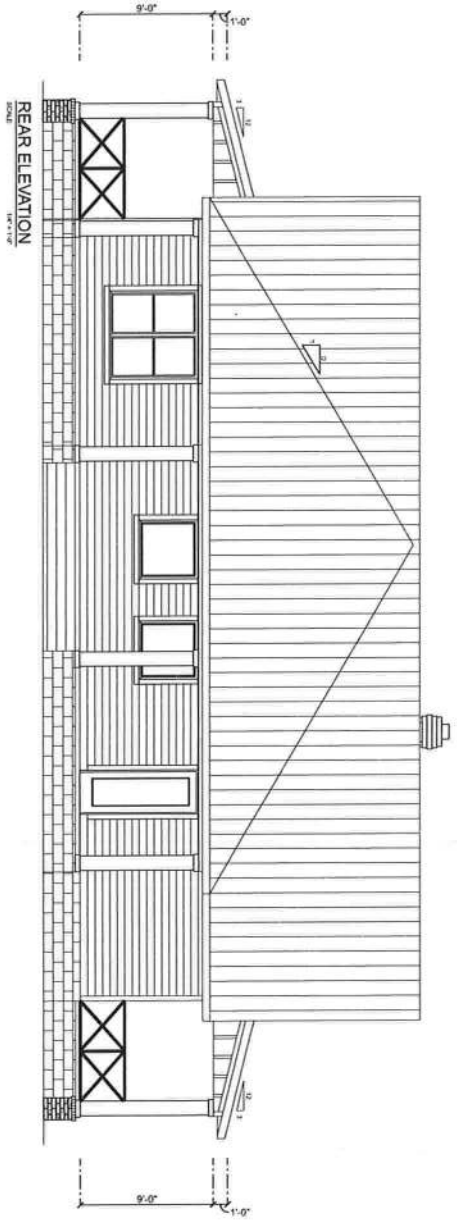
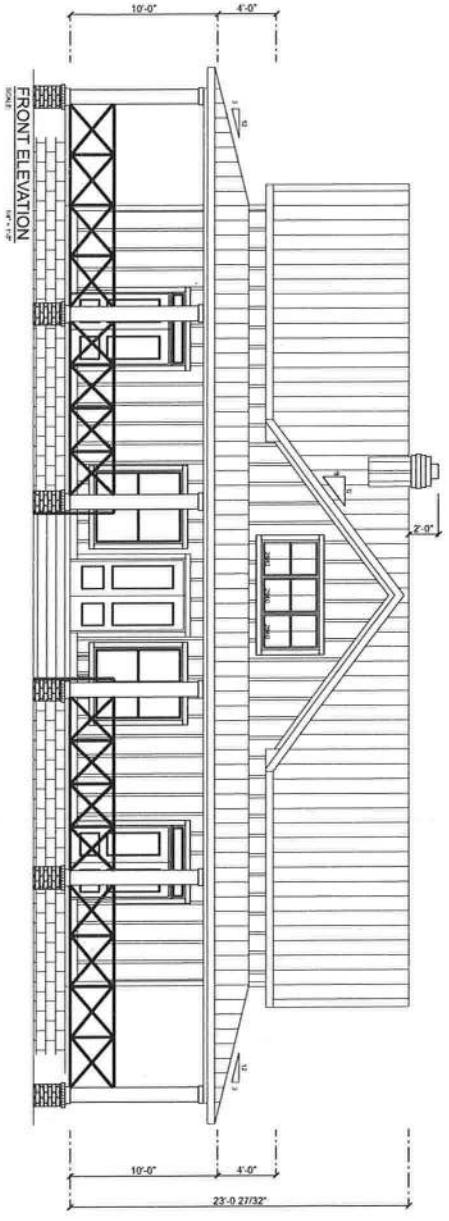
73



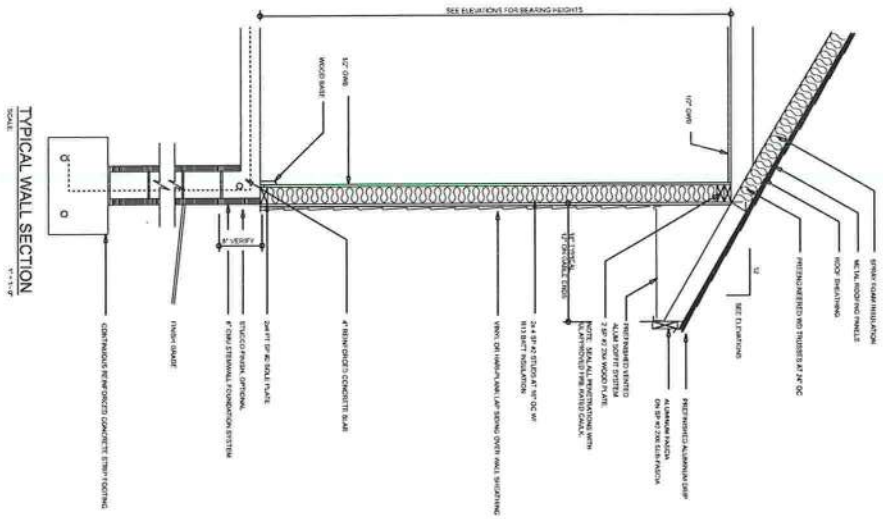


SHEET NUMBER A.1 OF 4 SHEETS

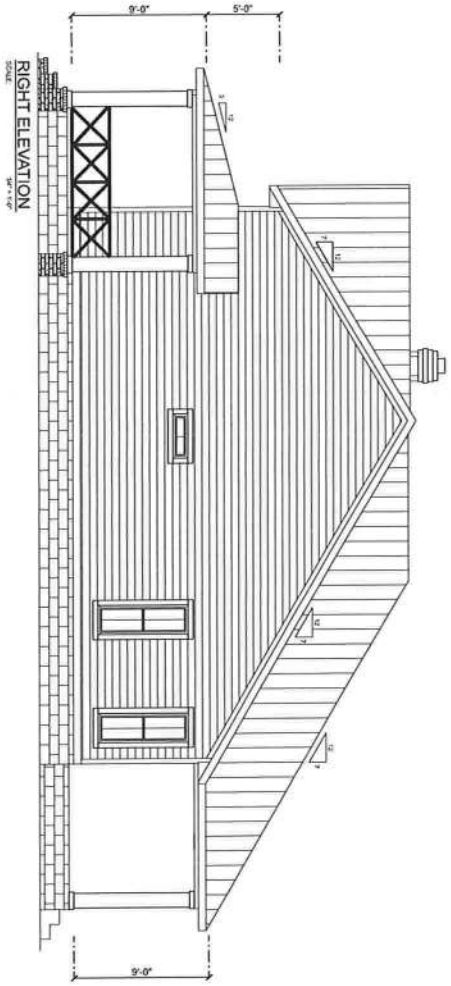
RIDGEPOINT DESIGN
818 WEST DUVAL STREET. LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

NEW PROPOSAL FOR:
YATES RESIDENCE
COLUMBIA COUNTY, FL

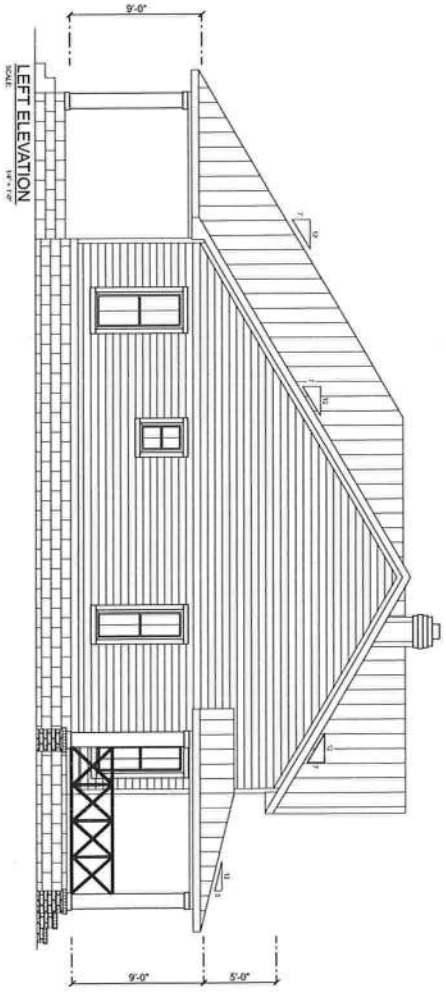
REVISIONS SCHEDULE	
Mar. 6th, 2023	PROPOSAL
Mar. 20th, 2024	REVISIONS



TYPICAL WALL SECTION
SCALE



RIGHT ELEVATION
SCALE



LEFT ELEVATION
SCALE

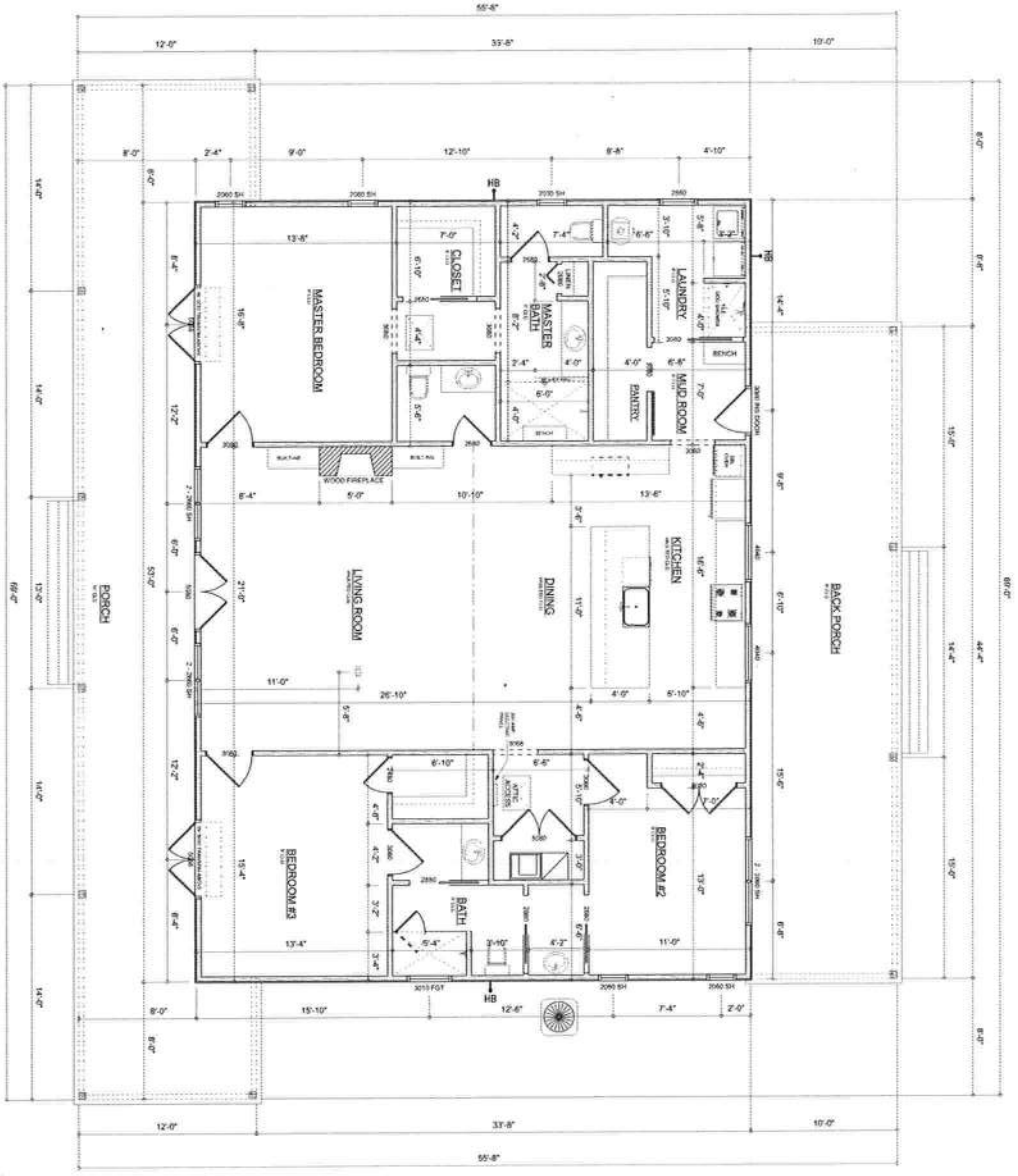
SHEET NUMBER
A.2
OF 4 SHEETS

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

NEW PROPOSAL FOR:
YATES RESIDENCE
COLUMBIA COUNTY, FL

REVISIONS SCHEDULE	
Mar. 6th, 2023	PROPOSAL
Mar. 20th, 2024	REVISIONS

DIMENSIONED FLOOR PLAN



AREA SUMMARY

HEATED & COOLED	1,996 S.F.
BACK PORCH	443 S.F.
WRAP AROUND PORCH	616 S.F.
GRAND TOTAL	3,055 S.F.

SHEET NUMBER A.3 OF 4 SHEETS

RIDGEPOINT DESIGN
518 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

NEW PROPOSAL FOR:
YATES RESIDENCE
COLUMBIA COUNTY, FL

REVISIONS SCHEDULE	
Mar. 6th, 2023	PROPOSAL
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ELECTRICAL LEGEND		
ELECTRICAL	COUNT	SYMBOL
CEILING FAN	7	
CAN LIGHT 6inch	30	
PENDANT LIGHT	9	
ELECTRIC PANEL	1	
AC DISCONNECT	2	
CABLE TV OUTLET	4	
CARBON DETECTOR	2	
EXHAUST FAN	4	
FLOOR OULET DUPLEX	1	
OUTLET	40	
OUTLET 220v	4	
OUTLET GFI	10	
OUTLET WP	8	
STANDARD LIGHT	2	
SWITCH	23	
SWITCH 3 WAY	29	
VANITY BAR LIGHT - SMALL	4	
EXTERIOR SCONCE	2	
SMOKE DETECTOR	6	

ELECTRICAL PLAN NOTES:

INSTALLATION SHALL BE PER LATEST NATL ELECTRIC CODE.

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS

CONSULT WITH THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED

ALL SMOKE DETECTORS SHALL BE 120v W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS

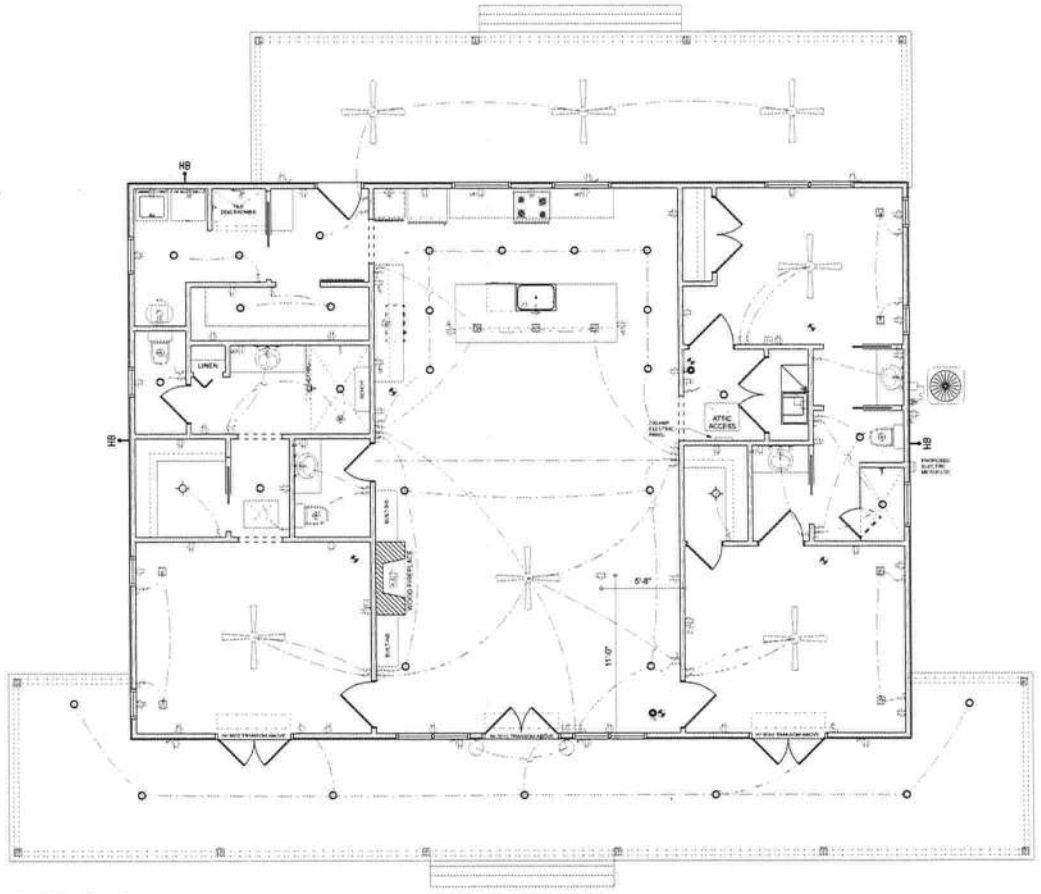
TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ALL RECEPTICALS, NOT OTHERWISE NOTED, SHALL BE ARC FAULT INTERRUPTER TYPE, EXCEPT DEDICATED OUTLETS

ALL RECEPTICALS IN WET AREAS SHALL BE GROUND FAULT INTERRUPTER TYPE (GFI)

ALL EXTERIOR RECEPTICALS SHALL BE WEATHERPROOF GROUD FAULT INTERRUPTER TYPE (WPIGFI)

NOTE
ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDING TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr. DESCRIPTION & BRKR. SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING / DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY



ELECTRICAL PLAN
SCALE 1/4" = 1'-0"

REVISIONS SCHEDULE	
Mar. 6th, 2023	PROPOSAL
Mar. 20th, 2024	REVISIONS

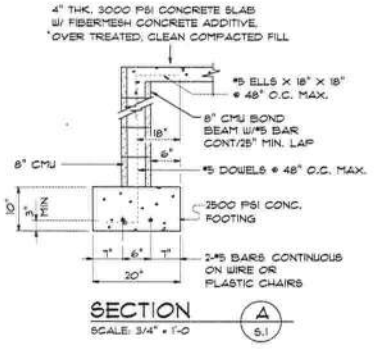
NEW PROPOSAL FOR:
YATES RESIDENCE
COLUMBIA COUNTY, FL

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

SHEET NUMBER
A.4
OF 4 SHEETS

CONCRETE / MASONRY / METALS GENERAL NOTES:

1. DESIGN SOIL BEARING PRESSURE: 1500 PSF.
2. EXPANSIVE SOILS: WHERE DIRECTED BY THE SOILS ENGINEER, SOIL AUGMENTATION PER THE SOILS ENGINEER'S SPECIFICATIONS SHALL BE IMPLEMENTED PRIOR TO PLACING ANY FOUNDATIONS - TESTS AS SPECIFIED SHALL BE PERFORMED TO DETERMINE THE SUITABILITY OF THE SUB-GRADE TO SUPPORT THE DESIGN LOADS.
3. CLEAN SAND FILL OVER STRIPPED AND COMPACTED EXISTING GD. SHALL BE PLACED IN 12" LIFTS, BOTH SUB-SOIL AND FILL COMPACTION SHALL BE NOT LESS THAN 98% AS MEASURED BY A MODIFIED PROCTOR TEST AT THE RATE OF ONE TEST FOR EACH 500 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.
4. REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE REQUIREMENTS OF ASTM A615. ALL BENDS SHALL BE MADE COLD.
5. WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A185 - MIN. YEILD STRESS = 65 KSI.
6. CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.
7. CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - F'm = 1500 PSI.
8. MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.
9. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH. BOLTS SHALL BE ASTM A307 / GRADE I OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.
11. DK4 PLT WOOD SILL CONT., ALL AROUND, W/ 5/8"ø A.B. W/ 3" SQ. X 1/4" PLATE WASHERS WITHIN 12" FROM EACH CORNER, EA. SIDE, & WITHIN 6" FROM ALL SILL OPENINGS / ENDS - 1/2"ø A.B. W/ 3" SQ. WASHERS ALONG EACH RUN @ 48" O.C. MAX. - ALL ANCHOR BOLTS SHALL HAVE A MINIMUM OF 8" EMBEDMENT INTO THE CONCRETE.



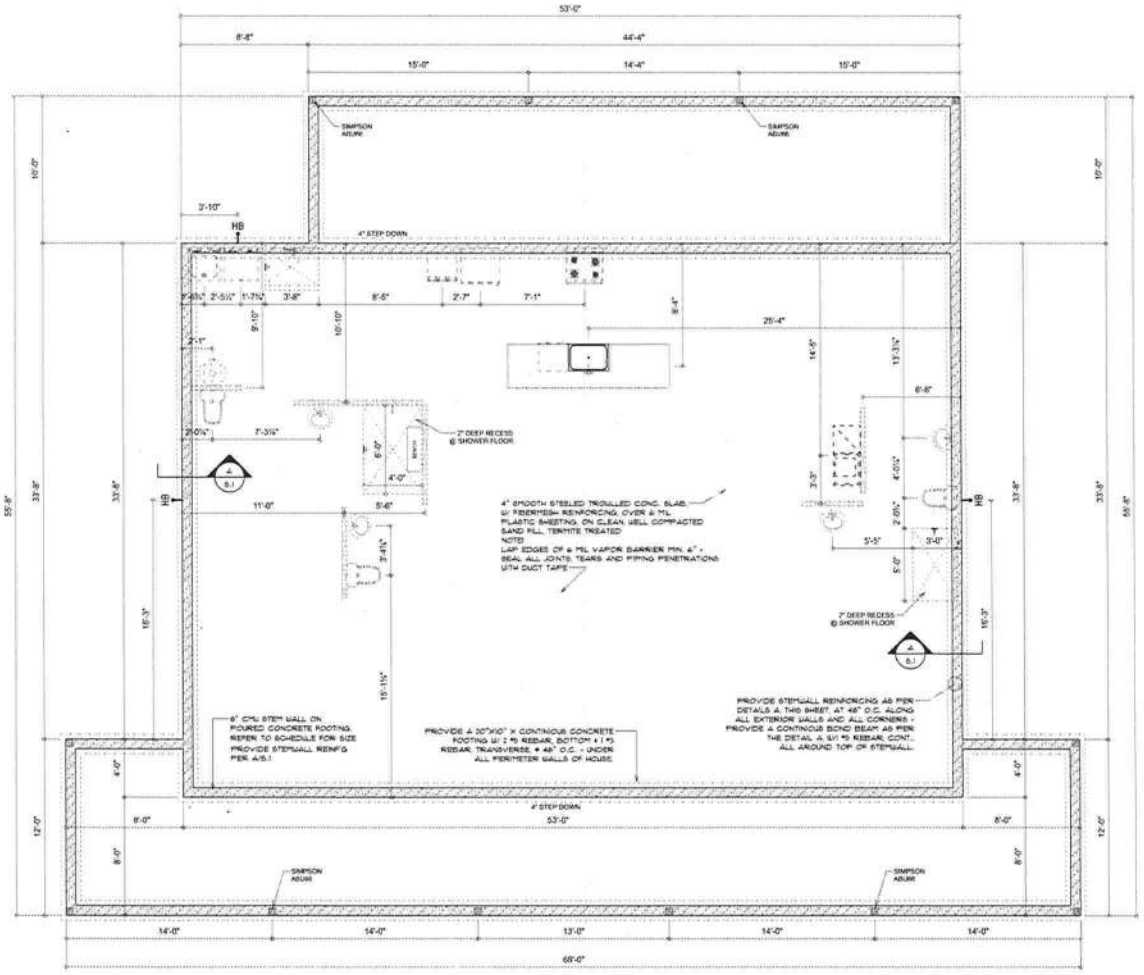
SECTION (A) S.1
SCALE: 3/4" = 1'-0

NOTE:
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

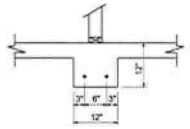
NOTE:
ADDED FILL SHALL BE APPLIED IN 8" LIFTS - EA. LIFT SHALL BE COMPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE:
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONT'R SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING REPORT - CONT'R SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



INTERIOR BEARING FT'G (B) S.1
SCALE: 3/4" = 1'-0

NOTE:
VERIFY INTERIOR BEARING WALLS WITH TRUSS MANUFACTURE DRAWINGS. USE DETAIL "B" THIS PAGE AT ALL INTERIOR BEARING LOC.

REVISIONS
Mar. 20th, 2024

NEW PROPOSAL FOR:
YATES RESIDENCE
COLUMBIA COUNTY, FL

NICHOLAS PAUL GEISLER ARCHITECT
1758 NW Brook Rd.
Lake City, FL 32055

SHEET NUMBER
S.1
OF 4 SHEETS

AR0007005

WOOD STRUCTURAL NOTES

1. TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SO ENGAGED. TEMPORARY & PERMANENT BRACING OF ROOF TRUSSES SHALL BE AS PER THE STANDARD GUIDELINES OF THE "TRUSS PLATE INSTITUTE".
2. ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER & SHALL BE SIGNED AND SEALED BY SAME. TRUSS DESIGN SHALL INCLUDE PLACEMENT PLANS, TRUSS DETAILS, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE "TRUSS PLATE INSTITUTE".
3. WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESS THAN No.2 HEM-FIR OR BETTER.
4. CONNECTORS FOR WOOD FRAMING SHALL BE GALVANIZED METAL OR BLACK METAL AS MANUFACTURED OR AS CALLED FOR IN THE PLANS AND BE OF A DESIGN SUITABLE FOR THE LOADS AND USE INTENDED. REFER TO THE JOINT REINFORCEMENT SCHEDULE FOR PRINCIPLE CONNECTIONS.

STANDARD HEADER SCHEDULE

0'-0" UP TO 6'-0" OPENINGS

DOUBLE 2x8 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON MSTA18 TOP AND 1 - SIMPSON SPH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND 1 FULL HEIGHT STUDS EACH SIDE OF OPENING

6'-0" UP TO 9'-0" OPENINGS

DOUBLE 2x12 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON MSTA24 TOP AND 2 - SIMPSON SPH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND 2 FULL HEIGHT STUDS EACH SIDE OF OPENING

9'-0" UP TO 16'-0" OPENINGS

DOUBLE 2x12 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 3 - SIMPSON MSTA18 EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING

16'-0" GARAGE DOOR OPENINGS

2 PLY 1¾" X 11 7/8" 2.0E MICRO=LAMM LVL HEADER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 3 - SIMPSON MSTA18 EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING

NOTE!
SHEATH ROOF W/ OSB or PLYWOOD PLACED W/ LONG DIMENSION PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING W/ 8d NAILS - AS PER DETAIL ON SHEET SD.4

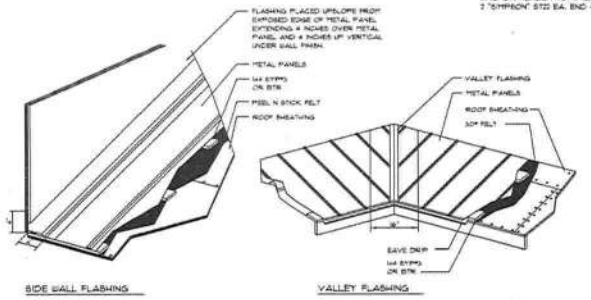
NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER FBC 6th ED AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL PENETRATIONS OF THE TOP PLATE OF ALL LOAD BEARING WALLS SHALL BE SEALED WITH FIRE RETARDANT CAULKING, INCLUDING WIRING, PLUMBING OR OTHER SUCH PENETRATIONS. WALLS OVER 9'-0" TALL SHALL HAVE CONTINUOUS BLOCKING TO LIMIT CAVITY HEIGHT TO 8'-0". PENETRATIONS THROUGH SUCH BLOCKING SHALL BE TREATED IN THE SAME MANNER AS TOP PLATES, NOTED ABOVE

NOTE!
ANCHOR GIRDER TRUSS(ES) TO HEADER WITH 2 "SIMPSON" LSTI3, 3 OR 4). ANCHOR HEADER TO KING STUDS W/ 2 "SIMPSON" ST22 EA. END - TYP. T.O.

GENERAL TRUSS NOTES:

1. TRUSSES SHALL BE DESIGNED BY A LICENSED ENGINEER AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE "NATIONAL FOREST PRODUCTS ASSOCIATION" MANUAL FOR "STRESS RATED LUMBER AND IT'S CONNECTIONS", LATEST Ed. ALONG W/ THE "TRUSS PLATE INSTITUTE" SUGGESTED GUIDELINES FOR TEMPORARY AND PERMANENT BRACING AND HANDLING OF TRUSSES. TRUSS SHOP DRAWINGS SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, DETS. & TRUSS TO TRUSS CONNECTIONS.
2. TRUSS SHOP DRAWINGS SHALL BE SIGNED & SEALED BY THE DESIGNING ENGINEER.
3. FOLLOWING DEVELOPMENT OF TRUSS SHOP DRAWINGS, ADJUSTMENTS TO THE ANCHOR REQUIREMENTS MAY BE REQUIRED DEPENDING ON THE ENGINEERED GRAVITY AND WIND UPLIFT REQUIREMENTS OF TRUSSES ON GIRDERS. THE CONTRACTOR SHALL MAKE AVAILABLE A COMPLETE SET OF TRUSS SHOP DRAWINGS TO THE ARCHITECT FOR THE PURPOSE OF REVIEW OF LOADS IMPOSED ON THE BALANCE OF THE STRUCTURE. ANY SUCH REQUIRED CHANGE SHALL BE INCORPORATED INTO THE CONSTRUCTION OF THIS STRUCTURE.



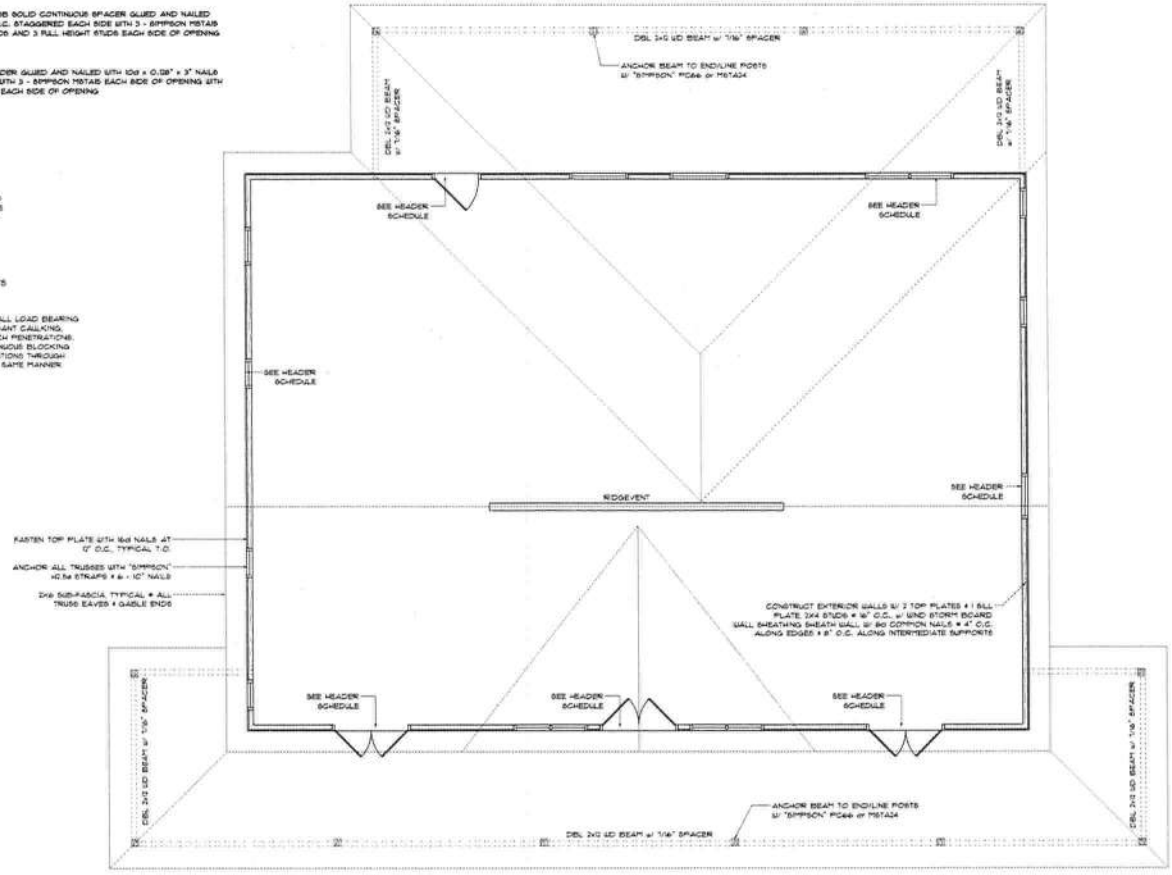
SIDE WALL FLASHING — VALLEY FLASHING

METAL ROOFING. DET.

SCALE: NONE

SM-RIB METAL ROOFING PANELS
ALTERNATE FASTENER SCHEDULE FOR VARIOUS WIND VELOCITIES
MANUFACTURER'S RECOMMENDED FASTENER SCHEDULE
FOR BUILDINGS W/ 30' MEAN ROOF HEIGHT, MIN. 3/12 PITCH
BASED ON ASCE 7-98, EXPOSURE "C"

ROOF ZONE	FASTENER TYPE	FASTENER SIZE	PLACEMENT TO	100 - 110 O/C SPACING	100 - 110 TRIM	120 - 130 O/C SPACING	120 - 130 TRIM	140 - 150 O/C SPACING	140 - 150 TRIM
1	WD. SCREW	#8 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	12"
	MTL. SCR.	#12 X 1"	< 18 GA	36"	18"	24"	12"	24"	12"
		#14 X 7/8"	> 18 GA						
2 & 3	WD. SCREW	#8 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	8"
	MTL. SCR.	#12 X 1"	< 18 GA	36"	18"	24"	12"	24"	8"
		#14 X 7/8"	> 18 GA						



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

ROOF PLAN NOTES

R-1 SEE ELEVATIONS FOR ROOF PITCH
R-2 ALL OVERHANG 16" (12" on gables) UNLESS OTHERWISE NOTED
R-3 PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH SCHEDULE ON SD.3
R-4 SEE EXTERIOR ELEVATIONS AND FLOOR PLANS TO VERIFY PLATE AND HEEL HEIGHTS
R-5 MOVE ALL VENTS AND OTHER ROOF PENETRATIONS TO REAR

REVISIONS
Mar. 20th, 2024

NEW PROPOSAL FOR:
YATES RESIDENCE
COLUMBIA COUNTY, FL

NICHOLAS PAUL GEISLER ARCHITECT
1784 NE Bloom Rd. Lake City, FL 32055

SHEET NUMBER
S.2
OF 4 SHEETS

AR0007005

General Roofing NOTES:

DECK REQUIREMENTS:
METAL PANELS MUST BE FASTENED TO 1x4 FURRING PURLINS OR 1/2" PLYWOOD

CAULKING:
MUST BE APPROVED BY THE MANUFACTURER. BUTYL SEALANT SUPPLIED IN TAPE OR GUN-GRADE FORM.

METAL PANEL:
METAL PANELS SHALL BE
MIN. 29 GUAGE AND COMPLY WITH ASTM A-792 AND D 1-98

FASTENERS:
FASTENERS FOR METAL PANELS SHALL BE GALVANIZED WOOD FAST SCREW, MINIMUM OF #9 X 1 1/2" HEX HEAD.

ATTACHMENT:
METAL PANELS SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN 24" O.C. WHERE ROOF IS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER. SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF METAL PANELS SHALL CONFORM WITH ASTM E 330 OR PA 125.

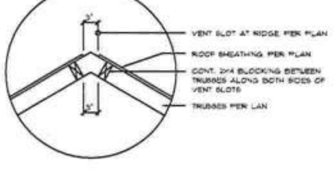
BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS.

1. RCH - RIDGE CAP
2. EDH - EAVE DRIP
3. EF-3 - EAVE FLASHING
4. SWH - SIDEWALL FLASHING
5. EWH - ENDWALL FLASHING
6. GR-4 - GABLE END OR RAKE BOARD FLASHING
7. TFH - TRANSITION FLASHING
8. PVG - PREFORMED VALLEY FLASHING
9. BUTYL TAPE
10. SEALANT TAPE
11. PIPEBOOT

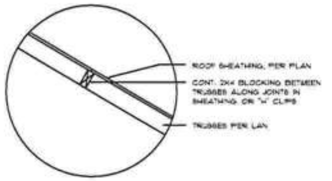
UNDERLAYMENT APPLICATION:
UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

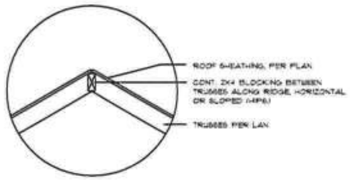
VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ROOFING MATERIAL. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:
1. OPEN VALLEYS LINED WITH METAL: THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.9.2.
2. OPEN VALLEYS: VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. CLOSED VALLEYS: VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE & COMPLYING WITH ASTM D 1970.



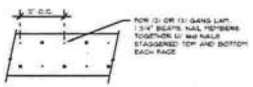
Vent DETAIL (A1)
SCALE: NONE



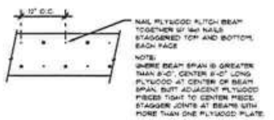
Joint DETAIL (A2)
SCALE: NONE



Ridge DETAIL (A3)
SCALE: NONE



MULTIPLE GANG LAM. DETAIL
NOT TO SCALE



PLYWOOD FLITCH BEAM DETAIL
NOT TO SCALE

B/U Beam DETAILS (B)
SCALE: NONE

FRAMING ANCHOR SCHEDULE

APPLICATION	MANUF'R/MODEL	CAP.
TRUSS TO WALL:	SIMPSON H2.5a or SDWC15600	600#
GIRDER TRUSS TO POST/HEADER:	SIMPSON LGT, W/ 28 - 16d NAILS	1785#
HEADER TO KING STUD(S):	SIMPSON ST22	1370#
PLATE TO STUD:	NO CONNECTION REQ. WHEN USING WINDSTORM BOARD	
STUD TO SILL:	NO CONNECTION REQ. WHEN USING WINDSTORM BOARD	
PORCH BEAM TO POST:	SIMPSON PC44 or (2) 5/8" LAG BOLTS EA. POST	1700#
PORCH POST TO FND.:	SIMPSON ABU44	2200#
MISC. JOINTS	SIMPSON A34	315#/240#

NOTE:
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:
REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

NOTE:
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:
"SEMCO" PRODUCT APPROVAL:
MIAMI/DADE COUNTY REPORT #95-0818.15

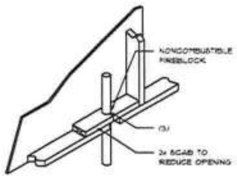
NOTE:
"SIMPSON" PRODUCT APPROVALS:
MIAMI/DADE COUNTY REPORT #97-0107.05, #96-1126.11, #95-0623.04
SBCCI NER-443, NER-393

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"
ROOF ANGLE 7° TO 27°

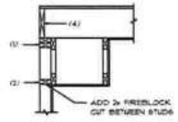
	ZONE	AREA	Vult 90 MPH	Vult 110 MPH	Vult 130 MPH	Vult 140 MPH
ROOF 7° TO 27°	1	10	12.5 / -19.9	14.9 / -23.7	17.5 / -27.8	20.3 / -32.3
	1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4
	1	50	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2
	2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2
	2	20	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7
	2	50	10.0 / -28.2	11.9 / -33.6	13.9 / -39.4	16.1 / -45.7
	3	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1
	3	20	11.4 / -47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7
	3	50	10.0 / -43.9	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
WALL	4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
	4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7
	4	50	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6
	5	10	21.8 / -29.1	25.9 / -34.7	30.4 / -40.7	35.3 / -47.2
	5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0
	5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	.82	1.21	1.47
20	.89	1.29	1.55
25	.94	1.35	1.61
30	1.00	1.40	1.66



PENETRATIONS



SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL MULTIFLEX SEALANT"
4. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS (A)
SCALE: NONE

FLORIDA BUILDING CODE
Compliance Summary

TYPE OF CONSTRUCTION
Roof: Gable Construction, Wood Trusses @ 24" O.C.
Walls: 2x4 Wood Studs @ 16" O.C.
Floor: 4" Thk. Concrete Slab W/ Fibermesh Concrete Additive
Foundation: Continuous Footer/Stem Wall

ROOF DECKING
Material: 1/2" CDX Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing
Fasteners: 10 RING SHANKED Nails per schedule on sheet S.4

SHEARWALLS
Material: 7/16" O.S.B. or WINDSTORM BOARD
Sheet Size: 48"x96" Sheets Placed Vertical
Fasteners: 10 COMMON Nails @ 4" O.C. Edges & 8" O.C. Interior
Dragstruts: Double Top Plate (S.Y.P.) W/16d Nails @ 12" O.C.
Wall Studs: 2x4 Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS
Truss Anchors: SIMPSON H2.5a @ Ea. Truss End (Typ. U.O.N.)
Wall Tension: Wall Sheathing Nailing is Adequate - 8d @ 4" O.C. Top & Bot.
Anchor Bolts: 1/2" A307 Bolts @ 48" O.C. - 1st Bolt 6" from corner
Corner Hold-down Device: (1) HD5a @ each corner
Porch Column Base Connector: Simpson ABU66 @ each column
Porch Column to Beam Connector: Simpson MSTA30 (1 ea. side) or Simpson EPC66 or 2 - 5/8" thru bolts

FOOTINGS AND FOUNDATIONS
Footing: 20"x10" Cont. W/ 2 - #5 Bars Cont. on wire/plastic chairs @ 48" o.c.
Stemwall: 8" C.M.U. W/1-#5 Vertical Dowel @ 48" O.C.
Int. Footings: 12"x 12" x Cont. W/ 2 - #5 Bars Cont. on wire/plastic chairs @ 48" o.c.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2023 FLORIDA 8th EDITION BUILDING CODE - SECTION 1605 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE: "B"

BASED ON ANSI/ASCE 7-22, 2023 FBC 1609-A WIND VELOCITY: V_{ULT} = 130 MPH
V_{ASD} = 101 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS.......... 20 PSF
SUPERIMPOSED LIVE LOADS.......... 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS.......... 25 PSF
SUPERIMPOSED LIVE LOADS:
RESIDENTIAL .... 40 PSF
BALCONIES .... 60 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4
4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6".
EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3
8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4
9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6
12. ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. FBC 1816.1.7
13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY * LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7
14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

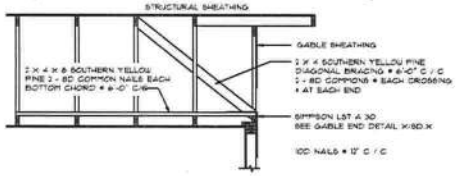
REVISIONS
Mar. 20th, 2024

NEW PROPOSAL FOR:
YATES RESIDENCE
COLUMBIA COUNTY, FL

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055

SHEET NUMBER
S.3
OF 4 SHEETS

AR0007005

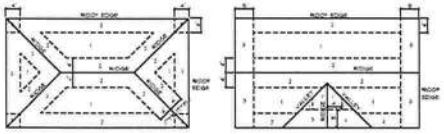


END WALL BRACING FOR CEILING DIAPHRAGM

NTS (ALTERNATIVE TO BALLOON FRAMING) **A**

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

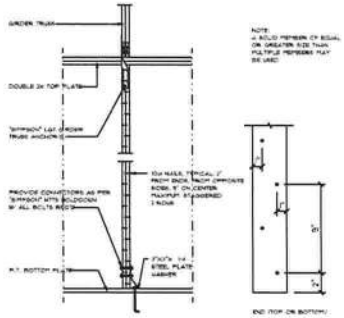
ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	7/16" O.S.B. OR 15/32 CDX	2 1/2"x0.131" RING SHANK NAILS OR 3"x0.120" RING SHANK NAILS	6" O.C. @ EDGE & 12" O.C. @ FIELD
2			6" O.C. @ EDGE & 12" O.C. @ FIELD
3			4" O.C. @ GABLE END WALL ON GABLE TRUSS & 6" O.C. @ EDGE & 12" O.C. @ FIELD



ROOF SHEATHING NAILING ZONES (HIP ROOF) ROOF SHEATHING NAILING ZONES (GABLE ROOF)

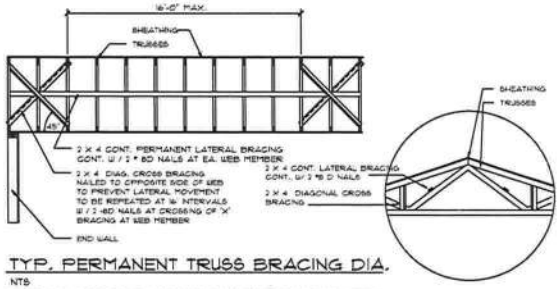
Roof Nail Pattern DET.

SCALE: NONE **B**



Girder Truss Column DET.

SCALE: 1/2" = 1'-0" **C**



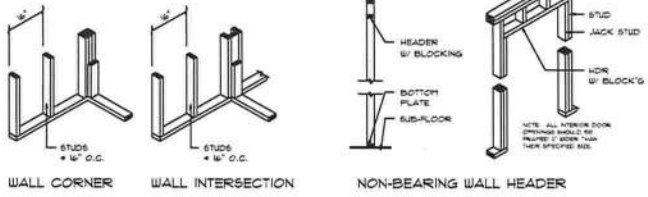
TYP. PERMANENT TRUSS BRACING DIA.

NTS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

Truss Bracing DETAILS

SCALE: AS NOTED **D**

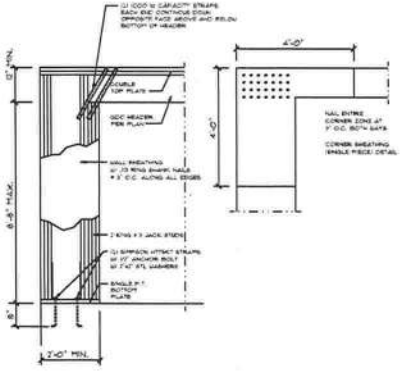


WALL CORNER WALL INTERSECTION NON-BEARING WALL HEADER

TYPICAL WINDOW HEADER BEARING WALL HEADER

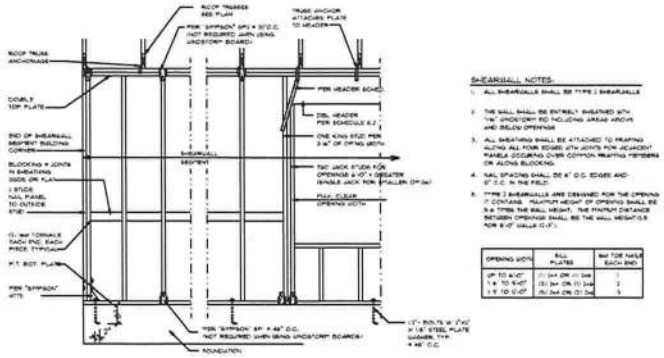
Wall Framing/Header DETAILS

SCALE: NONE **F**



Garage End Wall DETAILS

SCALE: 1/2" = 1'-0" **G**



Shear Wall DETAILS

SCALE: NONE **E**

REVISIONS
Mar. 20th, 2024

NEW PROPOSAL FOR:
YATES RESIDENCE
COLUMBIA COUNTY, FL

NICHOLAS PAUL GEISLER ARCHITECT
1156 NE Brown Rd. Lake City, FL 32055

SHEET NUMBER
S.4
OF 4 SHEETS

AR0007005

MiTek®

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 3975847 - FEAGIN - YATES RES.

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:
Customer Info: FEAGIN CONSTRUCTION Project Name: Yates Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 2183 SE October Road, N/A
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 38 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T33792878	CJ01	5/8/24	15	T33792892	T01G	5/8/24
2	T33792879	CJ01A	5/8/24	16	T33792893	T02	5/8/24
3	T33792880	CJ03	5/8/24	17	T33792894	T02G	5/8/24
4	T33792881	CJ03A	5/8/24	18	T33792895	T03	5/8/24
5	T33792882	CJ05	5/8/24	19	T33792896	T04	5/8/24
6	T33792883	CJ05A	5/8/24	20	T33792897	T05	5/8/24
7	T33792884	EJ01	5/8/24	21	T33792898	T06	5/8/24
8	T33792885	EJ02	5/8/24	22	T33792899	T07	5/8/24
9	T33792886	EJ02G	5/8/24	23	T33792900	T08	5/8/24
10	T33792887	HJ10	5/8/24	24	T33792901	T09	5/8/24
11	T33792888	HJ10A	5/8/24	25	T33792902	V01	5/8/24
12	T33792889	PB01	5/8/24	26	T33792903	V02	5/8/24
13	T33792890	PB01G	5/8/24	27	T33792904	V03	5/8/24
14	T33792891	T01	5/8/24	28	T33792905	V04	5/8/24

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2025.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 8,2024

MiTek®

RE: 3975847 - FEAGIN - YATES RES.

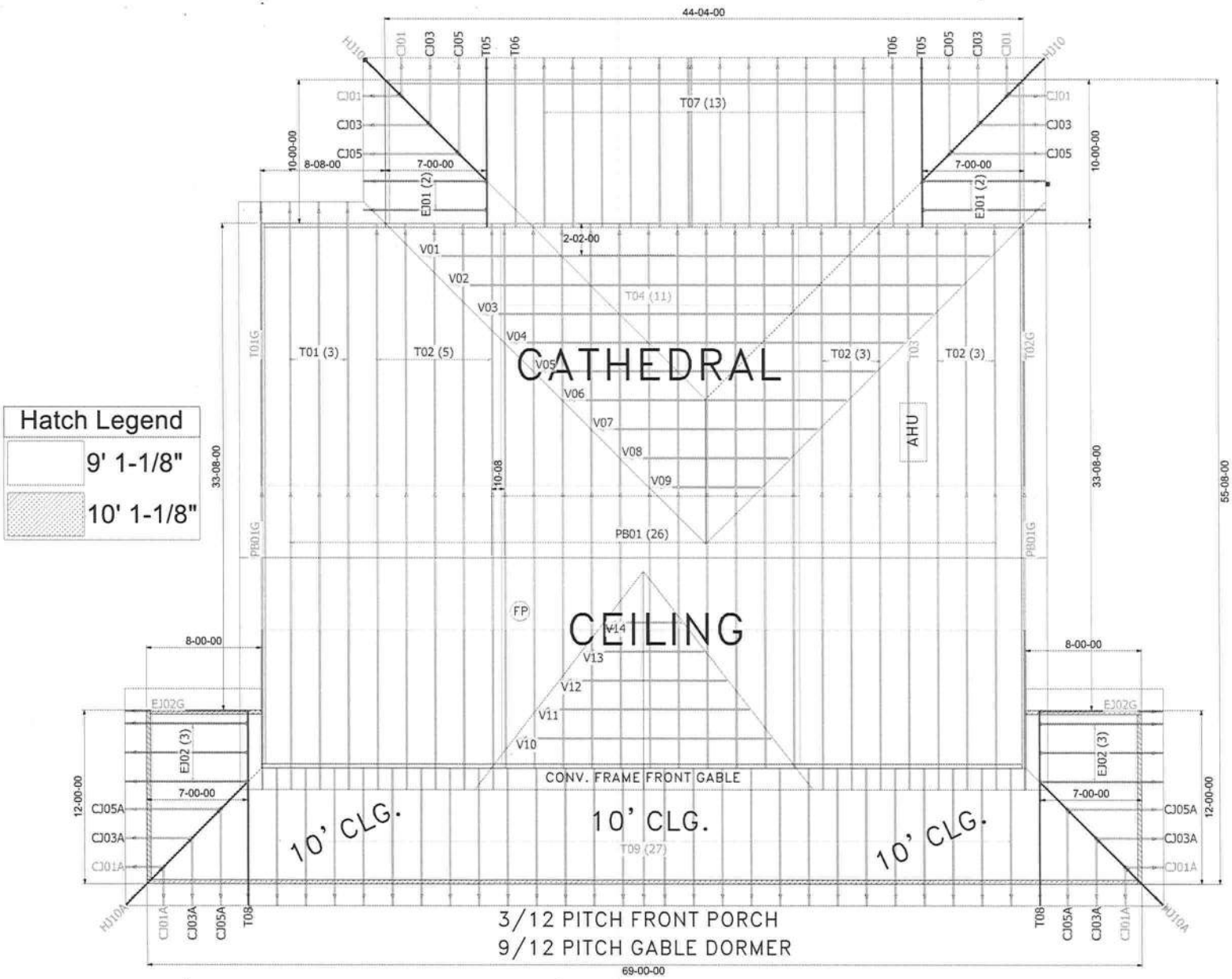
MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: FEAGIN CONSTRUCTION Project Name: Yates Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 2183 SE October Road, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T33792906	V05	5/8/24
30	T33792907	V06	5/8/24
31	T33792908	V07	5/8/24
32	T33792909	V08	5/8/24
33	T33792910	V09	5/8/24
34	T33792911	V10	5/8/24
35	T33792912	V11	5/8/24
36	T33792913	V12	5/8/24
37	T33792914	V13	5/8/24
38	T33792915	V14	5/8/24

7/12 PITCH – 18" O/H



Hatch Legend

9' 1-1/8"

10' 1-1/8"

MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.

General Notes:

- Per ANSI/TPI 1-2002 all "Truss to Wall" connectio are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.- Use 10d x 1 1/2" Nails in hanger connections to single p girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrosive to truss plates. Any ACQ lum that comes in contact with truss plates (i.e. scabbed on table) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of th proper orientation of the truss placement plans as to th construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builder FirstSource.

It is the responsibility of the Contractor to make sure t placement of trusses are adjusted for plumbing drops, - lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor truss below. The floor trusses have not been designed to car any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff i is solely to be used as an installation guide and does n require a seal. Complete truss engineering and analysi can be found on the truss design drawings which may sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusse may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans fo proper orientation and placement.

Builders FirstSource

Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder:
FEAGIN CONSTRUCTION

Legal Address:
Yates Res.

Model:
Custom

Date:	Drawn By:	Original Ref #:
4-9-24	KLH	397584
Floor 1 Job#:	Floor 2 Job#:	Roof Job #:
N/A	N/A	397584

Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792878
3975847	CJ01	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:04 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-Ki0c6mv?TZh0qsWxYtOkdqloKT3vqKfdh?lZBFzlsWb

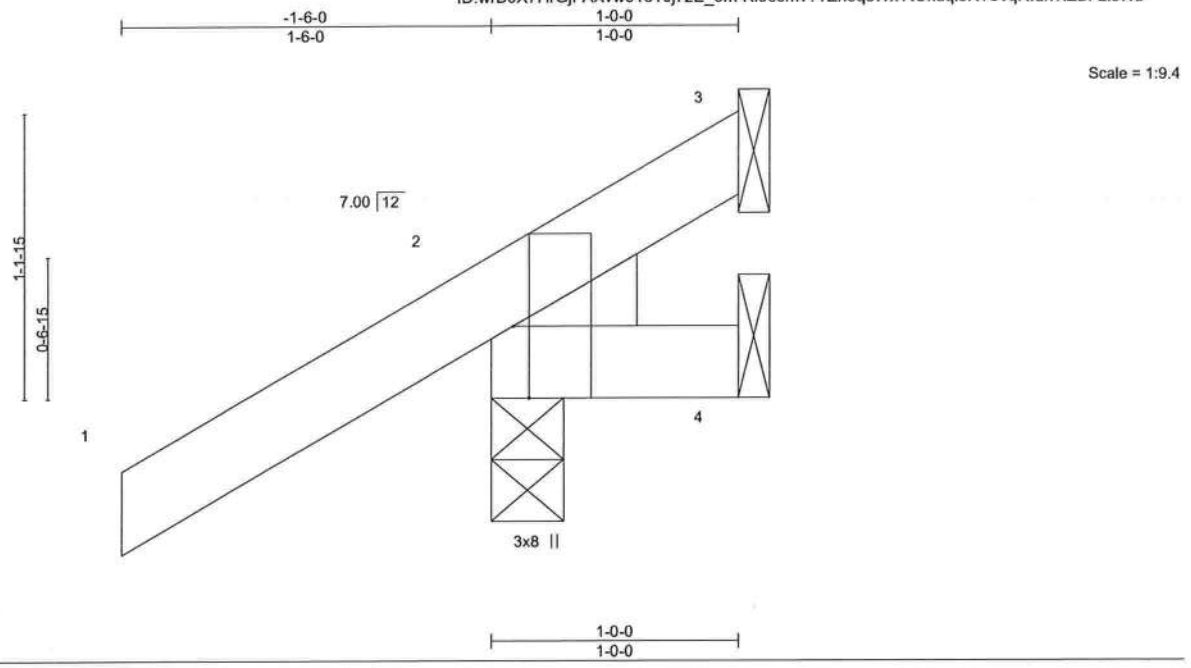


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=51(LC 12)
Max Uplift 3=-7(LC 1), 2=-70(LC 12), 4=-19(LC 19)
Max Grav 3=6(LC 16), 2=179(LC 1), 4=16(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 3, 70 lb uplift at joint 2 and 19 lb uplift at joint 4.

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Chesterfield, MO 63017
Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792879
3975847	CJ01A	JACK-OPEN	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:04 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-Ki0c6mv?TZh0qsWxYtOkdqlocT3qqKfdh?lZBFzIsWb

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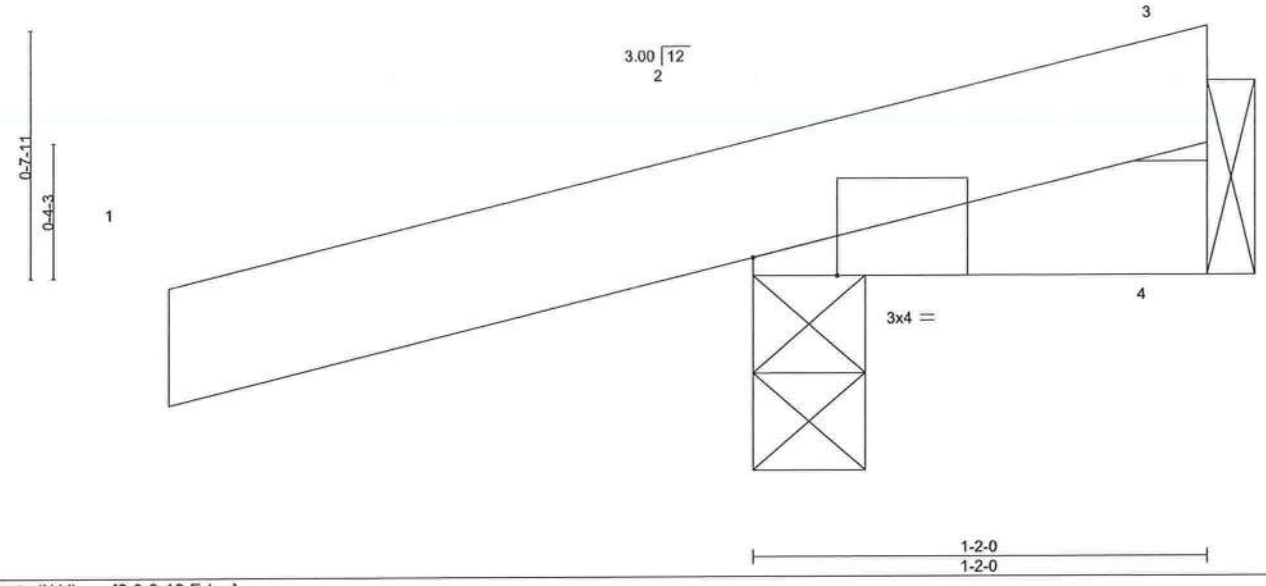

1-2-0 / 1-2-0

Plate Offsets (X,Y)-- [2:0-2-10,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=30(LC 8)
Max Uplift 2=-131(LC 8), 4=-16(LC 1)
Max Grav 2=176(LC 1), 4=21(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 2 and 16 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.
3975847	CJ03	Jack-Open	4	1	T33792880
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:05 2024 Page 1
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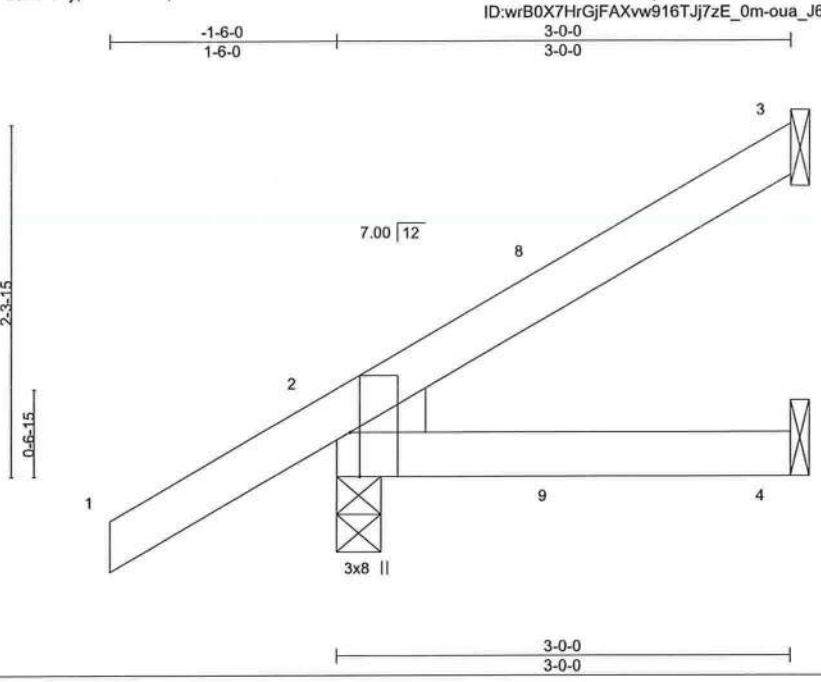

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-47(LC 12), 2=-58(LC 12), 4=-21(LC 9)
Max Grav 3=61(LC 19), 2=210(LC 1), 4=50(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3, 58 lb uplift at joint 2 and 21 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792881
3975847	CJ03A	Jack-Open	4	1	Job Reference (optional)	

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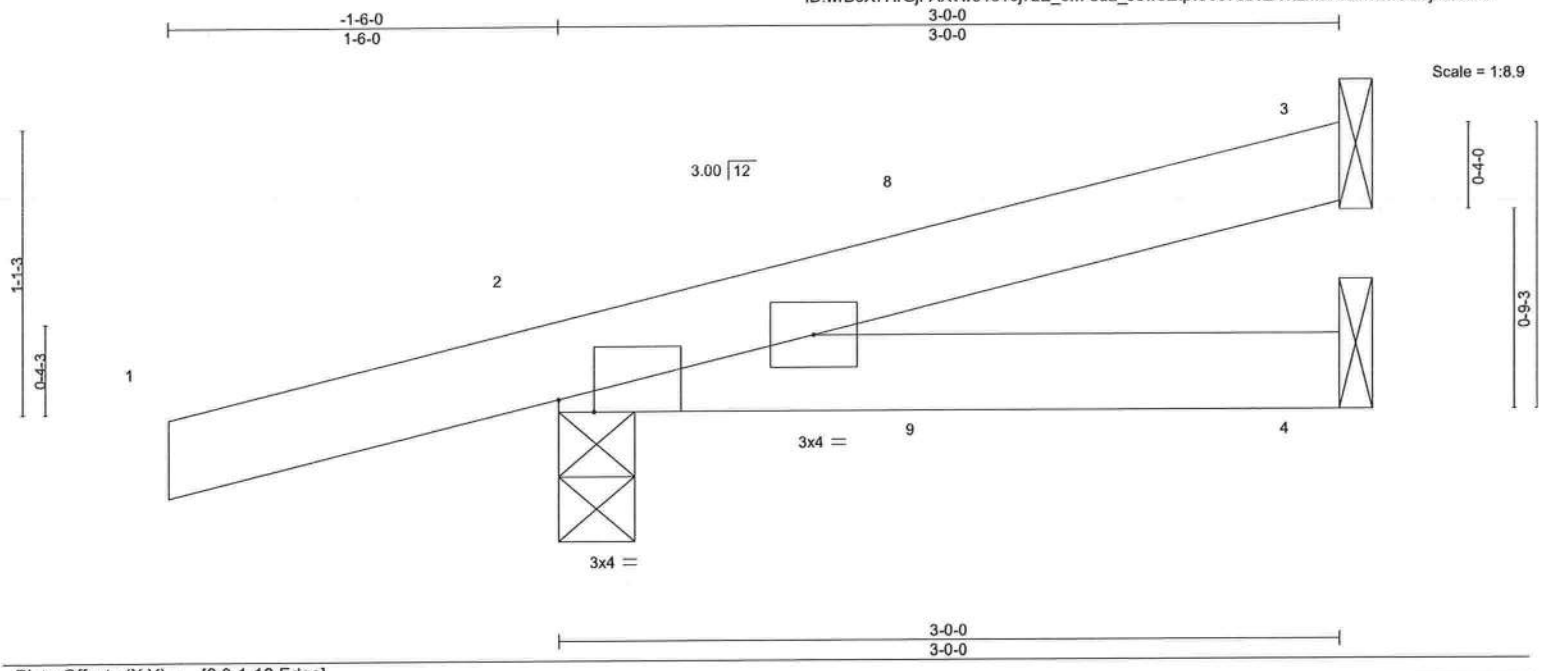

Plate Offsets (X,Y)-- [2:0-1-10,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=48(LC 8)
Max Uplift 3=-32(LC 8), 2=-140(LC 8), 4=-18(LC 9)
Max Grav 3=57(LC 1), 2=210(LC 1), 4=47(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 3, 140 lb uplift at joint 2 and 18 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792882
3975847	CJ05	Jack-Open	4	1	Job Reference (optional)	

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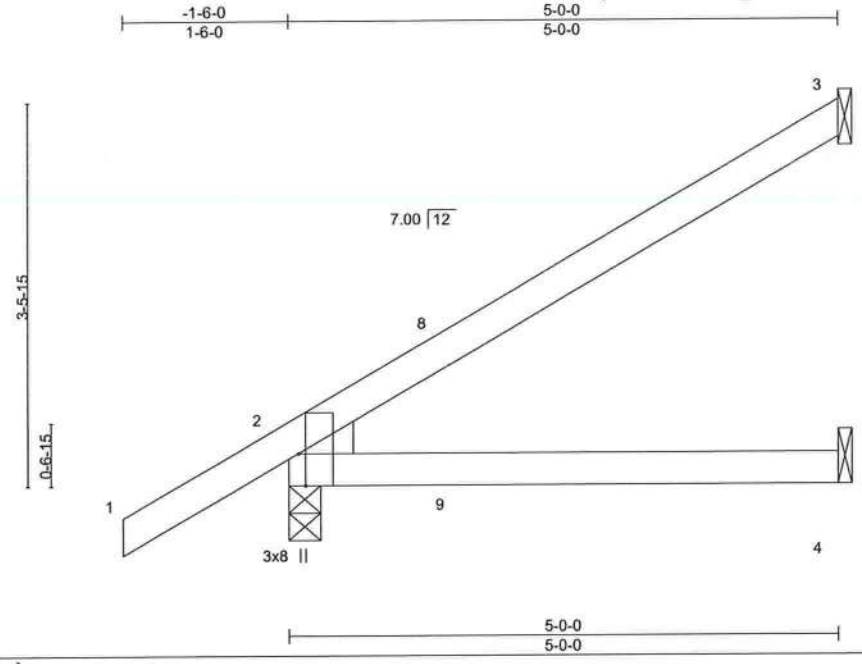

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.06	4-7	>979	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=140(LC 12)
Max Uplift 3=-86(LC 12), 2=-65(LC 12), 4=-36(LC 9)
Max Grav 3=116(LC 19), 2=276(LC 1), 4=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 65 lb uplift at joint 2 and 36 lb uplift at joint 4.

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May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792883
3975847	CJ05A	Jack-Open	4	1	Job Reference (optional)	

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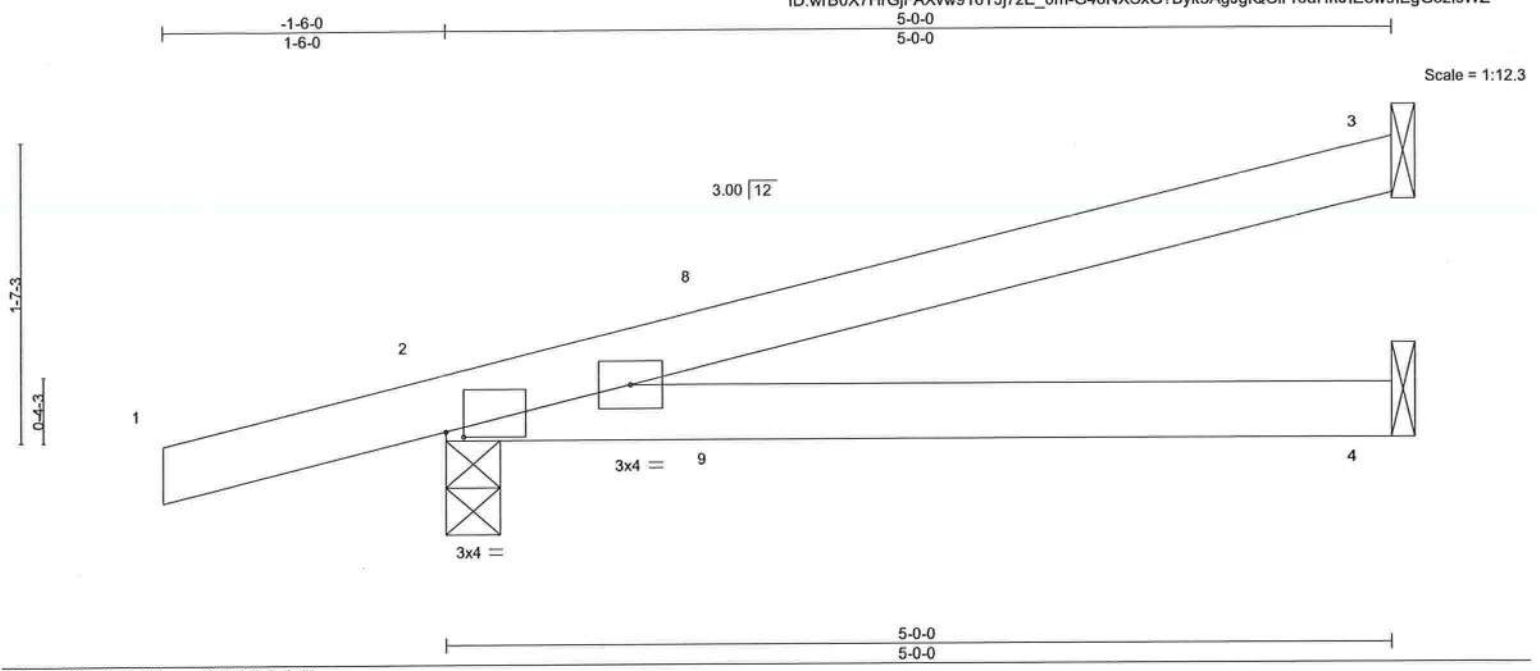

Plate Offsets (X,Y)-- [2:0-1-2,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=67(LC 8)
Max Uplift 3=-66(LC 8), 2=-174(LC 8), 4=-36(LC 8)
Max Grav 3=110(LC 1), 2=276(LC 1), 4=85(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 3, 174 lb uplift at joint 2 and 36 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792884
3975847	EJ01	Jack-Partial	4	1	Job Reference (optional)	

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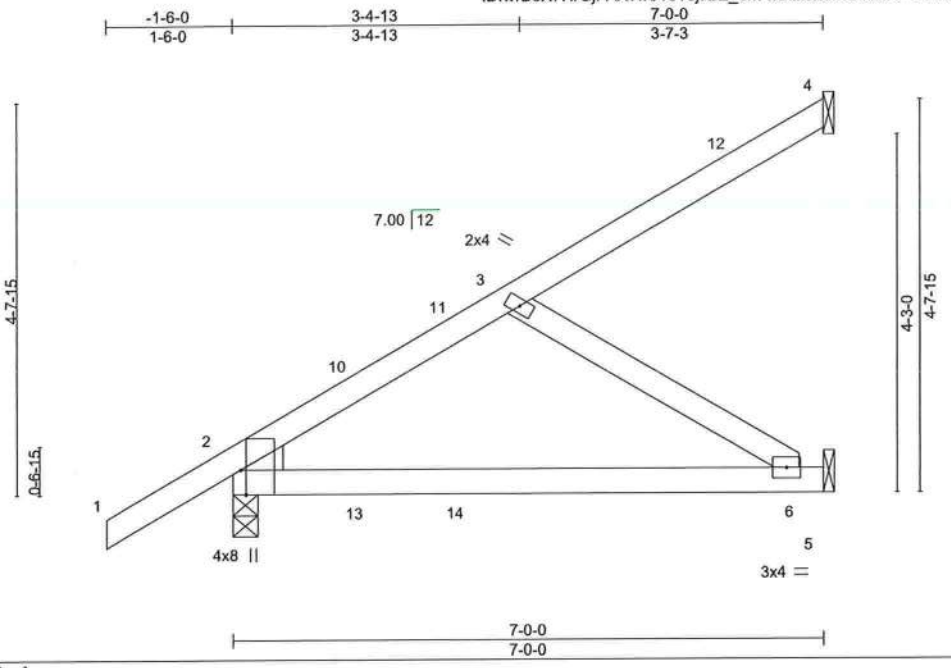

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.07	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.14	6-9	>616	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=179(LC 12)
Max Uplift 4=-54(LC 12), 2=-77(LC 12), 5=-90(LC 9)
Max Grav 4=87(LC 19), 2=346(LC 1), 5=175(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-235/271

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4, 77 lb uplift at joint 2 and 90 lb uplift at joint 5.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792885
3975847	EJ02	Jack-Partial	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:07 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-kGilkoxumU4bhKFWD?xRFSNGgh_Z1f64NyzDoazIsWY

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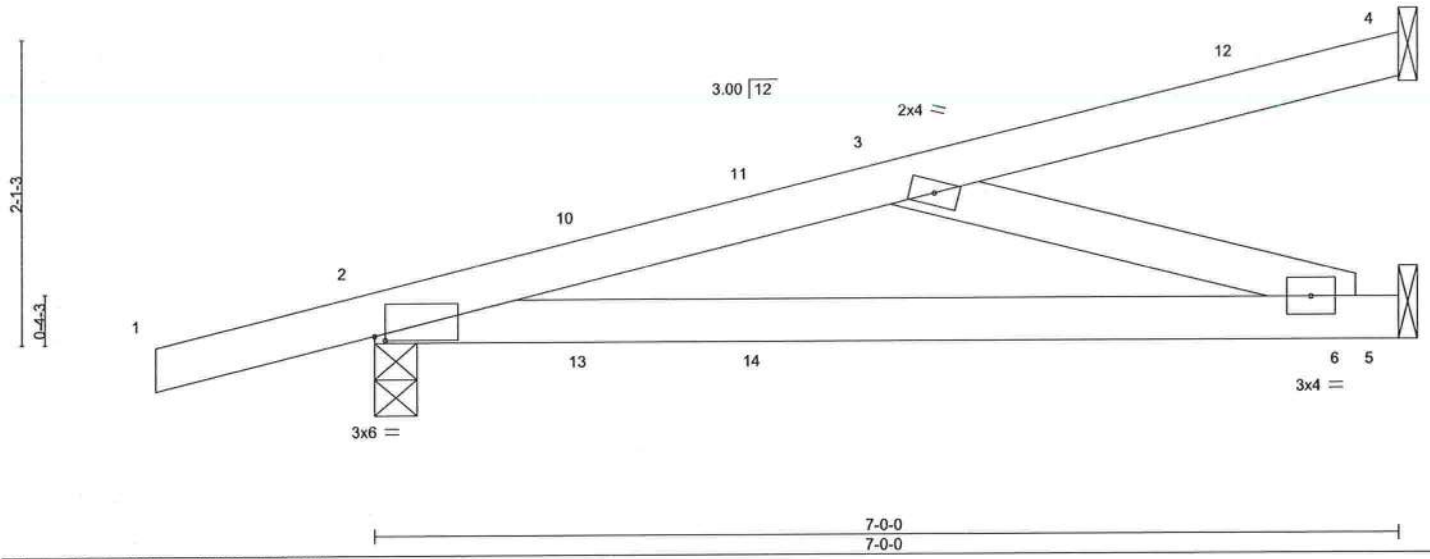

7-0-0 / 7-0-0

Plate Offsets (X,Y)-- [2:0-0-14,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	0.07	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.12	6-9	>692	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=86(LC 8)
Max Uplift 4=-43(LC 8), 2=-211(LC 8), 5=-106(LC 8)
Max Grav 4=71(LC 1), 2=346(LC 1), 5=177(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-454/398
BOT CHORD 2-6=-472/440
WEBS 3-6=-459/493

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 4, 211 lb uplift at joint 2 and 106 lb uplift at joint 5.

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Date:
May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792886
3975847	EJ02G	Jack-Open Supported Gable	2	1	Job Reference (optional)	

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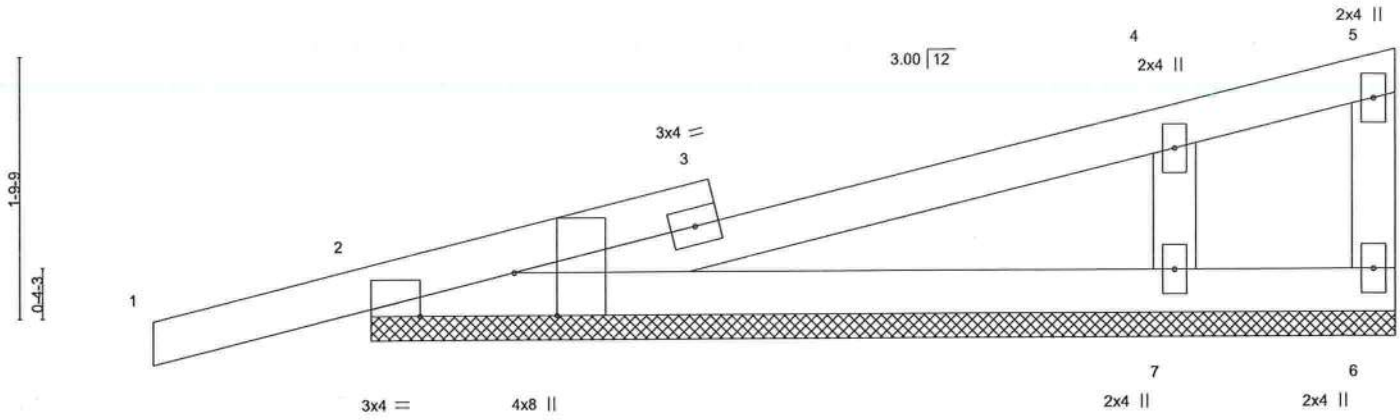

7-0-0 / 7-0-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 7-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=7-0-0, 6=7-0-0, 7=7-0-0
Max Horz 2=73(LC 8)
Max Uplift 2=-122(LC 8), 6=-112(LC 1), 7=-147(LC 12)
Max Grav 2=256(LC 1), 6=33(LC 12), 7=444(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-7=-305/471

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2, 112 lb uplift at joint 6 and 147 lb uplift at joint 7.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792887
3975847	HJ10	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:08 2024 Page 1
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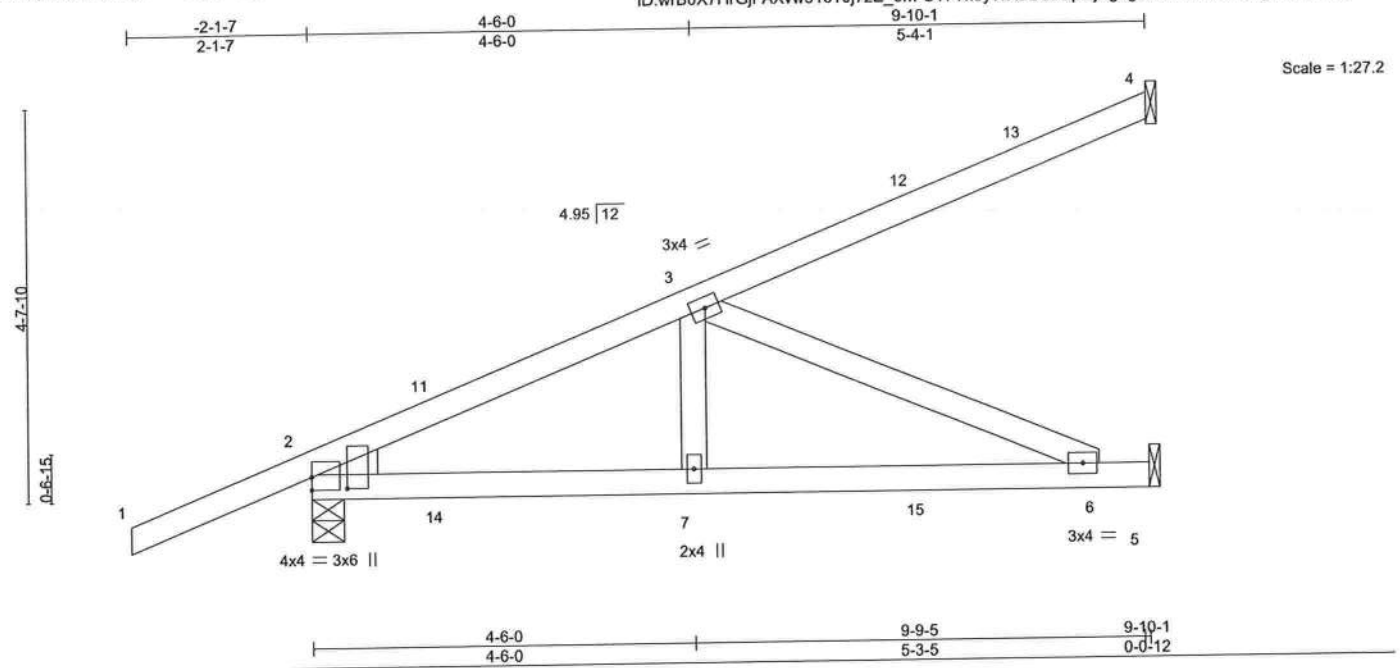

Plate Offsets (X,Y)-- [2:0-0-0,0-1-13], [2:0-1-10,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.12	6-7	>993	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.14	6-7	>814	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 45 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-11 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=178(LC 8)
Max Uplift 4=-102(LC 8), 2=-314(LC 4), 5=-213(LC 5)
Max Grav 4=151(LC 1), 2=528(LC 1), 5=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-709/381
BOT CHORD 2-7=-439/567, 6-7=-439/567
WEBS 3-7=-122/287, 3-6=-622/481

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 4, 314 lb uplift at joint 2 and 213 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 75 lb up at 1-6-1, 65 lb down and 75 lb up at 1-6-1, 82 lb down and 52 lb up at 4-4-0, 82 lb down and 52 lb up at 4-4-0, and 110 lb down and 96 lb up at 7-1-15, and 110 lb down and 96 lb up at 7-1-15 on top chord, and 41 lb down and 49 lb up at 1-6-1, 41 lb down and 49 lb up at 1-6-1, 20 lb down and 29 lb up at 4-4-0, 20 lb down and 29 lb up at 4-4-0, and 41 lb down and 51 lb up at 7-1-15, and 41 lb down and 51 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.
3975847	HJ10	Diagonal Hip Girder	2	1	T33792887
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-8(F=-4, B=-4) 12=-71(F=-35, B=-35) 15=-61(F=-30, B=-30)

Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792888
3975847	HJ10A	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:09 2024 Page 1
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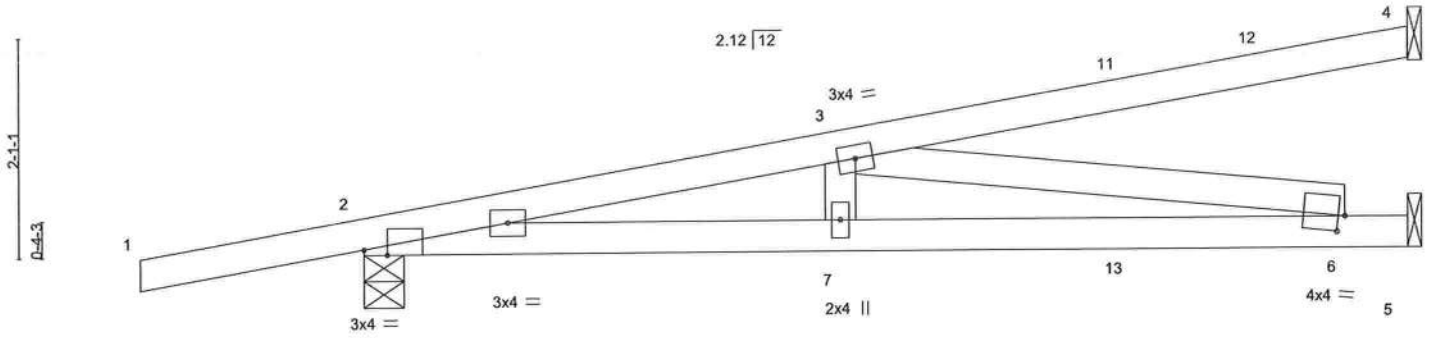
-2-1-7 / 2-1-7 | 4-6-0 / 4-6-0 | 9-10-1 / 5-4-1

Scale = 1:21.9



4-6-0 / 4-6-0 | 9-9-5 / 5-3-5 | 9-10-1 / 0-0-11

Plate Offsets (X,Y)-- [2:0-2-11,Edge], [6:0-0-11,0-1-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.16	6-7	>756	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.19	6-7	>615	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 41 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-2-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=83(LC 4)
Max Uplift 4=-84(LC 8), 2=-334(LC 4), 5=-176(LC 4)
Max Grav 4=158(LC 1), 2=531(LC 1), 5=294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1388/766
BOT CHORD 2-7=-799/1357, 6-7=-799/1357
WEBS 3-7=-105/276, 3-6=-1378/812

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4, 334 lb uplift at joint 2 and 176 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 41 lb up at 4-4-0, 22 lb down and 41 lb up at 4-4-0, and 43 lb down and 78 lb up at 7-1-15, and 43 lb down and 78 lb up at 7-1-15 on top chord , and 49 lb down and 22 lb up at 1-6-1, 49 lb down and 22 lb up at 1-6-1, 18 lb down and 26 lb up at 4-4-0, 18 lb down and 26 lb up at 4-4-0, and 40 lb down and 53 lb up at 7-1-15, and 40 lb down and 53 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 3=-0(F=-0, B=-0) 7=-13(F=-7, B=-7) 11=-68(F=-34, B=-34) 13=-63(F=-32, B=-32)

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Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792889
3975847	PB01	Piggyback	26	1	Job Reference (optional)	

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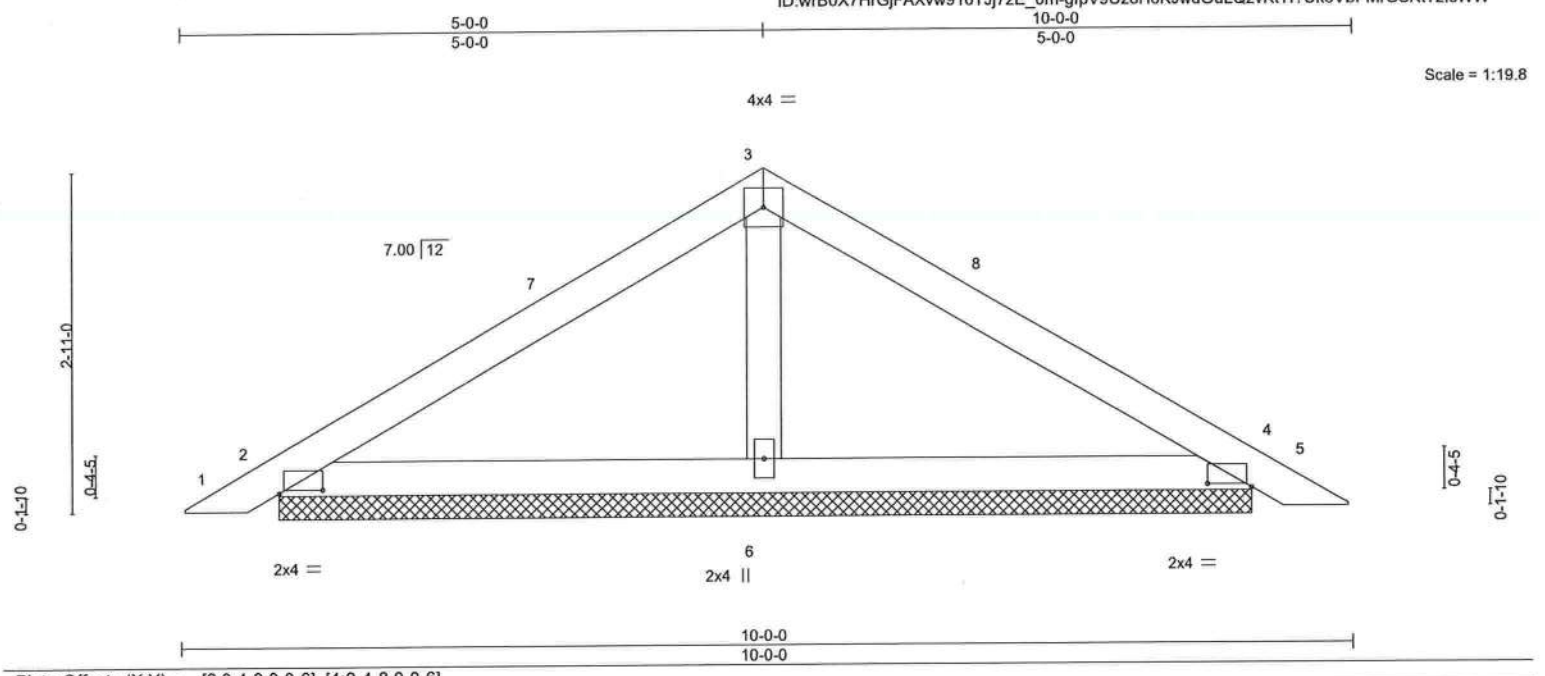

Plate Offsets (X,Y)-- [2:0-4-8,0-0-6], [4:0-4-8,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=8-3-11, 4=8-3-11, 6=8-3-11
Max Horz 2=-68(LC 10)
Max Uplift 2=-62(LC 12), 4=-71(LC 13), 6=-57(LC 12)
Max Grav 2=176(LC 1), 4=176(LC 1), 6=322(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 5-0-0, Zone2 5-0-0 to 9-1-13, Zone1 9-1-13 to 9-8-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 2, 71 lb uplift at joint 4 and 57 lb uplift at joint 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792890
3975847	PB01G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:10 2024 Page 1
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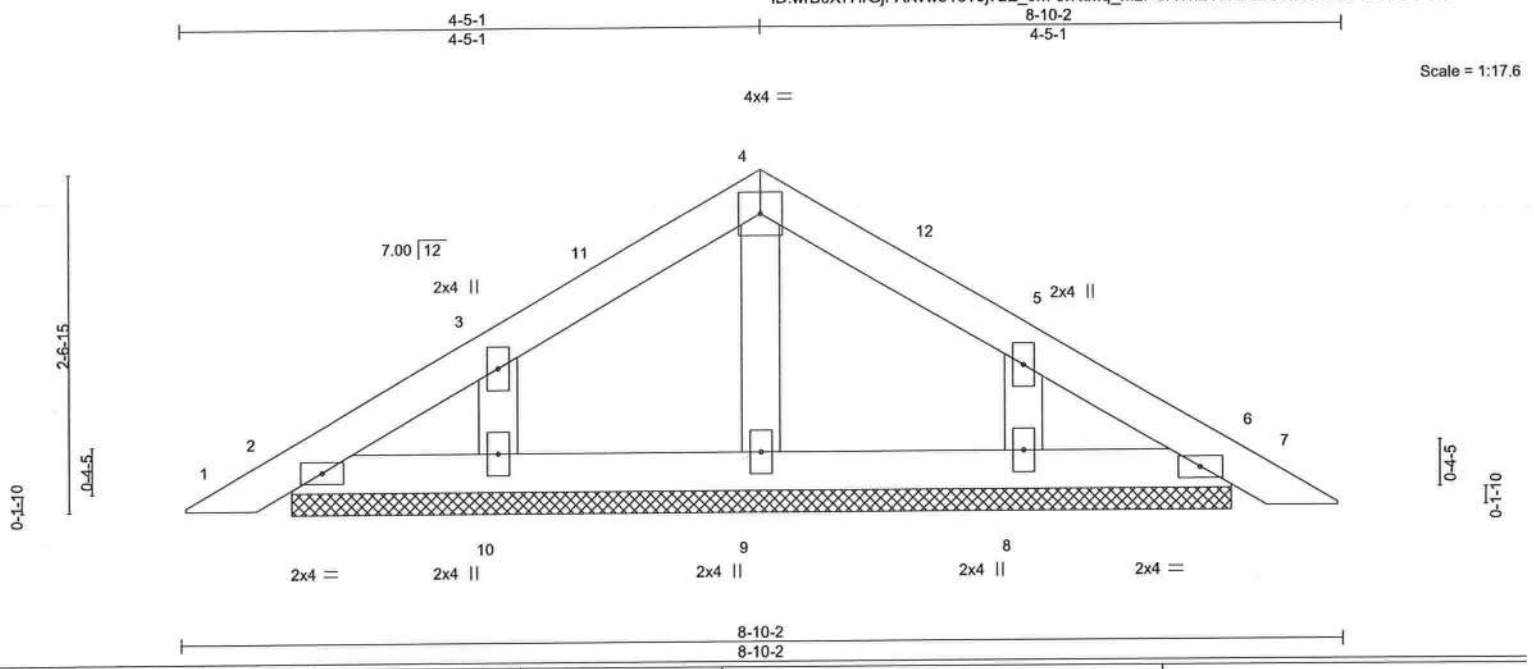

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-1-13.
(lb) - Max Horz 2=59(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 4-5-1, Zone3 4-5-1 to 8-6-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Chesterfield, MO 63017
Date:

May 8,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792891
3975847	T01	Piggyback Base	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:10 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-9rNtMq_m2PSAYnz4v8U8t5?mqutPEqaW4wCtPvzIsWV

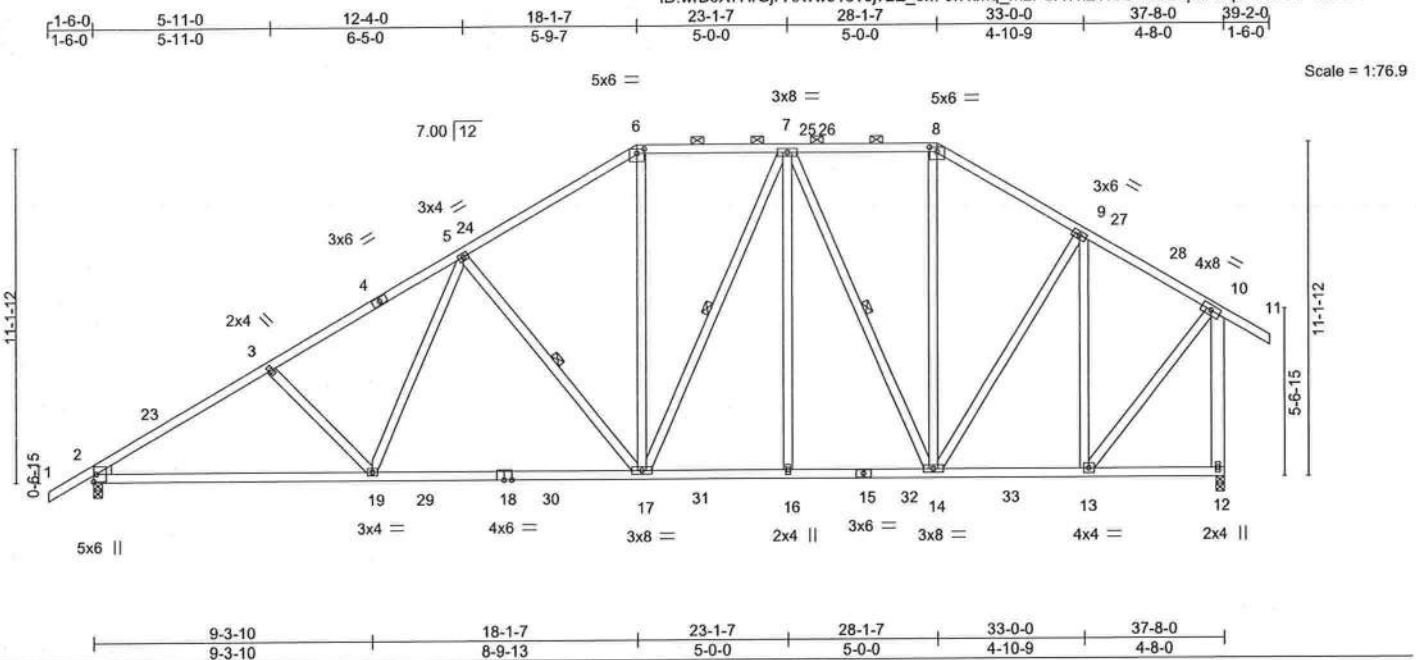

Plate Offsets (X,Y)-- [6:0-3-0,0-1-12], [8:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.30	17-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.49	17-19	>909	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 286 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
10-12: 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-15 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-17, 7-17, 7-14

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=358(LC 11)
Max Uplift 2=-420(LC 12), 12=-367(LC 13)
Max Grav 2=1660(LC 19), 12=1666(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2507/631, 3-5=-2343/607, 5-6=-1690/501, 6-7=-1402/480, 7-8=-1053/338, 8-9=-1273/367, 9-10=-973/271, 10-12=-1599/376
BOT CHORD 2-19=-635/2297, 17-19=-442/1876, 16-17=-295/1321, 14-16=-295/1321, 13-14=-182/797
WEBS 3-19=-282/221, 5-19=-107/600, 5-17=-722/324, 6-17=-115/609, 7-17=-123/333, 7-14=-698/223, 8-14=-123/429, 9-14=-168/496, 9-13=-759/201, 10-13=-216/1242

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-3-3, Zone1 2-3-3 to 18-1-7, Zone2 18-1-7 to 23-5-6, Zone1 23-5-6 to 28-1-7, Zone2 28-1-7 to 33-5-6, Zone1 33-5-6 to 39-2-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=420, 12=367.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
Date:
May 8,2024

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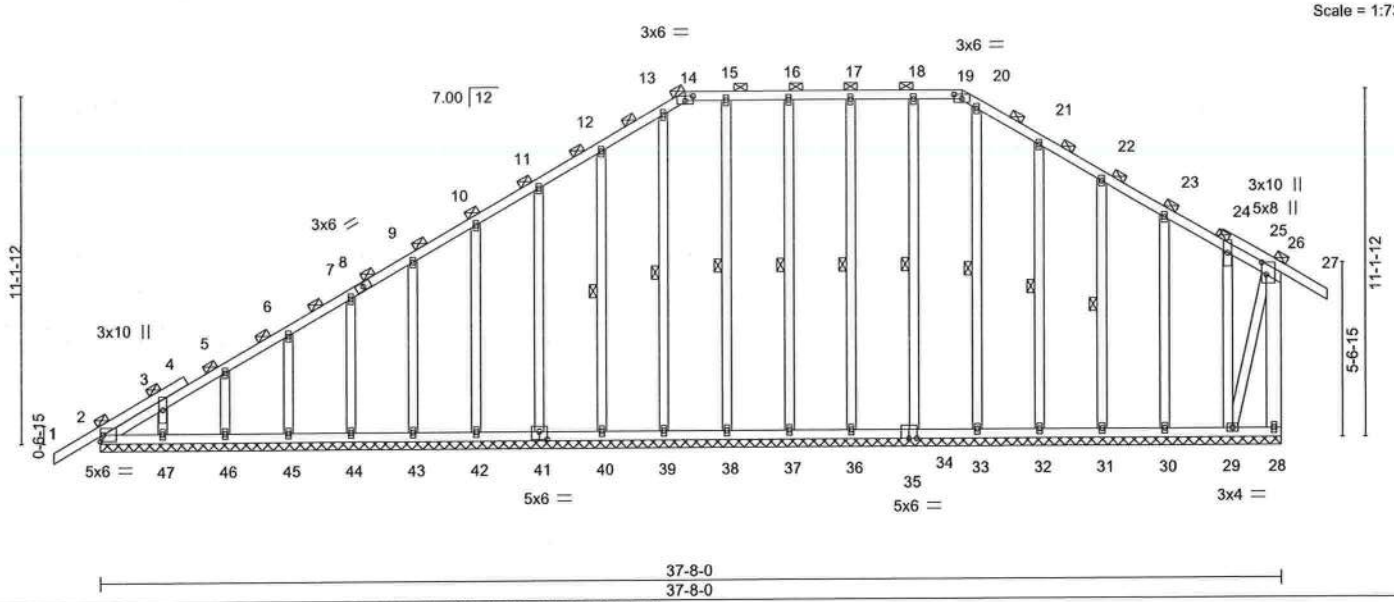
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792892
3975847	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:12 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-5EVenW?1a1iun57T0ZXcyW5ANimsiwNpXEh_TnzIsWT

1-6-0 | 18-8-6 | 27-6-8 | 37-8-0 | 39-2-0
1-6-0 | 18-8-6 | 8-10-2 | 10-1-8 | 1-6-0

Scale = 1:73.8



37-8-0
37-8-0

Plate Offsets (X,Y)-- [14:0-3-0,0-1-12], [19:0-3-0,0-1-12], [26:0-4-12,0-1-12], [41:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.01	27	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.02	27	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 347 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
26-29: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-40, 13-39, 15-38, 16-37, 17-36, 18-34, 20-33, 21-32, 22-31

REACTIONS. All bearings 37-8-0.
(lb) - Max Horz 2=353(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 28, 2, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31, 30 except 29=-207(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 28, 2, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31, 30, 29

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-293/247, 3-5=-257/226, 12-13=-174/280, 13-14=-162/256, 14-15=-159/264, 15-16=-159/264, 16-17=-159/264, 17-18=-159/264, 18-19=-159/264, 20-21=-177/283

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 2, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31, 30 except (jt=lb) 29=207.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792893
3975847	T02	Piggyback Base	11	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:12 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-5EVenW?1a1iun57T0ZXcyW56WiYsik3pXEh_TnzIsWT

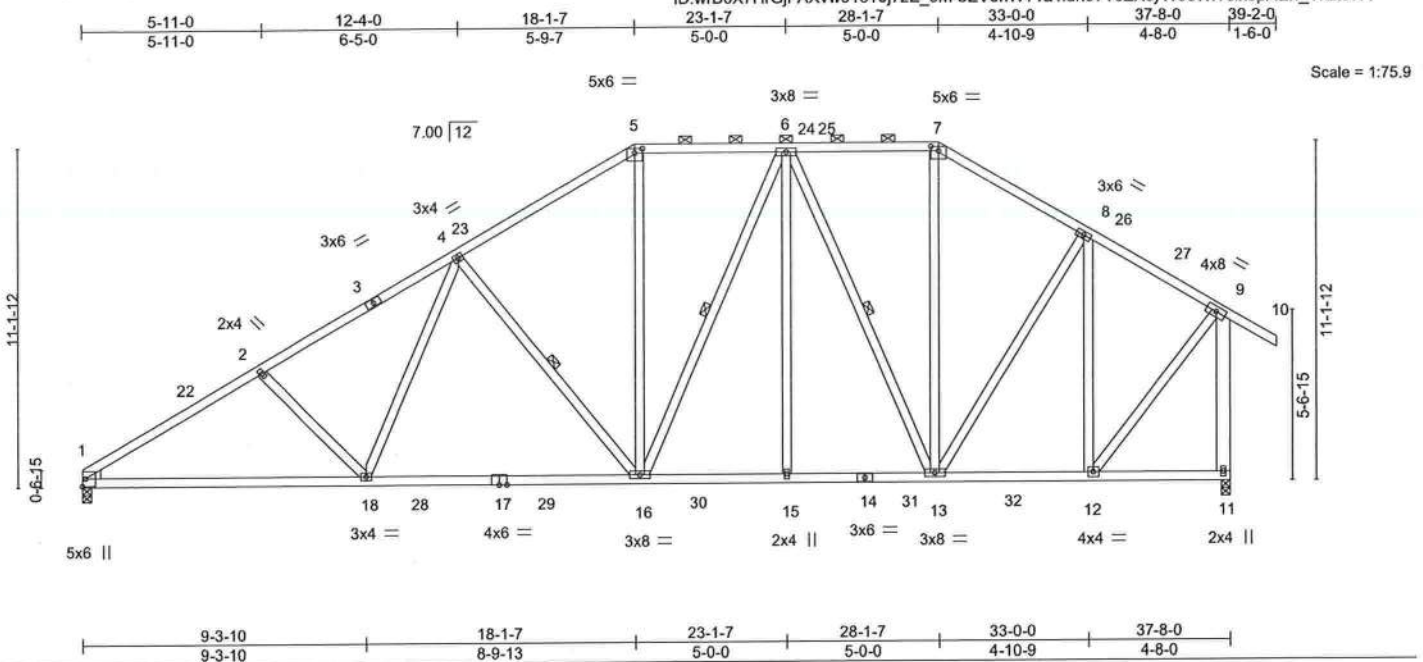

Plate Offsets (X,Y)-- [5:0-3-0,0-1-12], [7:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.30	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.49	16-18	>921	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 283 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
9-11: 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-14 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-16, 6-16, 6-13

REACTIONS. (size) 1=0-3-8, 11=0-3-8
Max Horz 1=344(LC 11)
Max Uplift 1=-382(LC 12), 11=-367(LC 13)
Max Grav 1=1583(LC 19), 11=1667(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2521/639, 2-4=-2353/614, 4-5=-1692/502, 5-6=-1404/481, 6-7=-1055/339, 7-8=-1274/368, 8-9=-973/273, 9-11=-1600/376
BOT CHORD 1-18=-643/2311, 16-18=-445/1882, 15-16=-296/1323, 13-15=-296/1323, 12-13=-182/798
WEBS 2-18=-290/225, 4-18=-113/610, 4-16=-727/326, 5-16=-116/610, 6-16=-123/334, 6-13=-699/224, 7-13=-124/430, 8-13=-168/497, 8-12=-760/201, 9-12=-217/1244

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 18-1-7, Zone2 18-1-7 to 23-5-6, Zone1 23-5-6 to 28-1-7, Zone2 28-1-7 to 33-5-6, Zone1 33-5-6 to 39-2-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=382, 11=367.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 8,2024

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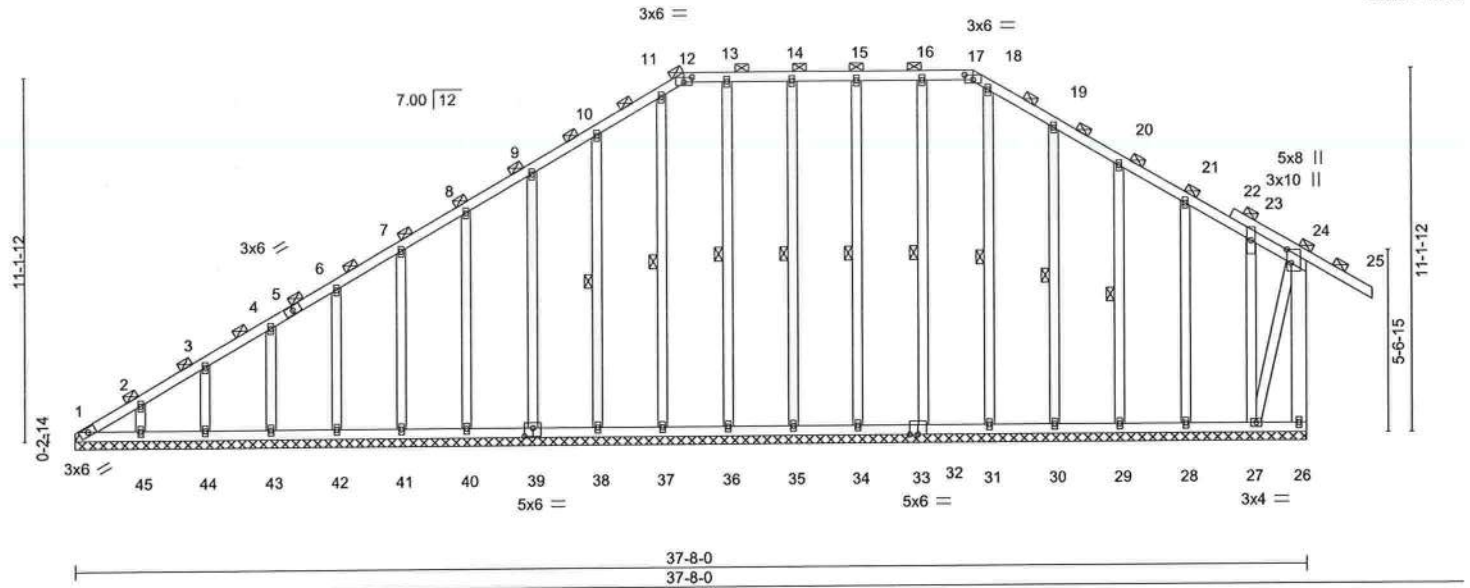
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792894
3975847	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 16 2023 MiTek Industries, Inc. Wed May 8 10:43:03 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-zDRF4SdXkqU95l4a8uQS73zK_G0lDklwCObhvczIlQs

18-8-6 | 27-6-8 | 37-8-0 | 39-2-0
18-8-6 | 8-10-2 | 10-1-8 | 1-6-0

Scale = 1:70.



37-8-0
37-8-0

Plate Offsets (X,Y)-- [12:0-3-0,0-1-12], [17:0-3-0,0-1-12], [24:0-5-0,0-1-8], [39:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.03	25	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.04	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.01	26	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 341 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.2 *Except* 24-27: 2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 10-38, 11-37, 13-36, 14-35, 15-34, 16-32, 18-31, 19-30, 20-29

REACTIONS. All bearings 37-8-0.
(lb) - Max Horz 1=345(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 26, 1, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 32, 30, 29, 28 except 27=-200(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 26, 1, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-292/255, 2-3=-262/233, 10-11=-173/285, 11-12=-161/260, 12-13=-158/268, 13-14=-158/268, 14-15=-158/268, 15-16=-158/268, 16-17=-158/268, 17-18=-157/252, 18-19=-175/288

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 1, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 32, 30, 29, 28 except (jt=lb) 27=200.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 8,2024

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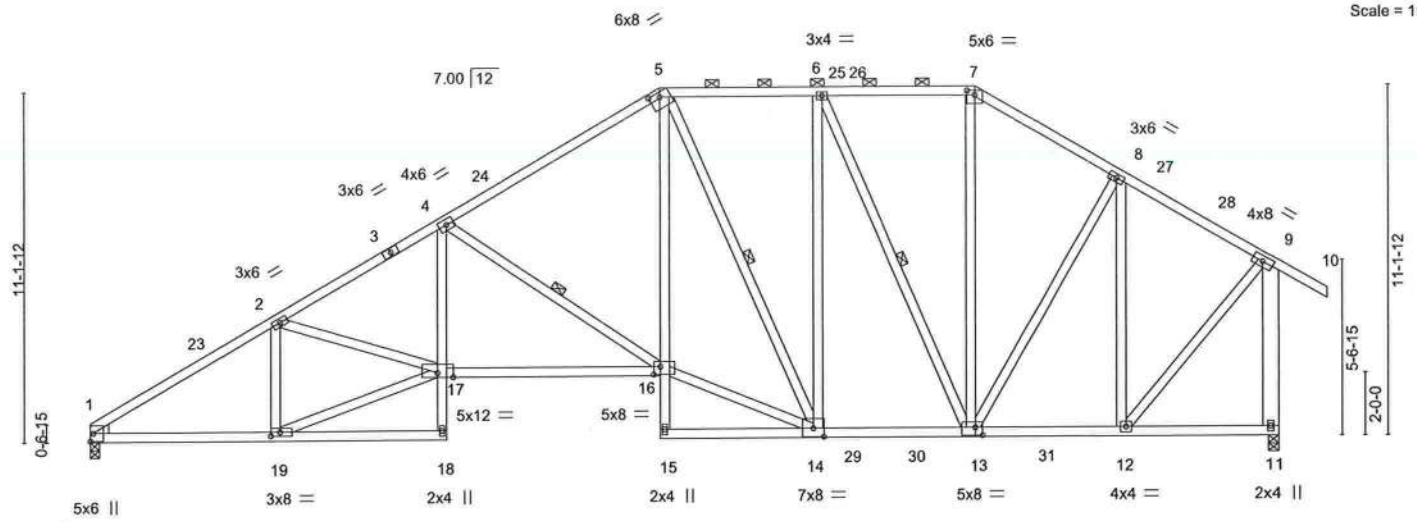
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792895
3975847	T03	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:14 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-1ddOCB1H6eyc1PHs8_Z41xAPJVFCAe26_YA5YgzlsWR

5-11-0	11-4-0	18-1-7	23-1-7	28-1-7	32-8-15	37-8-0	39-2-0
5-11-0	5-5-0	6-9-7	5-0-0	5-0-0	4-7-9	4-11-1	1-6-0

Scale = 1:73.4



5-11-0	11-4-0	18-1-7	23-1-7	28-1-7	32-8-15	37-8-0
5-11-0	5-5-0	6-9-7	5-0-0	5-0-0	4-7-9	4-11-1

Plate Offsets (X,Y)-- [5:0-4-0,0-1-11], [7:0-3-0,0-1-12], [13:0-2-12,0-3-0], [14:0-4-0,0-3-4], [16:0-2-8,0-3-0], [19:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.25	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.48	16-17	>939	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 301 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-18,5-15: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
9-11: 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-3 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-16, 6-13, 5-14

REACTIONS. (size) 1=0-3-8, 11=0-3-8
Max Horz 1=344(LC 11)
Max Uplift 1=-345(LC 12), 11=-310(LC 13)
Max Grav 1=1523(LC 19), 11=1617(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2435/551, 2-4=-3027/720, 4-5=-1947/467, 5-6=-1268/377, 6-7=-1001/338, 7-8=-1216/356, 8-9=-970/278, 9-11=-1543/355
BOT CHORD 1-19=-564/2227, 4-17=-183/977, 16-17=-607/2757, 5-16=-309/1610, 13-14=-295/1262, 12-13=-185/792
WEBS 2-19=-708/248, 17-19=-589/2360, 2-17=-129/535, 4-16=-1332/461, 14-16=-416/1808, 6-14=-89/452, 6-13=-665/219, 7-13=-97/406, 8-13=-168/453, 8-12=-707/182, 9-12=-197/1191, 5-14=-1032/243

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 18-1-7, Zone2 18-1-7 to 23-5-6, Zone1 23-5-6 to 28-1-7, Zone2 28-1-7 to 33-5-6, Zone1 33-5-6 to 39-2-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=345, 11=310.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

May 8,2024

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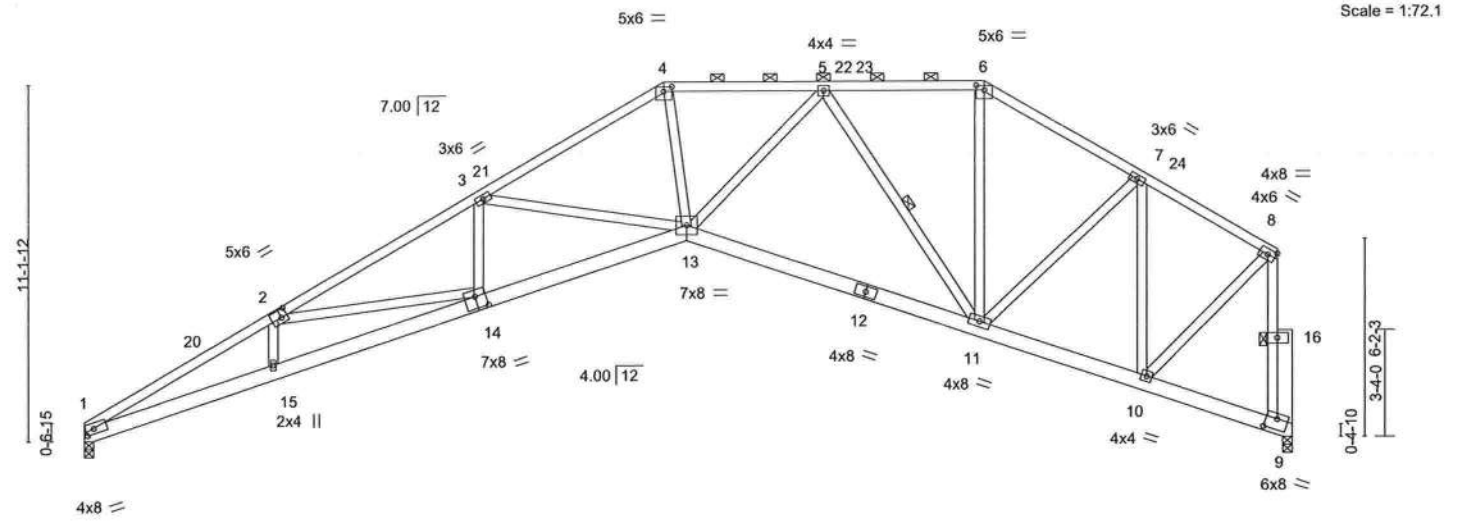
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792896
3975847	T04	Piggyback Base	11	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:15 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-VpBmPX2vty4TeYs2hh4Ja8jXAvgJv7EFDCve46zIsWQ

5-11-0	12-4-0	18-1-7	23-1-7	28-1-7	33-0-0	37-8-0
5-11-0	6-5-0	5-9-7	5-0-0	5-0-0	4-10-9	4-8-0

Scale = 1:72.1



5-11-0	12-4-0	18-10-0	28-1-7	33-0-0	37-8-0
5-11-0	6-5-0	6-6-0	9-3-7	4-10-9	4-8-0

Plate Offsets (X,Y)-- [1:0-3-0,0-2-0], [2:0-2-4,0-3-0], [4:0-3-0,0-1-12], [6:0-3-0,0-1-12], [9:0-4-0,0-4-0], [14:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.32	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.60	14-15	>750	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.46	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 261 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 1-14: 2x6 SP M 26
WEBS	2x4 SP No.3
OTHERS	2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-5 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 7-2-7 oc bracing.
WEBS	1 Row at midpt 5-11, 8-9

REACTIONS. (size) 9=0-3-8, 1=0-3-8
Max Horz 1=334(LC 11)
Max Uplift 9=-318(LC 13), 1=-379(LC 12)
Max Grav 9=1367(LC 1), 1=1380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-4423/1362, 2-3=-4102/1199, 3-4=-3121/840, 4-5=-2813/814, 5-6=-1288/397, 6-7=-1553/411, 7-8=-1011/267, 8-9=-1350/345
BOT CHORD	1-15=-1343/3910, 14-15=-1374/4006, 13-14=-1071/3680, 11-13=-589/2144, 10-11=-278/900
WEBS	2-14=-384/281, 3-14=-61/377, 3-13=-939/463, 4-13=-299/1291, 5-13=-318/1166, 5-11=-1356/473, 6-11=-144/504, 7-11=-204/618, 7-10=-952/276, 8-10=-258/1089

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 18-1-7, Zone2 18-1-7 to 23-5-6, Zone1 23-5-6 to 28-1-7, Zone2 28-1-7 to 33-5-6, Zone1 33-5-6 to 37-0-12 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 9, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=318, 1=379.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792897
3975847	T05	Half Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:16 2024 Page 1
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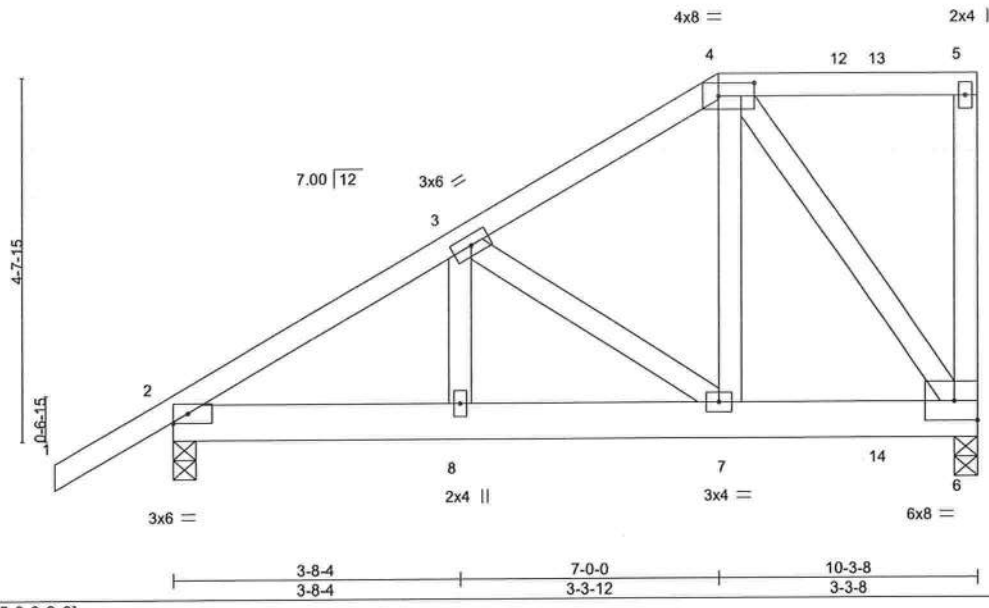

Plate Offsets (X,Y)-- [4:0-5-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.02	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 71 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=187(LC 25)
Max Uplift 2=-242(LC 8), 6=-500(LC 5)
Max Grav 2=612(LC 1), 6=837(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-747/332, 3-4=-553/286
BOT CHORD 2-8=-365/605, 7-8=-365/605, 6-7=-285/459
WEBS 4-7=-399/663, 4-6=-759/472

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=242, 6=500.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 57 lb up at 7-0-0, and 79 lb down and 51 lb up at 9-0-12 on top chord, and 420 lb down and 354 lb up at 7-0-0, and 150 lb down and 110 lb up at 9-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 6-9=-20
Concentrated Loads (lb)
Vert: 7=-420(B) 4=-24(B) 13=-24(B) 14=-150(B)

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Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792898
3975847	T06	Half Hip	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:16 2024 Page 1
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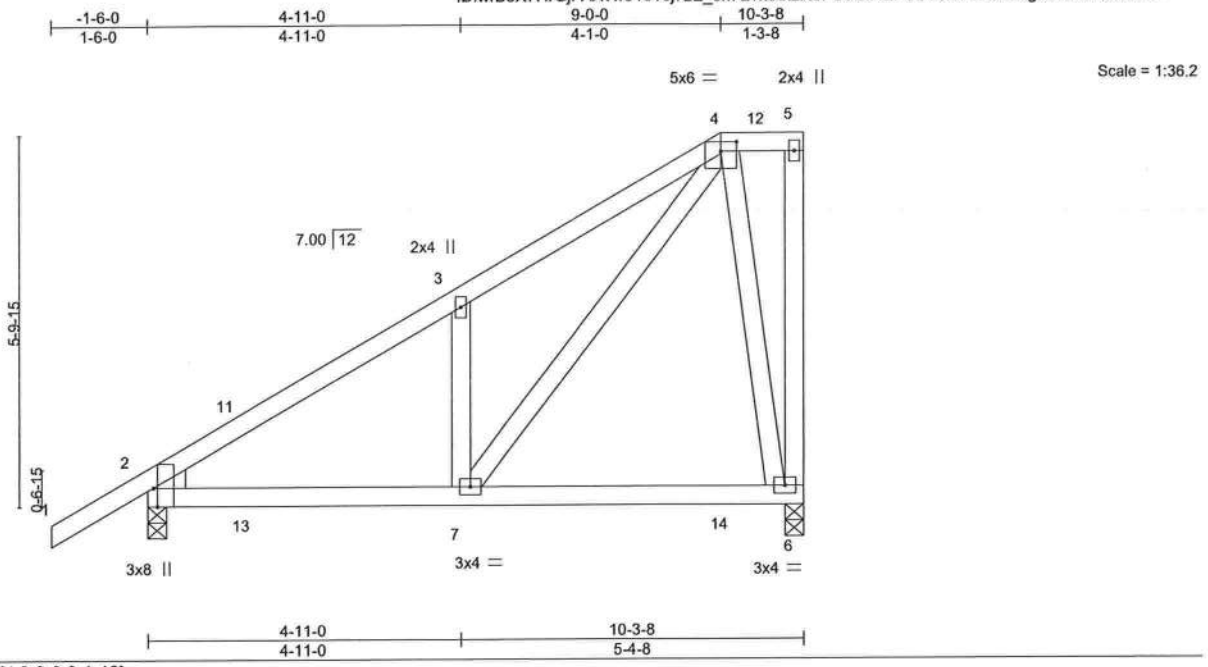

Scale = 1:36.2

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [4:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 66 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=233(LC 12)
Max Uplift 6=-181(LC 9), 2=-113(LC 9)
Max Grav 6=369(LC 1), 2=462(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-447/181, 3-4=-456/306
BOT CHORD 2-7=-303/338
WEBS 3-7=-272/213, 4-7=-407/454, 4-6=-322/287

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone3 9-0-0 to 10-1-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=181, 2=113.

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Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792899
3975847	T07	Monopitch	13	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:17 2024 Page 1
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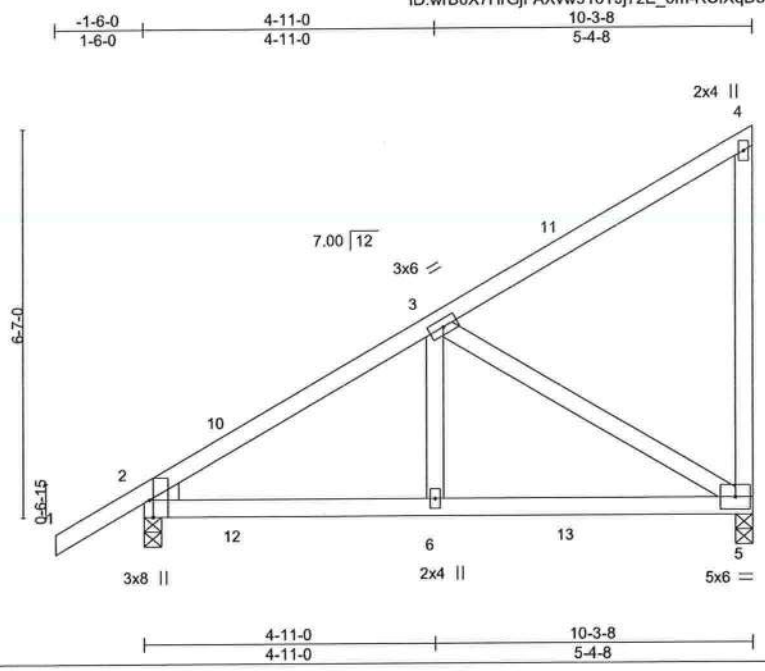

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 58 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=257(LC 12)
Max Uplift 2=-103(LC 9), 5=-192(LC 12)
Max Grav 2=462(LC 1), 5=369(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-455/162
BOT CHORD 2-6=-339/351, 5-6=-339/351
WEBS 3-5=-399/385

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-1-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103, 5=192.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792900
3975847	T08	Half Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:17 2024 Page 1
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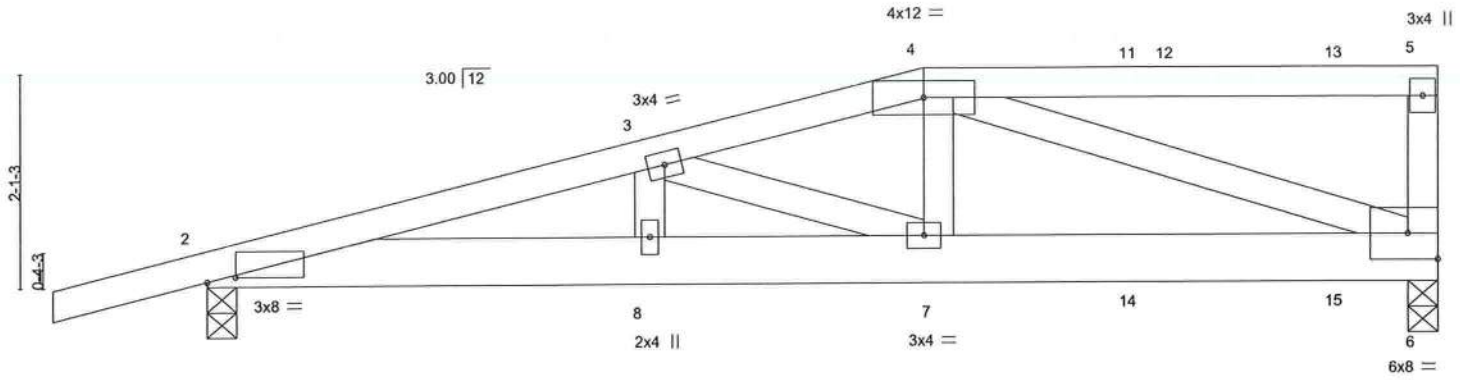
-1-6-0 | 4-3-14 | 7-0-0 | 12-0-0
1-6-0 | 4-3-14 | 2-8-2 | 5-0-0

Scale = 1:22.6



4-3-14 | 7-0-0 | 12-0-0
4-3-14 | 2-8-2 | 5-0-0

Plate Offsets (X,Y)-- [2:0-3-6,0-0-9]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.09	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.12	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 64 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-13 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=88(LC 4)
Max Uplift 2=-459(LC 4), 6=-644(LC 4)
Max Grav 2=753(LC 1), 6=940(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1982/1156, 3-4=-1734/1039
BOT CHORD 2-8=-1159/1910, 7-8=-1159/1910, 6-7=-1060/1736
WEBS 3-7=-355/300, 4-7=-465/755, 4-6=-1729/1057

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=459, 6=644.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 45 lb up at 7-0-0, 19 lb down and 44 lb up at 9-0-12, and 23 lb down and 44 lb up at 11-0-12, and 47 lb down and 136 lb up at 11-10-4 on top chord, and 422 lb down and 339 lb up at 7-0-0, and 157 lb down and 130 lb up at 9-0-12, and 159 lb down and 128 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 2-6=-20
Concentrated Loads (lb)
Vert: 5=61 7=-422(F) 4=-17(F) 11=-17(F) 13=-23(F) 14=-157(F) 15=-159(F)

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Date:

May 8,2024

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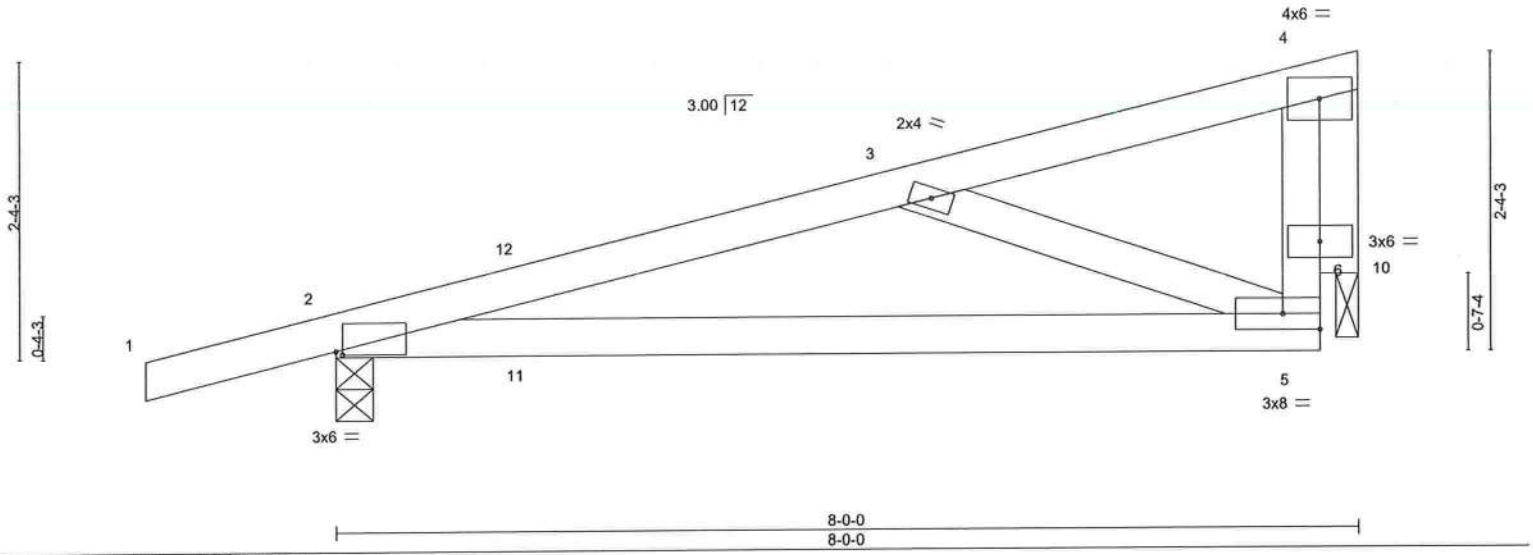
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792901
3975847	T09	MONO TRUSS	27	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:18 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-wOsv2Z4nAtS1V0adNpe0CnL9m6kG6eOhvA8JhRzIsWN

-1-6-0 / 1-6-0 | 4-8-0 / 4-8-0 | 8-0-0 / 3-4-0

Scale = 1:18.1



8-0-0 / 8-0-0

Plate Offsets (X,Y)-- [2:0-0-10,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.07	5-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.14	5-9	>703	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-12 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-2-0
Max Horz 2=92(LC 8)
Max Uplift 2=-230(LC 8), 10=-157(LC 8)
Max Grav 2=381(LC 1), 10=260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-504/368
BOT CHORD 2-5=-426/482
WEBS 3-5=-427/375, 4-10=-268/237

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-6-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 10=157.

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May 8,2024

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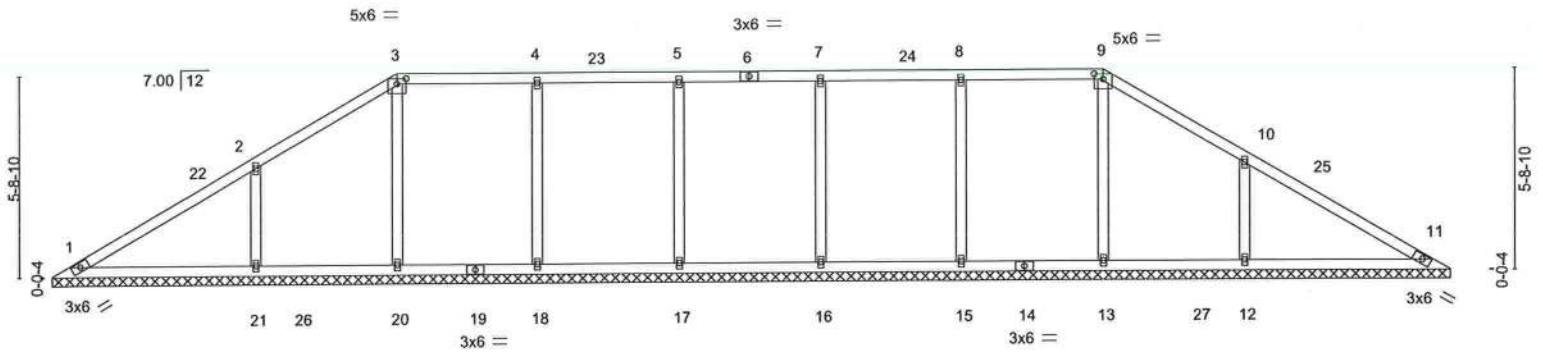
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES. T33792902
3975847	V01	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:18 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-OaQHFv5QxAau7A9pwX9Fk_tLnW7Jr4Er8qtsDvzIsWM

9-9-10 | 29-9-10 | 39-7-4
9-9-10 | 20-0-0 | 9-9-10

Scale = 1:65.6



39-6-13 | 39-7-4
39-6-13 | 0-0-7

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [9:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 175 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 39-6-6.
(lb) - Max Horz 1=-134(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 13, 16, 17, 20 except 15=-109(LC 9), 18=-108(LC 8), 21=-216(LC 12), 12=-216(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 13=319(LC 28), 15=396(LC 27), 16=373(LC 28), 17=373(LC 27), 18=396(LC 28), 20=325(LC 22), 21=538(LC 19), 12=538(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-21=-327/237, 10-12=-327/237

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 4-5-15, Zone1 4-5-15 to 9-9-10, Zone2 9-9-10 to 15-4-12, Zone1 15-4-12 to 29-9-10, Zone2 29-9-10 to 35-4-12, Zone1 35-4-12 to 39-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 13, 16, 17, 20 except (jt=lb) 15=109, 18=108, 21=216, 12=216.

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Date:
May 8,2024

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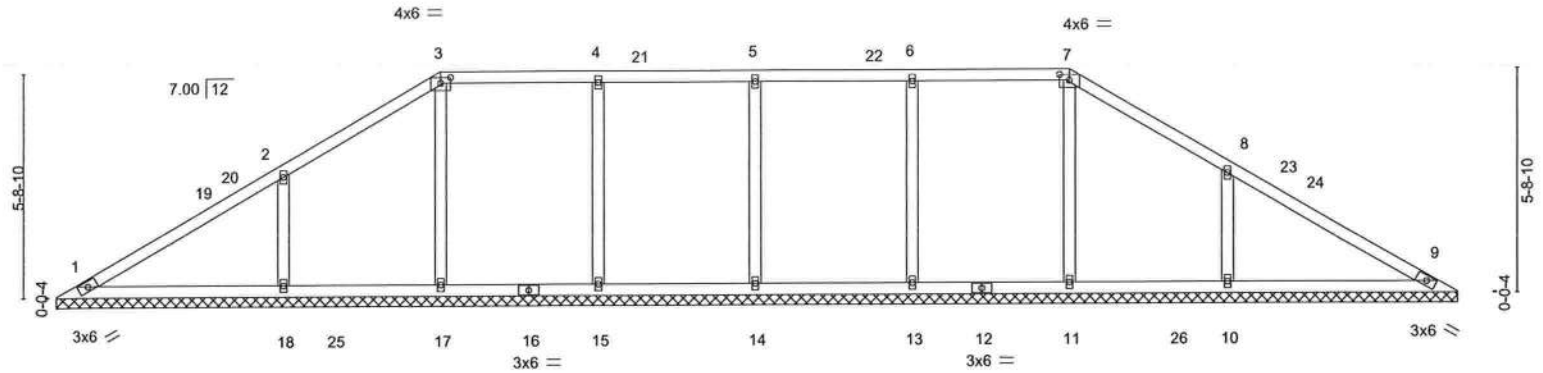
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792903
3975847	V02	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:19 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-OaQHFv5QxAau7A9pwX9Fk_tLoW7Jr4Dr8qtsDuzIsWM

9-9-10 | 25-9-10 | 35-7-4
9-9-10 | 16-0-0 | 9-9-10

Scale = 1:58.8



0-0-7 | 35-7-4
0-0-7 | 35-6-13

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [7:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 35-6-6.
(lb) - Max Horz 1=-134(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 14, 17 except 13=-109(LC 9), 15=-109(LC 12), 18=-216(LC 12), 10=-216(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 11=318(LC 28), 13=398(LC 27), 14=366(LC 2), 15=398(LC 28), 17=324(LC 22), 18=538(LC 19), 10=539(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-18=-327/237, 8-10=-327/237

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 4-1-2, Zone1 4-1-2 to 9-9-10, Zone2 9-9-10 to 14-9-15, Zone1 14-9-15 to 25-9-10, Zone2 25-9-10 to 30-9-15, Zone1 30-9-15 to 35-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11, 14, 17 except (jt=lb) 13=109, 15=109, 18=216, 10=216.

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Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.
3975847	V03	Valley	1	1	T33792904
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:20 2024 Page 1
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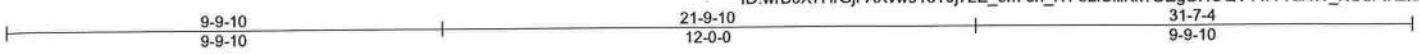

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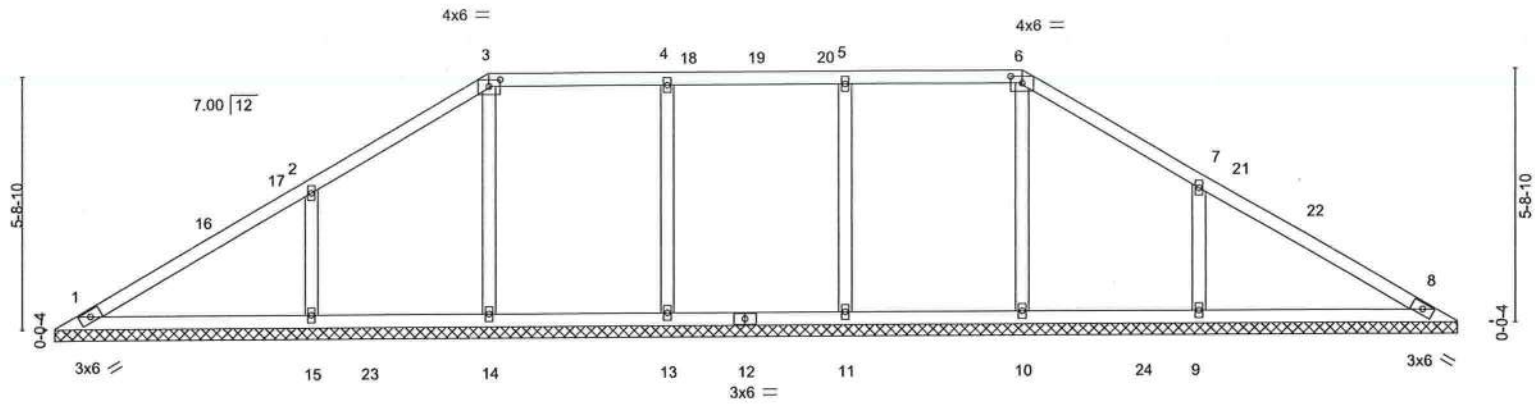

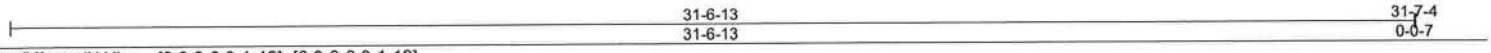

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [6:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 136 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-6-6.
(lb) - Max Horz 1=-134(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 10, 14 except 11=-106(LC 9), 13=-106(LC 8), 15=-215(LC 12), 9=-215(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 10=318(LC 28), 11=392(LC 27), 13=392(LC 28), 14=326(LC 22), 15=538(LC 19), 9=538(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-15=-327/237, 7-9=-327/237

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-8-5, Zone1 3-8-5 to 9-9-10, Zone2 9-9-10 to 14-3-2, Zone1 14-3-2 to 21-9-10, Zone2 21-9-10 to 26-3-2, Zone1 26-3-2 to 31-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 10, 14 except (jt=lb) 11=106, 13=106, 15=215, 9=215.

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Date:

May 8,2024

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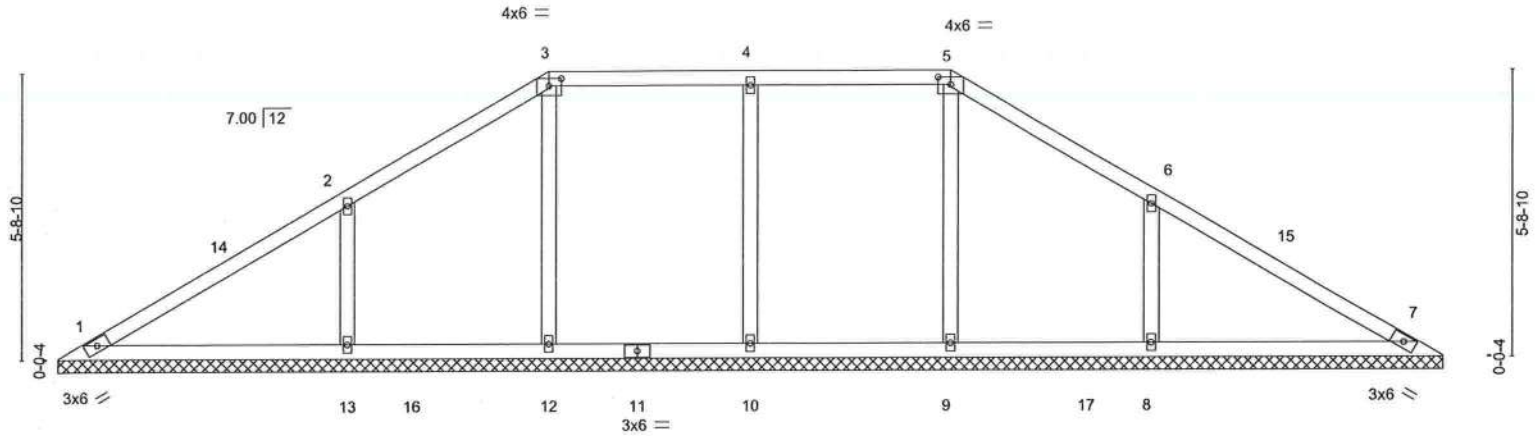
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792905
3975847	V04	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:21 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-KzY1ga6gToqcMTJC2yBjpPyglKpmJ_a7b8MzImzIsWK

9-9-10 | 17-9-10 | 27-7-4
9-9-10 | 8-0-0 | 9-9-10

Scale = 1:46.0



0-0-7 | 27-7-4
0-0-7 | 27-6-13

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [5:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 116 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-6-6.
(lb) - Max Horz 1=134(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9, 12 except 10=-118(LC 9), 13=-215(LC 12), 8=-215(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=312(LC 28), 10=414(LC 28), 12=324(LC 22), 13=539(LC 19), 8=539(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-252/143, 2-13=-327/236, 6-8=-327/236

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 9-9-10, Zone2 9-9-10 to 13-9-10, Zone1 13-9-10 to 17-9-10, Zone2 17-9-10 to 21-9-10, Zone1 21-9-10 to 27-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9, 12 except (jt=lb) 10=118, 13=215, 8=215.

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Chesterfield, MO 63017
Date:

May 8,2024

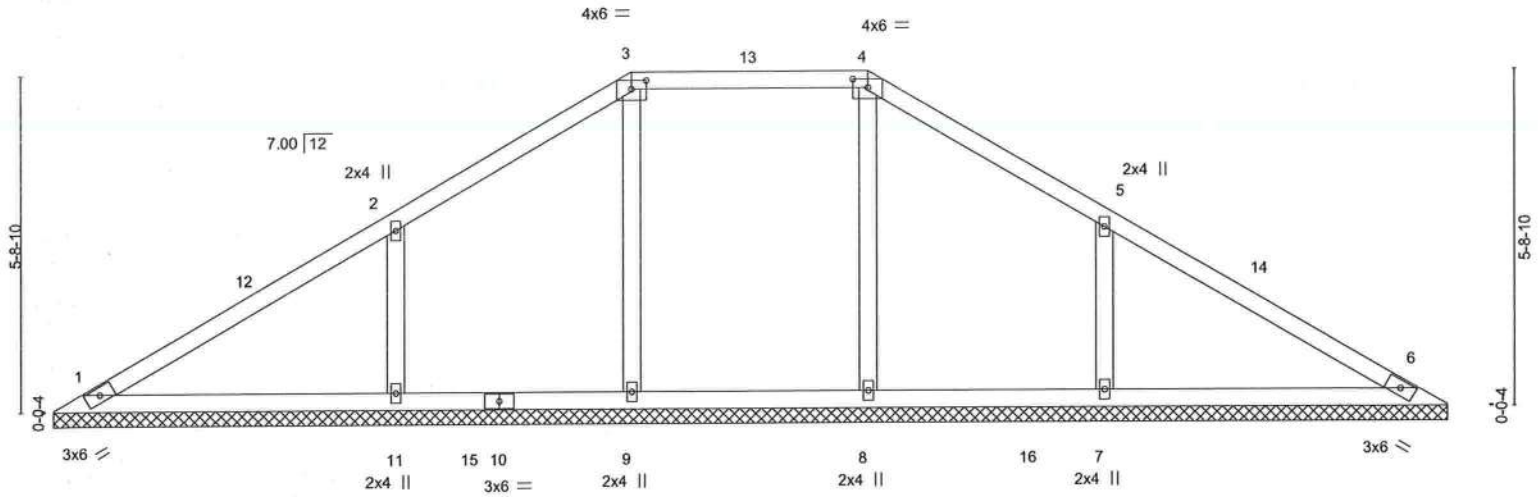
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792906
3975847	V05	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:21 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-KzY1ga6gToqcMTJC2yBjpPygKKpnJ?E7b8MzImzlsWK

9-9-10 | 13-9-10 | 23-7-4
9-9-10 | 4-0-0 | 9-9-10

Scale = 1:39.1



23-6-13 | 23-7-4
23-6-13 | 0-0-7

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [4:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 23-6-7.
(lb) - Max Horz 1=134(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 9 except 11=-216(LC 12), 7=-216(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=333(LC 28), 9=333(LC 27), 11=537(LC 19), 7=537(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-11=-326/237, 5-7=-326/237

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 9-9-10, Zone3 9-9-10 to 13-9-10, Zone2 13-9-10 to 17-9-10, Zone1 17-9-10 to 23-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 8, 9 except (jt=lb) 11=216, 7=216.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Chesterfield, MO 63017
Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792907
3975847	V06	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:22 2024 Page 1
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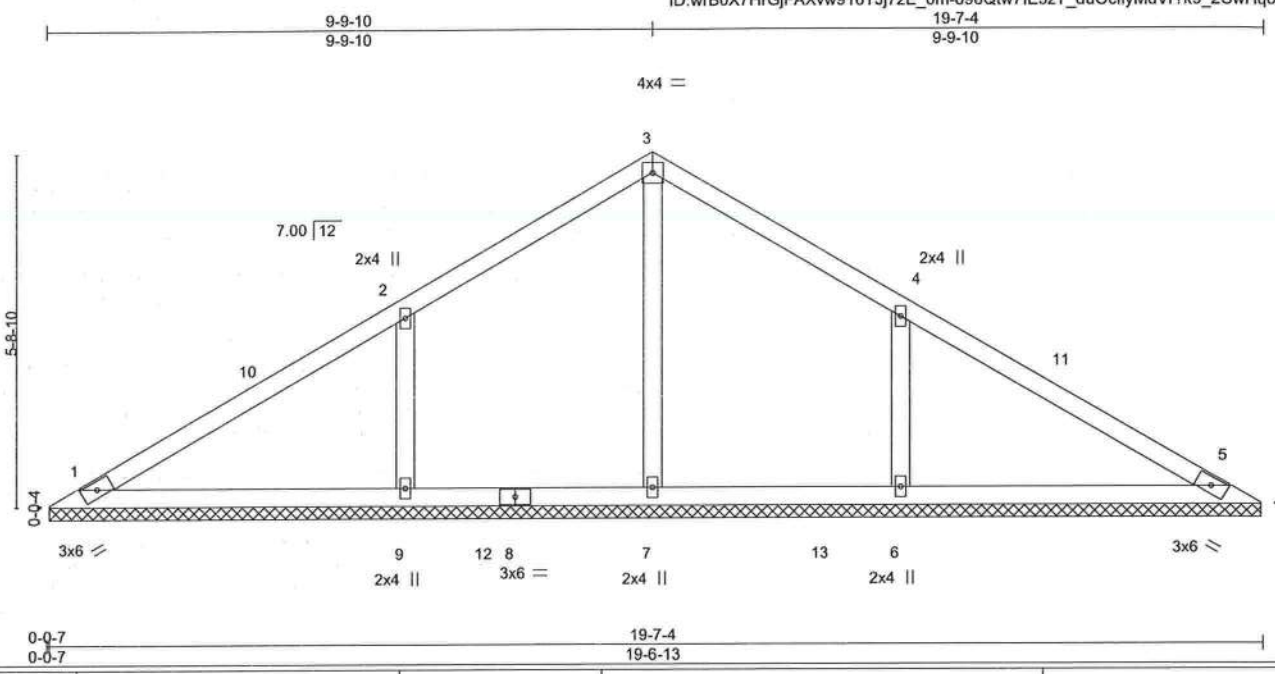

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 77 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-6-7.
(lb) - Max Horz 1=134(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-217(LC 12), 6=-217(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=293(LC 22), 9=543(LC 19), 6=543(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-328/239, 4-6=-328/238

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 9-9-10, Zone2 9-9-10 to 13-9-10, Zone1 13-9-10 to 19-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=217, 6=217.

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Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.
3975847	V07	Valley	1	1	T33792908
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:22 2024 Page 1
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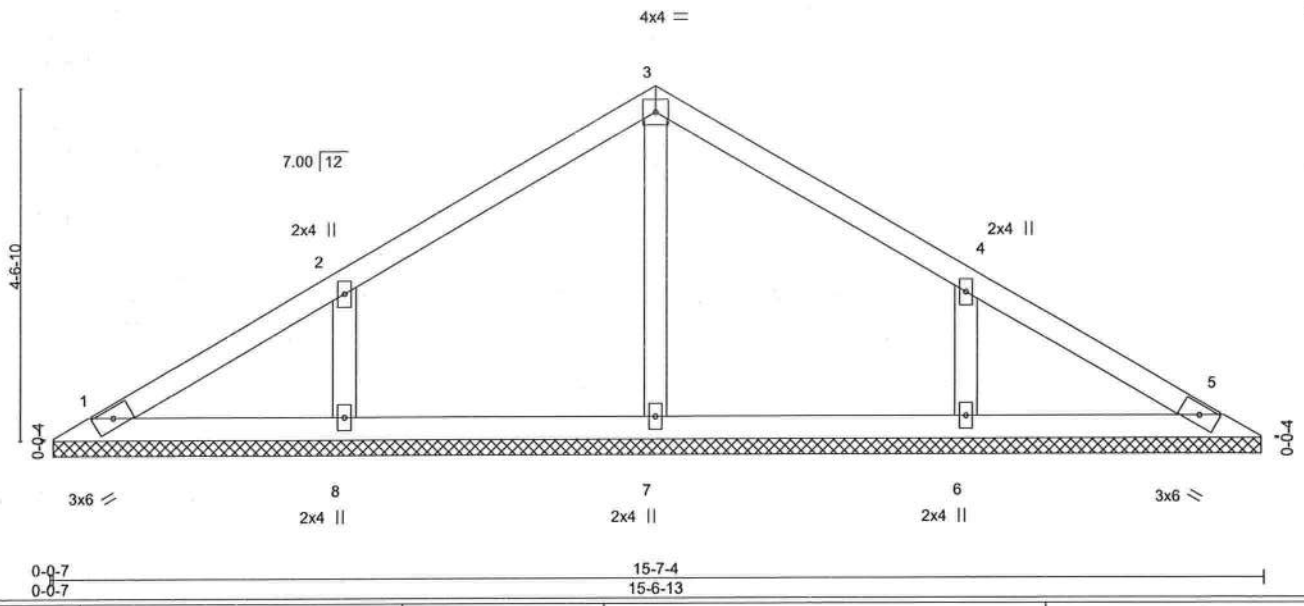
7-9-10 / 7-9-10 | 15-7-4 / 7-9-10

Scale = 1:29.8



0-0-7 / 0-0-7 | 15-7-4 / 15-6-13

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-6-7.
(lb) - Max Horz 1=-105(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-165(LC 12), 6=-165(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=333(LC 19), 6=333(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-9-10, Zone1 3-9-10 to 7-9-10, Zone2 7-9-10 to 11-9-10, Zone1 11-9-10 to 15-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=165, 6=165.

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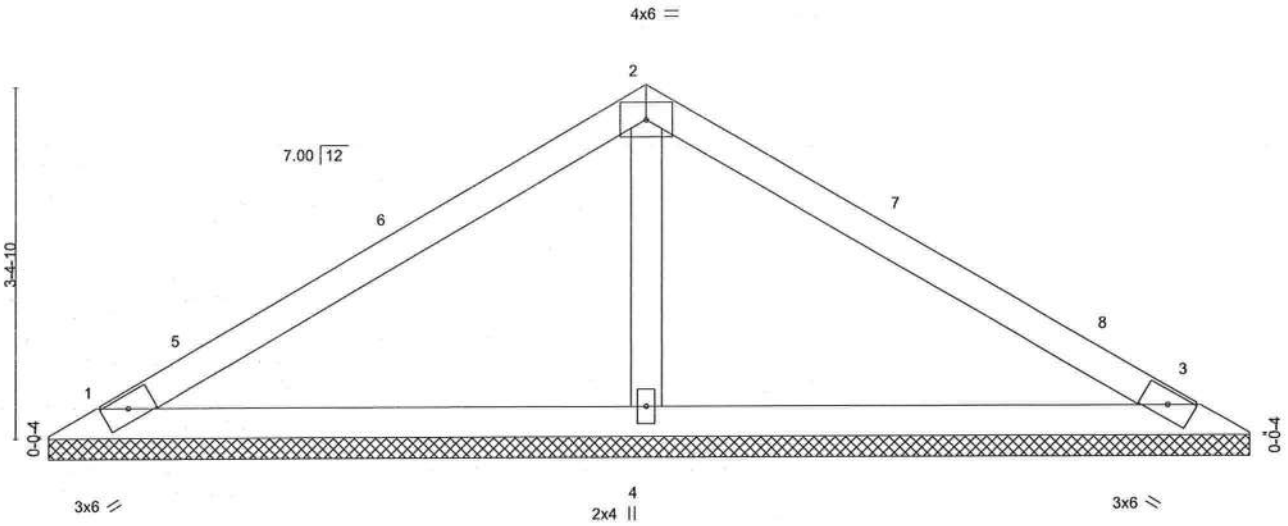
Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792909
3975847	V08	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:23 2024 Page 1
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-GLfo5G8w_P5KcnTa9NDBvq2?97UTnwOQ3Sr3MfzIsWI

5-9-10 / 5-9-10 | 11-7-4 / 5-9-10

Scale = 1:22.2



0-0-7 / 0-0-7 | 11-7-4 / 11-6-13

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 39 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=11-6-6, 3=11-6-6, 4=11-6-6
Max Horz 1=-76(LC 10)
Max Uplift 1=-60(LC 12), 3=-70(LC 13), 4=-75(LC 12)
Max Grav 1=183(LC 1), 3=183(LC 1), 4=412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-260/143

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 5-9-10, Zone2 5-9-10 to 10-0-9, Zone1 10-0-9 to 11-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792910
3975847	V09	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:23 2024 Page 1
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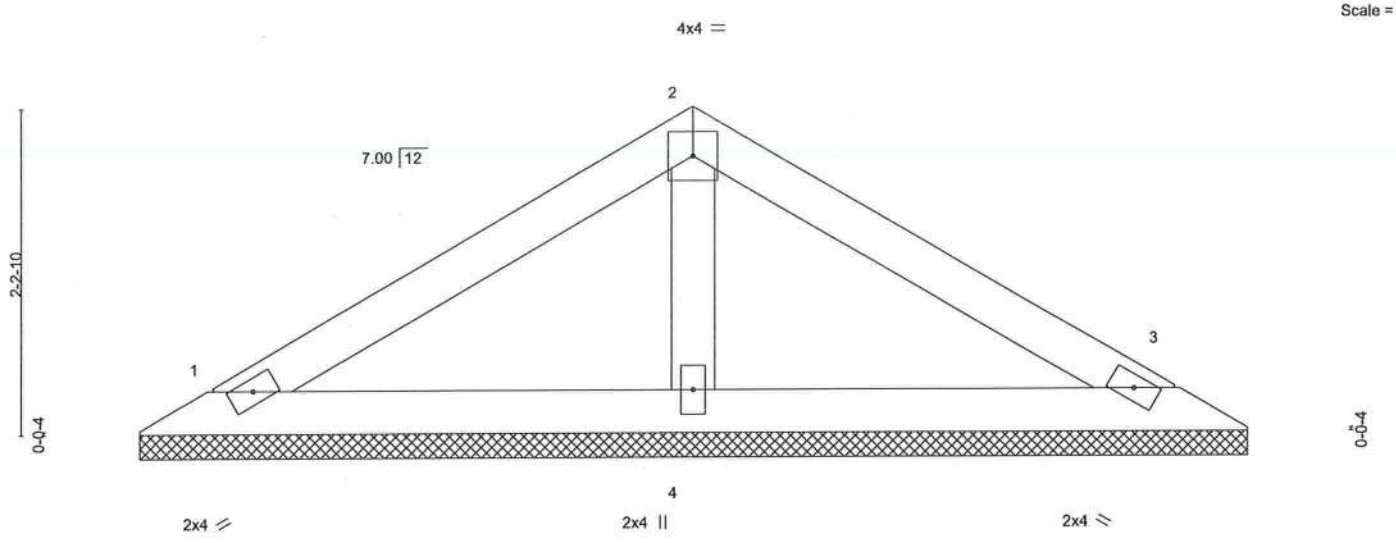
3-9-10 / 3-9-10 — 7-7-4 / 3-9-10

Scale = 1:15.7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-6-7, 3=7-6-7, 4=7-6-7
Max Horz 1=-47(LC 10)
Max Uplift 1=-37(LC 12), 3=-44(LC 13), 4=-46(LC 12)
Max Grav 1=114(LC 1), 3=114(LC 1), 4=255(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792911
3975847	V10	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:24 2024 Page 1
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8-10-7 | 17-8-13
8-10-7 | 8-10-7

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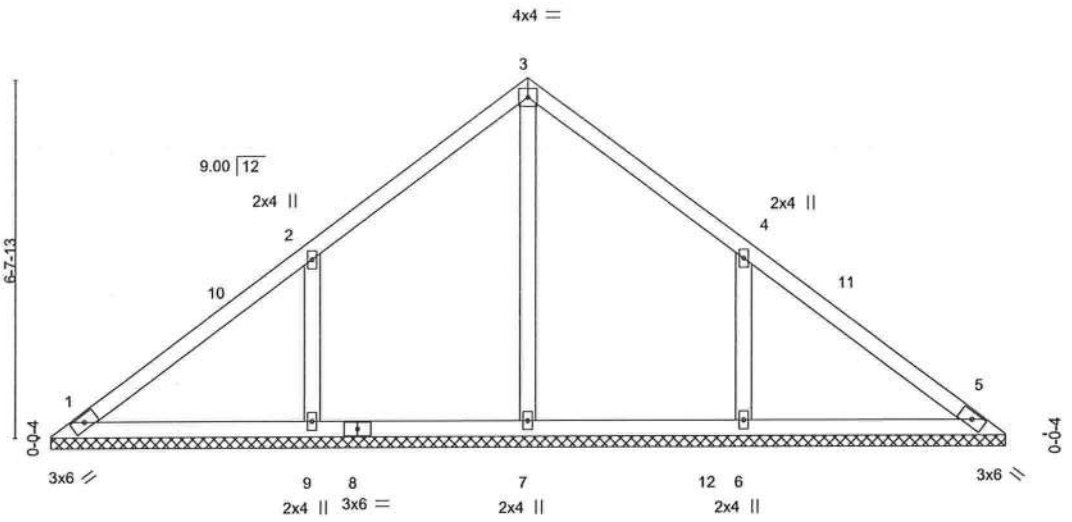

0-0-5 | 17-8-13
0-0-5 | 17-8-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 76 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-8-2.
(lb) - Max Horz 1=-156(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-237(LC 12), 6=-236(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=327(LC 22), 9=497(LC 19), 6=499(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-303/255, 4-6=-303/255

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 8-10-7, Zone2 8-10-7 to 12-10-7, Zone1 12-10-7 to 17-3-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=237, 6=236.

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May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792912
3975847	V11	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Tue May 7 14:39:24 2024 Page 1
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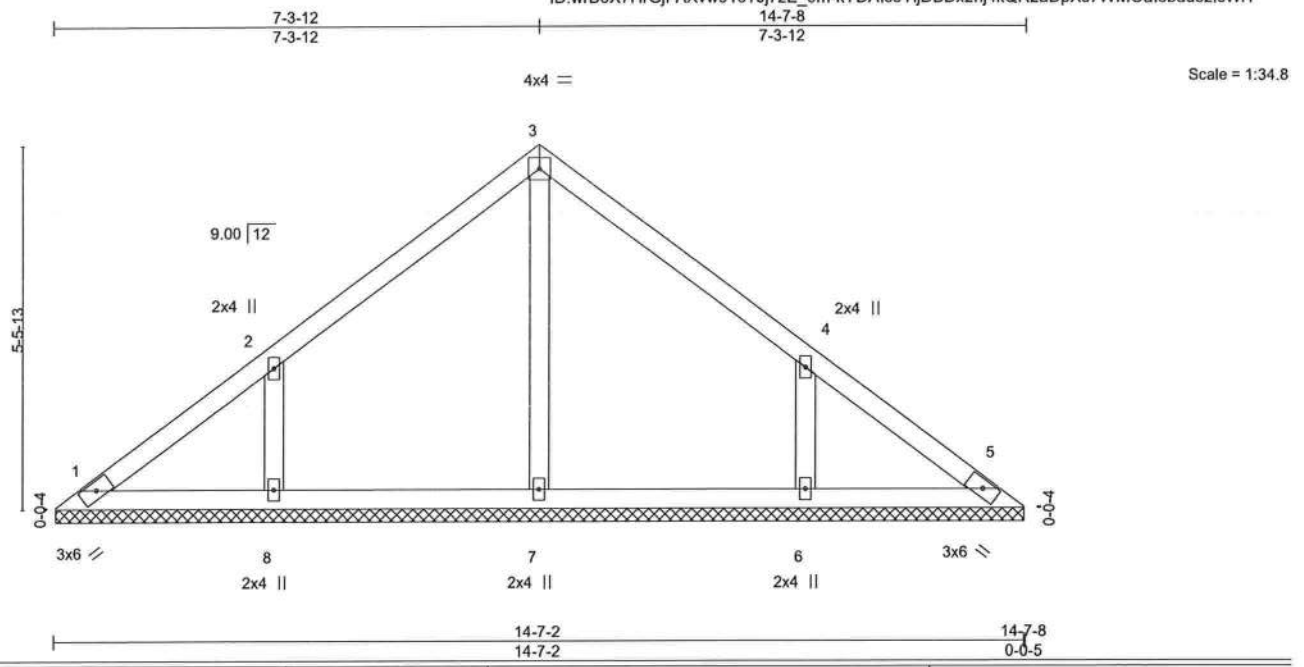

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-6-13.
(lb) - Max Horz 1=-127(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-192(LC 12), 6=-192(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=326(LC 19), 6=326(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-3-12, Zone1 3-3-12 to 7-3-12, Zone2 7-3-12 to 11-3-12, Zone1 11-3-12 to 14-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=192, 6=192.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792913
3975847	V12	Valley	1	1	Job Reference (optional)	

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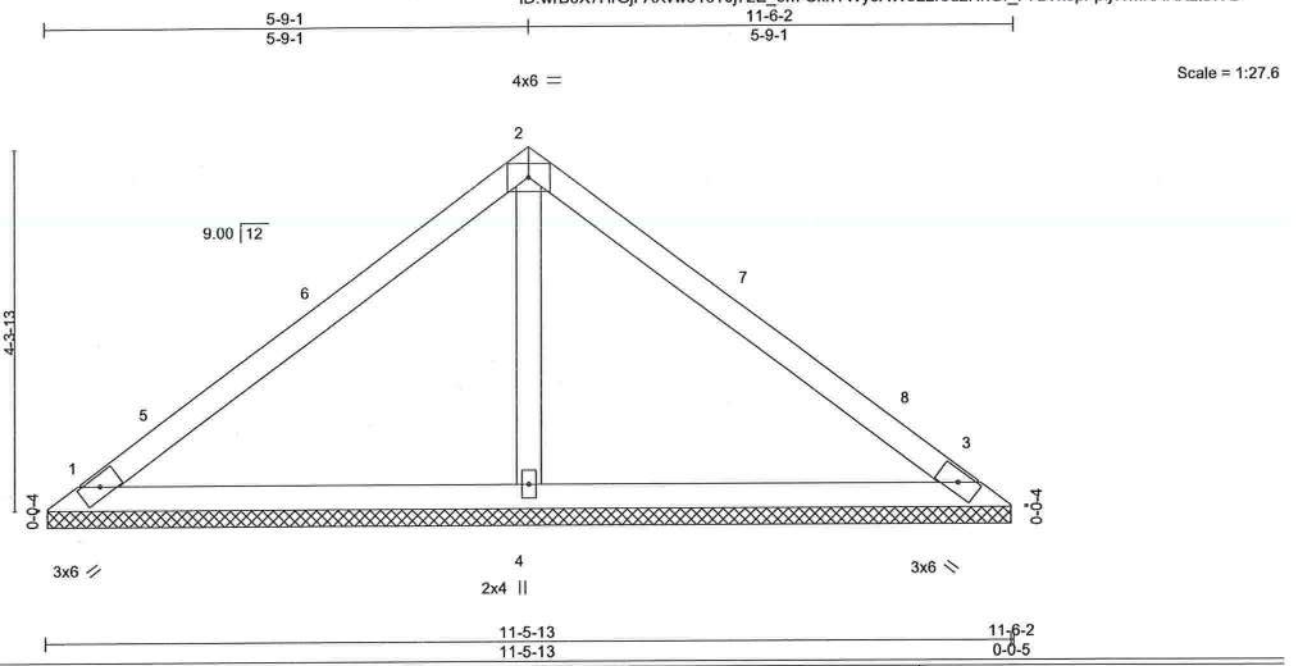
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-CknYWy9AW0L2r5dzHnGf_F7LVx9pFpfjWmKARXzIsWG



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=11-5-8, 3=11-5-8, 4=11-5-8
Max Horz 1=99(LC 9)
Max Uplift 1=-61(LC 12), 3=-74(LC 13), 4=-67(LC 12)
Max Grav 1=200(LC 1), 3=200(LC 1), 4=387(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 5-9-1, Zone2 5-9-1 to 10-0-0, Zone1 10-0-0 to 11-0-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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Date:

May 8,2024

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792914
3975847	V13	Valley	1	1	Job Reference (optional)	

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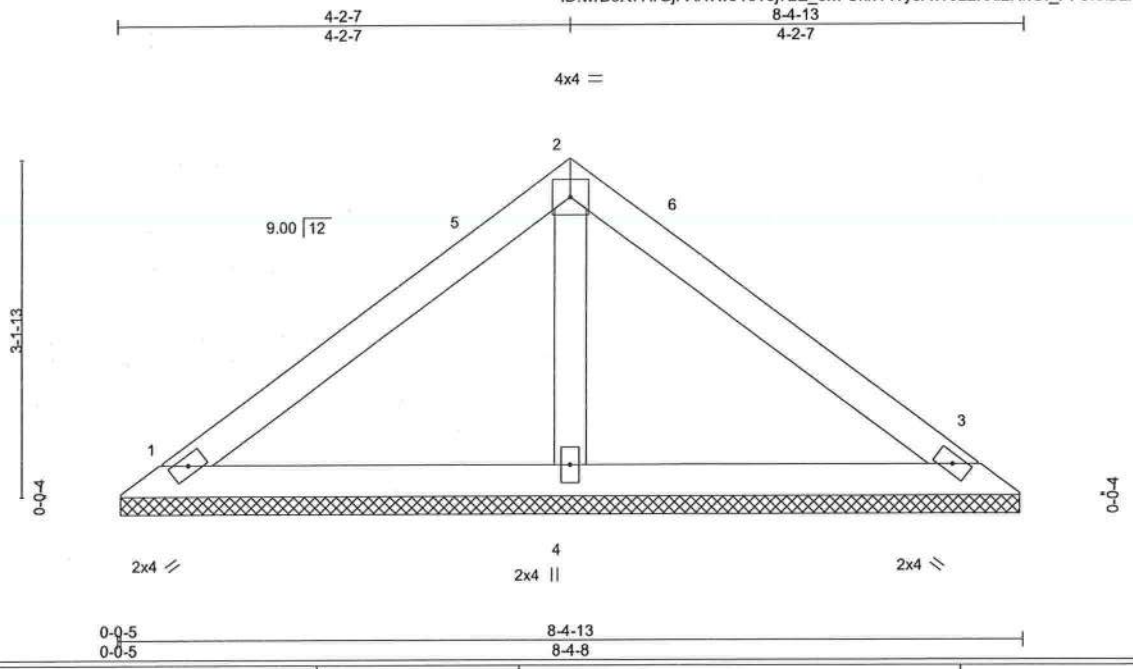
ID:wrB0X7HrGjFAXvw916TJj7zE_0m-CknYWy9AW0L2r5dzHnGf_F7OxxBzFqIjWmKARXzIsWG



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=8-4-2, 3=8-4-2, 4=8-4-2
Max Horz 1=-70(LC 8)
Max Uplift 1=-43(LC 12), 3=-52(LC 13), 4=-47(LC 12)
Max Grav 1=141(LC 1), 3=141(LC 1), 4=274(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 4-2-7, Zone3 4-2-7 to 7-11-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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Job	Truss	Truss Type	Qty	Ply	FEAGIN - YATES RES.	T33792915
3975847	V14	Valley	1	1	Job Reference (optional)	

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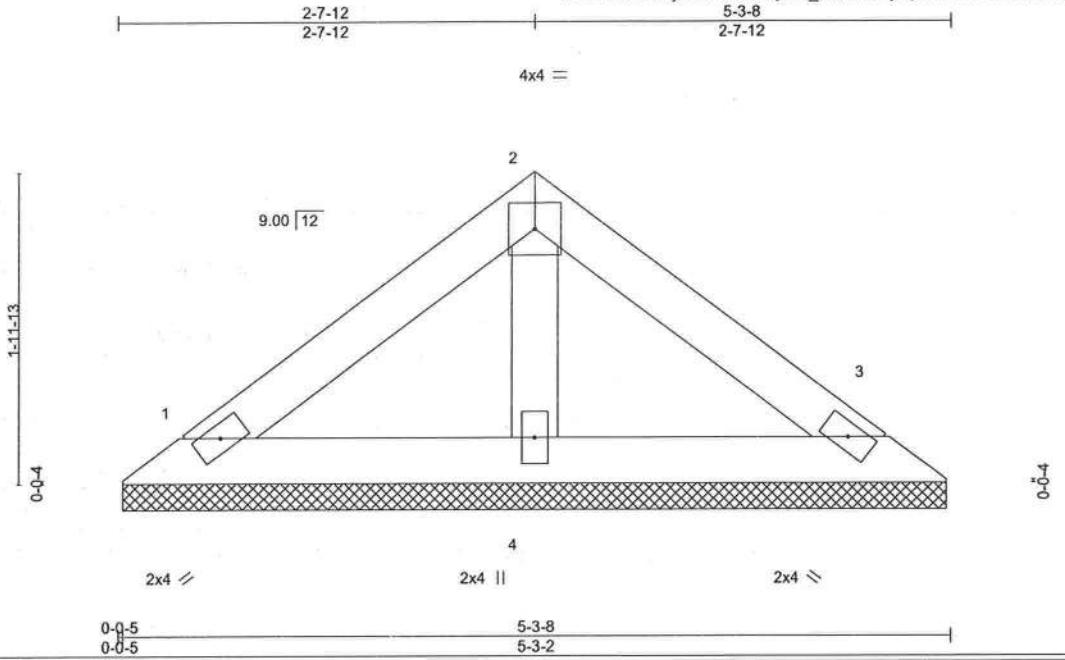

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-2-13, 3=5-2-13, 4=5-2-13
Max Horz 1=-41(LC 8)
Max Uplift 1=-31(LC 12), 3=-36(LC 13), 4=-16(LC 12)
Max Grav 1=90(LC 1), 3=90(LC 1), 4=146(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
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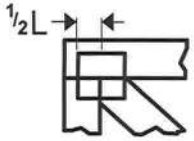
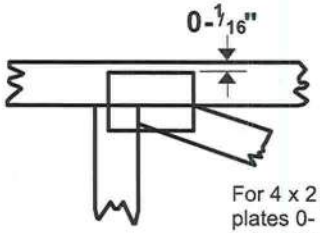
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

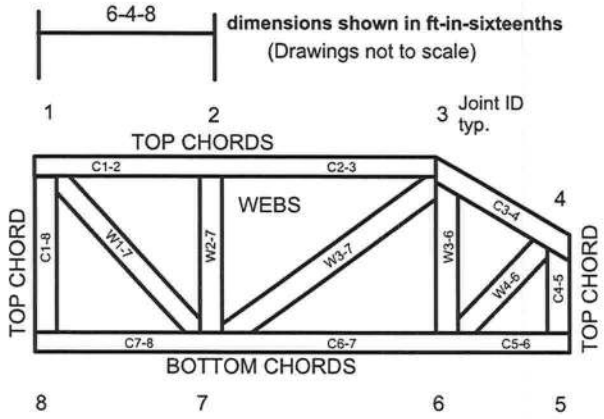
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.