

Connector Hardware

Lumber

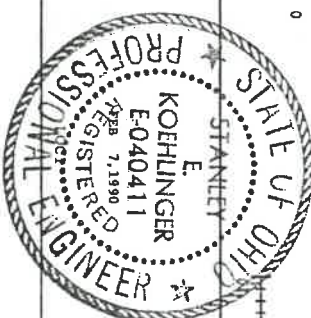
Caution Handling of components shall not be permitted. Trusses shall be stored on a flat surface. Trusses shall be stored in a dry area. Trusses shall be stored in a way that allows them to be easily accessed. Trusses shall be stored in a way that allows them to be easily accessed. Trusses shall be stored in a way that allows them to be easily accessed.

This data sheet and the information herein is the property of Stark Truss Company. It is to be used for the design and construction of the truss only. It is not to be used for any other purpose. The user of this component shall be specified by the designer of the truss. The user of this component shall be specified by the designer of the truss. The user of this component shall be specified by the designer of the truss.

All lateral bracing specified is for the truss only. It is not to be used for any other purpose. The user of this component shall be specified by the designer of the truss. The user of this component shall be specified by the designer of the truss. The user of this component shall be specified by the designer of the truss.

Connector plates are manufactured in accordance with the requirements of the American Institute of Steel Construction, Inc. (AISC). The user of this component shall be specified by the designer of the truss. The user of this component shall be specified by the designer of the truss. The user of this component shall be specified by the designer of the truss.

Lumber must be a grade 1 or better. It must be stored in a dry area. It must be stored in a way that allows it to be easily accessed. It must be stored in a way that allows it to be easily accessed. It must be stored in a way that allows it to be easily accessed.



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FEB 7, 1990 F3-19F

WARNING - VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.
YOU ARE SOLELY RESPONSIBLE FOR ERRORS RESULTING FROM WRONG INPUT

REQUEST NO. CALCONIX QUOTE WOLOHAN DEFANCE #59521 (NM)

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LUMBER HAS BEEN UPGRADED DUE TO DEFLECTION.

13 7
REQUEST NO. CALCONIX QUOTE WOLOHAN DEFANCE #59521 (NM) A
FEB 7, 1990 F3-19F

SPAN (OUT TO OUT) 20.000
NO. OF JOINTS 7
LOC. OF REACTIONS 1 5
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15

TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.

TRUSS GEOMETRY AND LOAD DATA

JT	HOR. DISP. FT	VER. DISP. SLOPE/12	VERTICAL UNIF. LD.	VERTICAL PLF	CONC. LD.	VERTICAL IBS
1	5.0000			-70.00	-70.00	
2	5.0000			-70.00	0.00	
3	5.0000			-9.0000	-70.00	0.00
4	5.0000			-9.0000	-70.00	0.00
5	-5.0000			0.0000	-60.00	-70.00
6	-10.0000			0.0000	-120.00	0.00
7	-5.0000			0.0000	-60.00	0.00

TOTAL POSITIVE DISPLACEMENT= 20.00

NO. OF WEBS= 4
2- 7 3- 7 3- 6 4- 6

GROSS REACTIONS (LBS):
RV- 1= 1670.0 RV- 5= 1670.0
RH- 1= 0.0

MEM FORCE WID DEP FB FC:FT Q P/AF VM/ZF HM/ZF CSI LAT. IAT.
LBS IN. IN. PSI PSI

TOP CHORD MEMBERS

1- 2	-2063.	1.50	3.50	2013	1323	0.90	0.30	0.32	0.00	0.61	0.0
2- 3	-2063.	1.50	3.50	2013	1323	0.90	0.30	0.32	0.00	0.61	0.0
3- 4	-2063.	1.50	3.50	2013	1323	0.90	0.30	0.32	0.00	0.61	0.0
4- 5	-2063.	1.50	3.50	2013	1323	0.90	0.30	0.32	0.00	0.61	0.0

BOT CHORD MEMBERS

5- 6	1650.	1.50	7.25	2128	966	1.00	0.16	0.26	0.00	0.42	10.0
6- 7	938.	1.50	7.25	2128	966	1.00	0.09	0.52	0.00	0.61	10.0
7- 1	1650.	1.50	7.25	2128	966	1.00	0.16	0.26	0.00	0.42	10.0

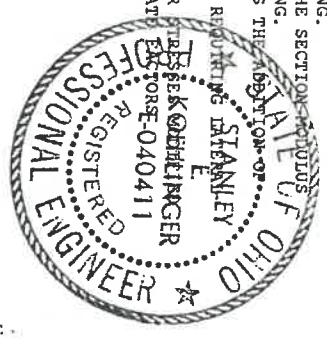
WEB MEMBERS

2- 7	-340.	1.50	3.50	633	445	0.00	0.15	0.00	0.00	0.15	3.8
3- 7	1283.	1.50	3.50	633	374	0.00	0.65	0.00	0.00	0.65	9.0
3- 6	1283.	1.50	3.50	633	374	0.00	0.65	0.00	0.00	0.65	9.0
4- 6	-340.	1.50	3.50	633	445	0.00	0.15	0.00	0.00	0.15	3.8

DEFLECTION AT 6 = -0.0995 INCHES
DEFLECTION BETWEEN 6- 7 = -0.2758 INCHES

EXPLANATIONS:
P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.
VM/ZF = VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
HM/ZF = HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
CSI = COMBINED STRESS INTERACTION EQUATION IS THE ABILITY OF THE P/AF + VM/ZF + HM/ZF TO SUPPORT.
LAT. = MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REDUCING STRENGTH SUPPORT.
STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE.

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 4	NO.2 KD15 SO. PINE
3- 5	2X 4	NO.2 KD15 SO. PINE
5- 1	2X 8	NO.1 KD15 SO. PINE
ALL WEBS	2X 4	NO.3 S.P.F.



7 CALC# 8/16 JT TYPE	W	LEN	Y	X (MEMBER)
1 HL78 GNO20	4.0X12.0	1.00	3.00	(4-1)
1 HL51 GNO20	3.0X 5.0		16.00	(4-1)
1 HL51 GNO20	3.0X 5.0		42.25	(4-1)
2 PL11 GNO20	6.0X 6.0	2.00		
3 HL78 GNO20	4.0X12.0	1.00	3.00	(3-4)
3 HL51 GNO20	3.0X 5.0		16.00	(3-4)
4 CS11 GNO20	6.0X 6.0	3.00	42.25	(3-4)

MEMBR	FORCE (LBS)	CHORD S HOR DISP FT-IN-SX	DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. MEMBER FORCE (LBS)	W E B S FR-TO
1-2	2636C	5-3-12	9.000	80.0	0.0	2-4
2-3	2636C	5-3-12	-9.000	80.0	0.0	
3-4	2441T	5-3-12	-7.000	60.0	10.0	
4-1	2441T	5-3-12	7.000	60.0	10.0	

CHORDS	SIZE	LUMBER	DESCRIPTION	DESIGN CRITERIA
1-2	2X 4	NO. 2 KD15 SO. PINE		TOP CH. L ₁ = 25 PSF
2-3	2X 4	NO. 2 KD15 SO. PINE		D ₁ = 15 PSF
3-4	2X 4	NO. 2 KD15 SO. PINE		BOT CH. L ₁ = 20 PSF
4-1	2X 4	NO. 2 KD15 SO. PINE		D ₁ = 10 PSF
REINFORCING MEMBERS				TOTAL LOAD= 70 PSF
4-1	2X 4	NO. 2 KD15 SO. PINE		SPACING= 24 IN. C/C
3-4	2X 4	NO. 2 KD15 SO. PINE		INPUT DEFL. L/360
ALL WEBS	2X 4	NO. 2 KD15 SO. PINE		INCREASES (PER CENT)

THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

NOTE: LATERAL BRACES AND PULLING INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE MAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-10D COMMON RISE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING. BY OTHERS.

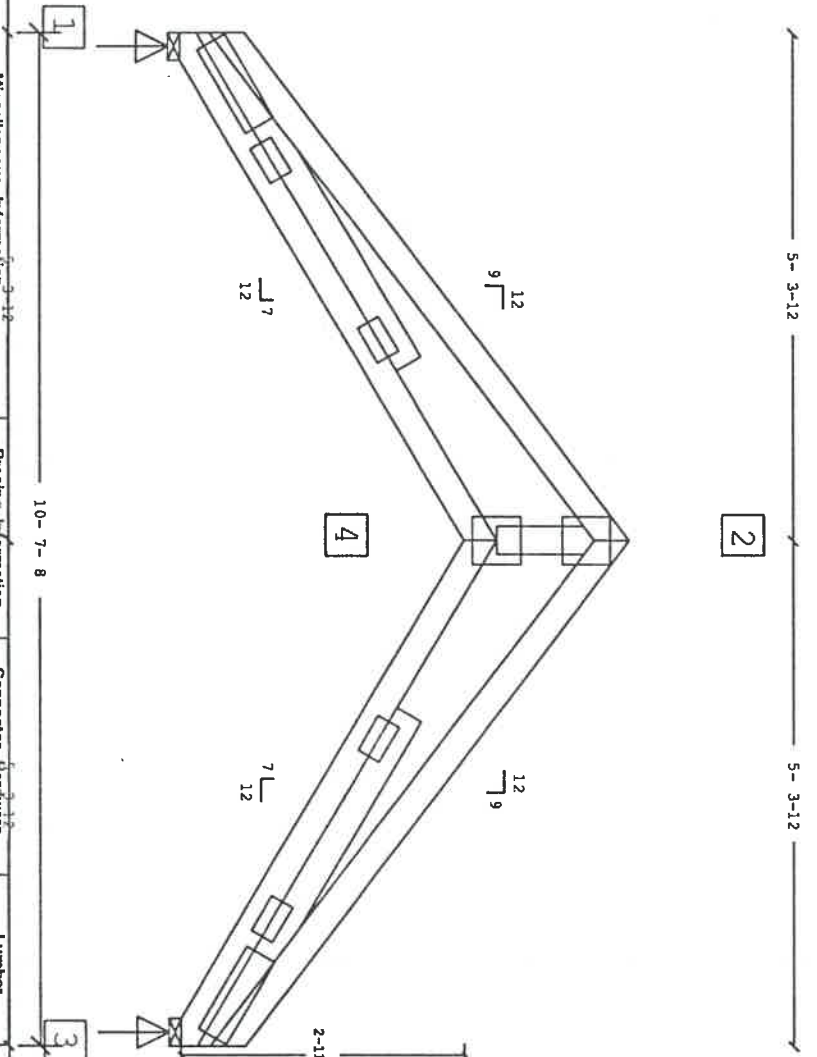
MAX. PURLIN SPACE= 0.0 FT. MAX. UNBRACED BOT. CH. LEN.= 10.0 FT.
*** PLYWOOD SHEATHING REQUIRED ON TOP CHORD ***

DESIGN SPECS. FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, TPI, 1985

ALLOW FOR HORIZONTAL DISPLACEMENT AT ONE OF THE SUPPORTS

0.487"

90-50160-2

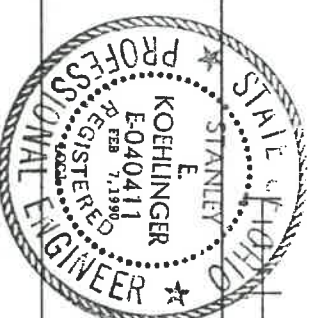


Handling & Erection	Miscellaneous Information	Bracing Information	Connector Hardware	Lumber
Caution handling of components that not be permitted. Truss members shall be stored in a dry area and shall be protected from moisture. Components shall be stored in a dry area and shall be protected from moisture. Components shall be stored in a dry area and shall be protected from moisture.	The data shown and the dimensions shown in this drawing are the property of Stark Truss Company and shall not be reproduced or used for any other purpose without the written consent of Stark Truss Company. The designer of this component shall be specified by the designer of the complete structure before using this component. Obtain all necessary code compliance, approvals and instructions from the designer of the complete structure before using this component. When the drawing is signed and sealed, Stark Truss Company, Inc. is approving only the structural design of the truss shown on the basis of data provided by the customer and shown on this drawing.	All lateral bracing specified is for members shown in this drawing. Web bracing where required are to be provided by the designer of the complete structure. Lateral bracing and sheathing, purlins or ceiling materials, framing and other items shall be provided by the designer of the complete structure.	Connectors shall be manufactured in accordance with the requirements of the lumber with which they are used. Plates must be installed on both faces of the lumber with both fully embedded. Refer to the AutoTruss joint detail sheet for details of joint types and dimensions about joints unless other dimensions are shown.	Lumber must be a grade mark from an approved inspection bureau and must be of the size and species shown on this drawing. Lumber shall be cut to length and shall be delivered to the job site in accordance with the Design Criteria. Lumber shall be stored in a dry area and shall be protected from moisture. Lumber shall be stored in a dry area and shall be protected from moisture.

1444	GROSS BRG
0.48	JT REACT IN-SX
0.42	1 744 3-8
0.51	3 744 3-8

OH# 8-0 P

IMPORTANT: READ ALL NOTES ON THIS DRAWING!



90/02/07
15:30:17

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11
FEB 7, 1990 F3-19F

WARNING- VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.
YOU ARE SOLELY RESPONSIBLE FOR ERRORS RESULTING FROM WRONG INPUT

REQUEST NO. CALCONIX QUOTE WOLOHAN DEFLECTANCE #59521 (NM)

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13 7
REQUEST NO. CALCONIX QUOTE WOLOHAN DEFLECTANCE #59521 (NM) B
FEB 7, 1990 F3-19F

SPAN (OUT TO OUT) 10.625
NO. OF JOINTS 4
LOC. OF REACTIONS 1 3
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15

TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.

TRUSS GEOMETRY AND LOAD DATA

JT	HOR. DISP. FT	VER. DISP. SLOPE/12	VERTICAL UNIT LD.	PLF
1	5.3125	9.0000	-80.00	-80.00
2	5.3125	-9.0000	-80.00	-80.00
3	-5.3125	-7.0000	-60.00	-60.00
4	-5.3125	7.0000	-60.00	-60.00

TOTAL POSITIVE DISPLACEMENT= 10.63

NO. OF WEBS= 1
2- 4

GROSS REACTIONS (LBS):
RV-1= 743.7 RV-3= 743.7
RH-1= 0.0

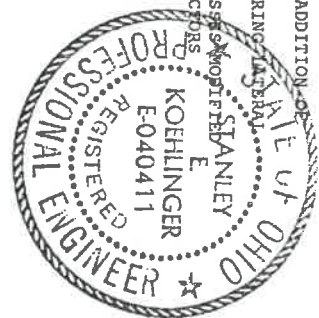
MEM	FORCE LBS	WID IN.	DEP IN.	FB IN.	FC:FT PSI	Q	P/AF	VM/ZF	HM/ZF	CSI	LAT. BRC
TOP CHORD MEMBERS											
1- 2	-2636.	1.50	3.50	1679	1133	0.90	0.44	0.53	0.00	0.98	0.0
2- 3	-2636.	1.50	3.50	1679	1133	0.90	0.44	0.53	0.00	0.98	0.0
BOT CHORD MEMBERS											
3- 4	2441.	1.50	3.50	2013	1035	1.00	0.45	0.37	0.00	0.82	10.0
4- 1	2441.	1.50	3.50	2013	1035	1.00	0.45	0.37	0.00	0.82	10.0
WEB MEMBERS											
2- 4	2761.	1.50	3.50	1783	1035	0.00	0.51	0.00	0.00	0.51	0.9

DEFLECTION AT 4 = -0.3727 INCHES

EXPLANATIONS:
P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.
VM/ZF = VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS

AND THE ALLOWABLE UNIT STRESS IN BENDING.
HM/ZF = HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
CSI = COMBINED STRESS INTERACTION EQUATION IS THE ADDITION OF P/AF + VM/ZF + HM/ZF
LAT. = MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REQUIRING LATERAL SUPPORT.
BRC = STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE.

CHORDS	SIZE	LUMBER DESCRIPTION
1- 2	2X 4	NO.2 KD15 SO. PINE
2- 3	2X 4	NO.2 KD15 SO. PINE
3- 4	2X 4	NO.2 KD15 SO. PINE
4- 1	2X 4	NO.2 KD15 SO. PINE
ALL WEBS	2X 4	NO.2 KD15 SO. PINE



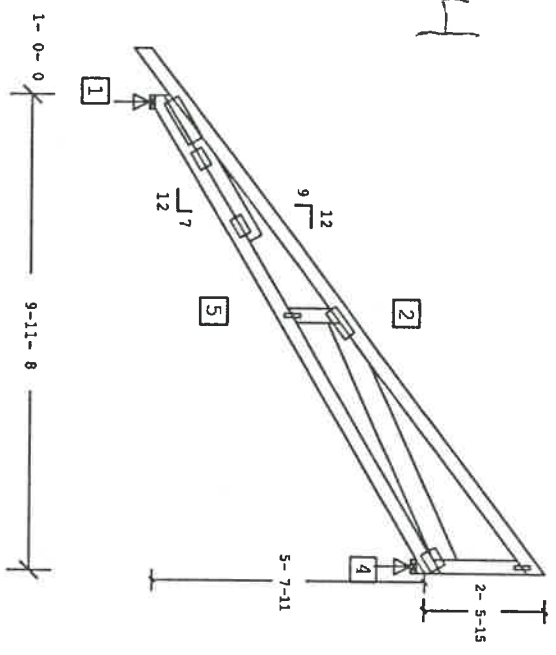
MEMBER	FORCE (LBS)	HOR DISP	VERT DISP	DEPTH IN	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH	W B S FORCE (LBS)	CONC LOAD	CHORDS	SIZE	LUMBER DESCRIPTION	DESIGN CRITERIA
1 H178 GNO20 4.0X12.0	16,000	5-1				2-5	281T	70	1-3	2X 4	NO.2 KD15 SO. PINE	TOP CH. DL= 25 PSF
1 H151 GNO20 3.0X 5.0	35,500	5-1				2-4	2161C		3-4	2X 4	NO.3 S.P.F.	DL= 10 PSF
1 H151 GNO20 3.0X 5.0						2-4			4-1	2X 4	NO.2 KD15 SO. PINE	BOT CH. DL= 20 PSF
2 I102 GNO20 3.0X 8.0						6-0			5-1	2X 4	NO.2 KD15 SO. PINE	DL= 10 PSF
3 CR11 GNO20 1.0X 4.0						10.0						TOTAL LOAD= 65 PSF
4 CR02 GNO20 4.0X 5.0						60.0						SPACING= 24 IN. C/C
5 I111 GNO20 1.0X 5.0						10.0						INPUT DEFL. L/360

NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OR MEMBER, AND SHOULD BE NAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-10D COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING. BY OTHERS.

THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

LEFT OVERHANG = 1-0-0

90-50600-4



ITEM	DESCRIPTION	QTY	UNIT
35A	GROSS BRG		
1	REACT IN-SX	717	3-8
4		647	3-8
	CAMBER= 0-1/8		
	OMH-L= 8-0 P		

Handling & Erection

Miscellaneous Information

Bracing Information

Connector Hardware

Lumber

Carries handling of components shall not be permitted. Temporary and permanent bracing for holding component joints and for resisting lateral forces shall be designed and installed in accordance with the design of the component unit after all bracing and temporary bracing has been removed. At no time shall loads greater than design loads be applied to the component.

Design of the complete structure before using the component. Obtain all necessary code compliance, approvals and instructions from the designer of the complete structure. When the drawing is signed and sealed, Gang/NAI Systems, Inc. is not responsible for the design of the complete structure. When the drawing is signed and sealed, Gang/NAI Systems, Inc. is not responsible for the design of the complete structure. When the drawing is signed and sealed, Gang/NAI Systems, Inc. is not responsible for the design of the complete structure.

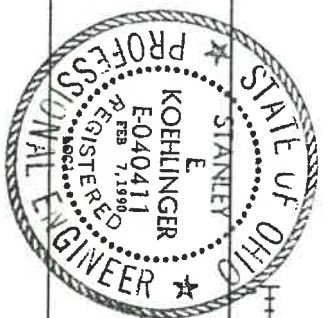
All lateral bracing specified is to be installed. Where bracing is required, it shall be installed in accordance with the design of the complete structure. Where bracing is required, it shall be installed in accordance with the design of the complete structure.

Connector plates are manufactured in accordance with the design of the complete structure. Plates must be installed on both faces of the lumber with teeth fully embedded. Refer to the Aluminum joint detail for details of joint types and dimensions are shown.

Lumber must have a grade mark from an approved lumber grading agency. The grade shown on the drawing shall be equal to or better than the grade specified.

The design and the material shall conform with the latest revision of NDS, IRC and IP.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!



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WARNING- VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.
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REQUEST NO. CALCONLY QUOTE WOLOHAN DEFJANCE #59521 (NM)

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13 7
REQUEST NO. CALCONLY QUOTE WOLOHAN DEFJANCE #59521 (NM) D
FEB 7,1990 F3-19F

SPAN (OUT TO OUT) 9.958
NO. OF JOINTS 5
LOC. OF REACTIONS 1 4
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15

TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.

TRUSS GEOMETRY AND LOAD DATA

JT	HOR. DISP.	VER. DISP.	VERTICAL SLOPE/12	VERTICAL UNIF. LD.	VERTICAL CONC. LD.
1	4.5755	9.0000	-70.00	PLF	LIBS
2	5.3828	9.0000	-70.00		
3	0.0000	-19.9167	-70.00		
4	-5.3828	7.0000	-60.00		
5	-4.5755	7.0000	-60.00		

TOTAL POSITIVE DISPLACEMENT= 9.96

NO. OF WEBS= 2
2- 5 2- 4

GROSS REACTIONS(LBS):
RV- 1= 717.3 RV- 4= 647.3
RH- 1= 0.0

MEM FORCE MID DEP FB FC:FT Q P/AF VM/ZF HM/ZF CSI LAT. LTT.
LBS IN. IN. PSI PSI BRC

TOP CHORD MEMBERS

1- 2	-2470.	1.50	3.50	1740	1173	0.90	0.40	0.40	0.00	0.80	0.0
2- 3	0.	1.50	3.50	2013	1035	0.90	0.00	0.34	0.00	0.34	0.0
3- 4	-177.	1.50	3.50	748	489	0.00	0.07	0.00	0.00	0.07	6.0

BOT CHORD MEMBERS

4- 5	2288.	1.50	3.50	2013	1035	1.00	0.42	0.34	0.00	0.76	10.0
5- 1	2288.	1.50	3.50	2013	1035	1.00	0.42	0.34	0.00	0.76	10.0

WEB MEMBERS

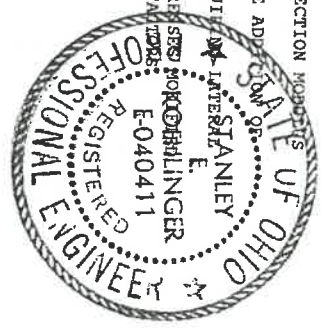
2- 5	281.	1.50	3.50	633	374	0.00	0.14	0.00	0.00	0.14	0.8
2- 4	-2161.	1.50	5.50	1898	442	0.00	0.59	0.00	0.00	0.59	5.9

DEFLECTION AT 5 = -0.2841 INCHES

EXPLANATIONS:

P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.
VM/ZF= VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
HM/ZF= HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
CSI = COMBINED STRESS INTERACTION EQUATION IS THE ALLOWABLE P/AF + VM/ZF + HM/ZF
LAT. = MAXIMUM DISTANCE ALLOWABLE(FT) WITHOUT REQUIREMENT FOR LATERAL SUPPORT.
STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES MODIFIED BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE.

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 4	NO.2 KD15 SO. PINE
3- 4	2X 4	NO.3 S.P.F.
4- 1	2X 4	NO.2 KD15 SO. PINE
WEBS	2X 4	NO.3 S.P.F.
2- 5		
WEBS	2X 6	MSR1650F-1.5E S.P.F.
2- 4		



MEMBER	FORCE (LBS)	HOR DISP (FT-IN-SX)	DEPTH IN	MAXIMUM UNBRAC. LENGTH	MEMBER FORCE (LBS)	CONC LOAD (LBS)	CHORDS	SIZE	LUMBER DESCRIPTION	DESIGN CRITERIA
1-2	16809C	8-6-9	7.000	70.0	5.5	2-8	5173T	2X 6	MSR1650F-1.5E S.P.F.	TOP CH. LL= 25 PSF
2-3	11382C	7-9-7	7.000	70.0	6.0	3-5	2X 6	2X 6	MSR1650F-1.5E S.P.F.	DL= 10 PSF
3-4	16809C	8-6-9	7.000	70.0	6.0	3-7	10934T	2X 10	MSR 2250F-1.9E SO.P.	BOT CH. LL= 20 PSF
4-5	14819T	8-6-9	0.000	70.0	5.5	4-7	5566C	NO. 2 KD15 SO. PINE	TOTAL LOAD= 65 PSF	
5-6	14819T	7-9-7	0.000	645.0	10.0	4-6	5173T	MSR1650F-1.5E S.P.F.		
6-7	14519T	7-9-7	0.000	645.0	10.0	3-7	2X 6			
7-8	14519T	8-6-9	0.000	645.0	10.0					
8-9	14519T	8-6-9	0.000	645.0	10.0					

NOTE: LATELIT BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE NAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-1" OD COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING, BY OTHERS.

MAX. PURLIN SPACE= 5.5 FT., MAX. UNBRACED BOT. CH. LEN.= 10.0 FT.

+++ DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY +++
 +++ THEN NAILED TOGETHER WITH 1" OD COMMON WIRE NAILS +++
 +++ STAGGERED THROUGHOUT BOTH FACES AS PER NAILING PATTERN +++

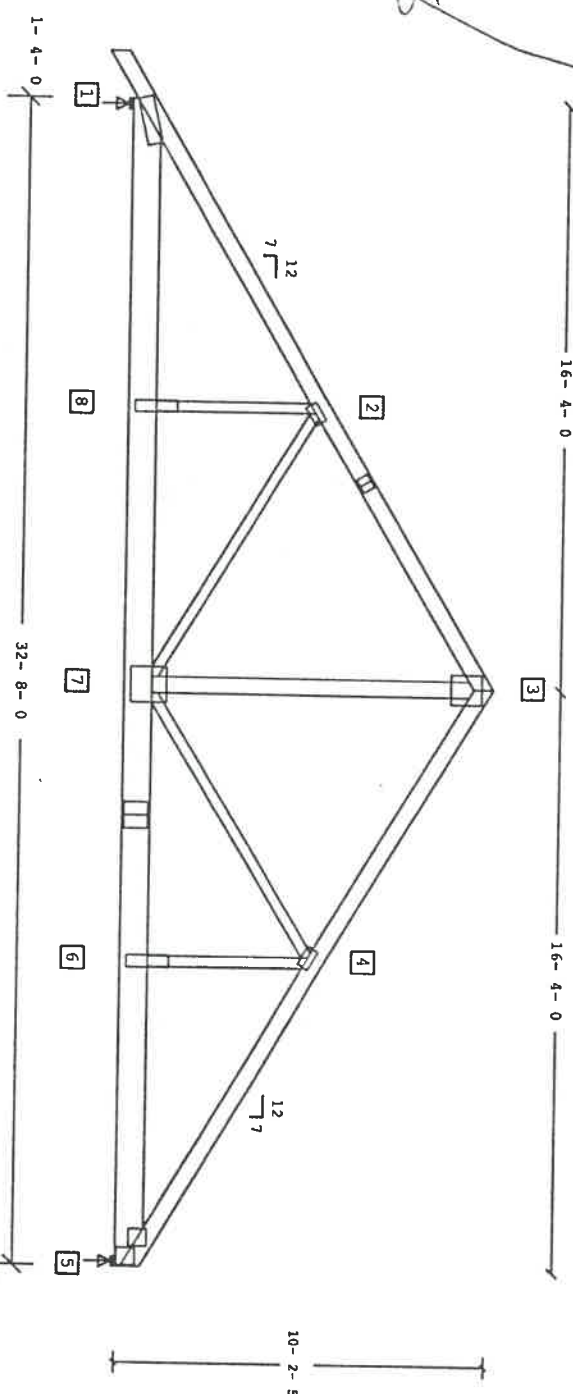
MULTI-MEMBER NAILING PATTERN
 CHORDS #ROWS SPACING (IN.)
 TOP 1 1 12.0
 BOT 1 1 4.0
 WEBS 1 1 12.0

THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

NAIL VALUES (PSI) GROSS CHORDS WEBS
 INCREASES (PER CENT)
 LUMBER= 15 NAIL= 15
 TCH IS= 0 BCH IS= 0

ADEQUATE WOOD TRUSS BEARING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER
 DESIGNED FOR VERTICAL LOADS ONLY. LATERAL STABILITY OF GIRDER TRUSS TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT

90-50600-F



INPUT RECORD

GROSS BRG	ARC
JT REACT	IN-SX IN-SY
1	11772 3-8 6-15
5	11678 3-8 6-14

CAMBER= 0-1/8
 OWH= 8-0 P

Handing & Erection: The data show, and the information herein is the property of Stark Truss Company, Inc. and is not to be copied in part or used for any other purpose without the written consent of Stark Truss Company, Inc. The use of this component shall be specified by the designer of the complete structure before installation. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component. The use of this component shall be specified by the designer of the complete structure before installation. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component. The use of this component shall be specified by the designer of the complete structure before installation. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component.

Miscellaneous Information: All lateral bracing specified in the drawing shall be installed in accordance with the manufacturer's instructions. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component. The use of this component shall be specified by the designer of the complete structure before installation. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component.

Branching Information: Connector plates are manufactured in accordance with the manufacturer's instructions. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component. The use of this component shall be specified by the designer of the complete structure before installation. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component.

Connector Hardware: Lumber must be a grade approved by the manufacturer. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component. The use of this component shall be specified by the designer of the complete structure before installation. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component.

Lumber: The design and the material conform to the manufacturer's instructions. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component. The use of this component shall be specified by the designer of the complete structure before installation. The designer of the complete structure shall be responsible for providing the necessary code compliance, appropriate and instructions from the manufacturer of the component.



IMPORTANT: READ ALL NOTES ON THIS DRAWING!

11
FEB 7,1990 F3-19F

WARNING- VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.
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REQUEST NO. CALCONLY QUOTE MOJOHAN DEFIANCE #59521 (NM)

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13 7
REQUEST NO. CALCONLY QUOTE MOJOHAN DEFIANCE #59521 (NM) E
FEB 7,1990 F3-19F

SPAN (OUT TO OUT) 32.667
NO. OF JOINTS 8
LOC. OF REACTIONS 1 5
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15

TOP CHORD LOAD SHARE = 0 BOTTOM CHORD LOAD SHARE = 0

PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.

TRUSS GEOMETRY AND LOAD DATA	VER. DISP.	VERTICAL UNIF. LD.	VERTICAL CONC. LD.
JT HOR. DISP.	SLOPE/12	PLF	PLF
1 8.5454	7.0000	-70.00	-93.33
2 7.7880	7.0000	-70.00	0.00
3 7.7880	-7.0000	-70.00	0.00
4 8.5454	-7.0000	-70.00	0.00
5 -8.5454	0.0000	-645.00	0.00
6 -7.7880	0.0000	-645.00	0.00
7 -7.7880	0.0000	-645.00	0.00
8 -8.5454	0.0000	-645.00	0.00

TOTAL POSITIVE DISPLACEMENT= 32.67

NO. OF WEBS= 5
2- 8 2- 7 3- 7 4- 7 4- 6

GROSS REACTIONS(LBS):
RV- 1= 11771.7 RV- 5= 11678.3
RH- 1= 0.0

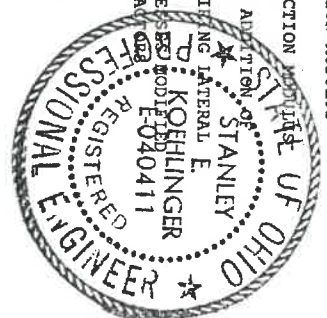
MEM	FORCE LBS	WID IN.	DEP IN.	FB PSI	FC:FT PSI	Q	P/AF	VM/ZF	HM/ZF	CSI	IAT. BRC
TOP CHORD MEMBERS											
1- 2	-16809.	3.00	5.50	1605	1451	0.74	0.70	0.15	0.00	0.85	5.5
2- 3	-11382.	3.00	5.50	1898	1518	0.90	0.45	0.17	0.00	0.63	6.0
3- 4	-11382.	3.00	5.50	1898	1518	0.90	0.45	0.17	0.00	0.63	6.0
4- 5	-16809.	3.00	5.50	1605	1451	0.74	0.70	0.15	0.00	0.85	5.5
BOT CHORD MEMBERS											
5- 6	14519.	3.00	9.25	2588	2013	1.00	0.26	0.56	0.00	0.82	10.0
6- 7	14519.	3.00	9.25	2588	2013	1.00	0.26	0.56	0.00	0.82	10.0
7- 8	14519.	3.00	9.25	2588	2013	1.00	0.26	0.56	0.00	0.82	10.0
8- 1	14519.	3.00	9.25	2588	2013	1.00	0.26	0.56	0.00	0.82	10.0

DEFLECTION AT 7 = -0.4091 INCHES
DEFLECTION BETWEEN 6- 7 = -0.4799 INCHES

EXPLANATIONS:

P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.
VM/ZF = VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
HM/ZF = HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
CSI = COMBINED STRESS INTERACTION EQUATION IS THE ADDITION OF P/AF + VM/ZF + HM/ZF
P/AF + VM/ZF + HM/ZF
IAT. = MAXIMUM DISTANCE ALLOWABLE(FT) WITHOUT REQUIRING LATERAL SUPPORT.
STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE.

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 6	MSR1650F-1.5E S.P.F.
3- 5	2X 6	MSR1650F-1.5E S.P.F.
5- 1	2X10	MSR 2250F-1.9E SO.P.F.
WEBS	2X 4	NO.2 KD15 SO. PINE
2- 8	2- 7 4- 7 4- 6	
WEBS	2X 6	MSR1650F-1.5E S.P.F.
3- 7		



CALLS	TYPE	M	LEN	Y	X (MEMBER)	MEMBER	FORCE (LBS)	CHORD S	MEMBER	MAXIMUM	MEMBER	CONC	LOAD	CHORDS	SIZE	LUMBER	DESCRIPTION	DESIGN
7	93-19P					FR-TO	HOR DISP	DEPTH IN	LOAD	UNBRAC.	FR-TO	LOAD	CHORDS	SIZE	LUMBER	DESCRIPTION	DESIGN	
1	HL78 GNO20	4.0X	5.0	1.00	7.001 (5-1)	1-2	816C	6-6-10	70.00	0.0	2-5	377T	1-3	2X 4	NO.2 KD15 SO. PINE	TOP CH. LL= 25 PSF		
1	HL51 GNO20	3.0X	5.0		43.501 (5-1)	2-3	0	6-7-6	70.00	0.0	2-4	814C	3-4	2X 4	NO.3 S.P.F.	BOT CH. LL= 10 PSF		
2	IN02 GNO20	3.0X	5.0			3-4	221C	0-0-0	-92.167 D	70.0	6.0		4-1	2X 4	NO.2 KD15 SO. PINE	DL= 10 PSF		
4	CR11 GNO20	1.0X	4.0			4-5	704T	6-7-6	0.000	60.0	10.0		5-1	2X 4	NO.2 KD15 SO. PINE	TOTAL LOAD= 65 PSF		
5	IN11 GNO20	1.0X	4.0			5-1	704T	6-6-10	0.000	60.0	10.0						SPACING= 24 IN. C/C	
2	3 SPI0 GNO20	2.5X	4.0															INPUT DEFL. L/360

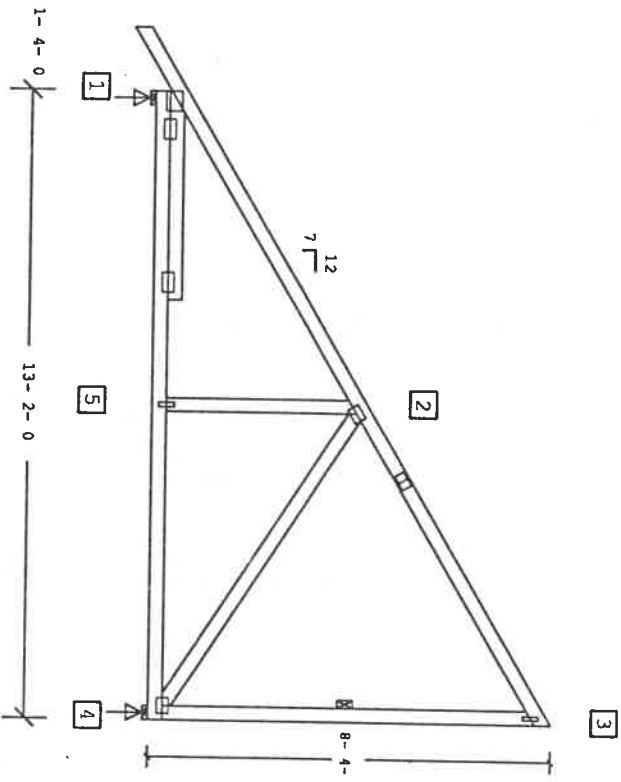
DESIGN SPECS. FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, TPI, 1985

MAX. PURLIN SPACE= 0.0 FT. MAX. UNBRACED BOT. CH. LEN.= 10.0 FT. *** PLYWOOD SHEATHING REQUIRED ON TOP CHORD *** THE FOLLOWING BRACING APPLIES ONLY WHEN MEMBER(S) ARE NOT SHEATHED: 1-1X4 L.T. BRACE REQD. AT 1/2 LEN. WEBS 3-4

NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE NAILLED TO TRUSS MEMBERS WITH MINIMUM OF 2-10D COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING, BY OTHERS.

THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

LEFT OVERHANG = 1-4-0



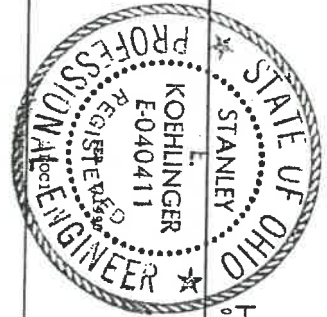
Handling & Erection: Careless handling of components shall not be permitted. Temporary and permanent bracing for holding component installed by erecting, leveling, bracing shall be designed and constructed unit after all bracing and leveling are complete. All tie rods shall have greater than design loads be applied to them. Care must be specified to install component at proper bearing points, right side up, and properly braced. Read all notes hereon and obtain any design assistance indicated. Read all notes hereon and obtain any design assistance indicated. Read all notes hereon and obtain any design assistance indicated. Read all notes hereon and obtain any design assistance indicated. Read all notes hereon and obtain any design assistance indicated.

Miscellaneous Information: This data sheet and the information herein is the property of Stark Truss Company, Inc. and is not to be copied in any way without the written permission of Stark Truss Company, Inc. in any other way. This information is provided for the use of the customer and is not to be used for any other purpose. Obtain all necessary code compliance, approvals and instructions from the applicable authority before using this component. When the drawing is signed and sealed, Stark Truss Company, Inc. is not responsible for the fabrication, handling, shipment and installation of components.

Bracing Information: All lateral bracing specified is for members and web bracing where required are to be equally spaced along web length. Bracing shall be provided by steel, aluminum or other suitable material. Bracing shall be provided by steel, aluminum or other suitable material. Bracing shall be provided by steel, aluminum or other suitable material. Bracing shall be provided by steel, aluminum or other suitable material. Bracing shall be provided by steel, aluminum or other suitable material.

Connector Hardware: Connector plates are manufactured in accordance with TPI. Connector plates are manufactured in accordance with TPI. Connector plates are manufactured in accordance with TPI. Connector plates are manufactured in accordance with TPI. Connector plates are manufactured in accordance with TPI.

Lumber: Lumber must have a grade mark from an approved inspection bureau and must be equal to or better than the grade specified. Lumber must have a grade mark from an approved inspection bureau and must be equal to or better than the grade specified. Lumber must have a grade mark from an approved inspection bureau and must be equal to or better than the grade specified. Lumber must have a grade mark from an approved inspection bureau and must be equal to or better than the grade specified. Lumber must have a grade mark from an approved inspection bureau and must be equal to or better than the grade specified.



IMPORTANT: READ ALL NOTES ON THIS DRAWING!

11
FEB 7, 1990 F3-19F

WARNING- VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.
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13 7
REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE #59521 (NM) F
FEB 7, 1990 F3-19F

SPAN (OUT TO OUT) 13.167
NO. OF JOINTS 5
LOC. OF REACTIONS 1 4
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15
TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.

TRUSS GEOMETRY AND LOAD DATA	VERTICAL	VERTICAL
JT HOR.DISP. VER.DISP. SLOPE/12	UNIF.ID.	CONC.ID.
FT	PLF	LBS
1 6.5513	7.0000	-70.00
2 6.6153	7.0000	-70.00
3 0.0000	-92.1667	-70.00
4 -6.6153	0.0000	-60.00
5 -6.5513	0.0000	-60.00

TOTAL POSITIVE DISPLACEMENT= 13.17

NO. OF WEBS= 2
2- 5 2- 4

GROSS REACTIONS (LBS):
RV-1= 949.2 RV-4= 855.8
RH-1= 0.0

MEM	FORCE	WTD	DEP	FB	FC:FT	Q	P/AF	VM/ZF	HM/ZF	CSI	IAT.
	LBS	IN.	IN.	PSI	PSI						BRC
TOP CHORD MEMBERS											
1- 2	-816.	1.50	3.50	1879	1007	0.90	0.15	0.64	0.00	0.79	0.0
2- 3	0.	1.50	3.50	2013	1035	0.90	0.00	0.60	0.00	0.60	0.0
3- 4	-221.	1.50	3.50	718	425	1.00	0.10	0.00	0.00	0.10	6.0
BOT CHORD MEMBERS											
4- 5	704.	1.50	3.50	2013	1035	1.00	0.13	0.61	0.00	0.73	10.0
5- 1	704.	1.50	3.50	2013	1035	1.00	0.13	0.61	0.00	0.73	10.0
WEB MEMBERS											
2- 5	377.	1.50	3.50	633	374	0.00	0.19	0.00	0.00	0.19	3.8
2- 4	-814.	1.50	3.50	1783	201	0.00	0.77	0.00	0.00	0.77	7.6

DEFLECTION AT 5 = -0.0333 INCHES
DEFLECTION BETWEEN 4- 5 = -0.1855 INCHES

EXPLANATIONS:

P/AF - AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.
VM/ZF - VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
HM/ZF - HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
CSI - COMBINED STRESS INTERACTION EQUATION IS THE ADDITION OF P/AF + VM/ZF + HM/ZF
IAT. - MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REQUIREMENT OF BRACING SUPPORT.
BRC - STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE.

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 4	NO.2 KD15 SO. PINE
3- 4	2X 4	NO.3 S.P.F.
4- 1	2X 4	NO.2 KD15 SO. PINE
WEBS	2X 4	NO.3 S.P.F.
2- 5		
WEBS	2X 4	NO.2 KD15 SO. PINE
2- 4		



7 F3-19E
CALC. BY: 8/16
JT LTB

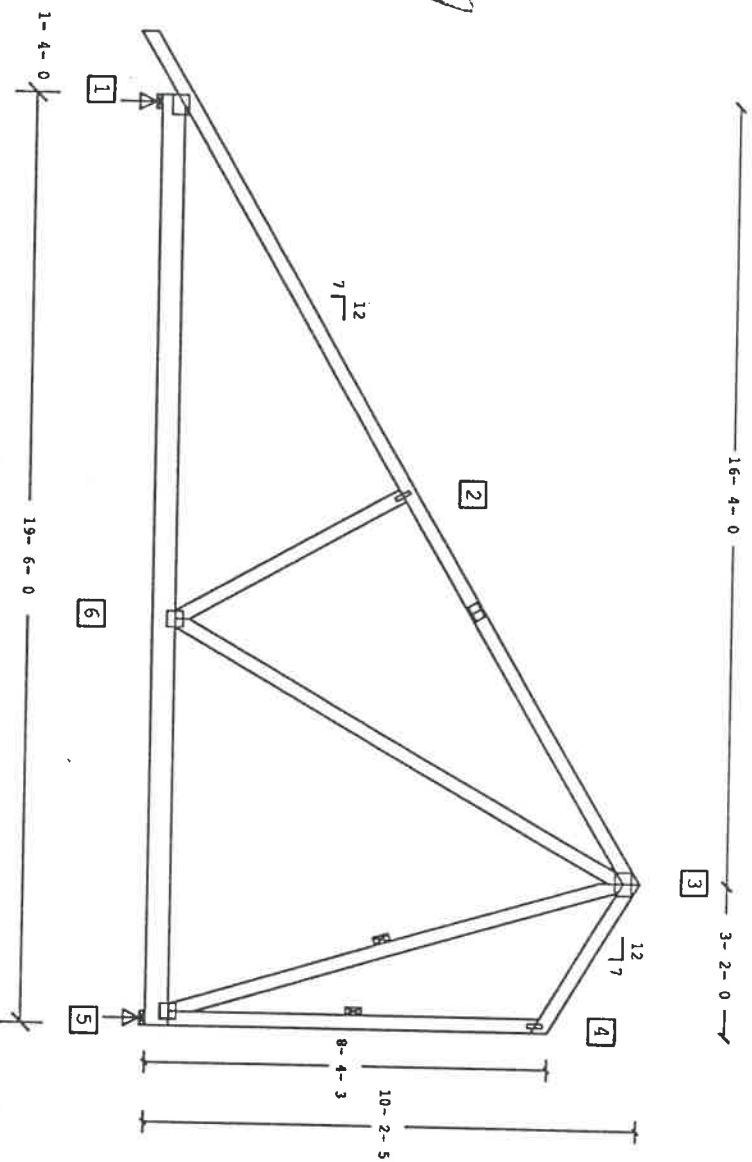
MEMBER	W	LEN	Y	X (MEMBER)
1 HUB1 GNO20	4.0X 5.0	2.50	0.00	(6-1)
2 IN11 GNO20	1.0X 4.0			
3 PR12 GNO20	4.0X 6.0			
4 CR11 GNO20	1.0X 4.0			
5 CR02 GNO20	4.0X 4.0			
6 IN02 GNO20	4.0X 4.0			

DESIGN SPECS. FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, FEB, 1985

MEMBER FORCE (LBS) C H O R D S HOR DISP FT-IN-SX SLOPE/12 DEPTH IN LOAD UNBRACED BOT. CH. LEN. = 10.0 FT. MAXIMUM MEMBER FORCE (LBS) W B S S CONC LOAD LBS CHORDS SIZE LUMBER DESCRIPTION DESIGN CRITERIA

NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE NAIL TO TRUSS MEMBERS WITH MINIMUM OF 2-10D COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING, BY OTHERS.

MAIL VALUES (PSI) GROSS CHORDS WEBS MAX MIN 228 140 190 140 LEFT OVERHANG = 1-4-0



Handing & Erection

Miscellaneous Information

Bracing Information

Connector Hardware

Lumber

Caution: Handling of components shall not be permitted. Temporary bracing of components shall not be permitted. Plans and for retaining lateral bracing shall be provided by others. No loads are to be applied to the component. At no time shall loads greater than design loads be applied to the component. Care must be exercised to install component in proper bearing and property braced. Read all notes hereon and obtain approval of the designer of the component. When using GANG NAIL SYSTEMS, Inc. elements to control and accept responsibility for the fabrication, handling, shipment and installation of components.

The data sheet and the information hereon is the property of Gang Nail Systems, Inc. and is not to be copied in whole or in part or used for any other purpose without the written consent of Gang Nail Systems, Inc. The use of this component shall be specified by the designer of the complete structure.

Many code requirements, approvals and instructions from the designer of the complete structure above does not meet local building code requirements. GANG NAIL SYSTEMS, Inc. is not responsible for the design of the complete structure. When using GANG NAIL SYSTEMS, Inc. elements to control and accept responsibility for the fabrication, handling, shipment and installation of components.

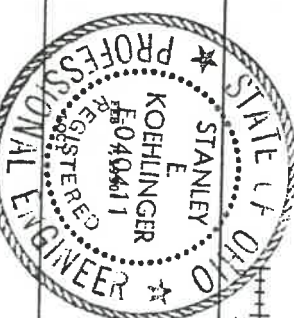
All bracing specified is for bracing individual members and not for bracing the entire truss. Where bracing is required, it shall be provided by the designer of the complete structure.

Connector plates are manufactured in accordance with the specifications of the lumber which they are used. Refer to the AutoTens joint detail for details of joint types and dimensions shown.

Lumber must have a grade mark from an approved lumber source and must be of the same grade and species as shown and equal to or better than the grade specified.

The design and the materials specified are in accordance with the latest revision of NDS, AITC and TR.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!



90/02/07
15:30:17

1189g-59521.ans

11
FEB 7,1990 F3-19F

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13 7
REQUEST NO. CALCONIX QUOTE WOLOHAN DEFANCE #59521 (NM) G
FEB 7,1990 F3-19F

SPAN (OUT TO OUT) 19.500

NO. OF JOINTS 6

LOC. OF REACTIONS 1 5

SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15

TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.

TRUSS GEOMETRY AND LOAD DATA

JT	HOR.DISP.	VER.DISP.	VERTICAL	VERTICAL
FT	SLOPE/12	UNIF.ID.	CONC.ID.	PL.F
1	8.2775	7.0000	-70.00	-93.33
2	8.0558	7.0000	-70.00	0.00
3	3.1667	-7.0000	-70.00	0.00
4	0.0000	-92.1667	0.00	0.00
5	-8.5372	0.0000	-60.00	0.00
6	-10.9628	0.0000	-60.00	0.00

TOTAL POSITIVE DISPLACEMENT= 19.50

NO. OF WEBS= 3
2- 6 3- 6 3- 5

GROSS REACTIONS (LBS):
RV-1= 1360.8 RV-5= 1267.5
RH-1= 0.0

MEM FORCE MID DEP FB FC:FT Q P/AF VM/ZF HM/ZF CSI LAT. BRC
LBS IN. IN. PSI PSI

TOP CHORD MEMBERS

1- 2	-1249.	1.50	3.50	2415	1668	0.90	0.14	0.75	0.00	0.89	0.0
2- 3	-880.	1.50	3.50	2415	1668	0.90	0.11	0.75	0.00	0.86	0.0
3- 4	0.	1.50	3.50	2415	1208	0.95	0.00	0.13	0.00	0.13	0.0
4- 5	-108.	1.50	3.50	735	437	0.95	0.05	0.00	0.00	0.05	6.0

BOT CHORD MEMBERS

5- 6	290.	1.50	5.50	2185	1173	1.00	0.03	0.50	0.00	0.53	10.0
6- 1	1079.	1.50	5.50	2185	1173	1.00	0.11	0.50	0.00	0.61	10.0

WEB MEMBERS

2- 6	-479.	1.50	3.50	633	288	0.00	0.32	0.00	0.00	0.32	5.5
3- 6	1132.	1.50	3.50	633	374	0.00	0.58	0.00	0.00	0.58	10.9
3- 5	-921.	1.50	3.50	633	223	0.00	0.79	0.00	0.00	0.79	5.0

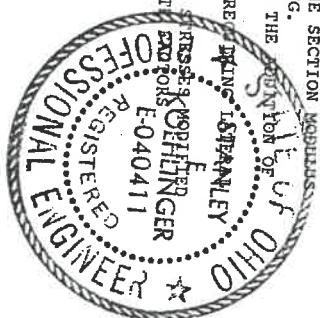
DEFLECTION AT 6 = -0.0720 INCHES
DEFLECTION BETWEEN 1- 6 = -0.3861 INCHES

EXPLANATIONS:

P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.
VM/ZF = VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE BENDING MOMENT IN BENDING.
HM/ZF = HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
CSI = COMBINED STRESS INTERACTION EQUATION IS THE SECTION MODULUS P/AF + VM/ZF + HM/ZF
LAT. = MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REQUIRING STRAPLEY SUPPORT.
STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE WHEREVER APPLICABLE.

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 4	NO.1 KD15 SO. PINE
3- 4	2X 4	NO.1 KD15 SO. PINE
4- 5	2X 4	NO.3 S.P.F.
5- 1	2X 6	MSR1650F-1.5E S.P.F.

ALL WEBS 2X 4 NO.3 S.P.F.



MEMBER	FORCE (LBS)	HOR DISP (IN)	SLOPE/12	LOAD (PLF)	MAXIMUM UNBRAC. LENGTH (FT)	MEMBER PR-TO	W E B S	FORCE (LBS)
1-2	7123C	5-3-0	9.000	70.0	3.5	2-8	296T	
2-3	4804C	4-10-12	9.000	70.0	4.2	2-7	2001C	
3-4	4804C	4-10-12	-9.000	70.0	4.2	3-7	5432T	
4-5	7123C	5-3-0	-9.000	70.0	3.5	4-7	2001C	
5-6	6597T	5-3-0	-7.000	60.0	10.0	4-6	296T	
6-7	6597T	4-10-12	-7.000	60.0	10.0			
7-8	6597T	4-10-12	7.000	60.0	10.0			
8-1	6597T	5-3-0	7.000	60.0	10.0			

MAX. PURLIN SPACE= 3.5 FT. , MAX. UNBRACED BOT. CH. LEN. = 10.0 FT.

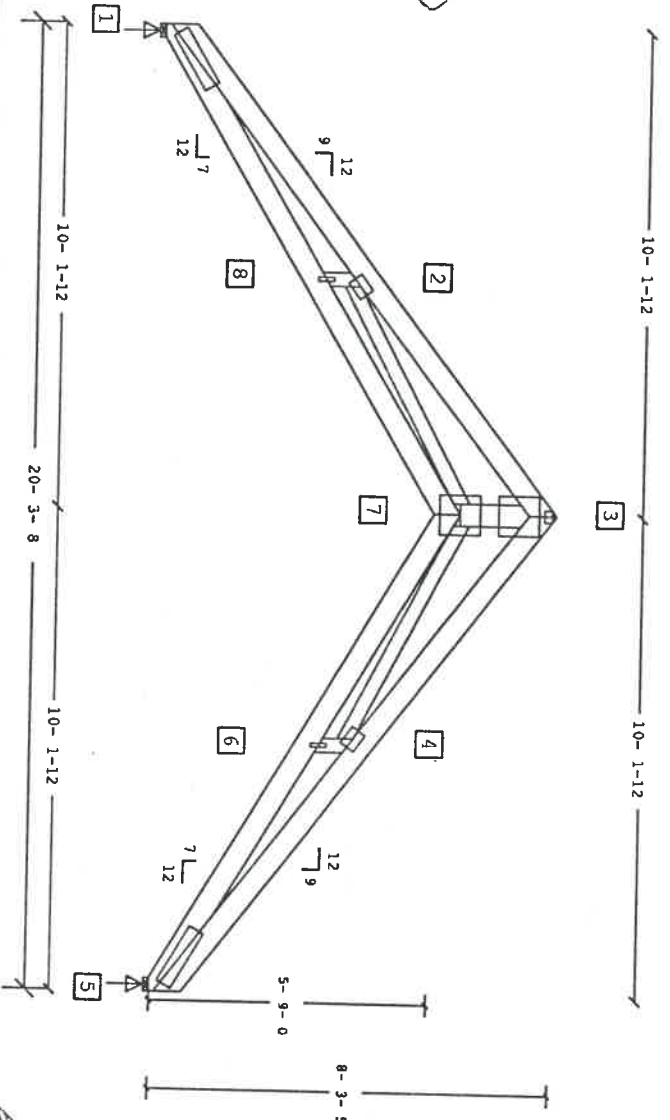
NOTE: LATERAL BRACES AND PURLINS INDICATED FOR TRUSS MEMBERS ARE REQUIRED TO REDUCE BUCKLING LENGTH OF MEMBER, AND SHOULD BE NAILED TO TRUSS MEMBERS WITH MINIMUM OF 2-1/2" COMMON WIRE NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING. BY OTHERS.

THIS TRUSS IS DESIGNED TO SUPPORT VERTICAL LOADS AS DETERMINED BY OTHERS AND SHOWN ON INPUT LISTING. VERIFICATION OF LOADING, DEFLECTION LIMITATIONS, FRAMING METHODS, WIND BRACING OR OTHER LATERAL BRACING THAT IS ALWAYS REQUIRED, IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT OR ENGINEER.

DESIGN CRITERIA
 TOP CH. L_t= 25 PSF
 BOT CH. L_t= 20 PSF
 TOTAL LOAD= 65 PSF
 SPACING= 24 IN. C/C
 INPUT DEFL. L/360
 INCREASES (PER CENT)
 LUMBER= 15
 TCH L_t= 15
 BOH L_t= 15
 NAIL VALUES (PSI) GROSS
 CHORDS WRS
 MAX MIN
 GNO20 228 140 228 140

ALLOW FOR HORIZONTAL DISPLACEMENT AT ONE OF THE SUPPORTS
 1.242"

96-5060-3



ITEM	DESCRIPTION	QTY	UNIT
1	GROSS BRG	1	
2	REACT IN-SX	3	
3	REACT IN-SX	8	
4	REACT IN-SX	9	

Handling & Erection

Miscellaneous Information

Bracing Information

Connector Hardware

Lumber

Caution handling of components shall not be permitted. Temporary and permanent bracing for holding component in place and for resisting lateral forces shall be designed and provided for all bracing and lifting. Spacing to the component shall be greater than design loads be applied to the component. Care must be exercised to insure that all components are properly braced, tight, and properly braced. Field bracing shall be provided for all components. Field bracing shall be provided for all components. Field bracing shall be provided for all components.

This data sheet and the information herein is the property of Stark Truss Company. It is to be used for the design and construction of the truss only. It is not to be used for any other purpose. The designer of the complete structure shall be responsible for the design and construction of the truss. The designer of the complete structure shall be responsible for the design and construction of the truss.

All lateral bracing specified is for bracing individual web members and is to be applied to the web members. Lateral bracing shall be applied to the web members. Lateral bracing shall be applied to the web members.

Connector plates are manufactured in accordance with TPI. Plates must be installed on both ends of the member. Plates must be installed on both ends of the member. Plates must be installed on both ends of the member.

Lumber must bear a grade mark. Lumber must bear a grade mark. Lumber must bear a grade mark. Lumber must bear a grade mark.

IMPORTANT: READ ALL NOTES ON THIS DRAWING!



90/02/07
15:30:17

1 189q-59521.ans

4

11
FEB 7, 1990 F3-19F

WARNING- VERIFY YOUR INPUT TO AVOID DESIGN AND FABRICATION MISTAKES.
YOU ARE SOLELY RESPONSIBLE FOR ERRORS RESULTING FROM WRONG INPUT

REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE #59521 (NM)
GANG NAIL SYSTEMS INC. COPYRIGHT 1988.
ALL RIGHTS RESERVED. AUTOTRUS

LUMBER HAS BEEN UPGRADED DUE TO DEFLECTION.

13 7
REQUEST NO. CALCONLY QUOTE WOLOHAN DEFIANCE #59521 (NM) C
FEB 7, 1990 F3-19F

SPAN (OUT TO OUT) 20.292
NO. OF JOINTS 8
LOC. OF REACTIONS 1 5
SHORT TERM INCREASE TCH 1.15 BCH 1.15 WEBS 1.15 PLATES 1.15
TOP CHORD LOAD SHARE = 15 BOTTOM CHORD LOAD SHARE = 15

PLYWOOD SHEATHING USED ON TOP CHORD WHERE APPLICABLE.

TRUSS GEOMETRY AND LOAD DATA	VERTICAL	UNIF.LD.
JT HOR.DISP. FT.	VER.DISP. SLOPE/12	
1	5.2481	9.0000
2	4.8977	9.0000
3	4.8977	-9.0000
4	5.2481	-9.0000
5	-5.2481	-7.0000
6	-4.8977	-7.0000
7	-4.8977	7.0000
8	-5.2481	7.0000

TOTAL POSITIVE DISPLACEMENT= 20.29

NO. OF WEBS= 5
2- 8 2- 7 3- 7 4- 7 4- 6

GROSS REACTIONS(LBS):
RV- 1= 1319.0 RV- 5= 1319.0
RH- 1= 0.1

MEM	FORCE LBS	MID IN.	DEP IN.	FB PSI	FC:FT PSI	Q	P/AF VM/2F HM/2F	CSI	LAT. BRC
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TOP CHORD MEMBERS

1- 2	-7123.	1.50	5.50	2641	1903	0.95	0.45	0.12	0.00	0.57	3.5
2- 3	-4804.	1.50	5.50	2680	1903	0.95	0.31	0.11	0.00	0.42	4.2
3- 4	-4804.	1.50	5.50	2680	1903	0.95	0.31	0.11	0.00	0.42	4.2
4- 5	-7123.	1.50	5.50	2641	1903	0.95	0.45	0.12	0.00	0.57	3.5
BOT CHORD MEMBERS											
5- 6	6597.	1.50	5.50	2990	2013	1.00	0.40	0.10	0.00	0.49	10.0
6- 7	6597.	1.50	5.50	2990	2013	1.00	0.40	0.10	0.00	0.49	10.0

7- 8	6597.	1.50	5.50	2990	2013	1.00	0.40	0.10	0.00	0.49	10.0
8- 1	6597.	1.50	5.50	2990	2013	1.00	0.40	0.10	0.00	0.49	10.0
WEB MEMBERS											
2- 8	296.	1.50	3.50	633	374	0.00	0.15	0.00	0.00	0.15	0.9
2- 7	-2001.	1.50	3.50	1783	420	0.00	0.91	0.00	0.00	0.91	5.3
3- 7	5432.	1.50	5.50	1898	1173	0.00	0.56	0.00	0.00	0.56	1.7
4- 7	-2001.	1.50	3.50	1783	420	0.00	0.91	0.00	0.00	0.91	5.3
4- 6	296.	1.50	3.50	633	374	0.00	0.15	0.00	0.00	0.15	0.9

DEFLECTION AT 7 = -0.9406 INCHES

EXPLANATIONS:

P/AF = AXIAL FORCE DIVIDED BY THE CROSS-SECTIONAL AREA AND THE ALLOWABLE UNIT STRESS IN TENSION OR COMPRESSION.
VM/2F = VERTICAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
HM/2F = HORIZONTAL BENDING MOMENT DIVIDED BY THE SECTION MODULUS AND THE ALLOWABLE UNIT STRESS IN BENDING.
CSI = COMBINED STRESS INTERACTION EQUATION IS THE ADDITION OF P/AF + VM/2F + HM/2F
LAT. = MAXIMUM DISTANCE ALLOWABLE (FT) WITHOUT REQUIRING BRG SUPPORT.
STRESSES SHOWN (FB FT FC) ARE ALLOWABLE LUMBER STRESSES BY THE SHORT TERM INCREASE AND OTHER APPROPRIATE FACTORS WHEREVER APPLICABLE.

CHORDS	SIZE	LUMBER DESCRIPTION
1- 3	2X 6	MSR2100F-1.8E S.P.F.
3- 5	2X 6	MSR2100F-1.8E S.P.F.
5- 7	2X 6	MSR 2250F-1.9E SO.P.
7- 1	2X 6	MSR 2250F-1.9E SO.P.
WEBS	2X 4	NO.3 S.P.F.
2- 8	4- 6	
WEBS	2X 4	NO.2 KD15 SO. PINE
2- 7	4- 7	
WEBS	2X 6	MSR1650F-1.5E S.P.F.
3- 7		



