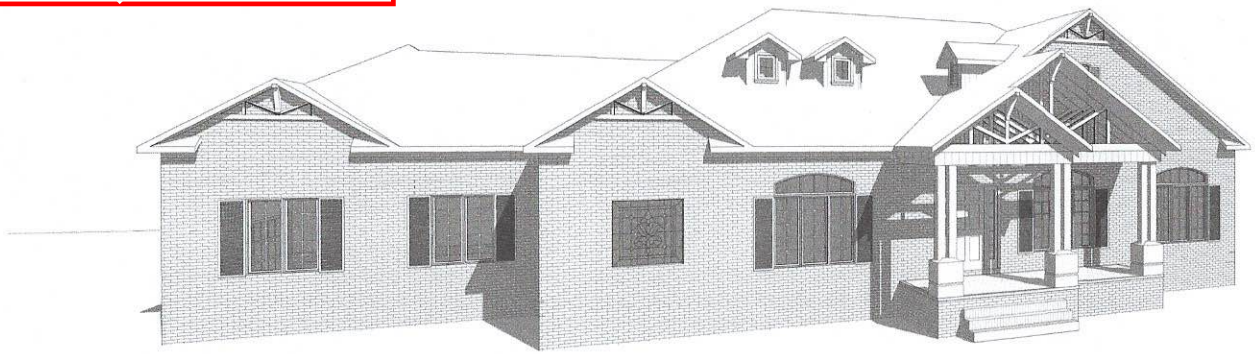
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

03/16/2021

Harnett COUNTY NORTH CAROLINA



1 3D View - Front

Square Footage

Heated	
First Floor	2060 Sq Ft
Total	2060 Sq Ft
Unheated	
Garage	630 Sq Ft
Front Porch	160 Sq Ft
Deck	240 Sq Ft
Total	1030 Sq Ft

General Notes:

1. Design Loads: Local
2. Materials
   - A. Brick — Face Brick Standard: ASTM C216-84, Grade SW. Brick type and color to be chosen by owner.
   - B. Mortar — ASTM C270, Type S. Mortar style and color consult owner. Do not use calcium chloride in mortar.
   - C. Brick Ties — ASTM A82 steel wire, hot dip galvanized after fabrication to ASTM A 153A 153M, Class B
   - D. Insulation — ASTM C665, pre-formed glass fiber batt (R-19)
   - E. Wood Framing — No. 2 Southern Pine
   - F. Waterproofing — #15 asphalt felt
   - G. Roof Shingles — Match existing
3. Masonry
   - A. Install mortar in accordance with premix mortar instructions or in accordance with ASTM C780.
   - B. Clean mortar off exposed finished surfaces immediately following placement.
   - C. Conform to the applicable code requirements for masonry construction and guidelines outlined by the Brick Institute of America.
   - D. Provide brick ties.
   - E. Cut masonry units with motor-driven saws to provide clean, sharp, unchipped edges.
   - F. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Place through-wall flashing on sloping bed of mortar and cover with mortar. Seal penetrations in flashing with adhesive/sealant/tape as recommended by flashing manufacturer before covering with mortar.
   - G. Install weep holes in the head joints in exterior wythes of the first course of masonry immediately above embedded flashings as follows:
     - Keep head joints free and clear of mortar.
     - Space weep holes 24 inches o/c.
   - H. Weep Holes:
   - I. After wall construction is complete, clean brick with a non-acidic solution recommended by masonry unit manufacturer.
4. Insulation
   - A. Verify that adjacent materials and insulation materials are dry.
   - B. Install insulation per manufacturer's instructions.
   - C. Tape seal tears or cuts in vapor retarder.
5. Wood Framing
   - A. All field nailing will comply with the North Carolina State Building Code Fastening Schedule Table 2304.9.1 unless noted otherwise. All nails are to be common nails.
   - B. Miscellaneous framing not shown on the structural drawings may be required in some areas. Contractor will provide all framing required to complete the project.
   - C. Exterior Wall Sheathing:
     - a) Sheathing will be 1/2" plywood APA rated sheathing with an exterior exposure 1 durability rating.
     - b) Place long dimension of sheathing perpendicular to studs in a staggered arrangement. Fasten to studs with 10d common nails 6"o/c at all panel edges and 12"o/c at intermediate supports. Block all unsupported edges.
     - c) Leave 1/4" space at all panel edge joints and 1/8" space at all panel end joints unless otherwise recommended by manufacturer.
   - D. Plywood Roof Sheathing
     - a) Roof sheathing is to be APA rated with an exterior exposure 1 rating and a panel span rating of 32/16. Thickness of sheathing is to match existing roof sheathing thickness.
     - b) Place long dimension of sheathing perpendicular to outriggers. Remove sections of existing sheathing and stagger every other new plywood sheet back to the 2nd interior roof truss. Fasten to trusses and outriggers with 10d common nails, 6"o/c at all panel edges and 12"o/c at intermediate supports. Block all unsupported edges.
     - c) Leave 1/4" space at all panel edge joints and 1/8" space at all panel end joints unless otherwise recommended by the manufacturer.
   - E. Do not cut or notch new or existing framing unless required on this drawing.
6. Miscellaneous
   - A. The contractor will be responsible for properly guying and bracing the structure to resist live, dead, wind and construction loads during construction.
   - B. Verify all existing building dimensions, elevations and details with the field conditions.

Climate Zone	Zone 3	Zone 4	Zone 8
Fenstration U-Factor	0.35	0.35	0.35
Skylight U-Factor	0.65	0.60	0.60
Glazed Fenstration SHGC	0.30	0.30	0.30
Ceiling R-Value	30	38	38
Wall R-Value	15	15	19
Floor R-Value	19	19	30
*Basement Wall R-Value	10/13	10/13	10/13
**Slab R-Value	0	10	10
**Crawl Space Wall R-Value	5/13	10/13	10/13

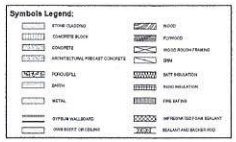
*10/13 means R-10 sheathing insulation or R-13 cavity insulation
** Insulation depth with monolithic slab 18" or from inspection gap to bottom of footing; Insulation dept with stem wall slab 24" or to bottom of foundation wall.

Design Pressure for Doors and Window
Positive and Negative in PSF

	Mean Roof Height (FT)		
Velocity (MPH)	15	25	35
90	15	17	19
100	20	23	25
110	25	29	32
Assumed Mean Roof Height 25'-9"			

Designed for windspeed of 110 MPH,
3 Second Gust (95 Fastest Mile) Exposure "B"

Symbols Legend:



Air Leakage
Section N1102.4
N1102.4.1 Building Thermal Elnvelop. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code:
1. Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.
2. Capping and sealing shafts or chases, including flue shafts.
3. Capping and sealing soffit or dropped ceiling areas.

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Cameron, NC

Hymbaugh Residence

Cover Sheet

SCALE:

DATE: 1/27/21

Project number: 0222010001

Drawn by: TP

Checked by: TP

C

Floor Plan Notes:

1. All structural information shown is for reference purposes only. Contractor shall have licensed structural engineer review and design all structural elements such as all framing walls, beams, connections, headers, joists and rafters.
2. All dimensions are from center line of stud to face of exterior stud unless noted otherwise.
3. Window sizes indicated on plans are noted by approximate rough opening size. Refer to plans and exterior elevations for window types.
4. Coordinate location of utility meters with site plan and locate away from public view visual impact shall be minimized, i.e. mount as low as possible.
5. Prefabricated fireplace construction shall meet or exceed all applicable codes regarding use of fire separations, clearances, etc. It is all items and contractor's responsibility to ensure that all items and construction meet or exceed the applicable code. Overall flue height shall be coordinated to match height shown on plans and shall not exceed the top of chimney chase as constructed.
6. Contractor shall coordinate all closet shelving requirements.
7. Do not scale drawings. Follow dimensions only.
8. Contractor shall field verify all cabinet dimensions before fabrication.
9. Bedroom windows shall have a minimum net clear opening of 5.7 sq. ft. A minimum net clear openable width of 20". A minimum net clear openable height of 24" and have a maximum finish sill height of 43" from finish floor.
10. All glass located within 18" of floor, 12" of a door of located within 60" of floor at bathtubs, whirlpools, showers, saunas, steam rooms or hot tubs shall be tempered.
11. All exposed insulation shall have a flame spread rating of less than 25 and a smoke density rating of less than 450.
12. Provide combustion air vents, with screen and back damper, for fireplaces, wood stoves and any appliance with an open flame.
13. Bathrooms and utility rooms shall be vented to the outside with a minimum of a 90 cfm fan. Range hoods shall also be vented to outside.
14. Attic HVAC units shall be located within 20'-0" of its service opening. Return air grilles shall not be located within 10'-0" of a gas fired appliance.
15. All walls and ceilings in garage and garage storage areas to have 5/8" Type-X gyp. brd. with 1-Hour fire rating. All exterior doors in garage to be metal or solid core doors including doors entering heat/cooled portion of residence.
16. All fireplace chase walls shall be insulated inside and outside. Provide horizontal "Draft Stops" at each floor level by packing 6" (R-19) insulation between 2X4 joists.
17. All interior walls shall be covered with 1/2" gyp. brd., with metal corner reinforcing, tape float and sand. (3 coats) use 5/8" gyp. brd. on ceilings when supporting members are 24" O.C. or greater. Use 1/2" gyp. brd. on ceiling members less than 24" O.C.
18. All bath and toilet area walls and ceiling shall have water resistant gyp. brd.

Smoke Alarms
Section R314
R314.1 Smoke Detection and Notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with provisions of this code and the household fire warning equipment provisions fo NFPA 72.
R314.2 Smoke Detection Systems. Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible nitification device installed as required by this section for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required by this section for smoke alarms. Where a houshold fire warning system is installed using a combination of smoke detector and audible notification device(s), it shall become a permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by and approved supervising station and be maintained in accordance with NFPA72.
Exception:
Where smoke alarms are provided meeting the requirements of Section R314.4.
R314.3 Location. Smoke alarms shall be installed in the following locations:
1. In each sleeping room.
2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.
3. On each additional story of the dwelling, including basements and habitable attics (finished) but not including crawl spaces, unihabitable (unfinished) attics and unianhabitable (unfinished) attic-stories. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less thatn one full story below the upper level.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shll be interconnected in such a manner that that the actuation of one alarm will activate all of the alarms in the individual unit.
R314.4 Power Source. Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnection switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.

Carbon Monoxide Alarms
Section R315
R315.1 Carbon Monoxide Alarms. Inn new contruction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area in the immediate vicinity of the bedroom(s) as directed by the alarm manufacturer.
R315.2 Where Required in Existing Dwellings. In existing dwellings, where interior alterations, reperis, fuel-fired appliance replacements, or additions requiring a permit occures, or where one or more sleeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section R315.1.
R315.3 Alarm Requirements. The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with UL2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

Attic Access
Section R807
R807.1 Attic Access. An attic access opeing shall be provided to attic areas that exceed 400 square feet and have a vertical height of 30 inches or greater. The net clear opening shall not be less than 20 inches by 30 inches and shall be located in the hallway or other unobstructed area. Headroom in the attic space shall be provided at some point above the access opening. See Sectio M1305.1.3 for access requirements where mechanical equipments located above attics.

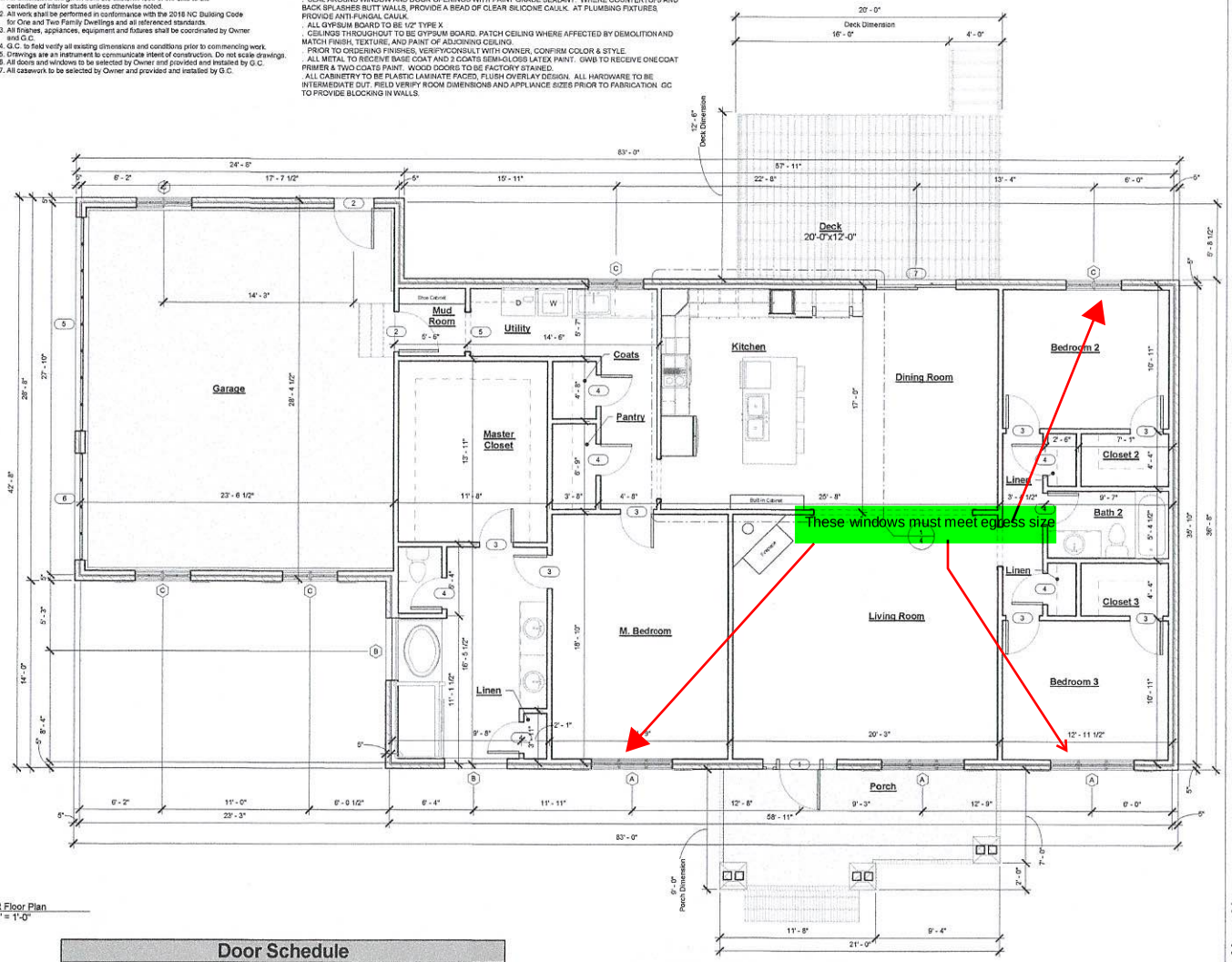
Exceptions:
1.Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.
2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear area

Walls & Thicknesses
All walls are 3 1/2" thick 2x4 nominal studs SYP or *SPF #2* @ 16 " O.C. unless otherwise noted.
Exterior walls are drawn to actual dimensions to include both interior and exterior finishes. Measurements to exterior walls are to the exterior face of wall stud.
Garage walls are drawn to actual dimensions. Measurements to exterior walls are to the exterior face of wall stud. Measurements to walls between the residence and the garage a to the face of the stud on the garage side.
Interior walls are drawn to actual dimension. Measurements to interior walls are to the center line of the wall.

Dwelling/Garage Separation
REFER TO SECTIONS R302.6,R302.6, AND R302.7
Walls. A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.
Stairs. A minimum of 1/2" gypsum must be installed on the underside and exposed sides of all stairways.
Ceilings. A minimum of 1/2" gypsum must be installed on the garage ceiling if there is no habitable room above. If a habitable room is above, a minimum of 5/8" Type X gypsum board must be installed on the the garage ceiling.
Opening Penetrations. Openings between the garage and the residence shall be equipped with solid wood doors not less than 1 3/8 inches in thickess, solid or honeycomb core steel doors not less than 1 3/8 inches thick, or 20-minute fire-rated doors.
Duct Penetrations. Ducts in the garage and ducts penetrating the walls or ceilings separtion the dwelling from the garage shall be constructed of a minimum No. 26 gage sheet steel or other approved material and shall have no openings into the garage.
Other Penetrations. Penetrations through the separtion required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

General Notes:
1. All dimensions are given from the exeterior face of the stud to the centerline of interior studs unless otherwise noted.
2. All work shall be performed in conformance with the 2018 NC Building Code for One and Two Family Dwellings and all referenced standards.
3. All finishes, appliances, equipment and fixtures shall be coordinated by Owner and G.C.
4. G.C. to field verify all existing dimensions and conditions prior to commencing work.
5. Drawings are an instrument to communicate intent of construction. Do not scale drawings.
6. All doors and windows to be selected by Owner and provided and installed by G.C.
7. All casework to be selected by Owner and provided and installed by G.C.

FINISHES
SEAL AROUND WINDOW AND DOOR OPENINGS WITH PAINT GRADE SEALANT. WHERE COUNTERTOPS AND BACK SPLASHES BUTT WALLS, PROVIDE A BEAD OF CLEAR SILICONE CAULK. AT PLUMBING FIXTURES, PROVIDE ANTI-FUNGAL CAULK.
ALL GYPSUM BOARD TO BE 1/2" TYPE X
CEILINGS THROUGHOUT TO BE GYPSUM BOARD. PATCH CEILING WHERE AFFECTED BY DEMOLITION AND MATCH FINISH, TEXTURE, AND PAINT OF ADJOINING CEILING.
PRIOR TO ORDERING FINISHES, VERIFY/CONSULT WITH OWNER, CONFIRM COLOR & STYLE.
ALL METAL TO RECEIVE BASE COAT AND 2 COATS SEMI-GLOSS LATEX PAINT. GWB TO RECEIVE ONE COAT PRIMER & TWO COATS PAINT. WOOD DOORS TO BE FACTORY STAINED.
ALL CABINETRY TO BE PLASTIC LAMINATE FACED, FLUSH OVERLAY DESIGN. ALL HARDWARE TO BE INTERMEDIATE DUT. FIELD VERIFY ROOM DIMENSIONS AND APPLIANCE SIZES PRIOR TO FABRICATION. GC TO PROVIDE BLOCKING IN WALLS.



1 First Floor Plan
1/4" = 1'-0"

Door Schedule

Mark	Count	Door Size	Frame Type	Description	Comments
1	1	36" x 84"			
2	2	36" x 80"		Room Door	
3	7	30" x 80"		Closet Door	
4	7	28" x 80"			
5	1	Overhead Garage Door Colonial Dbl			
6	1	Overhead Garage Door Colonial Single			
7	1	72" x 80"			

Window Schedule

Mark	Count	Rough Opening Width	Rough Opening Height	Comments
A	3	6' - 3"	7' - 3 1/2"	
B	2	5' - 0"	5' - 0"	
C	5	6' - 3"	7' - 3 1/2"	
JJ	10	3' - 0"	5' - 4"	
O	4	2' - 0"	2' - 0"	
OO	3	1' - 6"	2' - 0"	

IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND OR BUILDER TO CONFORM TO ALL STANDARDS, PROVISIONS, REQUIREMENTS, METHODS OF CONSTRUCTION AND USES OF MATERIALS, IN BUILDING CODES ANY OTHER LOCAL AGENCIES AND IN ACCORDANCE WITH GOOD ENGINEERING AND CONSTRUCTION PRACTICES.

I CERTIFY THAT THE CONSTRUCTION EXHIBITED FOR IDENTIFICATION OF THE PROPERTY BY HOUSE TYPE, LOT, LOCK, SUBDIVISION NAME, AND SO ON) MEET ALL LOCAL CODE REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAH AND VA MINIMUM PROPERTY REQUIREMENTS. ALL BUILDING STANDARDS AS SET FORTH BY THE INTERNATIONAL CODE COUNCIL (ICC) AND FEDERAL SAFE DRINKING WATER PLUMBING STANDARD.

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First Floor Plan

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

DATE: 1/27/21

Project number 0222010001

Drawn by TP

Checked by TP

Elevation Notes:

1. Gutters and downspouts are not shown for clarity, downspouts shall be located towards the front and rear of the house. Locate downspouts in non-visually offensive locations. General contractor shall verify existing grades and coordinate any necessary drainage requirements with owner.
2. Plumbing and HVAC vents shall be grouped in attic to limit roof penetrations and to be located away from public view and shall be primed and painted to match roof color where necessary.
3. Provide attic ventilation per local code requirements.
4. Exterior flashing shall be correctly installed at all connections between roofs, walls, chimneys, projections and penetrations as required by approved construction practices.
5. Contractor shall provide adequate attic ventilations/roof vents per local governing code. Install continuous ridge ventilation and match to roof. Provide appropriate soffit ventilation at overhangs.

Exterior Windows And Doors

Section R612

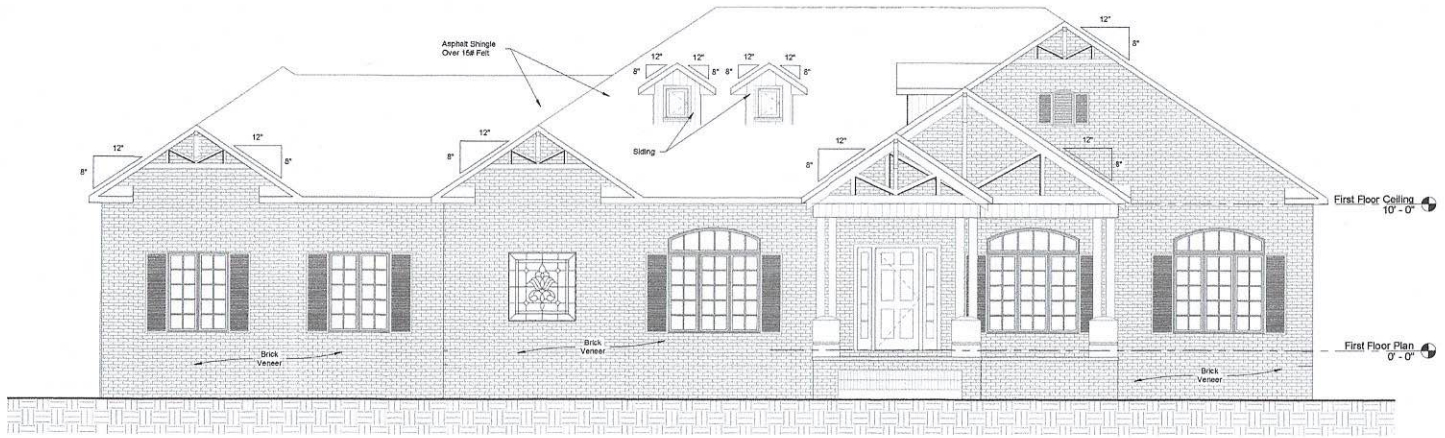
R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in exterior walls. Windows and doors shall be installed and flashed according with the manufacturer's installation requirements for fenestration protection. Window and door openings shall be flashed in accordance with Section R703.8. Written installation instructions shall be provided by the fenestration manufacturer for each new window and door installed.

R612.2 Window Sills. In dwelling units, where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow th passage of a 4 inch diameter sphere where such openings are located within 24 inches of the finished floor.

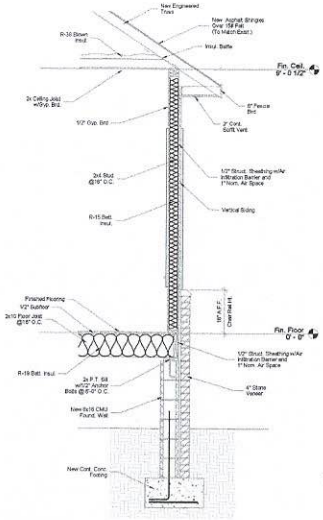
Exceptions:

1. Windows whose openings will not allow a 4 inch diameter sphere to pass through the opening when the opening is in its largest opened position.
2. Openings that are provided with window fall prevention devices that comply with R612.3.
3. Openings that are provided with window fall prevention devices that comply with ASTM F 2090.
3. Opening that are provided with openingin limiting devices that comply with section R612.4.

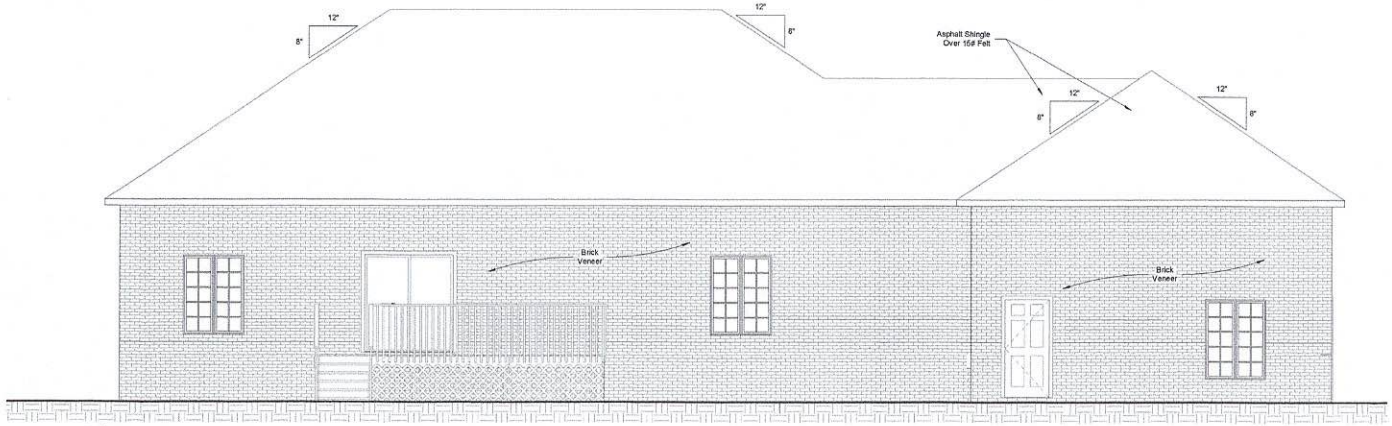
R612.3 Window Fall Prevention Devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.



1 Front
1/4" = 1'-0"



2 Wall Section Typical - 1 Story
1/2" = 1'-0"



3 Rear
1/4" = 1'-0"

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Elevations

SCALE: As Indicated

DATE: 1/27/21

Project number 0222010001

Drawn by TP

Checked by TP

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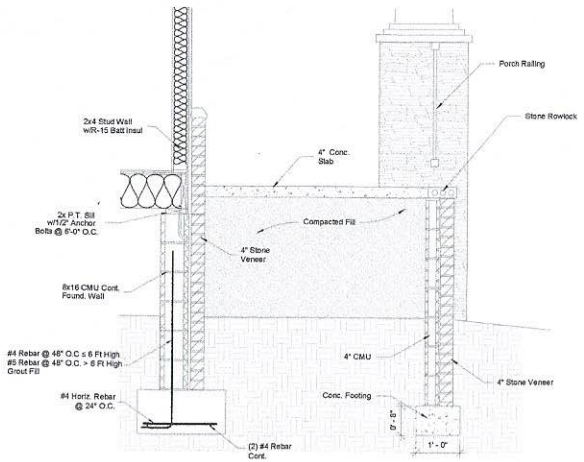
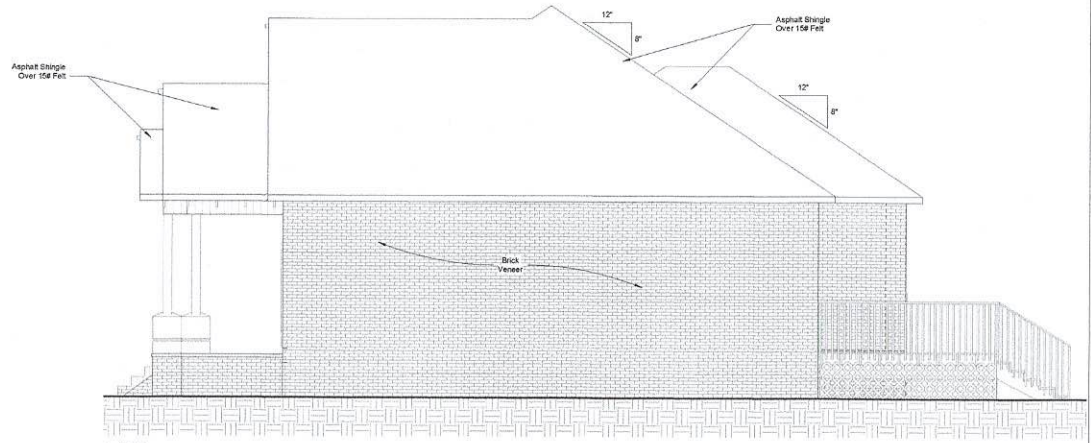
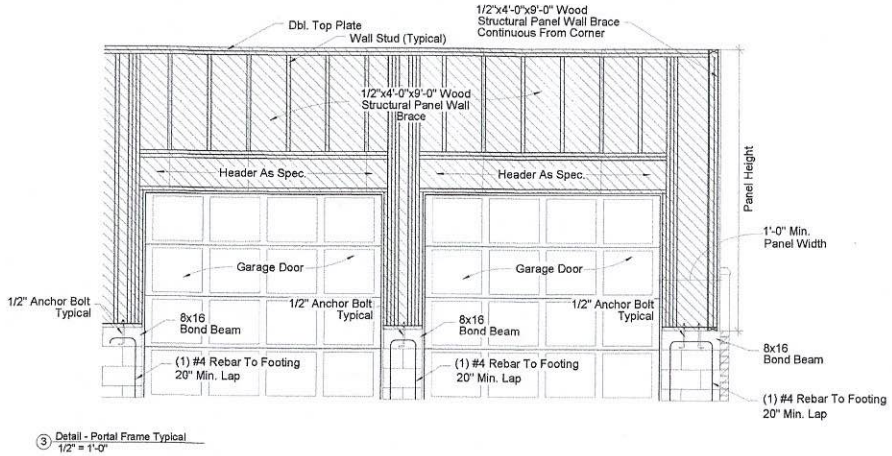


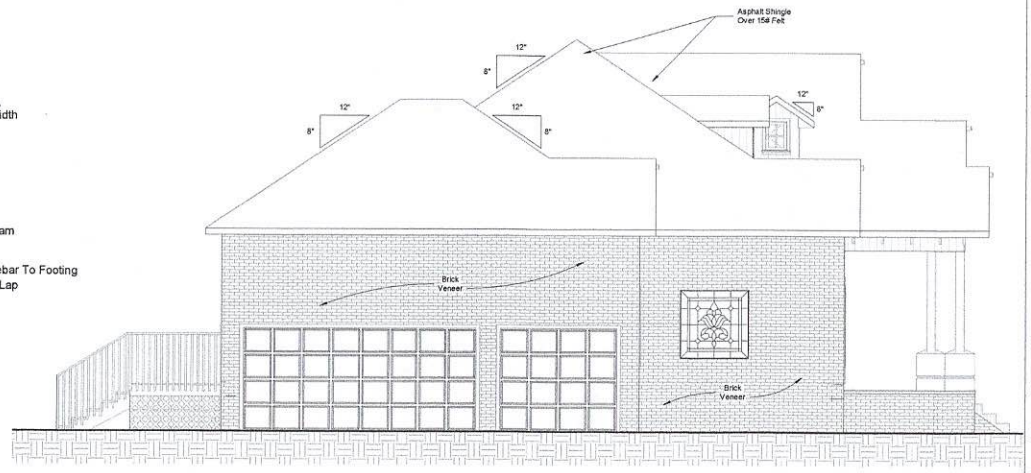
4 Section - Porch
3/4" = 1'-0"



1 Right
1/4" = 1'-0"



3 Detail - Portal Frame Typical
1/2" = 1'-0"



2 Left
1/4" = 1'-0"

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Elevations Cont.

SCALE: As Indicated

DATE: 1/27/21

Project number: 0222010001

Drawn by: Author

Checked by: Checker

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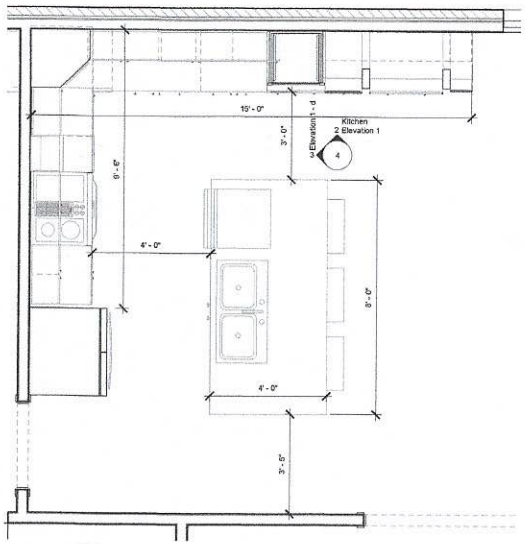
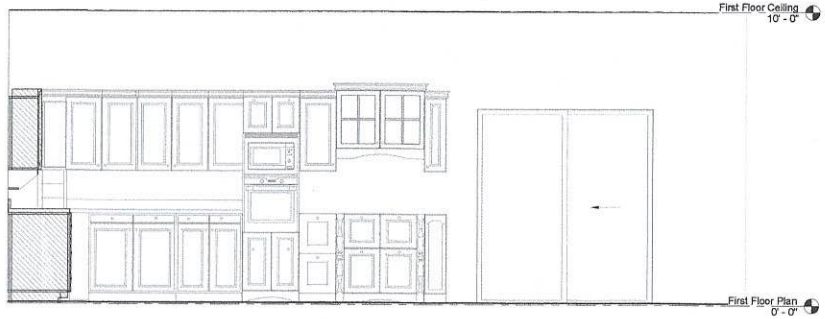
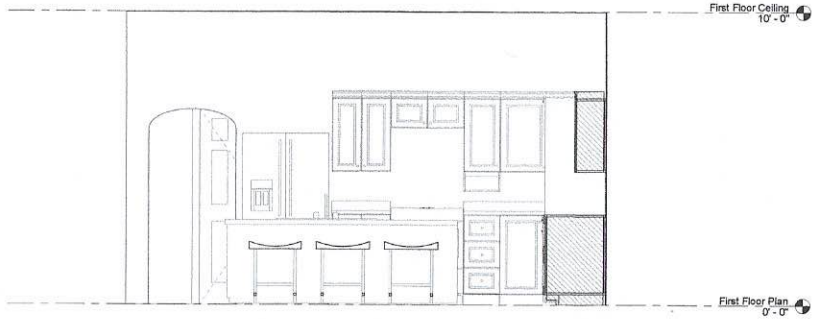


1 First Floor Plan - Callout 1
1/2" = 1'-0"



2 Kitchen Elevation 1
1/2" = 1'-0"



3 Elevation 1 - d
1/2" = 1'-0"

4 3D View Kitchen

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Hymbaugh Residence

Kitchen Plan

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

DATE: 1/27/21

Project number: 0222010001

Drawn by: Author

Checked by: Checker

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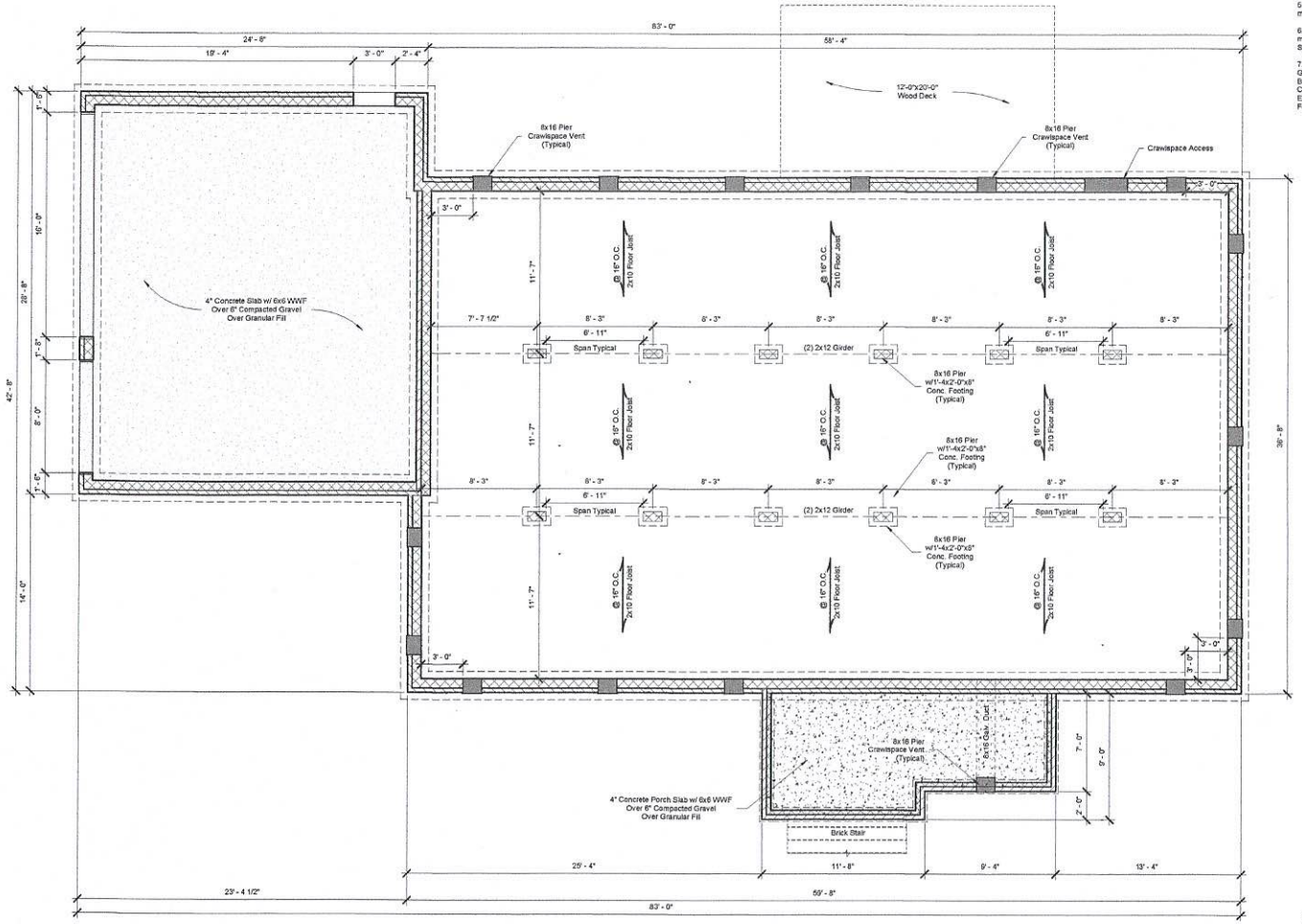


1 Foundation Plan
1/4" = 1'-0"

MASONRY NOTES:

1. Concrete dimensions are typically to face of wall.

2. All concrete slabs shall be minimum 4" thick, with 6 x 6 1.4/1.4 W.W.M welded wire fabric placed over 6 mil poly vapor barrier over a minimum 6" bed of compacted gravel

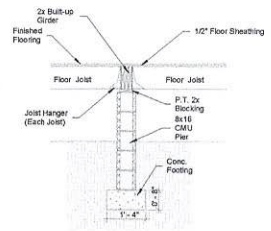
3.Provide Anchor Bolts sizes as indicated (min. 1/2"dia) on these drawings, at top of concrete foundation walls at a minimum of 1'-0" from corners and maximum 6'-0" O.C. for balance of perimeter walls, two per plate minimum.

4. All concrete footings shall bear on undisturbed virgin soil with presumptive bearing capacity of 4000 psf.

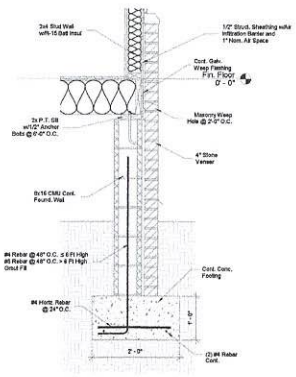
5. All concrete frost walls to have bottom of footing at minimum 1'-6" below finished grade.

6.Concrete foundation walls that exceed 8'-0" in height must be reinforced with steel designed by a licensed Structural Engineer.

7. All Concrete shall have the minimum 28 day strength:
Garage Slab 3500 psi
Basement Slab 3000 psi
Crawl Space Slab 3000 psi
Exterior Slab 3500 psi
Founation Slab 3000 psi



2 Detail - Pier & Footing
1/2" = 1'-0"



3 Detail - Foundation Wall
3/4" = 1'-0"

IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND OR BUILDER TO CONFORM TO ALL STANDARDS, PROVISIONS, REQUIREMENTS, METHODS OF CONSTRUCTION AND USES OF MATERIALS, INFRADING CODES ANY OTHER LOCAL AGENCIES AND IN ACCORDANCE WITH GOOD ENGINEERING AND CONSTRUCTION PRACTICES.

I CERTIFY THAT THE CONSTRUCTION DRAWINGS OR IDENTIFICATION OF THE PROPERTY BY HOUSE TYPE, LOT, LOCK, SUBDIVISION NAME, AND ED SIG MEET ALL LOCAL CODE REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAN AND VA MINIMUM PROPERTY REQUIRMENTS. ALL BUILDING STANDARDS AS SET FORTH BY THE INTERNATIONAL CODE COUNCIL (ICC) AND FEDERAL SAFE DRINKING WATER PLUMBING STANDARD.

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25351 NC Hwy 24/27
Cameron, NC

Hymbaugh Residence

Foundation Plan

SCALE: As indicated

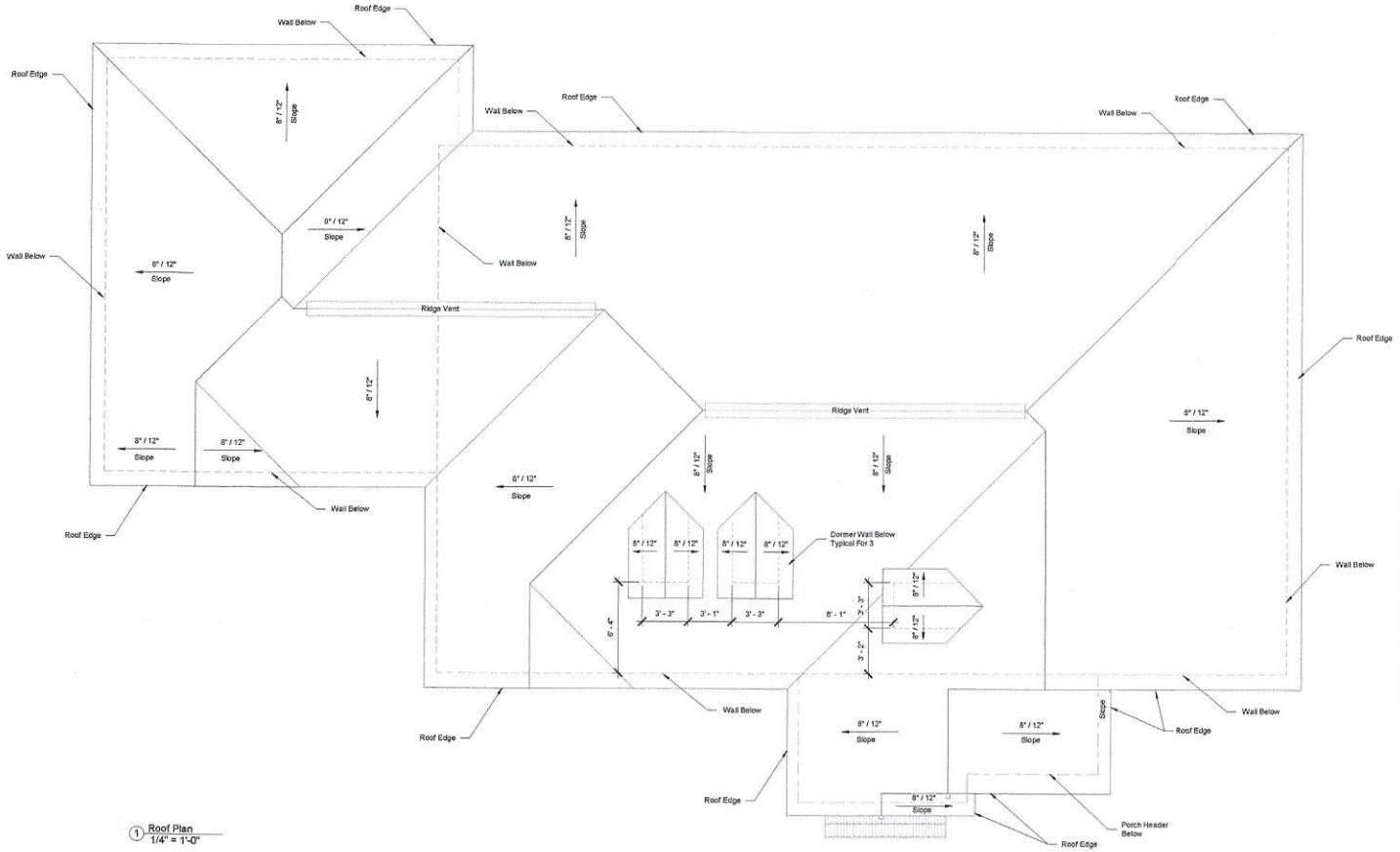
DATE: 1/27/21

Project number 0222010001

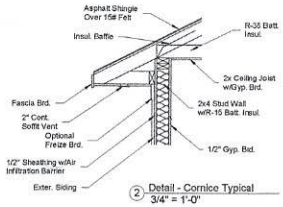
Drawn by TP

Checked by TP

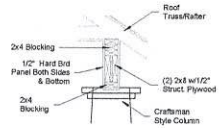
5



1 Roof Plan
1/4" = 1'-0"



2 Detail - Cornice Typical
3/4" = 1'-0"



3 Detail - Porch Header
3/4" = 1'-0"

Roofing Ventilation
Section R806

R806.1 Ventilation Required. Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of the roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch minimum nad 1/4 inch maximum. Ventilation opening having a least dimension larger than 1/4 inch shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch minimum and 1/4 inch maximum. Openings in roof framing members shall conform to the requirements of Section 802.7.

R806.2 Minimum Area. The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in teh upper portion of the space to be ventilated at least 3 feet above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice venta. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when Class I or Class II vapro retarder is installed on the warm-in-winter side of the ceiling.

Exceptions:
1. Enclosed attic/rafter spaces requiring less than 1 square foot of ventilation may be vented with continuous soffit ventilation only.
2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit ventilation only.

Square Footage Being Ventilated: 1,597 Sq. Ft.

Net Free Cross Ventilation Needed:
- Without 50% to 80% of venting 3'-0" Above Eave: 10.65 Sq. Ft.
- With 50% to 80% of venting 3'-0" above eave or Class I or Class II Vapor Retarder : 5.32 Sq. Ft.

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Cameron, NC

Hymbaugh Residence

Roof Plan

SCALE: As indicated

DATE: 1/27/21

Project number 0222010001

Drawn by TP

Checked by TP

Structural Notes
All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to superced the code.
Job Site Practice and Safety. The designer assumes no liability for contractors practices and procedures or safety plan. The designer takes no responsibility for failure to carry out construction work in accordance with contract documents. All members shall be framed, anchored, and braced in accordance with good construction safety practices and according to the code.

Roof Truss Requirements
Truss Design. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to the Designer's attention prior to commencing construction.
Knee Wall and Ceiling Heights. All finished knee wall heights and ceiling heights are shown furred down 10" from the decking for the insulation. If for any reason the truss manufacturer fails t meet or exceed designated heel heights, finished knee wall heights of finished ceiling heights shown on these plans the finished square footage may vary. Any discrepancies must be brought to the attention of the designer for a suitable solution prior to commencing construction.
Anchorage. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified by the truss manufacturer's schematics.
Bearing. All trusses shall be designed for bearing on SPF #2 plates or ledgers unles otherwise noted.
Plate Heights & Floor Systems. See Elevations and Sections for plate heights and floor thicknesses.

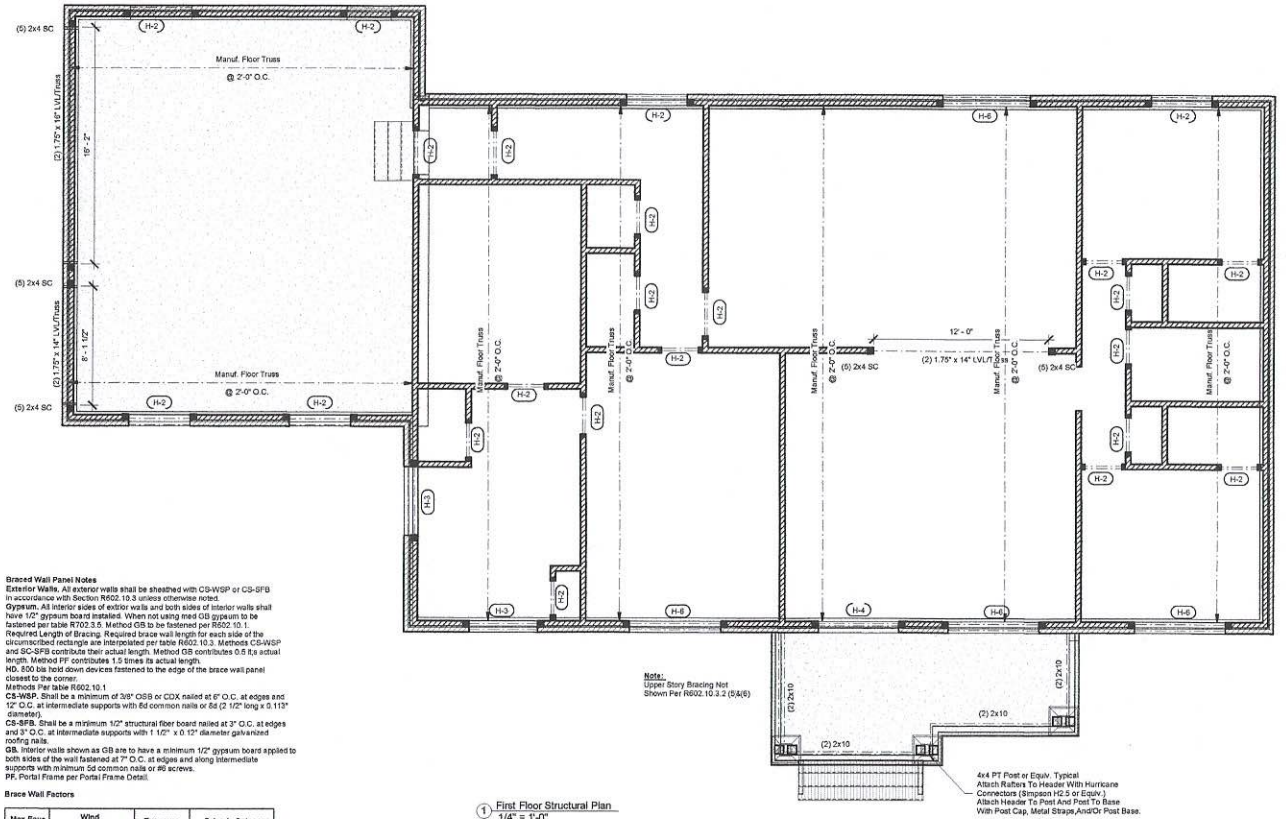
Use	Live Load (PSF)	Dead Load (PSF)	Deflection (LL)
Attic Without Storage	10	10	L/240
Attic With Limited Storage	20	10	L/360
Attic With Fixed Stairs	40	10	L/360
Balconies & Decks	40	10	L/360
Fire Escapes	40	10	L/360
Guardrails & Handrails	200	--	--
Guardrail Infill Components	50	--	--
Passenger Vehicle Garages	50	10	L/360
Rooms Other Than Sleeping	40	10	L/360
Sleeping Rooms	30	10	L/360
Stairs	40	--	L/360
Snow	20	--	--

Framing Lumber.
All non treated framing lumber shall be SPF #2 or SYP #2 and all treated lumber shall be SYP #2 unless otherwise noted
Engineered Wood Beams.
Laminated Veneer Lumber (LVL) = Fb=2600 psi, Fv=285 psi, E=1.9x10^6 psi
Parallel Strand Lumber (PSL) = Fb=2900 psi, Fv=295 psi, E=2.0x10^6 psi
Laminated Strand Lumber (LSL) = Fb=2250 psi, Fv=400 psi, E=1.55x10^6 psi
Install all connections per manufacturer's specifications.
Truss and I-Joist Members.
All roof truss and I-Joist layouts shall be prepared in accordance with this document. Trusses and I-Joists shall be installed according to manufacturer's specifications.
Lintels.
Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for upt to 6'-0" and 6" x 4" x 5/16" steel angle with 8" leg vertical for spans upt to 9'-0" unless otherwise noted.
Concrete & Soils.
See Foundation Notes

Header Schedule

Header	Size	Columns
H-1	(2) 2x4	1 Jack 1 King
H-2	(2) 2x6	1 Jack 1 King
H-3	(2) 2x8	1 Jack 1 King
H-4	(2) 2x10	2 Jack 1 King
H-5	(2) 2x12	2 Jack 1 King
H-6	(2) 1.75"x9.25" LVL	2 Jack 1 King

All non load bearing headers to be ladder framed or (2) 2x4 with 1 Jack and 1 King Stud unless otherwise noted



1 First Floor Structural Plan
1/4" = 1'-0"

Braced Wall Panel Notes
Exterior Walls. All exterior walls shall be sheathed with CS-WSP or CS-SFB in accordance with Section R602.10.3 unless otherwise noted.
Gypsum. All interior sides of extrior walls and both sides of interior walls shall have 1/2" gypsum board installed. When not using med GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per R602.10.1.
Required Length of Bracing. Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and SC-SFB contribute their actual length. Method GB contributes 0.5 ft.s actual length. Method PF contributes 1.5 times its actual length.
HD. 800 lbs hold down devices fastened to the edge of the brace wall panel closest to the corner.
Methods Per table R602.10.1
CS-WSP. Shall be a minimum of 3/8" OSB or CDX nailed at 6" O.C. at edges and 12" O.C. at intermediate supports with 8d common nails or 8d (2 1/2" long x 0.113" diameter).
CS-SFB. Shall be a minimum 1/2" structural fiber board nailed at 3" O.C. at edges and 3" O.C. at intermediate supports with 1 1/2" x 0.12" diameter galvanized roofing nails.
GB. Interior walls shown as GB are to have a minimum 1/2" gypsum board applied to both sides of the wall fastened at 7" O.C. at edges and along intermediate supports with minimum 5d common nails or #6 screws.
PF. Portal Frame per Portal Frame Detail.

Brace Wall Factors

Max Eave to Ridge	Wind Speed	Exposure	Seismic Category
13'-0"	110	B	A or B

Rectangle A

Side	Perp. Distance	Required	Provided
1	40'-0"	16'-2"	24'-8"
2	40'-0"	16'-2"	19'-8"
3	39'-0"	17'-9"	25'-3"
4	39'-0"	17'-9"	34'-2"
Wall Height: 9'-0"		Roof +1	Eave: 13'-0"

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25351 NC Hwy 24/27
Cameron, NC

Hymbaugh Residence

Structural Plan

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

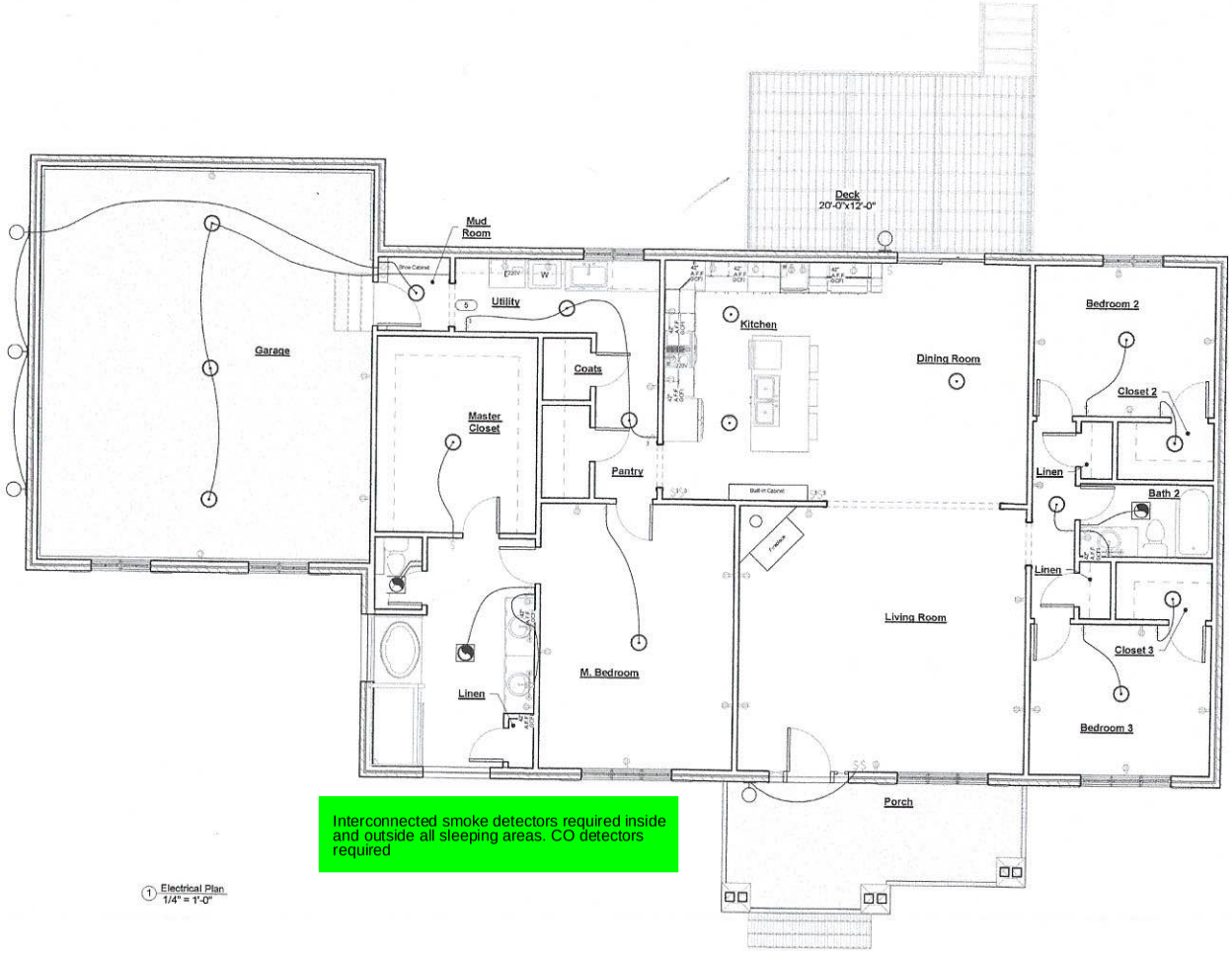
DATE: 1/27/21

Project number: 0222010001

Drawn by: Author

Checked by: Checker

ELECTRICAL LEGEND	
	DUPLEX RECEPTACLE, MOUNT AT 18" A.F.F.
GFI	DUPLEX RECEPTACLE; GROUND FAULT INTERRUPTER
WP/ GFI	DUPLEX RECEPTACLE; WEATHERPROOF/GROUND FAULT INTERRUPTER
	SINGLE POLE POWER/LIGHTING HOMERUN (SINGLE PHASE)
	2-POLE POWER HOMERUN (SINGLE PHASE)
	WALL MOUNTED VOICE/DATA OUTLET
TV	TELEVISION OUTLET
	DISCONNECT
J	JUNCTION BOX
	POWER PANEL
OS	SWITCH, OCCUPANCY SENSOR
3	3-WAY SWITCH
3D	3-WAY DIMMER SWITCH
	LAY-IN/SURFACE MOUNTED LED
ETR	EXISTING LIGHT FIXTURE TO REMAIN
	EMERGENCY LIGHT
EXIT	EXIT/EMERGENCY COMBO
	REMOTE HEAD FOR EXIT LIGHTING



Interconnected smoke detectors required inside and outside all sleeping areas. CO detectors required

① Electrical Plan
1/4" = 1'-0"

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I CERTIFY THAT THE CONSTRUCTION EXHIBITS FOR IDENTIFICATION OF THE PROPERTY BY HOUSE TYPE, LOT, LOCK, SUBDIVISION NAME, AND SO ON) MEET ALL LOCAL CODE REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAH AND HH MINIMUM PROPERTY REQUIREMENTS, ALL BUILDING STANDARDS AS SET FORTH BY THE INTERNATIONAL CODE COUNCIL (ICC) AND FEDERAL SAFE DRINKING WATER PLUMBING STANDARD.

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25351 NC Hwy 24/27
Cameron, NC

Hymbaugh Residence

Electrical Plan

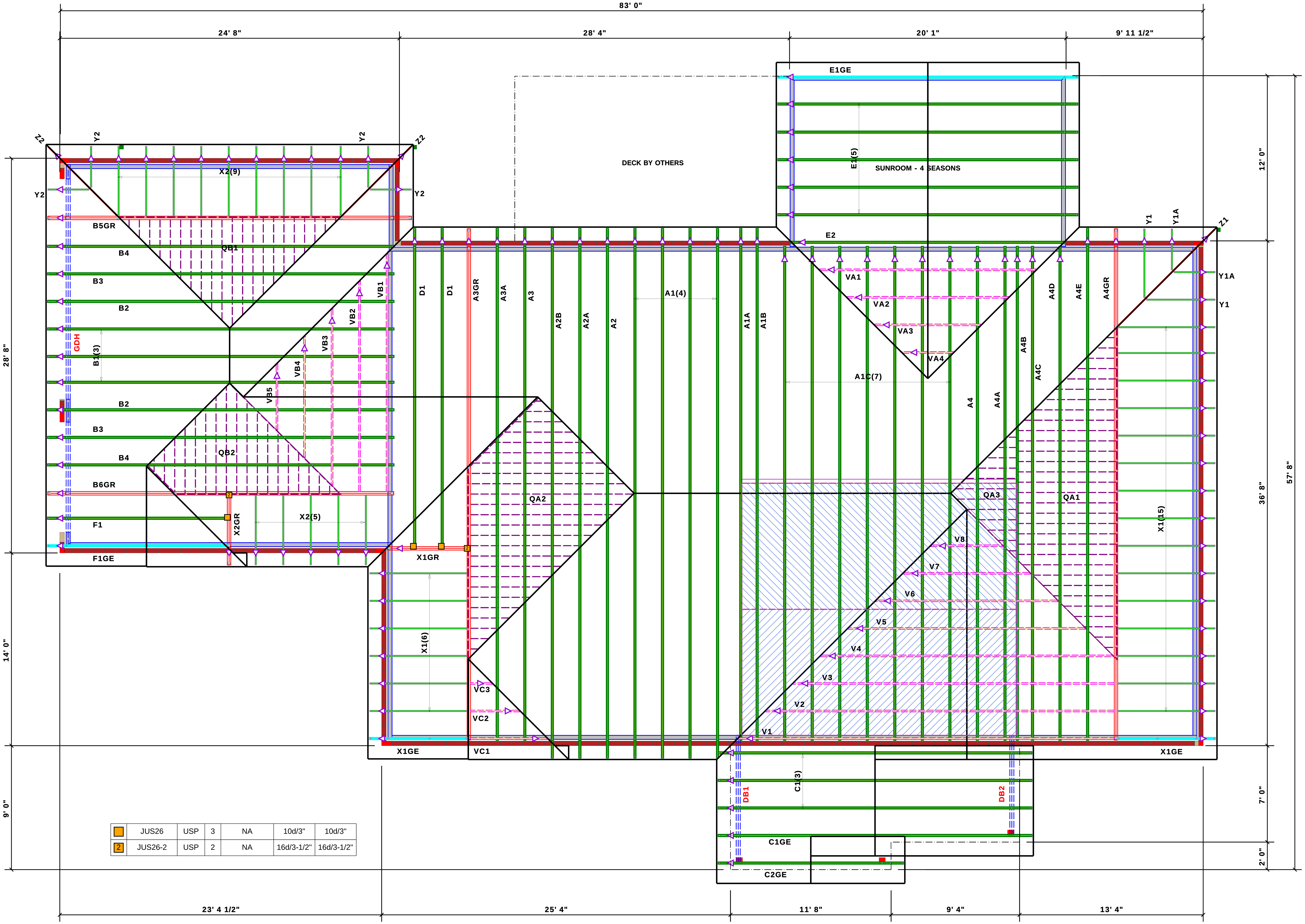
SCALE: 1/4" = 1'-0"

DATE: 1/27/21

Project number 0222010001

Drawn by Author

Checked by Checker



■	JUS26	USP	3	NA	10d/3"	10d/3"
2	JUS26-2	USP	2	NA	16d/3-1/2"	16d/3-1/2"

LVL BY COMTECH

PlotID	Length	Product	Plies	Net Qty
DB1	10' 0"	1.75 X 9.25 Kerto-S LVL 2.0E	2	2
DB2	8' 0"	1.75 X 9.25 Kerto-S LVL 2.0E	2	2
GDH	28' 0"	1.75 X 14 Kerto-S LVL 2.0E	2	2

Truss Placement Plan
SCALE: NTS

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

comtech
ROOF & FLOOR
TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Bob Lewis
Bob Lewis

BUILDER	CASH: DONALD MOORE	CITY / CO.	CAMERON / LEE
JOB NAME	RAY & CHRISTINE HYMBAUGH	ADDRESS	25351 NC HWY 24/27
PLAN	HYMBAUGH RESIDENCE	MODEL	ROOF
SEAL DATE	NONE	DATE REV.	02/18/21
QUOTE #	Quote #	DRAWN BY	Bob Lewis
JOB #	J0221-1067	SALES REP.	Bob Lewis

LOAD CHART FOR JACK STUDS
(BASED ON TABLES R502.5(1) & (b))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A1	Common	4	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:47 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-FJ5eDvpBHhiDvqJGMR0vITbfa?ZmbG0R7zU8FzzjtF_

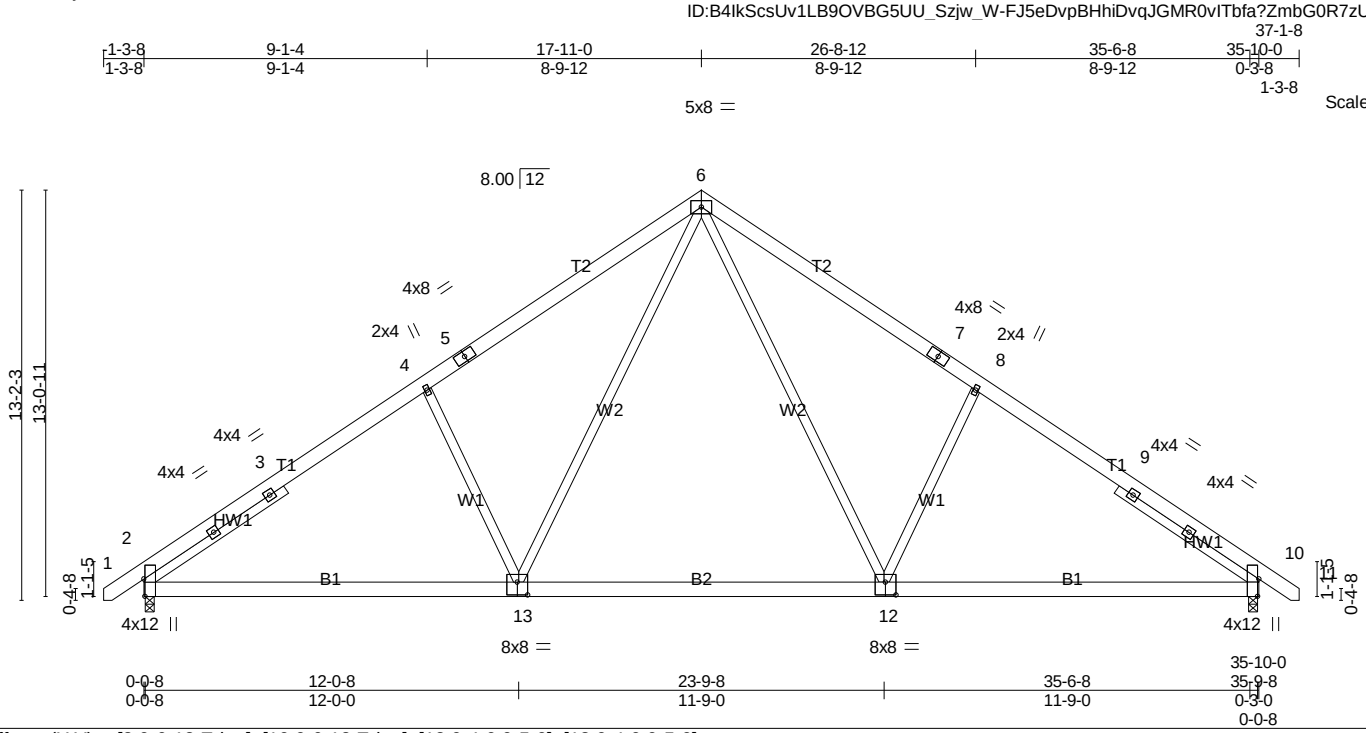


Plate Offsets (X,Y)-- [2:0-6-12,Edge], [10:0-6-12,Edge], [12:0-4-0,0-5-0], [13:0-4-0,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.21	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.30	2-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	2-13	>999	240	Weight: 269 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 5-5-7, Right 2x4 SP No.2 -t 5-5-7

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-2-2), 10=0-3-8 (min. 0-2-2)
Max Horz 2=-253(LC 10)
Max Grav 2=1792(LC 19), 10=1792(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2369/294, 4-6=-2202/397, 6-8=-2202/397, 8-10=-2369/294
BOT CHORD 2-13=-92/2006, 12-13=0/1357, 10-12=-96/1838
WEBS 6-12=-131/1103, 8-12=-473/293, 6-13=-131/1103, 4-13=-473/293

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 17-11-0, Exterior(2) 17-11-0 to 25-11-0, Interior(1) 25-11-0 to 36-11-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A1A	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:48 2021 Page 1
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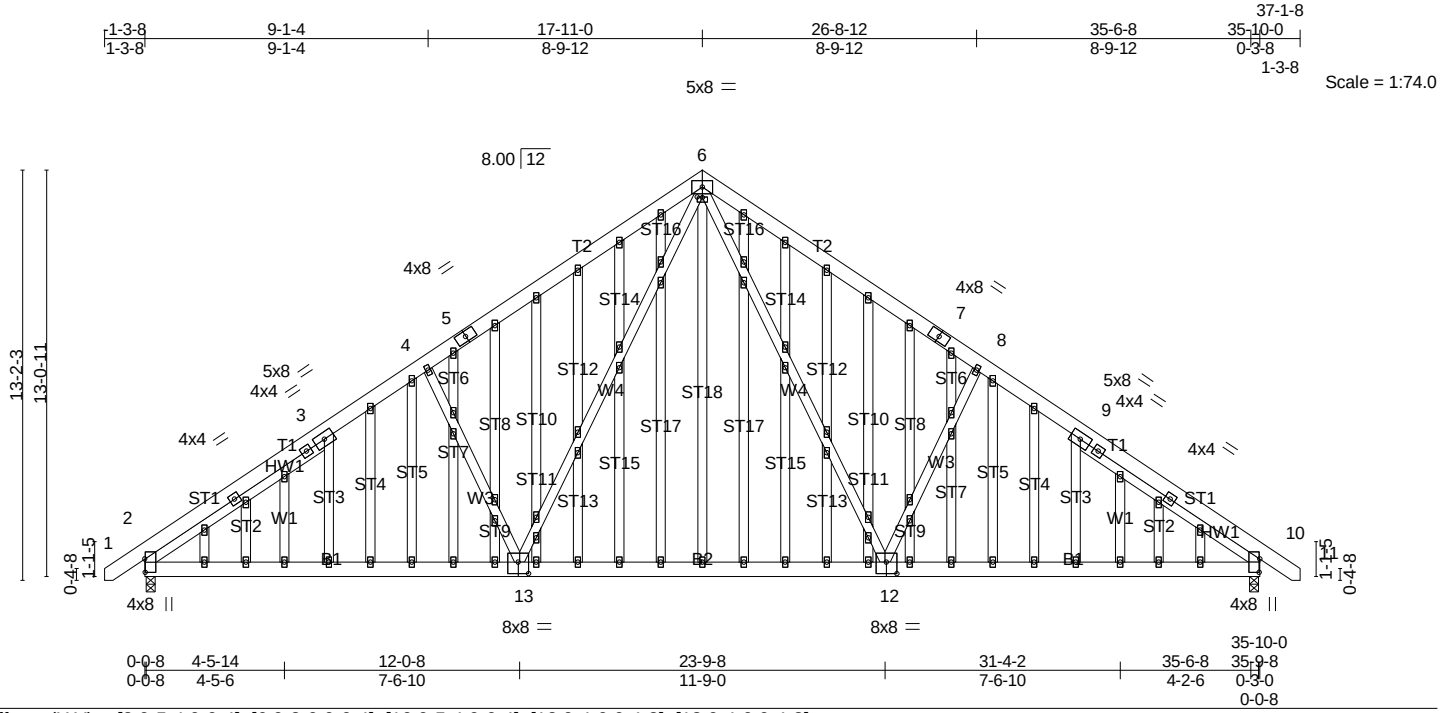

Plate Offsets (X,Y)-- [2:0-5-4,0-0-4], [6:0-2-0,0-0-4], [10:0-5-4,0-0-4], [12:0-4-0,0-4-8], [13:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.38	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.46	12-13	>937	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	2-13	>999	240	Weight: 514 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 6-11-15, Right 2x4 SP No.2 -t 6-11-15

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-1-13), 10=0-3-8 (min. 0-1-13)
Max Horz 2=-253(LC 10)
Max Grav 2=1562(LC 19), 10=1562(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2103/292, 4-6=-1937/395, 6-8=-1937/395, 8-10=-2103/292
BOT CHORD 2-13=-91/1784, 12-13=0/1204, 10-12=-95/1617
WEBS 6-12=-130/942, 8-12=-473/292, 6-13=-130/942, 4-13=-473/292

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 17-11-0, Exterior(2) 17-11-0 to 25-11-0, Interior(1) 25-11-0 to 36-11-15 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 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 30.0psf 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A1B	Roof Special	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:49 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-BiDPebqRpIyx97SfUs3NNugtUoGu34CkaHzEJszjtEy

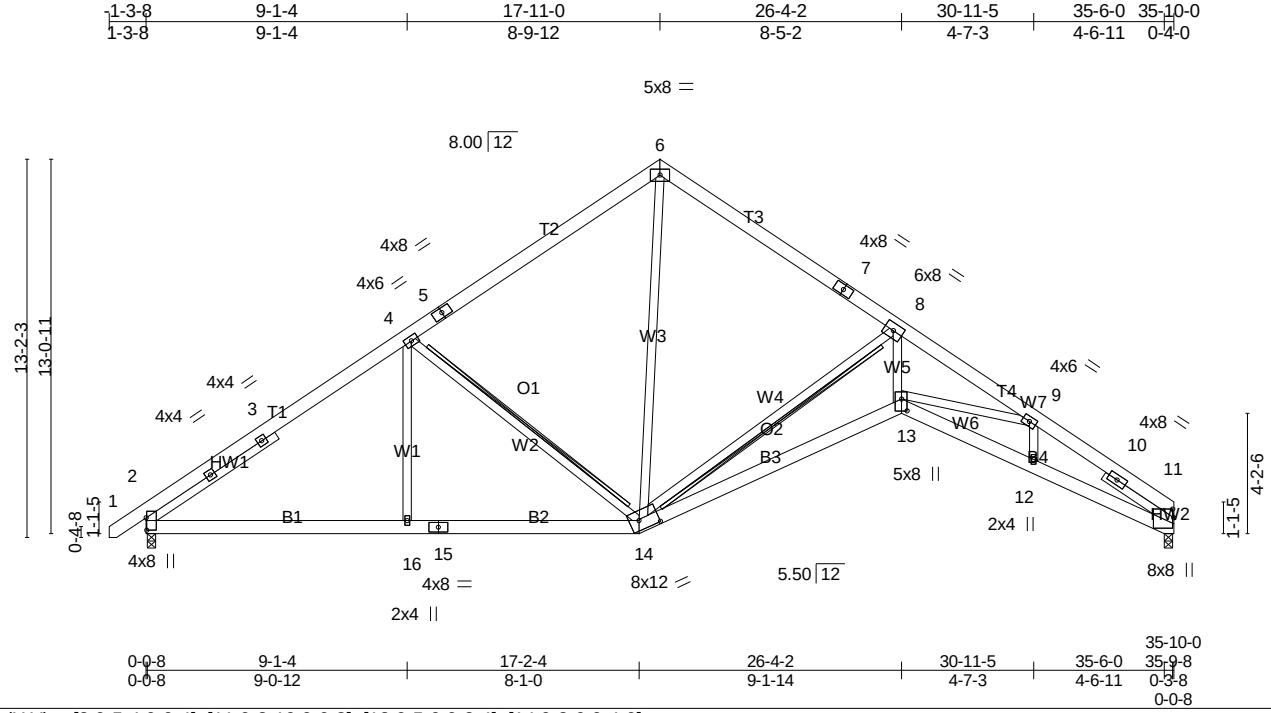

Plate Offsets (X,Y)-- [2:0-5-4,0-0-4], [11:0-3-10,0-0-8], [13:0-5-0,0-2-4], [14:0-8-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.24	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.51	13-14	>831	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.39	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.13	13	>999	240	Weight: 278 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W4: 2x4 SP 2400F 2.0E
SLIDER Left 2x4 SP No.2 -t 5-5-4, Right 2x4 SP No.2 -t 2-11-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 4-14
2x6 SPF No.2 - 8-14
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 11=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-15)
Max Horz 2=253(LC 11)
Max Grav 11=1425(LC 1), 2=1627(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2168/276, 4-6=-1447/332, 6-8=-1377/324, 8-9=-4402/410, 9-11=-3913/436
BOT CHORD 2-16=-81/1835, 14-16=-81/1835, 13-14=-203/3879, 12-13=-279/3244, 11-12=-279/3192
WEBS 4-16=0/574, 4-14=-863/213, 6-14=-155/977, 8-14=-3154/327, 8-13=-82/3177, 9-13=0/809

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 17-11-0, Exterior(2) 17-11-0 to 26-2-6, Interior(1) 26-2-6 to 35-7-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
5) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A1C	ROOF SPECIAL	7	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:50 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-gunnrxr3ac4omH1r1Zacv6D2DCc6oXRtpxiorIzjtEx

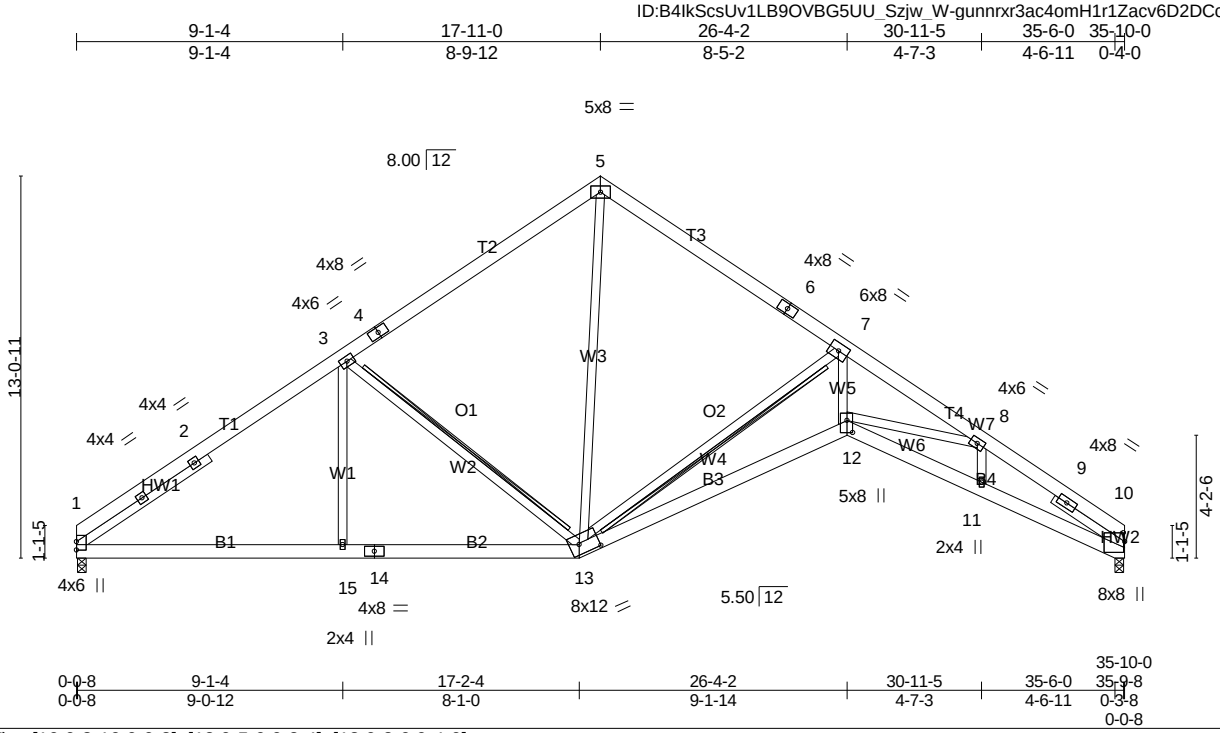

Plate Offsets (X,Y)-- [10:0-3-10,0-0-8], [12:0-5-0,0-2-4], [13:0-8-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.24	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.52	12-13	>830	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.39	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.13	12	>999	240	Weight: 274 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W4: 2x4 SP 2400F 2.0E
SLIDER Left 2x4 SP No.2 -t 5-5-4, Right 2x4 SP No.2 -t 2-11-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 3-13
2x6 SPF No.2 - 7-13
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 10=0-3-8 (min. 0-1-8), 1=0-3-8 (min. 0-1-13)
Max Horz 1=-251(LC 8)
Max Grav 10=1426(LC 1), 1=1562(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2173/285, 3-5=-1448/339, 5-7=-1378/325, 7-8=-4407/411, 8-10=-3916/437
BOT CHORD 1-15=-86/1841, 13-15=-86/1841, 12-13=-215/3883, 11-12=-280/3247, 10-11=-279/3195
WEBS 3-15=0/578, 3-13=-868/215, 5-13=-163/980, 7-13=-3157/334, 7-12=-82/3180, 8-12=0/810

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 8-0-0, Interior(1) 8-0-0 to 17-11-0, Exterior(2) 17-11-0 to 26-2-6, Interior(1) 26-2-6 to 35-7-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A2	Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:51 2021 Page 1
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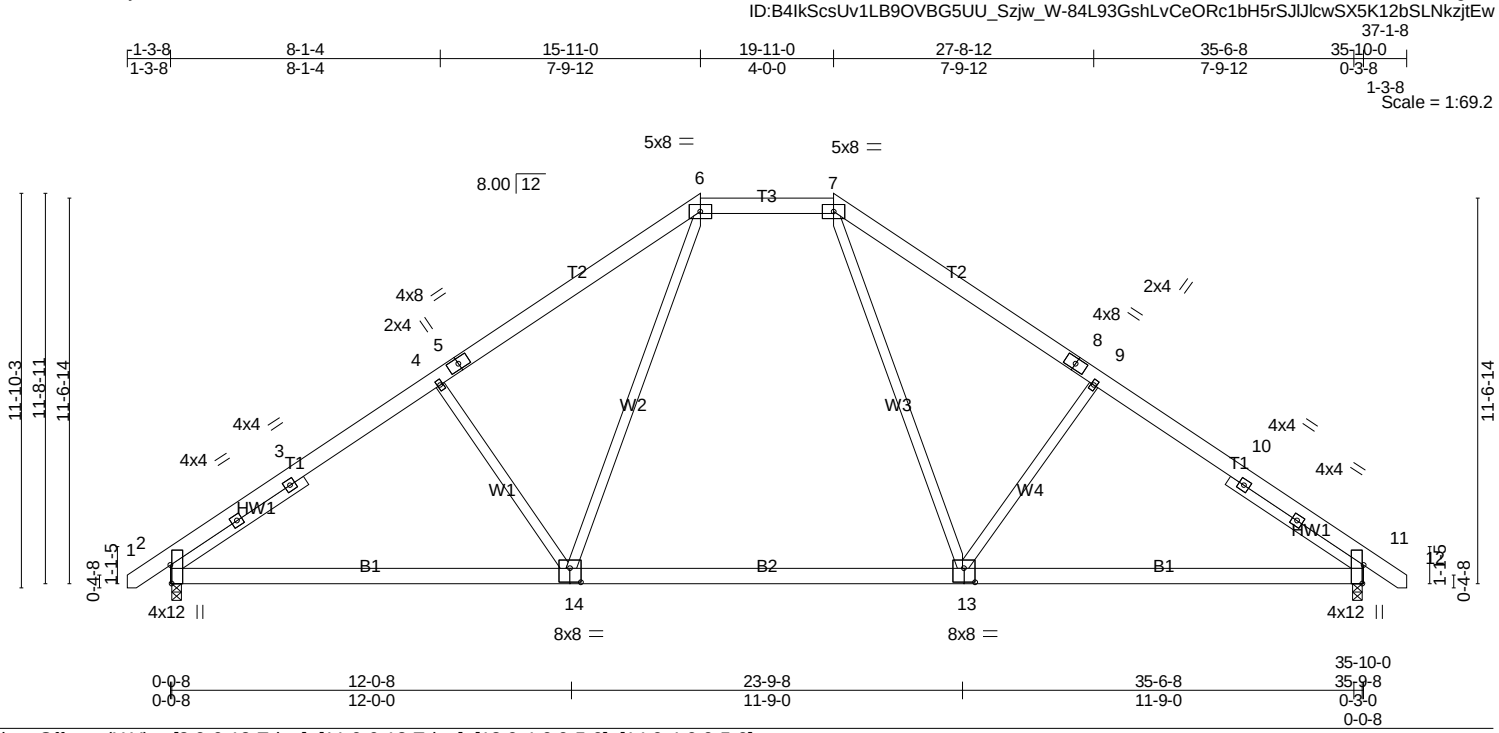

Plate Offsets (X,Y)-- [2:0-6-12,Edge], [11:0-6-12,Edge], [13:0-4-0,0-5-0], [14:0-4-0,0-5-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.26	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.34	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	2-14	>999	240	Weight: 259 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 4-10-4, Right 2x4 SP No.2 -t 4-10-4

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-2-1), 11=0-3-8 (min. 0-2-1)
Max Horz 2=226(LC 11)
Max Grav 2=1751(LC 19), 11=1752(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2324/337, 4-6=-2112/386, 6-7=-1375/356, 7-9=-2111/385, 9-11=-2324/337
BOT CHORD 2-14=-163/1956, 13-14=0/1435, 11-13=-155/1791
WEBS 4-14=-404/287, 6-14=-87/935, 7-13=-86/938, 9-13=-405/287

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 15-11-0, Exterior(2) 15-11-0 to 31-2-12, Interior(1) 31-2-12 to 36-11-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A2A	Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:52 2021 Page 1
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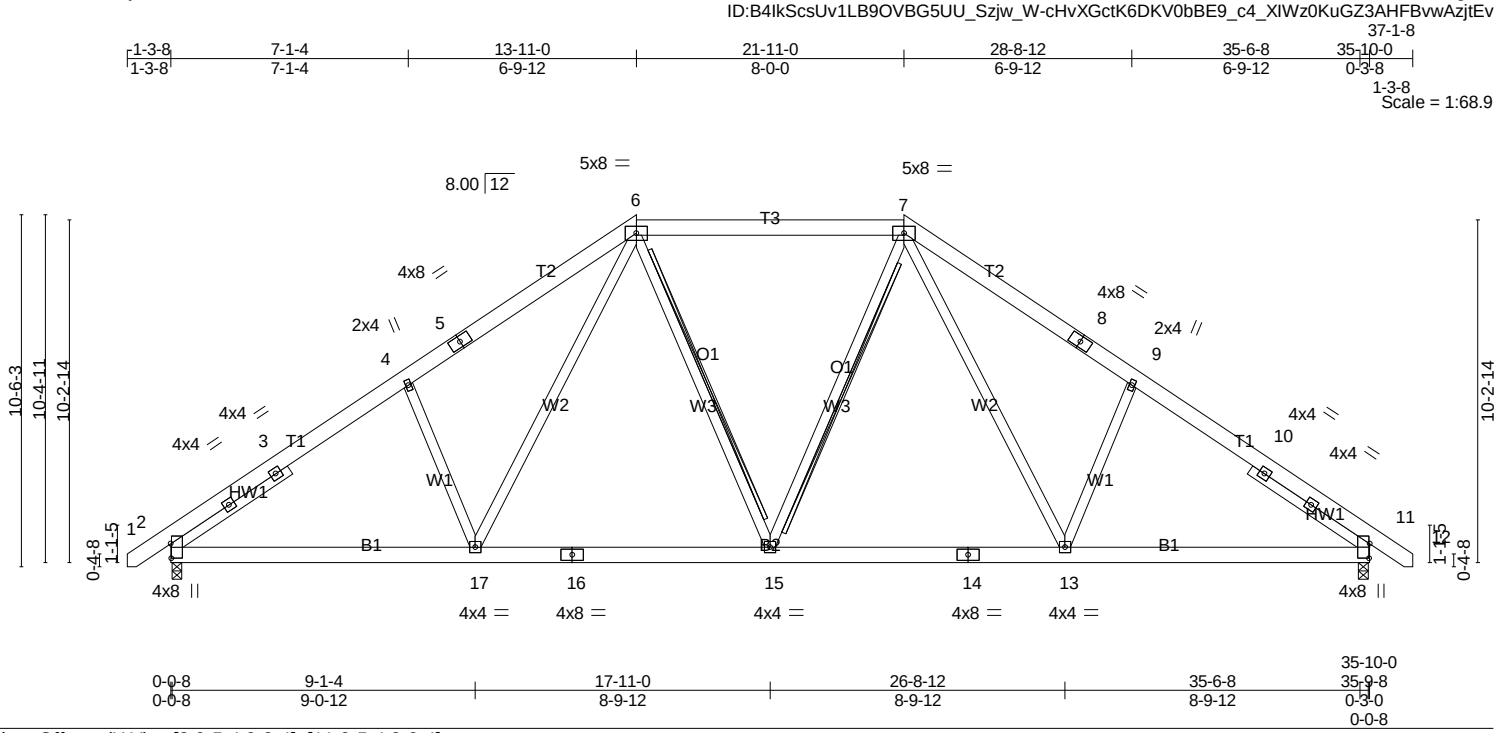

Plate Offsets (X,Y)-- [2:0-5-4,0-0-4], [11:0-5-4,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.10	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.16	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	17	>999	240	Weight: 279 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 4-3-0, Right 2x4 SP No.2 -t 4-3-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except
2-0-0 oc purlins (5-10-12 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 6-15, 7-15
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-2-0), 11=0-3-8 (min. 0-2-0)
Max Horz 2=199(LC 11)
Max Grav 2=1678(LC 19), 11=1678(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2312/352, 4-6=-2149/448, 6-7=-1549/351, 7-9=-2149/448, 9-11=-2312/352
BOT CHORD 2-17=-181/1890, 15-17=-37/1499, 13-15=-28/1459, 11-13=-172/1769
WEBS 4-17=-319/243, 6-17=-125/678, 6-15=-36/328, 7-15=-36/328, 7-13=-125/678, 9-13=-319/243

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 7-0-3, Interior(1) 7-0-3 to 13-11-0, Exterior(2) 13-11-0 to 33-2-12, Interior(1) 33-2-12 to 36-11-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A2B	Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:52 2021 Page 1
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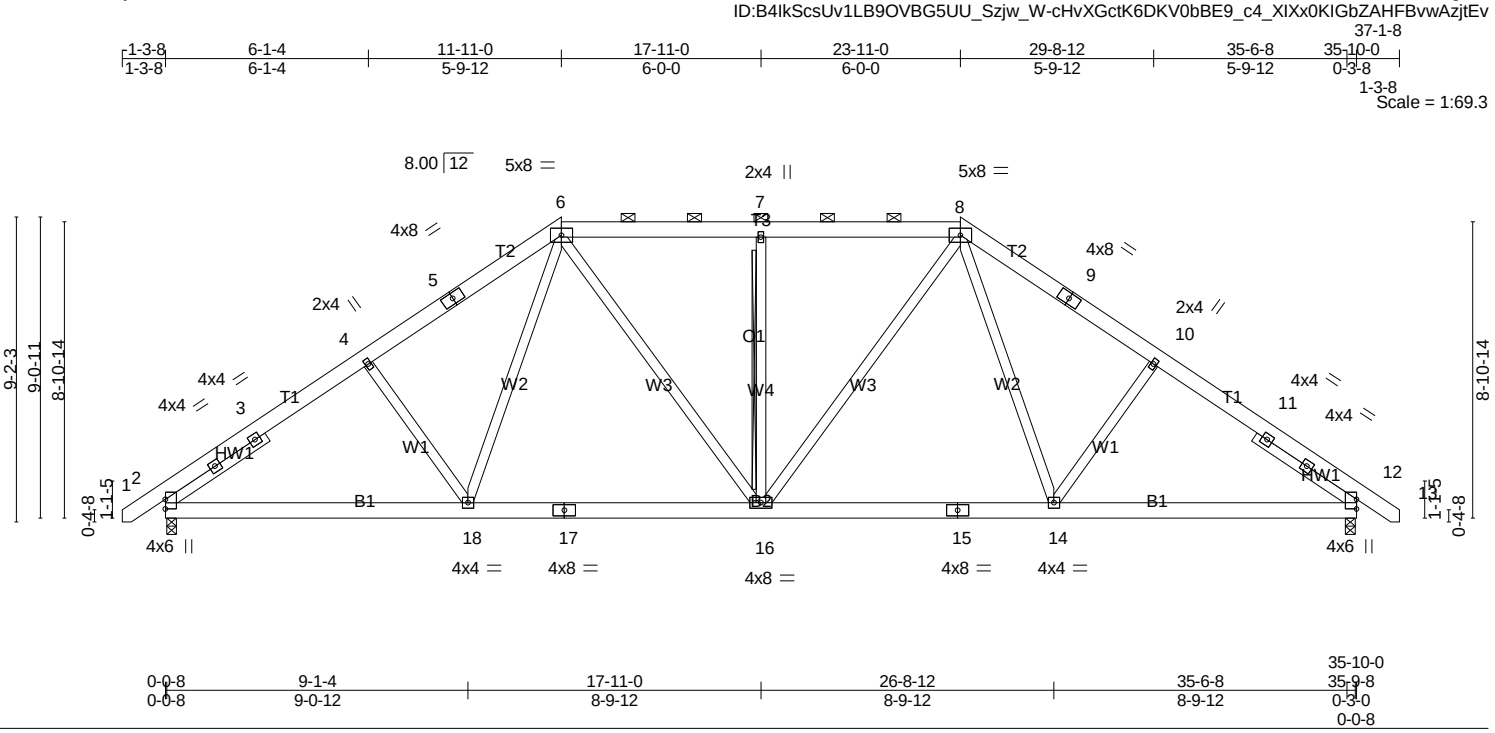

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.10	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.16	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.05	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	16	>999	240	Weight: 280 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-7-13, Right 2x4 SP No.2 -t 3-7-13

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-13 oc purlins, except
2-0-0 oc purlins (5-11-11 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 7-16
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-1-13), 12=0-3-8 (min. 0-1-13)
Max Horz 2=-173(LC 10)
Max Grav 2=1517(LC 2), 12=1517(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2123/379, 4-6=-1924/416, 6-7=-1695/402, 7-8=-1695/402, 8-10=-1924/416, 10-12=-2123/379
BOT CHORD 2-18=-209/1685, 16-18=-81/1444, 14-16=-69/1441, 12-14=-197/1611
WEBS 6-18=-52/463, 6-16=-78/515, 7-16=-414/185, 8-16=-78/515, 8-14=-52/463

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 11-11-0, Exterior(2) 11-11-0 to 23-2-12, Interior(1) 23-2-12 to 23-11-0, Exterior(2) 23-11-0 to 35-2-12, Interior(1) 35-2-12 to 36-11-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A3	Roof Special	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:53 2021 Page 1
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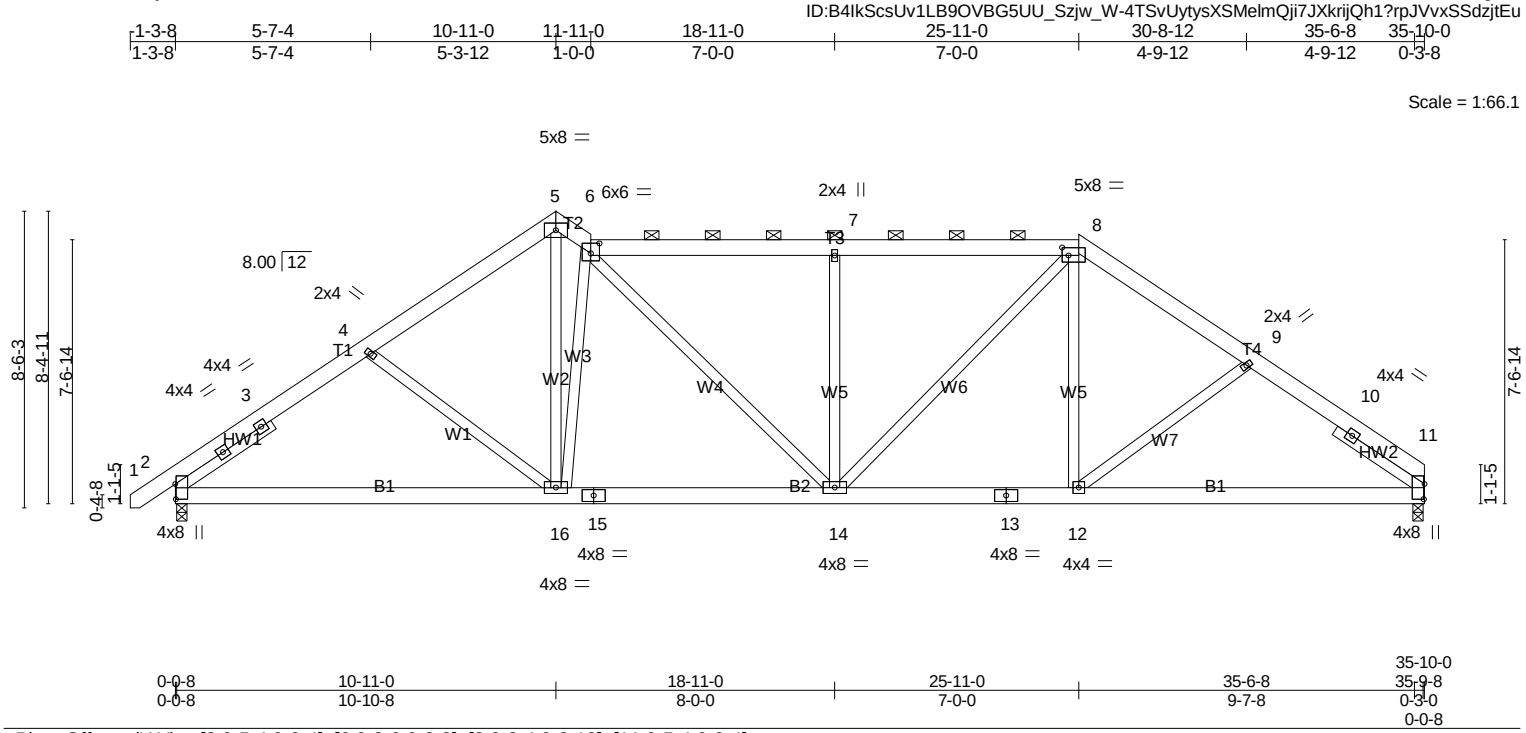


Plate Offsets (X,Y)-- [2:0-5-4,0-0-4], [6:0-3-0,0-3-8], [8:0-2-4,0-2-12], [11:0-5-4,0-0-4]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC	0.24	Vert(LL)	-0.10	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.38	Vert(CT)	-0.20	2-16	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	1.00	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Wind(LL)	0.05	14	>999	240	Weight: 281 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-4-3, Right 2x4 SP No.2 -t 3-0-9

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except
2-0-0 oc purlins (5-5-9 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 11=0-3-8 (min. 0-1-11), 2=0-3-8 (min. 0-1-12)
Max Horz 2=-158(LC 10)
Max Uplift 11=-30(LC 13)
Max Grav 11=1432(LC 1), 2=1504(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2013/363, 4-5=-1780/345, 5-6=-1607/357, 6-7=-1881/422, 7-8=-1879/421, 8-9=-1827/365, 9-11=-2025/383
BOT CHORD 2-16=-197/1607, 14-16=-101/1652, 12-14=-89/1502, 11-12=-211/1523
WEBS 5-16=-244/1429, 6-16=-1115/273, 6-14=-94/462, 7-14=-538/216, 8-14=-110/558, 8-12=0/361

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 10-11-0, Exterior(2) 10-11-0 to 11-11-0, Interior(1) 11-11-0 to 25-11-0, Exterior(2) 25-11-0 to 33-11-0, Interior(1) 33-11-0 to 35-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

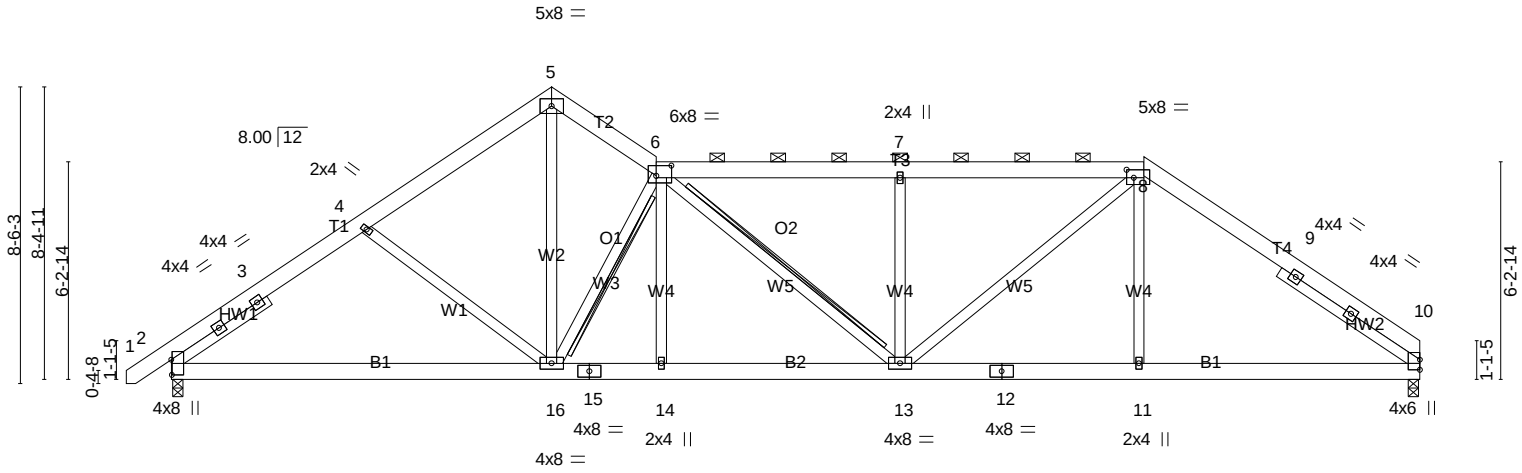
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A3A	Roof Special	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:54 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-Yf0lhIuadqaDFvLcGPfY4yNtbp0_kQUTkZg?_3zjtEt

1-3-8 | 5-7-4 | 10-11-0 | 13-11-0 | 20-11-0 | 27-11-0 | 35-6-8 | 35-10-0
1-3-8 | 5-7-4 | 5-3-12 | 3-0-0 | 7-0-0 | 7-0-0 | 7-7-8 | 0-3-8

Scale = 1:66.1



0-0-8 | 10-11-0 | 13-11-0 | 20-11-0 | 27-11-0 | 35-6-8 | 35-9-8 | 35-10-0
0-0-8 | 10-10-8 | 3-0-0 | 7-0-0 | 7-0-0 | 7-7-8 | 0-5-0 | 0-0-8

Plate Offsets (X,Y)-- [2:0-5-4,0-0-4], [6:0-5-4,0-3-8], [8:0-2-8,0-2-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.10	2-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.21	2-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	13-14	>999	240	Weight: 274 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-4-3, Right 2x4 SP No.2 -t 4-9-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-14 oc purlins, except
2-0-0 oc purlins (5-0-10 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 6-16, 6-13
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 10=0-3-8 (min. 0-1-12), 2=0-3-8 (min. 0-1-12)
Max Horz 2=159(LC 9)
Max Uplift10=-30(LC 13)
Max Grav 10=1476(LC 2), 2=1504(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2017/356, 4-5=-1759/336, 5-6=-1746/365, 6-7=-2231/453, 7-8=-2231/453, 8-10=-2114/352
BOT CHORD 2-16=-192/1566, 14-16=-202/2111, 13-14=-201/2114, 11-13=-146/1640, 10-11=-148/1631
WEBS 5-16=-276/1598, 6-16=-1532/325, 6-13=-56/259, 7-13=-522/201, 8-13=-122/873, 8-11=0/433

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 10-11-0, Exterior(2) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 27-11-0, Exterior(2) 27-11-0 to 35-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Continued on page 2

NOTES-

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

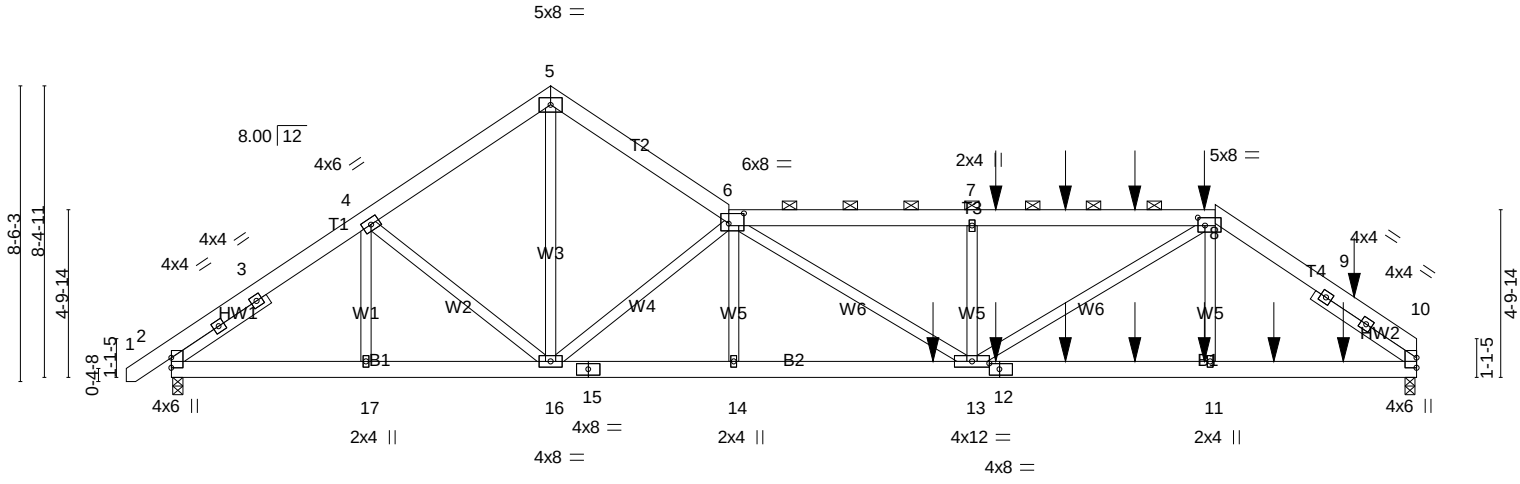
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A3GR	Roof Special Girder	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:56 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-U2826_wq9SrxVCV?Oqh09NTBCdfjCGymBs963yzjtEr

1-3-8	5-7-4	10-11-0	16-0-8	23-0-8	30-0-8	35-6-8	35-10-0
1-3-8	5-7-4	5-3-12	5-1-8	7-0-0	7-0-0	5-6-0	0-3-8

Scale = 1:66.3



0-0-8	5-7-4	10-11-0	16-0-8	23-0-8	30-0-8	35-6-8	35-9-8	35-10-0
0-0-8	5-6-12	5-3-12	5-1-8	7-0-0	7-0-0	5-6-0	0-3-0	0-0-8

Plate Offsets (X,Y)-- [6:0-5-4,0-3-8], [8:0-2-8,0-2-12], [12:0-3-8,0-2-0]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.36	Vert(LL)	-0.14	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.64	Vert(CT)	-0.28	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.65	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Wind(LL)	0.06	13-14	>999	240	Weight: 539 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-4-1, Right 2x4 SP No.2 -t 3-6-7

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8 (min. 0-1-10), 2=0-3-8 (min. 0-1-8)
Max Horz 2=159(LC 24)
Max Uplift10=-8(LC 9)
Max Grav 10=2714(LC 1), 2=2099(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2998/0, 4-5=-2711/0, 5-6=-2736/0, 6-7=-5751/0, 7-8=-5752/0, 8-10=-4055/4
BOT CHORD 2-17=0/2284, 16-17=0/2284, 14-16=0/5078, 13-14=0/5088, 11-13=0/3134, 10-11=0/3130
WEBS 5-16=0/2587, 6-16=-3768/0, 6-14=0/356, 6-13=-199/897, 7-13=-804/285, 8-13=0/3091, 8-11=0/439

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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 30.0psf 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 100 lb uplift at joint(s) 10.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 145 lb down and 102 lb up at 23-8-12, 145 lb down and 102 lb up at 25-8-12, 145 lb down and 102 lb up at 27-8-12, and 145 lb down and 102 lb up at 29-8-12, and 145 lb down and 121 lb up at 33-8-12 on top chord, and 1129 lb down at 21-11-0, 75 lb down at 23-8-12, 75 lb down at 25-8-12, 75 lb down at 27-8-12, 75 lb down at 29-8-12, and 75 lb down at 31-8-12, and 75 lb down at 33-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-60, 5-6=-60, 6-8=-60, 8-10=-60, 2-10=-20
   Concentrated Loads (lb)
      Vert: 11=-37(F) 12=-37(F) 18=-105(F) 19=-105(F) 20=-105(F) 21=-105(F) 22=-105(F) 23=-1129(F) 24=-37(F) 25=-37(F) 26=-37(F) 27=-37(F)

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A4	Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:57 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-yEiQJKxSwlzo6M4ByXCFha?F910NxgtvQWvgbOzjtEq

8-1-4	15-11-0	19-11-0	26-4-2	30-11-5	35-6-0	35-10-0
8-1-4	7-9-12	4-0-0	6-5-2	4-7-3	4-6-11	0-4-0

Scale = 1:67.7

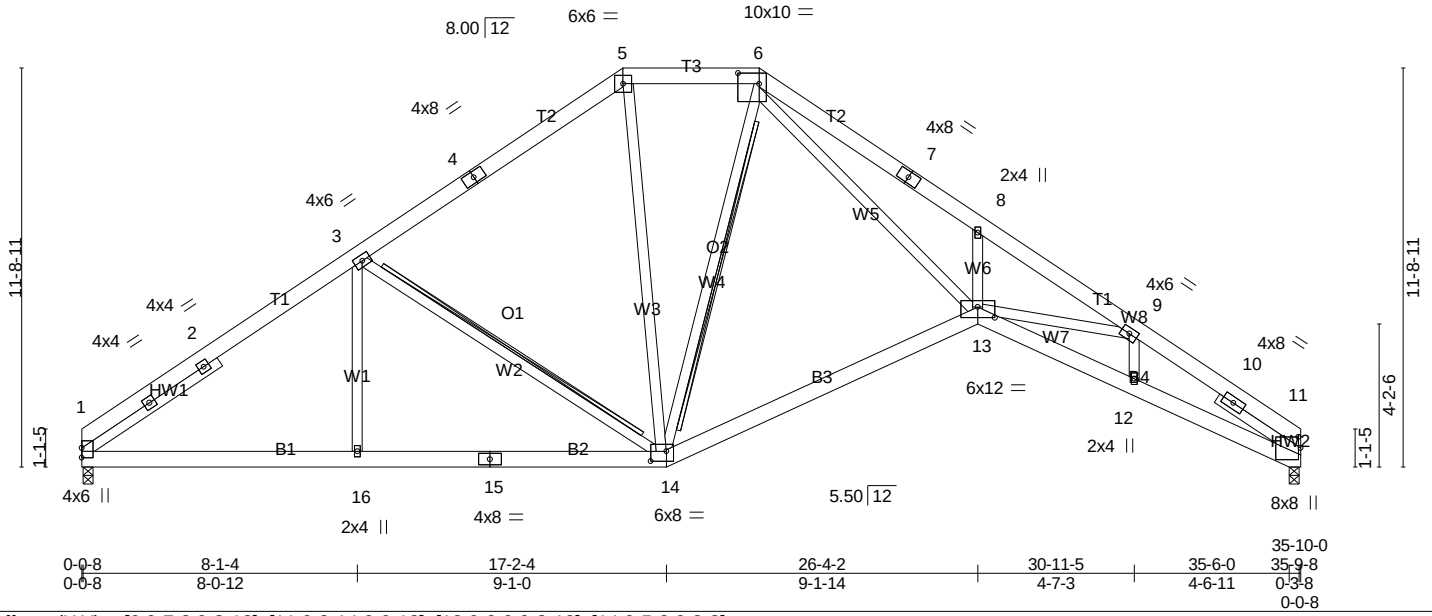


Plate Offsets (X,Y)-- [6:0-7-8,0-3-12], [11:0-3-14,0-0-12], [13:0-6-0,0-3-12], [14:0-5-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.25	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.53	13-14	>811	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.39	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.15	13	>999	240	Weight: 283 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 4-10-1, Right 2x4 SP No.2 -t 2-11-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 3-14, 6-14
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 11=0-3-8 (min. 0-1-8), 1=0-3-8 (min. 0-1-12)
Max Horz 1=225(LC 11)
Max Grav 11=1426(LC 1), 1=1502(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2123/314, 3-5=-1459/351, 5-6=-1144/352, 6-8=-4476/692, 8-9=-4360/501, 9-11=-3933/504
BOT CHORD 1-16=-145/1782, 14-16=-145/1782, 13-14=0/1406, 12-13=-338/3267, 11-12=-336/3214
WEBS 3-16=0/518, 3-14=-783/215, 5-14=-69/456, 6-14=-542/53, 6-13=-402/3519, 8-13=-475/266, 9-13=0/717

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 8-1-4, Interior(1) 8-1-4 to 15-11-0, Exterior(2) 15-11-0 to 30-11-5, Interior(1) 30-11-5 to 35-7-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

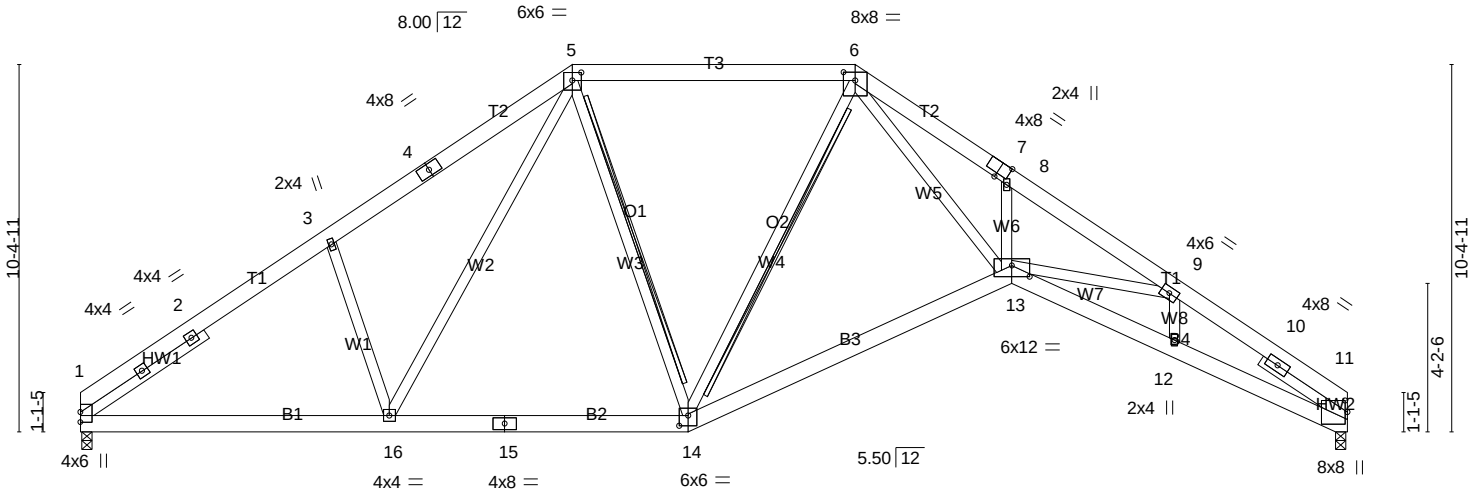
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A4A	Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:44:58 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-RRGoXgx4h35fkWeNVFjUEoYQhRMTg8s2fAeD7qzjtEp

7-1-4	13-11-0	17-2-4	21-11-0	26-4-2	30-11-5	35-6-0	35-10-0
7-1-4	6-9-12	3-3-4	4-8-12	4-5-2	4-7-3	4-6-11	0-4-0

Scale = 1:65.2



0-0-8	8-8-14	17-2-4	26-4-2	30-11-5	35-6-0	35-9-8	35-10-0
0-0-8	8-8-6	8-5-6	9-1-14	4-7-3	4-6-11	0-3-8	0-0-8

Plate Offsets (X,Y)-- [5:0-3-0,0-2-12], [6:0-4-0,0-2-13], [7:0-3-11,Edge], [11:0-3-14,0-0-12], [13:0-6-0,0-3-12], [14:0-3-0,0-3-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.22	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.46	13-14	>928	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.34	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.13	13	>999	240	Weight: 275 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 4-3-0, Right 2x4 SP No.2 -t 2-11-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-14, 6-14
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 11=0-3-8 (min. 0-1-8), 1=0-3-8 (min. 0-1-12)
Max Horz 1=-198(LC 8)
Max Grav 11=1426(LC 1), 1=1492(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2136/353, 3-5=-1999/468, 5-6=-1307/359, 6-8=-4381/689, 8-9=-4332/543, 9-11=-3941/559
BOT CHORD 1-16=-187/1751, 14-16=-41/1315, 13-14=-69/1743, 12-13=-400/3284, 11-12=-393/3225
WEBS 3-16=-336/255, 5-16=-145/750, 6-14=-716/87, 6-13=-363/3328, 8-13=-363/197, 9-13=0/695

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 8-0-0, Interior(1) 8-0-0 to 13-11-0, Exterior(2) 13-11-0 to 33-2-12, Interior(1) 33-2-12 to 35-7-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

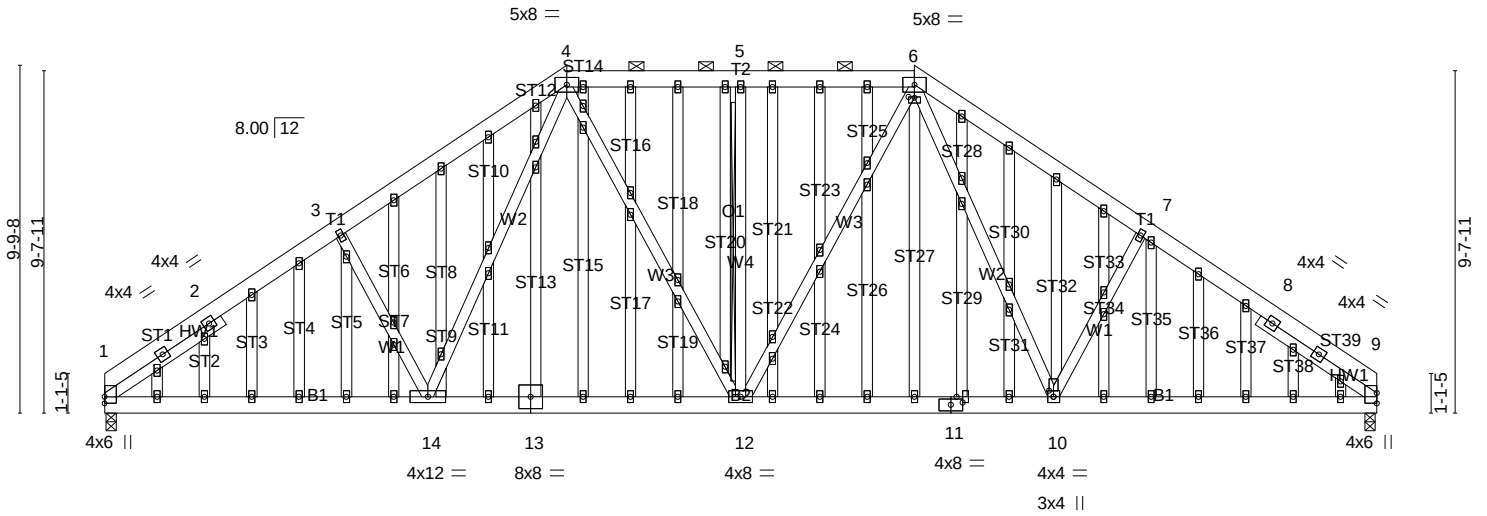
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A4B	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:01 2021 Page 1
ID:B4lkScsUv1LB9OVBG5UU_Szjw_W-r0xx9h_z__TEbzNyBNHBsQA4deP0tfnVL8ttk9zjtEm

6-7-14	13-0-4	17-11-0	22-9-12	29-2-2	35-6-8	35-10-0
6-7-14	6-4-6	4-10-12	4-10-12	6-4-6	6-4-6	0-3-8

Scale = 1:64.9



0-0-8	9-1-4	17-11-0	26-8-12	35-6-8	35-10-0
0-0-8	9-0-12	8-9-12	8-9-12	8-9-12	35-9-8
					0-3-0
					0-0-8

Plate Offsets (X,Y)-- [6:0-2-0,0-0-4], [10:0-2-0,0-1-8], [13:0-1-12,0-0-0], [13:0-0-0,0-2-12], [14:0-0-7,0-0-0], [42:0-1-12,0-0-0], [57:0-2-0,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.11	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.17	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	12	>999	240	Weight: 500 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -t 3-11-13, Right 2x4 SP No.2 -t 3-11-13

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 5-12 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=0-3-8 (min. 0-1-12), 9=0-3-8 (min. 0-1-12)
Max Horz 1=184(LC 11)
Max Grav 1=1481(LC 19), 9=1481(LC 20)

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

TOP CHORD	1-3=-2161/374, 3-4=-1965/442, 4-5=-1590/389, 5-6=-1590/389, 6-7=-1965/442, 7-9=-2161/374
BOT CHORD	1-14=-209/1745, 12-14=-68/1434, 10-12=-56/1410, 9-10=-197/1647
WEBS	3-14=-281/228, 4-14=-95/534, 4-12=-75/471, 5-12=-318/140, 6-12=-75/471, 6-10=-95/535, 7-10=-281/228

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 8-0-0, Interior(1) 8-0-0 to 13-0-4, Exterior(2) 13-0-4 to 34-1-8, Interior(1) 34-1-8 to 35-10-0 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 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 30.0psf 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Continued on page 2

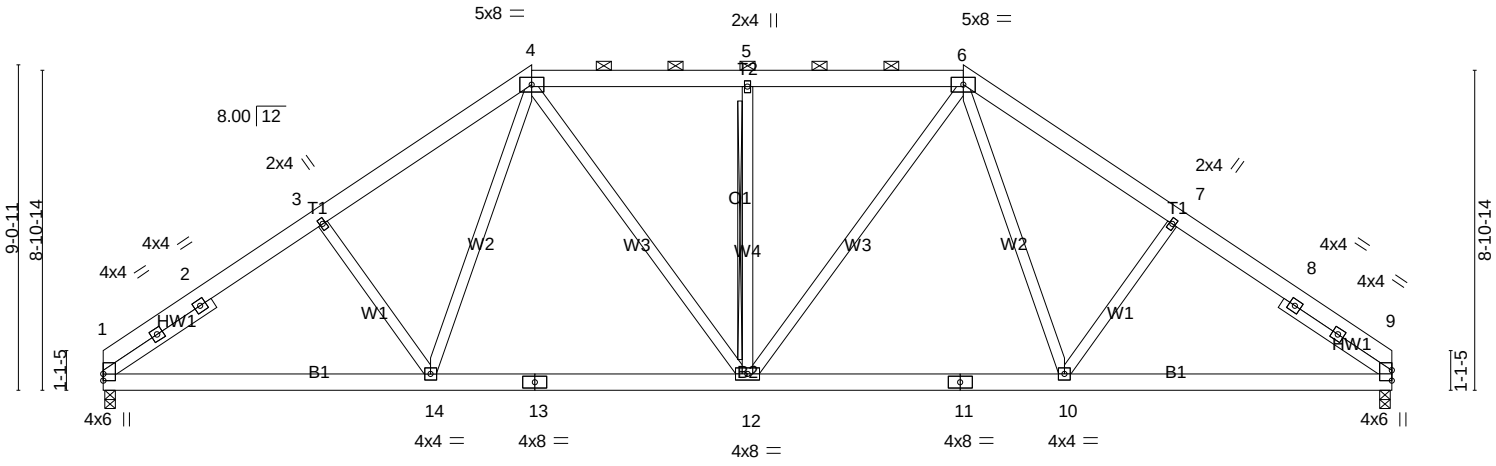
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A4C	Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:04 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-Fad4nj0rHvroSR6XsWquU3oamrR740Yx165XLUzjtEj

6-1-4	11-11-0	17-11-0	23-11-0	29-8-12	35-6-8	35-10-0
6-1-4	5-9-12	6-0-0	6-0-0	5-9-12	5-9-12	0-3-8

Scale: 3/16"=1'



0-0-8	9-1-4	17-11-0	26-8-12	35-6-8	35-10-0
0-0-8	9-0-12	8-9-12	8-9-12	8-9-12	35-9-8
					0-3-0
					0-0-8

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.16	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	12	>999	240	Weight: 273 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-7-13, Right 2x4 SP No.2 -t 3-7-13

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except 2-0-0 oc purlins (5-11-9 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-12
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=0-3-8 (min. 0-1-12), 9=0-3-8 (min. 0-1-12)
Max Horz 1=169(LC 11)
Max Grav 1=1459(LC 2), 9=1459(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2132/386, 3-4=-1933/422, 4-5=-1698/409, 5-6=-1698/409, 6-7=-1933/422, 7-9=-2132/386
BOT CHORD 1-14=-220/1694, 12-14=-90/1447, 10-12=-78/1446, 9-10=-208/1621
WEBS 4-14=-53/471, 4-12=-78/514, 5-12=-411/185, 6-12=-78/514, 6-10=-53/471

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 8-0-0, Interior(1) 8-0-0 to 11-11-0, Exterior(2) 11-11-0 to 23-2-12, Interior(1) 23-2-12 to 23-11-0, Exterior(2) 23-11-0 to 35-2-12, Interior(1) 35-2-12 to 35-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

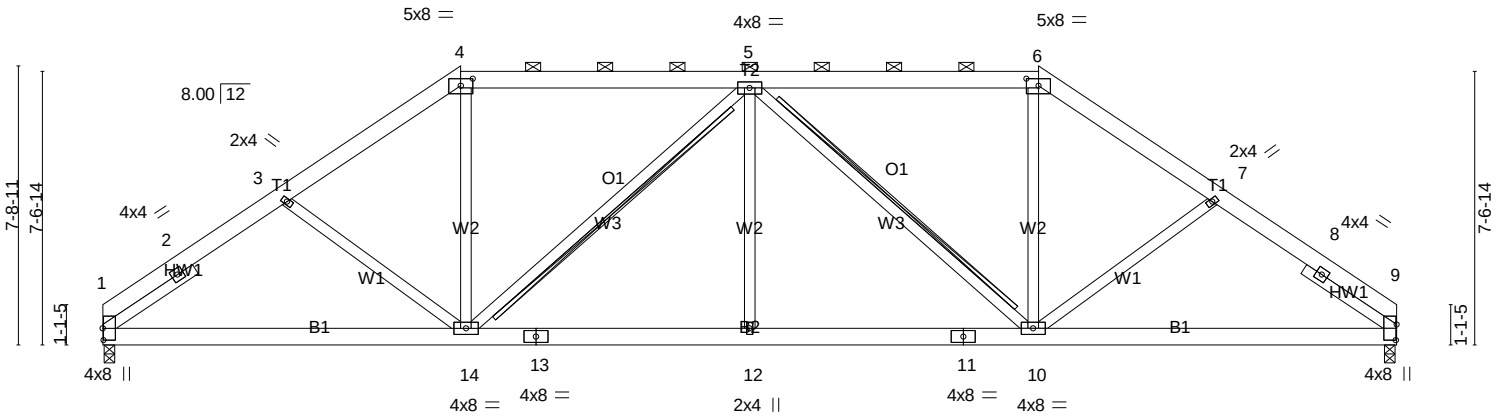
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A4D	Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:05 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-jnBS?31T2Dzf4bhjQDL70GKk2Fn9pPY4Gmr5twzjtEi

5-1-4	9-11-0	17-11-0	25-11-0	30-8-12	35-6-8	35-10-0
5-1-4	4-9-12	8-0-0	8-0-0	4-9-12	4-9-12	0-3-8

Scale: 3/16"=1'



0-0-8	9-11-0	17-11-0	25-11-0	35-6-8	35-10-0 35-9-8
0-0-8	9-10-8	8-0-0	8-0-0	9-7-8	0-3-0 0-0-8

Plate Offsets (X,Y)-- [1:0-4-0,0-0-4], [4:0-4-0,0-2-6], [6:0-4-0,0-2-6], [9:0-5-4,0-0-4]

LOADING (psf)		**SPACING-** 2-0-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.08	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.15	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 265 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-0-9, Right 2x4 SP No.2 -t 3-0-9

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-14, 5-10
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=0-3-8 (min. 0-1-11), 9=0-3-8 (min. 0-1-11)
Max Horz 1=143(LC 9)
Max Grav 1=1433(LC 1), 9=1433(LC 1)

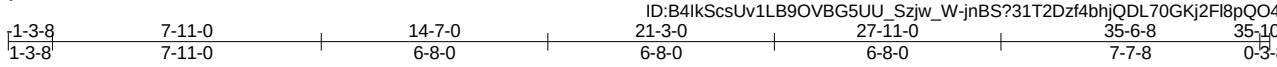
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2026/397, 3-4=-1846/381, 4-5=-1530/360, 5-6=-1530/360, 6-7=-1846/381, 7-9=-2026/397
BOT CHORD 1-14=-223/1550, 12-14=-195/2008, 10-12=-195/2008, 9-10=-222/1522
WEBS 4-14=-58/660, 5-14=-710/128, 5-12=0/499, 5-10=-710/128, 6-10=-58/660

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 8-0-0, Interior(1) 8-0-0 to 9-11-0, Exterior(2) 9-11-0 to 21-2-12, Interior(1) 21-2-12 to 25-11-0, Exterior(2) 25-11-0 to 35-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A4E	Hip	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:05 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-jnBS?31T2Dzf4bhjQDL70GKj2Fl8pQO4Gmr5twzjtEi



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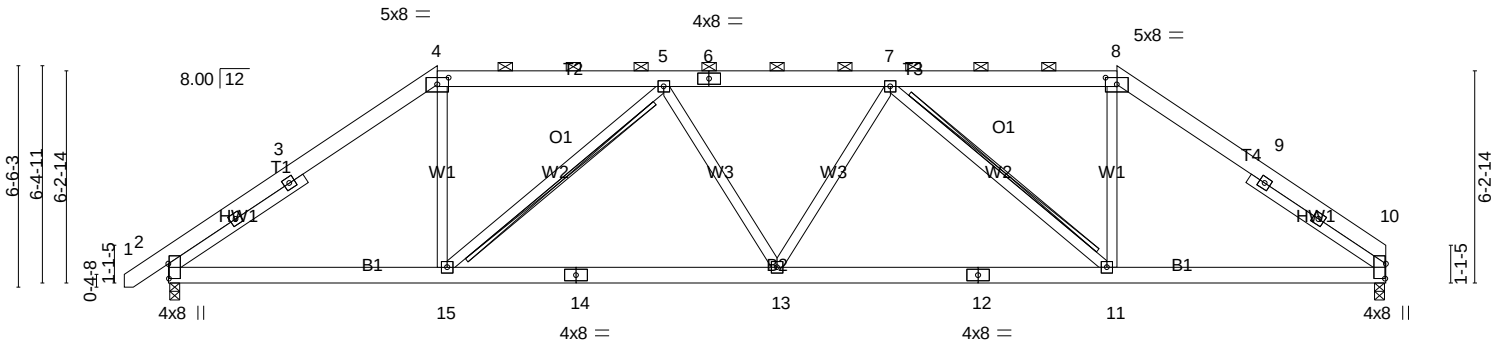

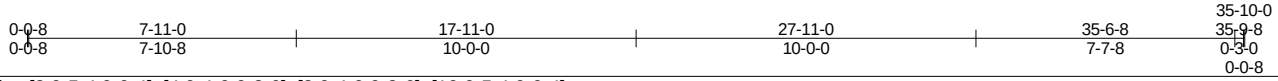

Plate Offsets (X,Y)-- [2:0-5-4,0-0-4], [4:0-4-0,0-2-6], [8:0-4-0,0-2-6], [10:0-5-4,0-0-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.11	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.21	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	13	>999	240	Weight: 253 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 4-9-12, Right 2x4 SP No.2 -t 4-9-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-12 oc purlins, except
2-0-0 oc purlins (4-11-9 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-15, 7-11
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 10=0-3-8 (min. 0-1-13), 2=0-3-8 (min. 0-1-14)
Max Horz 2=118(LC 9)
Max Grav 10=1518(LC 2), 2=1578(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2197/352, 4-5=-1719/356, 5-7=-2453/442, 7-8=-1723/370, 8-10=-2202/362
BOT CHORD 2-15=-142/1695, 13-15=-268/2345, 11-13=-278/2346, 10-11=-156/1699
WEBS 4-15=-11/933, 5-15=-893/168, 5-13=0/251, 7-11=-891/162, 8-11=-6/935

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 7-11-0, Exterior(2) 7-11-0 to 19-2-12, Interior(1) 19-2-12 to 27-11-0, Exterior(2) 27-11-0 to 35-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x4 MT20 unless otherwise indicated.
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 30.0psf 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	A4GR	Half Hip Girder	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:08 2021 Page 1
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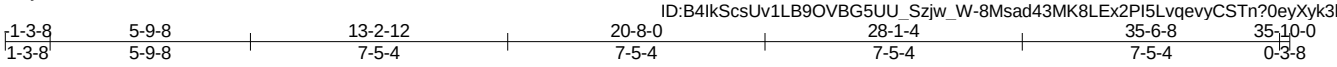

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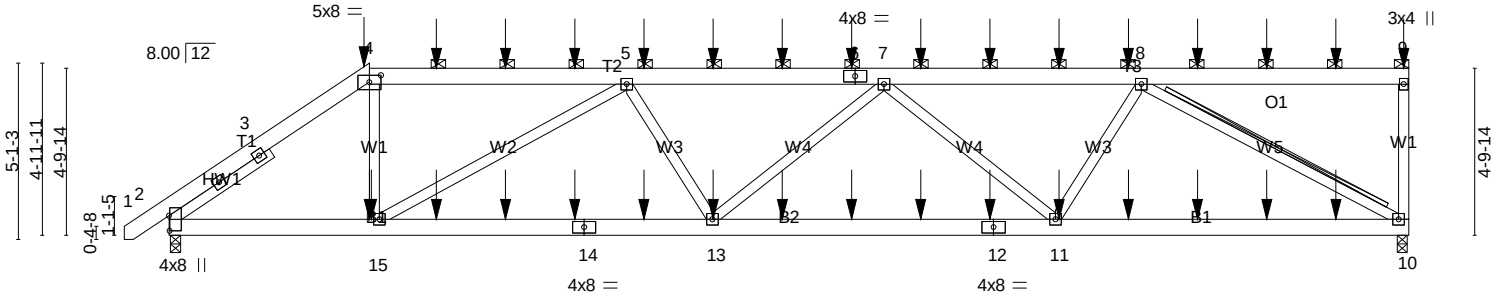

Plate Offsets (X,Y)-- [2:0-5-4,0-0-4], [4:0-4-0,0-2-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.12	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.25	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.12	11-13	>999	240	Weight: 497 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-6-7

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 8-10
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 10=0-3-8 (min. 0-1-9), 2=0-3-8 (min. 0-1-10)
Max Horz 2=122(LC 8)
Max Uplift10=-502(LC 5), 2=-443(LC 5)
Max Grav 10=2689(LC 1), 2=2711(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-4086/736, 4-5=-3249/626, 5-7=-5584/1017, 7-8=-4557/799, 9-10=-351/134
BOT CHORD 2-15=-618/3185, 13-15=-1099/5392, 11-13=-1115/5524, 10-11=-787/3841
WEBS 4-15=-212/1851, 5-15=-2541/587, 5-13=0/661, 7-13=0/301, 7-11=-1288/422, 8-11=-23/1504, 8-10=-4373/906

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are 4x4 MT20 unless otherwise indicated.
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 30.0psf 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) except (jt=lb) 10=502, 2=443.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

NOTES-

11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 124 lb down and 106 lb up at 5-9-8, 127 lb down and 102 lb up at 7-8-12, 127 lb down and 102 lb up at 9-8-12, 127 lb down and 102 lb up at 11-8-12, 127 lb down and 102 lb up at 13-8-12, 127 lb down and 102 lb up at 15-8-12, 127 lb down and 102 lb up at 17-8-12, 127 lb down and 102 lb up at 19-8-12, 127 lb down and 102 lb up at 21-8-12, 127 lb down and 102 lb up at 23-8-12, 127 lb down and 102 lb up at 25-8-12, 127 lb down and 102 lb up at 27-8-12, 127 lb down and 102 lb up at 29-8-12, 127 lb down and 102 lb up at 31-8-12, and 127 lb down and 102 lb up at 33-8-12, and 50 lb down and 19 lb up at 35-8-4 on top chord, and 350 lb down and 104 lb up at 5-9-8, 75 lb down at 7-8-12, 75 lb down at 9-8-12, 75 lb down at 11-8-12, 75 lb down at 13-8-12, 75 lb down at 15-8-12, 75 lb down at 17-8-12, 75 lb down at 19-8-12, 75 lb down at 21-8-12, 75 lb down at 23-8-12, 75 lb down at 25-8-12, 75 lb down at 27-8-12, 75 lb down at 29-8-12, and 75 lb down at 31-8-12, and 75 lb down at 33-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 4-9=-60, 2-10=-20
   Concentrated Loads (lb)
      Vert: 4=-105(B) 6=-105(B) 9=-31 14=-37(B) 15=-350(B) 13=-37(B) 11=-37(B) 12=-37(B) 16=-105(B) 17=-105(B) 18=-105(B) 19=-105(B) 20=-105(B) 21=-105(B) 22=-105(B) 23=-105(B) 24=-105(B) 25=-105(B) 26=-105(B) 27=-105(B) 28=-105(B) 29=-37(B) 30=-37(B) 31=-37(B) 32=-37(B) 33=-37(B) 34=-37(B) 35=-37(B) 36=-37(B) 37=-37(B) 38=-37(B)

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	B1	Common	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:08 2021 Page 1
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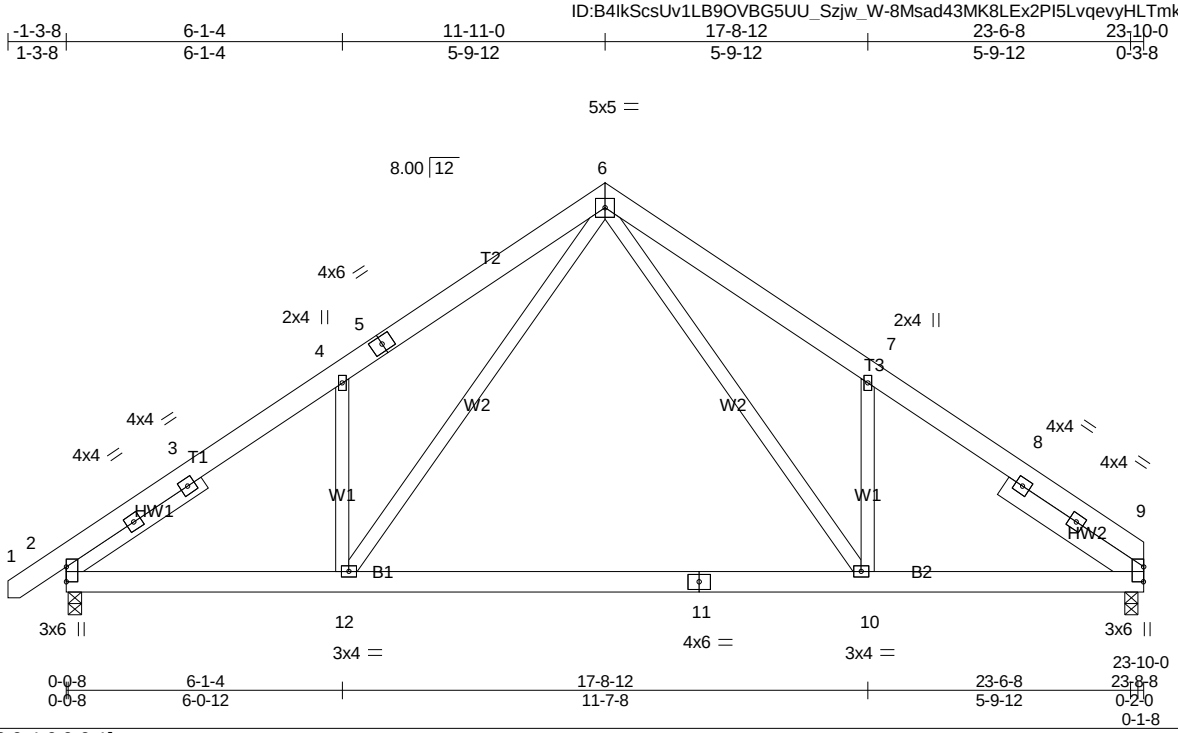

Plate Offsets (X,Y)-- [9:0-4-0,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.25	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.36	10-12	>792	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	10-12	>999	240	Weight: 183 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-7-10, Right 2x6 SP No.1 -t 3-7-10

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 9=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-8)
Max Horz 2=173(LC 11)
Max Uplift 2=-3(LC 12)
Max Grav 9=1010(LC 20), 2=1077(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1494/179, 4-6=-1447/354, 6-7=-1456/367, 7-9=-1498/188
BOT CHORD 2-12=-46/1211, 10-12=0/775, 9-10=-47/1110
WEBS 4-12=-313/254, 6-12=-160/776, 6-10=-162/788, 7-10=-314/257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 11-11-0, Exterior(2) 11-11-0 to 19-11-0, Interior(1) 19-11-0 to 23-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	B2	Hip	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:09 2021 Page 1
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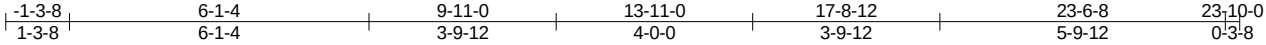

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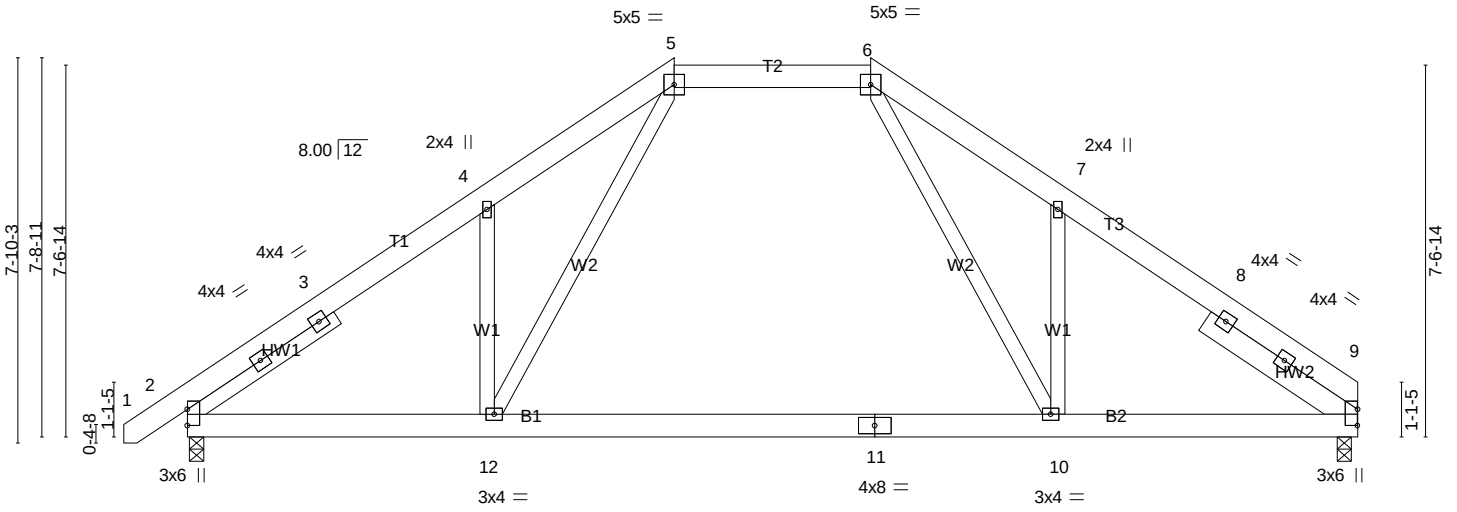

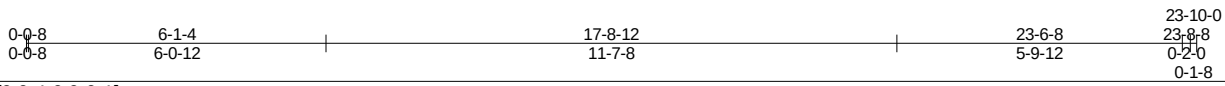

Plate Offsets (X,Y)-- [9:0-4-0,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.27	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.38	10-12	>751	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	12	>999	240	Weight: 175 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-7-10, Right 2x6 SP No.1 -t 3-7-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 9=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-8)
Max Horz 2=145(LC 11)
Max Grav 9=1014(LC 20), 2=1080(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1507/204, 4-5=-1399/353, 5-6=-844/264, 6-7=-1410/351, 7-9=-1511/207
BOT CHORD 2-12=-64/1187, 10-12=-8/869, 9-10=-60/1113
WEBS 5-12=-120/677, 6-10=-125/690, 7-10=-256/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 9-11-0, Exterior(2) 9-11-0 to 23-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	B3	Hip	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:10 2021 Page 1
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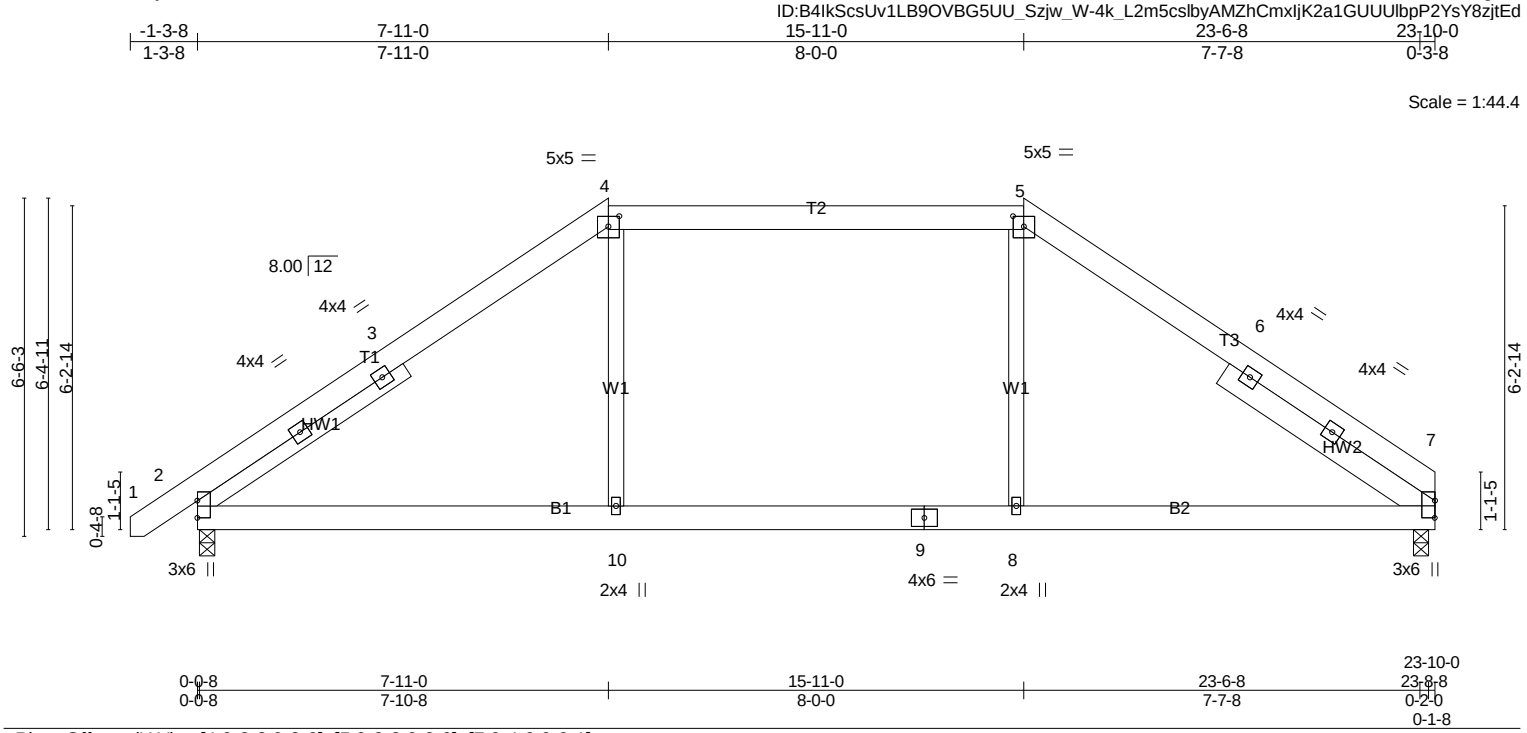

Plate Offsets (X,Y)-- [4:0-2-8,0-2-6], [5:0-2-8,0-2-6], [7:0-4-0,0-0-1]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.33	Vert(LL)	-0.11	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.41	Vert(CT)	-0.14	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.13	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Wind(LL)	0.09	2-10	>999	240	Weight: 158 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 4-9-12, Right 2x6 SP No.1 -t 4-9-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 7=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-8)
Max Horz 2=118(LC 11)
Max Grav 7=1140(LC 2), 2=1200(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1581/241, 4-5=-1213/270, 5-7=-1579/239
BOT CHORD 2-10=-57/1201, 8-10=-55/1213, 7-8=-58/1202
WEBS 4-10=0/565, 5-8=0/565

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 7-11-0, Exterior(2) 7-11-0 to 23-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	B4	Hip	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:10 2021 Page 1
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-1-3-8	5-11-0	11-11-0	17-11-0	23-6-8	23-10-0
1-3-8	5-11-0	6-0-0	6-0-0	5-7-8	0-3-8

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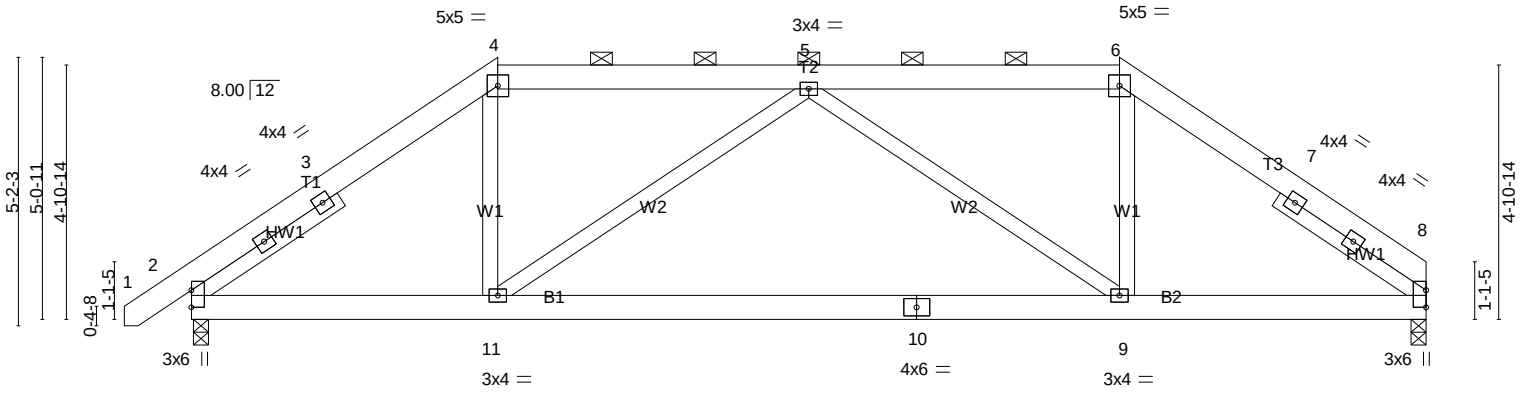

0-0-8	5-11-0	17-11-0	23-6-8	23-10-0
0-0-8	5-10-8	12-0-0	5-7-8	0-3-8

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.18	Vert(LL)	-0.12	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.40	Vert(CT)	-0.26	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.43	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Wind(LL)	0.02	9-11	>999	240	Weight: 165 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-5-4, Right 2x4 SP No.2 -t 3-5-4

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 8=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-8)
Max Horz 2=92(LC 9)
Max Grav 8=952(LC 1), 2=1025(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1355/220, 4-5=-978/236, 5-6=-984/240, 6-8=-1337/224
BOT CHORD 2-11=-70/990, 9-11=-198/1280, 8-9=-75/996
WEBS 4-11=0/510, 5-11=-435/156, 5-9=-431/153, 6-9=0/510

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 17-2-12, Interior(1) 17-2-12 to 17-11-0, Exterior(2) 17-11-0 to 23-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	B5GR	Hip Girder	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:12 2021 Page 1
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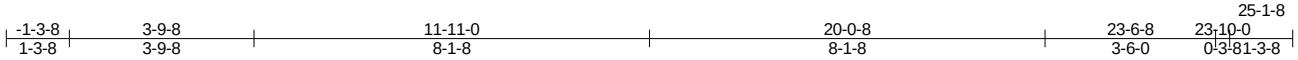

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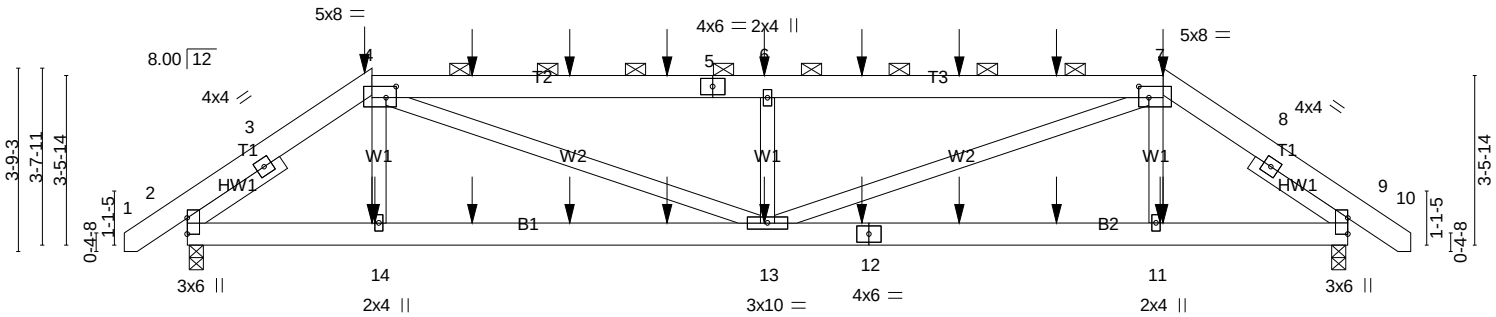

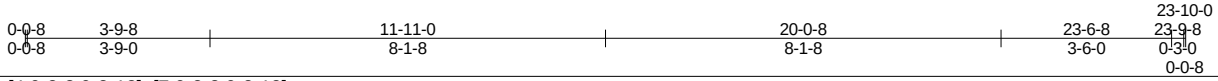

Plate Offsets (X,Y)-- [4:0-2-8,0-2-12], [7:0-2-8,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.05	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.09	13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.05	13	>999	240	Weight: 331 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 2-4-0, Right 2x4 SP No.2 -t 2-4-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8 (min. 0-1-8), 9=0-3-8 (min. 0-1-8)
Max Horz 2=-65(LC 25)
Max Uplift2=-213(LC 8), 9=-211(LC 4)
Max Grav 2=1451(LC 1), 9=1449(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2044/353, 4-6=-2915/554, 6-7=-2915/554, 7-9=-2041/352
BOT CHORD 2-14=-302/1561, 13-14=-299/1576, 11-13=-249/1573, 9-11=-253/1558
WEBS 4-14=0/447, 4-13=-324/1455, 6-13=-793/365, 7-13=-327/1458, 7-11=0/446

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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 30.0psf 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 100 lb uplift at joint(s) except (jt=lb) 2=213, 9=211.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 78 lb up at 3-9-8, 89 lb down and 75 lb up at 5-10-4, 89 lb down and 75 lb up at 7-10-4, 89 lb down and 75 lb up at 9-10-4, 89 lb down and 75 lb up at 11-10-4, 89 lb down and 75 lb up at 13-10-4, 89 lb down and 75 lb up at 15-10-4, and 89 lb down and 75 lb up at 17-10-4, and 85 lb down and 78 lb up at 20-0-8 on top chord, and 182 lb down and 58 lb up at 3-9-8, 35 lb down at 5-10-4, 35 lb down at 7-10-4, 35 lb down at 9-10-4, 35 lb down at 11-10-4, 35 lb down at 13-10-4, 35 lb down at 15-10-4, and 35 lb down at 17-10-4, and 182 lb down and 58 lb up at 19-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20
   Concentrated Loads (lb)
      Vert: 4=-41(B) 12=-17(B) 14=-182(B) 13=-17(B) 6=-41(B) 7=-41(B) 11=-182(B) 15=-41(B) 16=-41(B) 17=-41(B) 18=-41(B) 19=-41(B) 20=-41(B) 21=-17(B) 22=-17(B) 23=-17(B) 24=-17(B) 25=-17(B)

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	B6GR	Roof Special Girder	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:13 2021 Page 1
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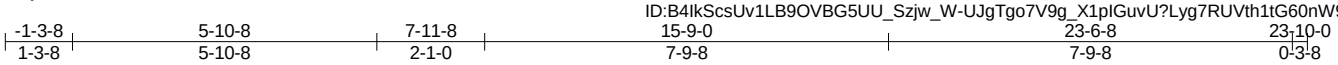

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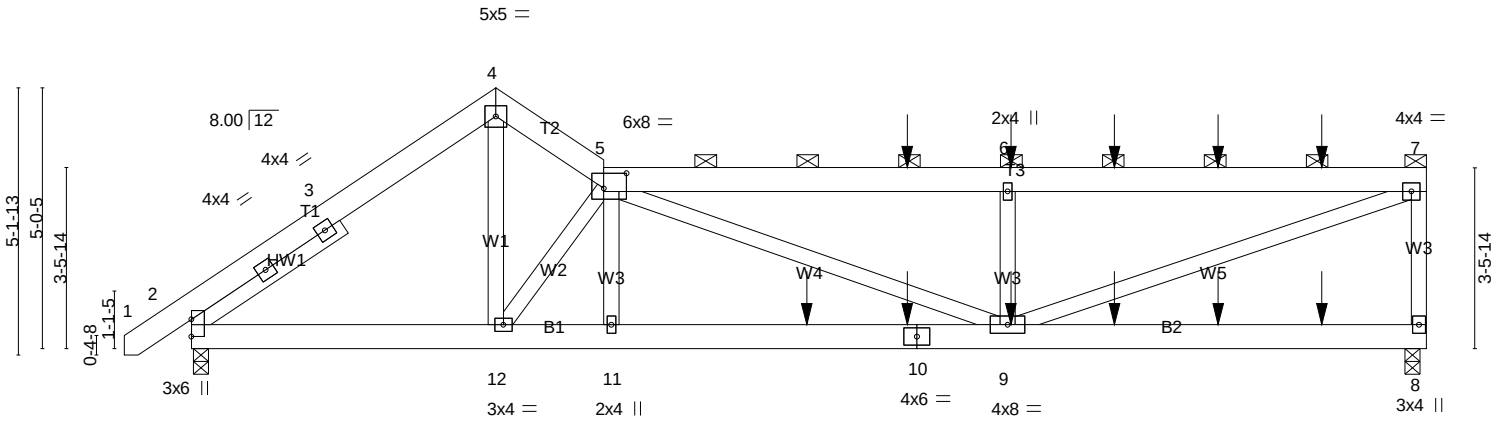

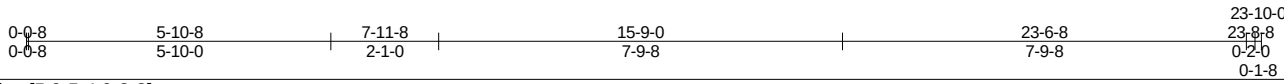

Plate Offsets (X,Y)-- [5:0-5-4,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.07	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.15	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03	9-11	>999	240	Weight: 342 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-8)
Max Horz 2=101(LC 27)
Max Uplift8=-108(LC 9)
Max Grav 8=1359(LC 1), 2=1284(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1682/18, 4-5=-1578/25, 5-6=-2715/121, 6-7=-2713/119, 7-8=-1277/150
BOT CHORD 2-12=0/1257, 11-12=0/2437, 9-11=0/2461
WEBS 4-12=0/1612, 5-12=-2107/0, 5-11=0/519, 5-9=-259/356, 6-9=-703/311, 7-9=-114/2838

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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 30.0psf 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 100 lb uplift at joint(s) except (jt=lb) 8=108.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	B6GR	Roof Special Girder	1	2	Job Reference (optional)

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 75 lb up at 13-9-12, 89 lb down and 75 lb up at 15-9-12, 89 lb down and 75 lb up at 17-9-12, and 89 lb down and 75 lb up at 19-9-12, and 89 lb down and 75 lb up at 21-9-12 on top chord, and 388 lb down at 11-10-8 , 35 lb down at 13-9-12, 35 lb down at 15-9-12, 35 lb down at 17-9-12, and 35 lb down at 19-9-12, and 35 lb down at 21-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 4-5=-60, 5-7=-60, 2-8=-20
   Concentrated Loads (lb)
      Vert: 10=-17(F) 6=-41(F) 9=-17(F) 13=-41(F) 14=-41(F) 15=-41(F) 16=-41(F) 17=-388(F) 18=-17(F) 19=-17(F) 20=-17(F)

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	C1	Common	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:14 2021 Page 1
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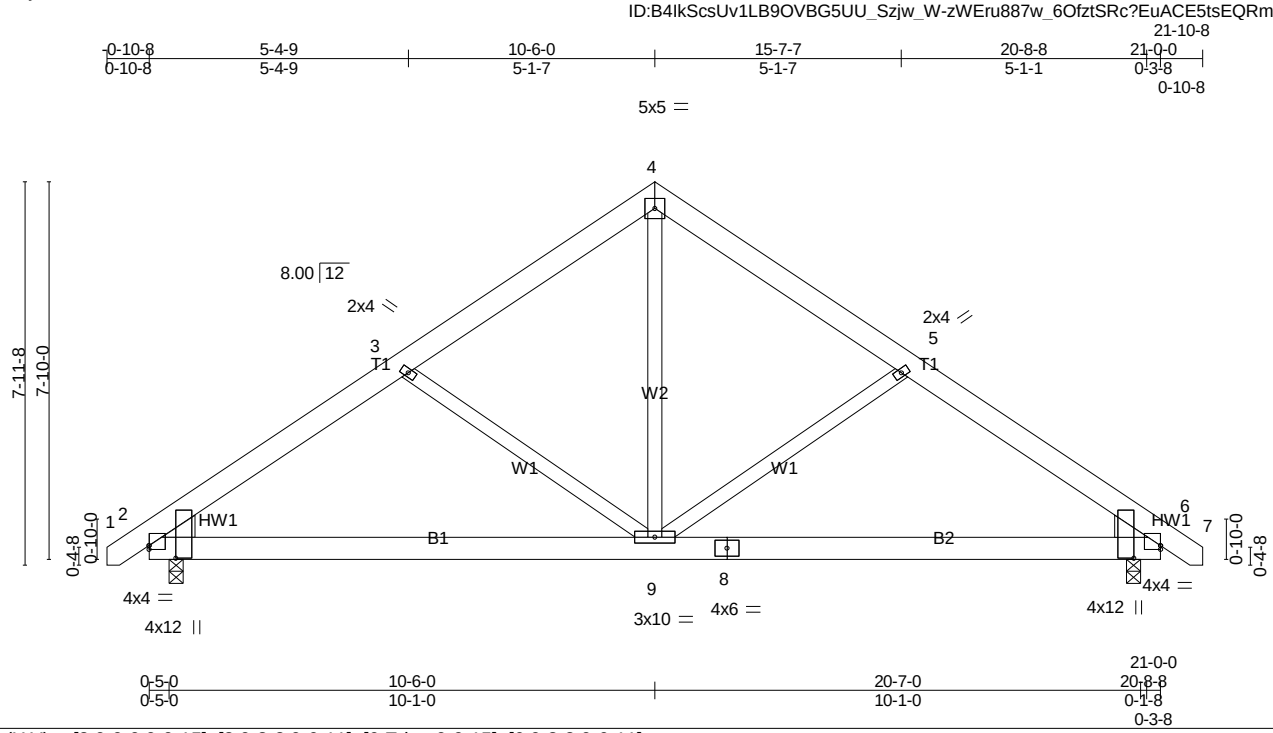

Plate Offsets (X,Y)-- [2:0-0-0,0-0-15], [2:0-3-2,0-6-11], [6:Edge,0-0-15], [6:0-3-2,0-6-11]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.06	2-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.12	2-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	2-9	>999	240	Weight: 145 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.1 , Right: 2x6 SP No.1

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-1-8), 6=0-3-8 (min. 0-1-8)
Max Horz 2=-149(LC 10)
Max Uplift2=-64(LC 9), 6=-64(LC 8)
Max Grav 2=882(LC 1), 6=882(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1095/712, 3-4=-847/685, 4-5=-847/685, 5-6=-1095/712
BOT CHORD 2-9=-501/834, 6-9=-504/834
WEBS 4-9=-637/583, 5-9=-296/198, 3-9=-296/198

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 7-3-1, Interior(1) 7-3-1 to 10-6-0, Exterior(2) 10-6-0 to 18-6-0, Interior(1) 18-6-0 to 21-8-15 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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) 2, 6.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	C1GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:15 2021 Page 1
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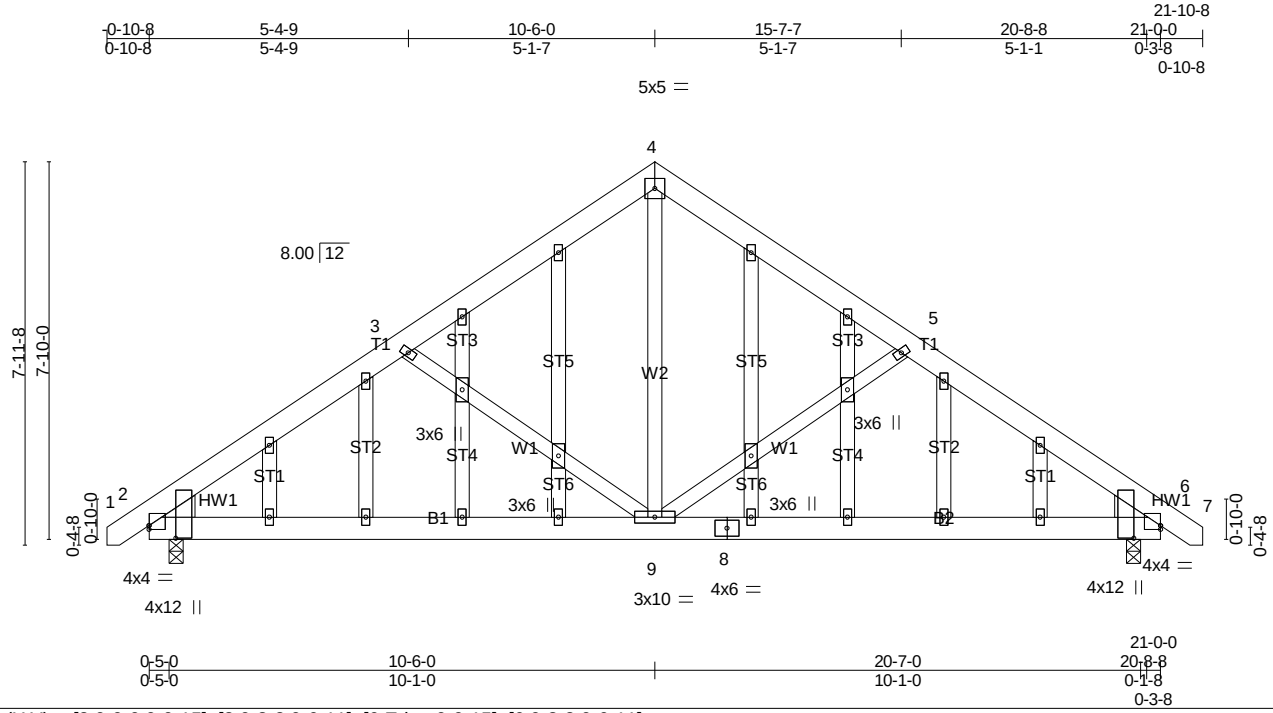

Plate Offsets (X,Y)-- [2:0-0-0,0-0-15], [2:0-3-2,0-6-11], [6:Edge,0-0-15], [6:0-3-2,0-6-11]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.06	2-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.12	2-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.10	2-9	>999	240	Weight: 187 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.1 , Right: 2x6 SP No.1

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-1-8), 6=0-3-8 (min. 0-1-8)
Max Horz 2=-187(LC 10)
Max Uplift 2=-109(LC 12), 6=-109(LC 13)
Max Grav 2=882(LC 1), 6=882(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1095/712, 3-4=-847/685, 4-5=-847/685, 5-6=-1095/712
BOT CHORD 2-9=-501/834, 6-9=-504/834
WEBS 4-9=-637/583, 5-9=-297/222, 3-9=-297/222

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-15 to 7-3-1, Interior(1) 7-3-1 to 10-6-0, Exterior(2) 10-6-0 to 18-6-0, Interior(1) 18-6-0 to 21-8-15 zone; cantilever left and right exposed ; porch left and 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) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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 100 lb uplift at joint(s) except (jt=lb) 2=109, 6=109.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	C2GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:15 2021 Page 1
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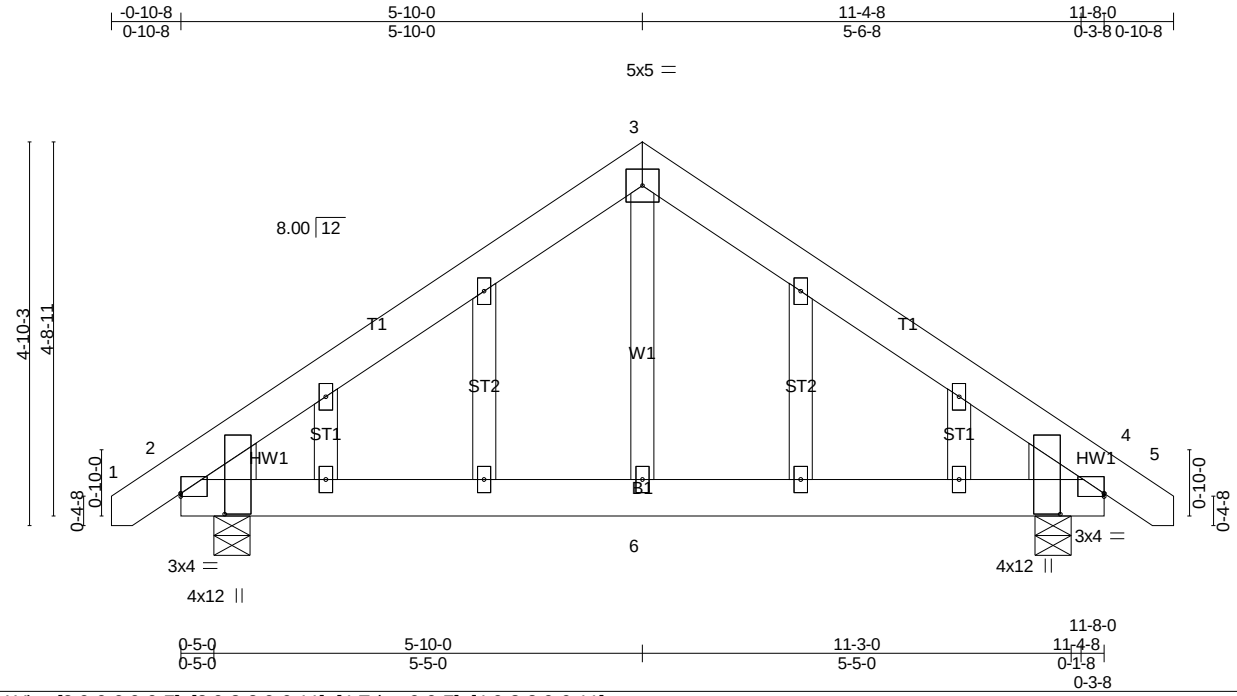

Plate Offsets (X,Y)-- [2:0-0-0,0-0-7], [2:0-3-2,0-6-11], [4:Edge,0-0-7], [4:0-3-2,0-6-11]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	4-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.01	4-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.02	4-6	>999	240	Weight: 85 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.1 , Right: 2x6 SP No.1

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-5-8 (min. 0-1-8), 4=0-5-8 (min. 0-1-8)
Max Horz 2=87(LC 11)
Max Uplift 2=-33(LC 9), 4=-33(LC 8)
Max Grav 2=507(LC 1), 4=507(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-521/390, 3-4=-521/390
BOT CHORD 2-6=-212/338, 4-6=-212/338
WEBS 3-6=-282/270

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ; porch left and 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) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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 100 lb uplift at joint(s) 2, 4.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	D1	Common	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:16 2021 Page 1
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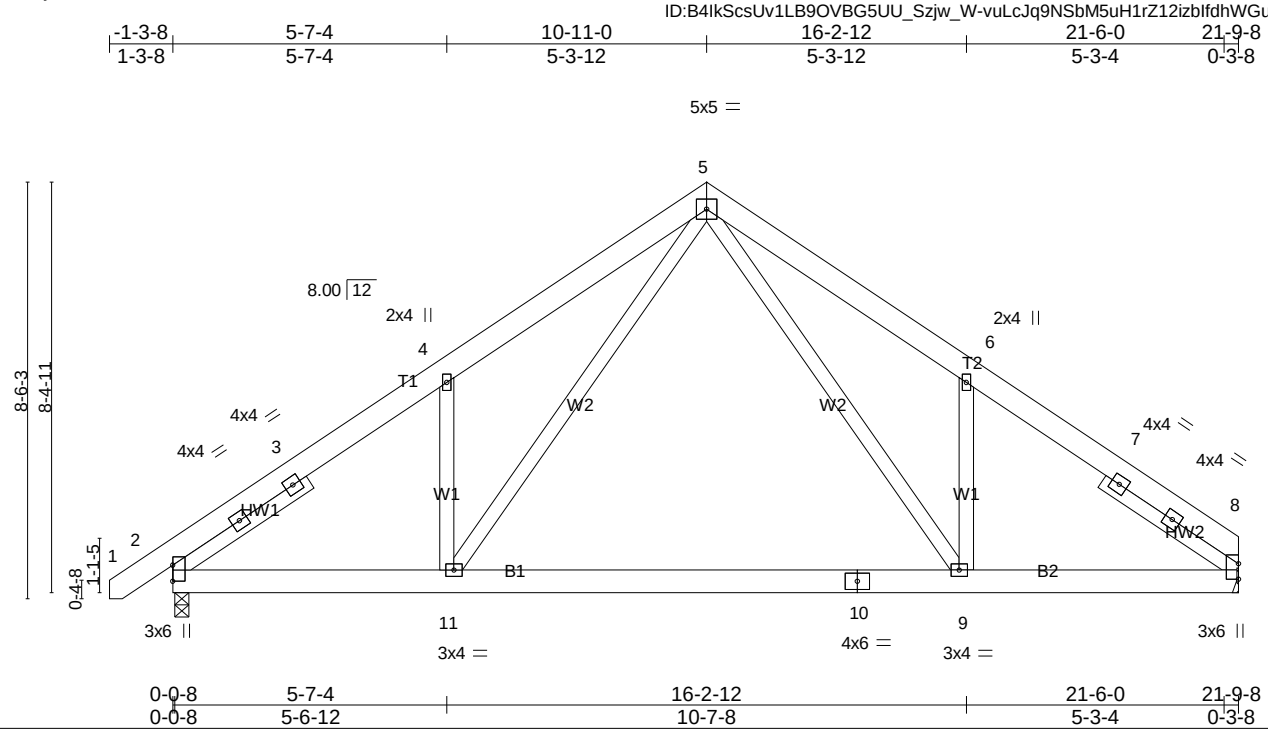

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.17	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.25	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	9-11	>999	240	Weight: 165 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-4-1, Right 2x4 SP No.2 -t 3-3-15

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 8=Mechanical, 2=0-3-8 (min. 0-1-8)
Max Horz 2=159(LC 9)
Max Uplift2=-4(LC 12)
Max Grav 8=913(LC 20), 2=979(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1330/167, 4-5=-1265/330, 5-6=-1266/342, 6-8=-1330/177
BOT CHORD 2-11=-43/1073, 9-11=0/694, 8-9=-44/977
WEBS 4-11=-277/234, 5-11=-149/679, 5-9=-154/679, 6-9=-271/238

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-15 to 6-10-1, Interior(1) 6-10-1 to 10-11-0, Exterior(2) 10-11-0 to 18-11-0, Interior(1) 18-11-0 to 21-9-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	E1	Common	5	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:16 2021 Page 1
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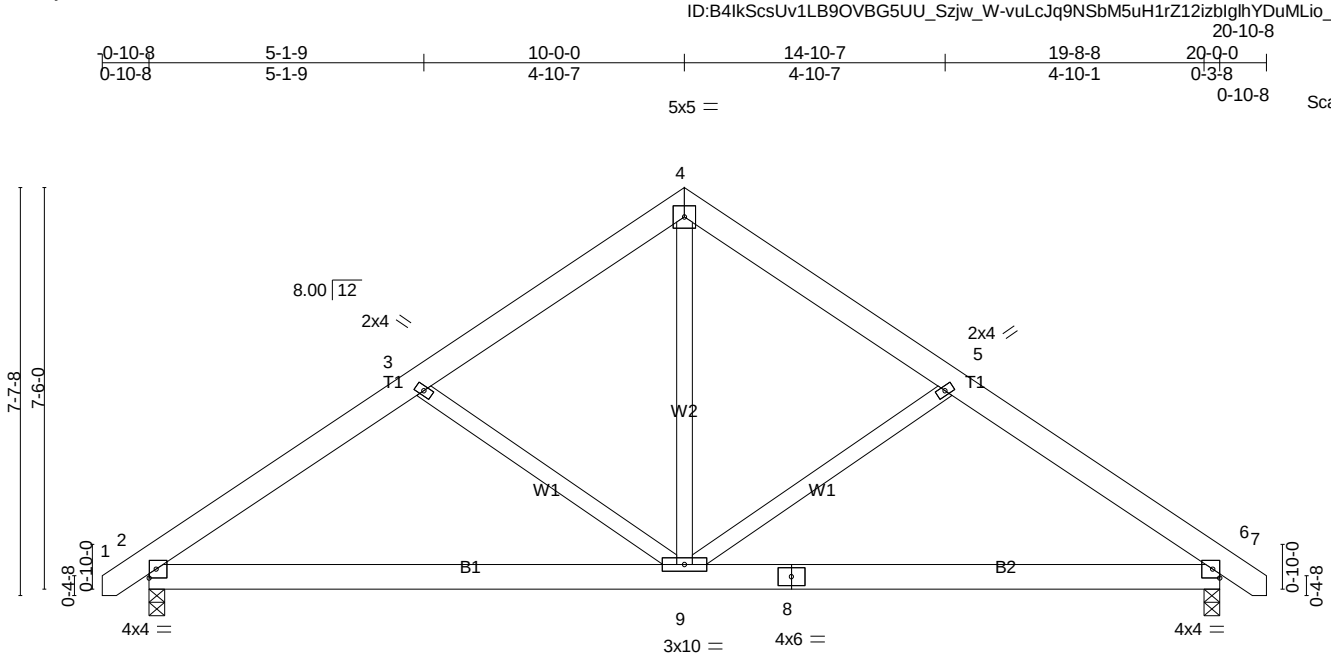

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.05	2-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.10	2-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	2-9	>999	240	Weight: 136 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 6=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-8)
Max Horz 2=-143(LC 10)
Max Uplift6=-61(LC 8), 2=-61(LC 9)
Max Grav 6=842(LC 1), 2=842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1038/686, 3-4=-803/662, 4-5=-803/662, 5-6=-1038/686
BOT CHORD 2-9=-482/788, 6-9=-485/788
WEBS 4-9=-616/551, 5-9=-279/187, 3-9=-279/187

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 7-3-1, Interior(1) 7-3-1 to 10-0-0, Exterior(2) 10-0-0 to 18-0-0, Interior(1) 18-0-0 to 20-8-15 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
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 30.0psf 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) 6, 2.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	E1GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:17 2021 Page 1
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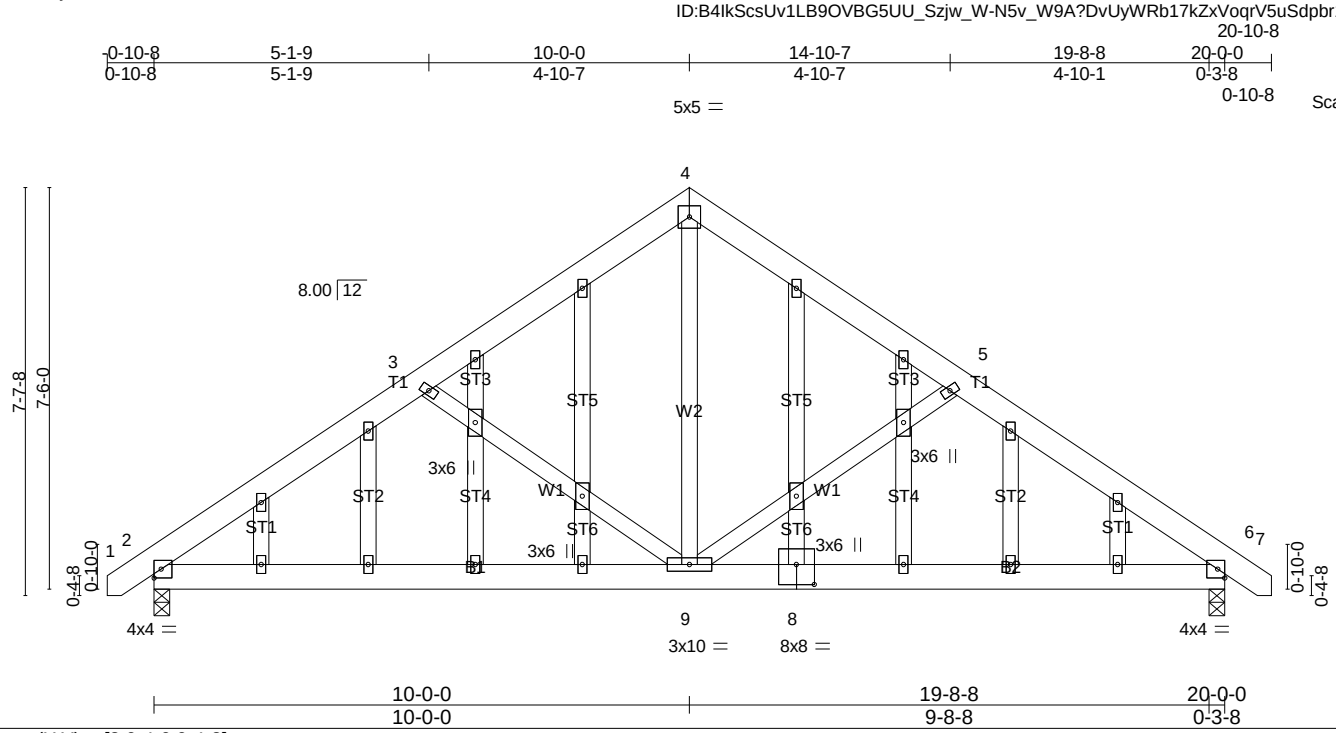

Plate Offsets (X,Y)-- [8:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.05	2-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.10	2-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	2-9	>999	240	Weight: 173 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 6=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-8)
Max Horz 2=-178(LC 10)
Max Uplift6=-104(LC 13), 2=-104(LC 12)
Max Grav 6=842(LC 1), 2=842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1038/686, 3-4=-803/662, 4-5=-803/662, 5-6=-1038/686
BOT CHORD 2-9=-482/788, 6-9=-485/788
WEBS 4-9=-616/551, 5-9=-280/211, 3-9=-279/210

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-15 to 7-3-1, Interior(1) 7-3-1 to 10-0-0, Exterior(2) 10-0-0 to 18-0-0, Interior(1) 18-0-0 to 20-8-15 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
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) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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 100 lb uplift at joint(s) except (jt=lb) 6=104, 2=104.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	E2	Common	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:18 2021 Page 1
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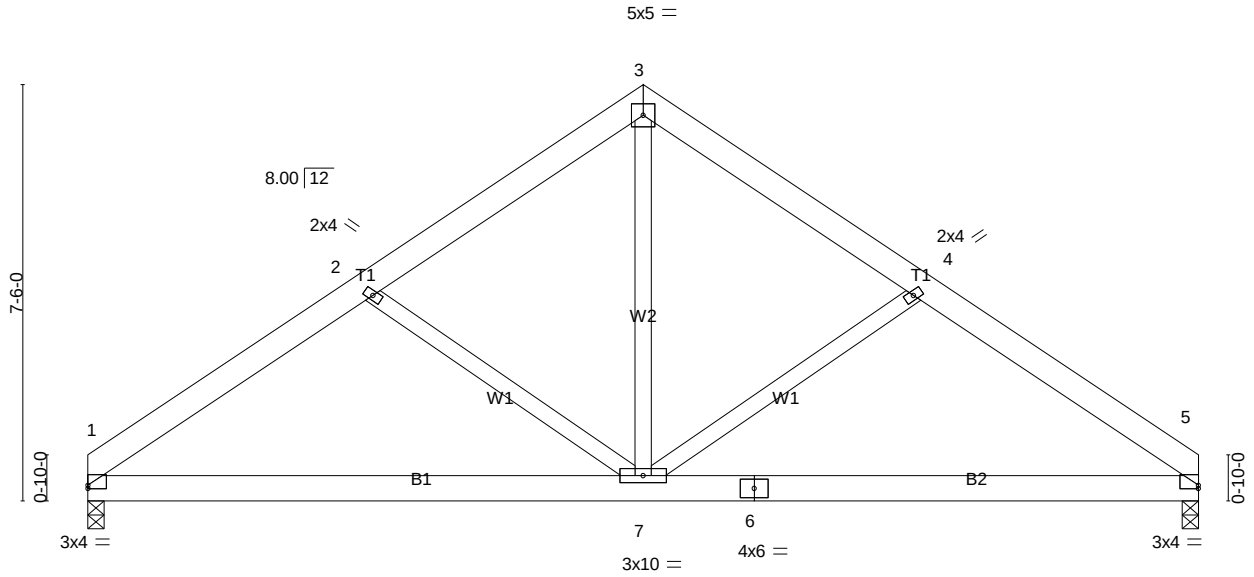
5-1-9	10-0-0	14-10-7	19-8-8	20-0-0
5-1-9	4-10-7	4-10-7	4-10-1	0-3-8

Scale = 1:41.5



10-0-0	19-8-8	20-0-0
10-0-0	9-8-8	0-3-8

Plate Offsets (X,Y)-- [1:0-0-0,0-0-11], [5:Edge,0-0-11]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.05	1-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	1-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.09	1-7	>999	240	Weight: 131 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=0-3-8 (min. 0-1-8), 5=0-3-8 (min. 0-1-8)
Max Horz 1=-139(LC 8)
Max Uplift 1=-59(LC 9), 5=-59(LC 8)
Max Grav 1=788(LC 1), 5=788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1044/694, 2-3=-809/669, 3-4=-809/669, 4-5=-1044/694
BOT CHORD 1-7=-492/794, 5-7=-493/794
WEBS 3-7=-621/553, 4-7=-278/183, 2-7=-278/183

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 8-1-12, Interior(1) 8-1-12 to 10-0-0, Exterior(2) 10-0-0 to 18-0-0, Interior(1) 18-0-0 to 19-10-4 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
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 30.0psf 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) 1, 5.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	F1	Common	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:18 2021 Page 1
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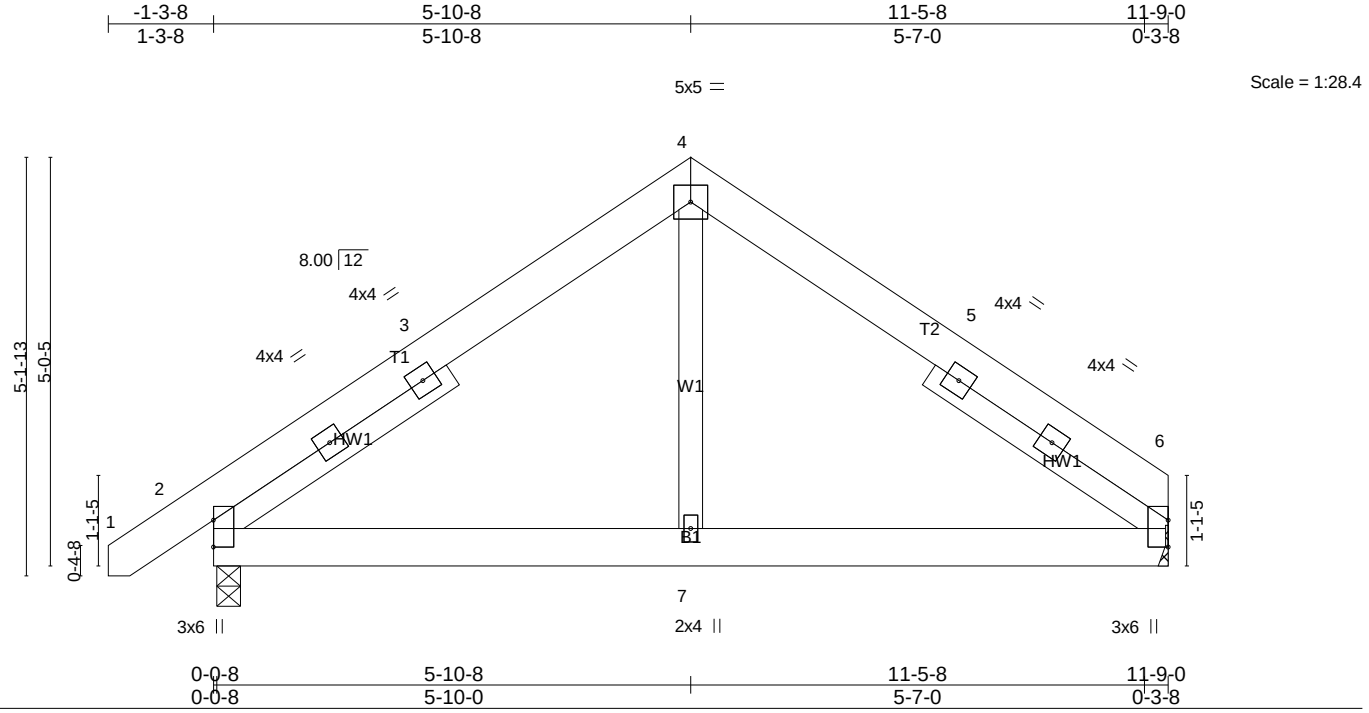

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.00	2-7	>999	240	Weight: 82 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-6-0, Right 2x4 SP No.2 -t 3-6-0

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 6=Mechanical, 2=0-3-8 (min. 0-1-8)
Max Horz 2=92(LC 11)
Max Uplift2=-6(LC 12)
Max Grav 6=467(LC 1), 2=543(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-540/118, 4-6=-514/116
BOT CHORD 2-7=0/339, 6-7=0/339
WEBS 4-7=0/270

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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 100 lb uplift at joint(s) 2.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	F1GE	Common Supported Gable	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:19 2021 Page 1
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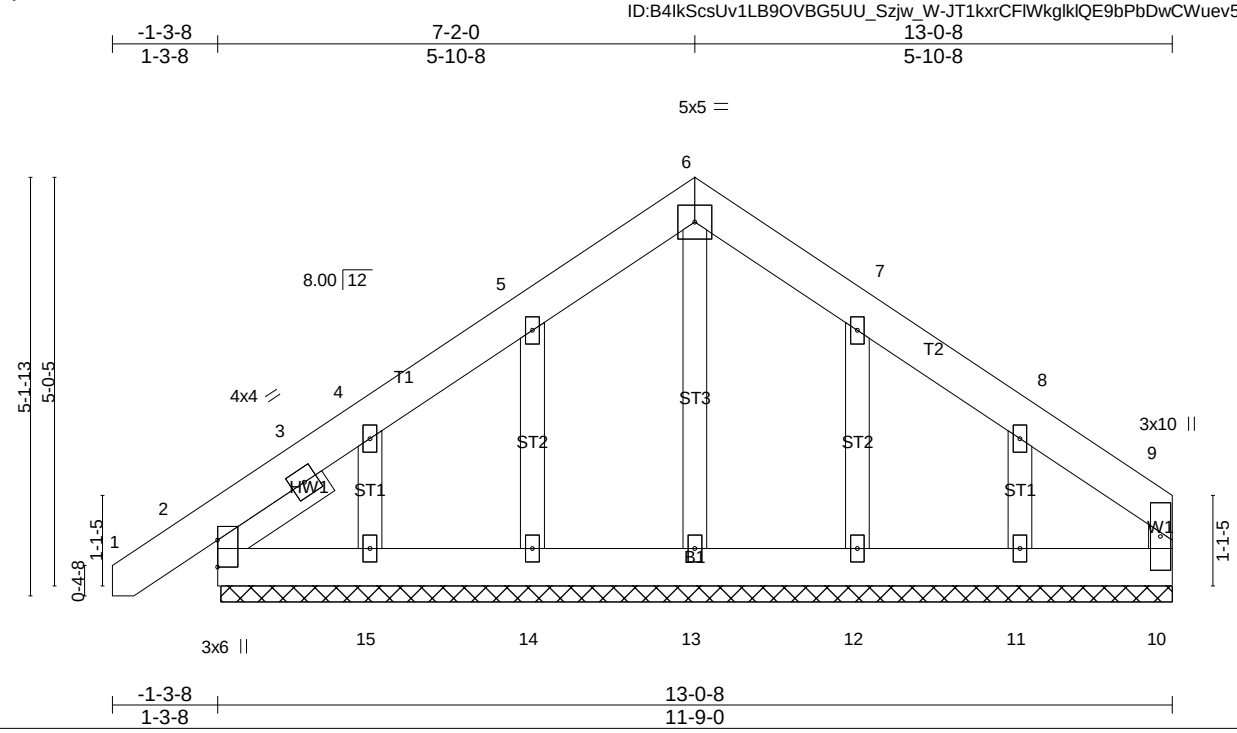

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 87 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 1-7-3

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. All bearings 11-8-8.
(lb) - Max Horz 2=92(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 10, 2, 13, 14, 15, 12, 11

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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 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) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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 100 lb uplift at joint(s) 2, 14, 15, 12, 11.
9) Non Standard bearing condition. Review required.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	QA1	GABLE	1	1	Job Reference (optional)

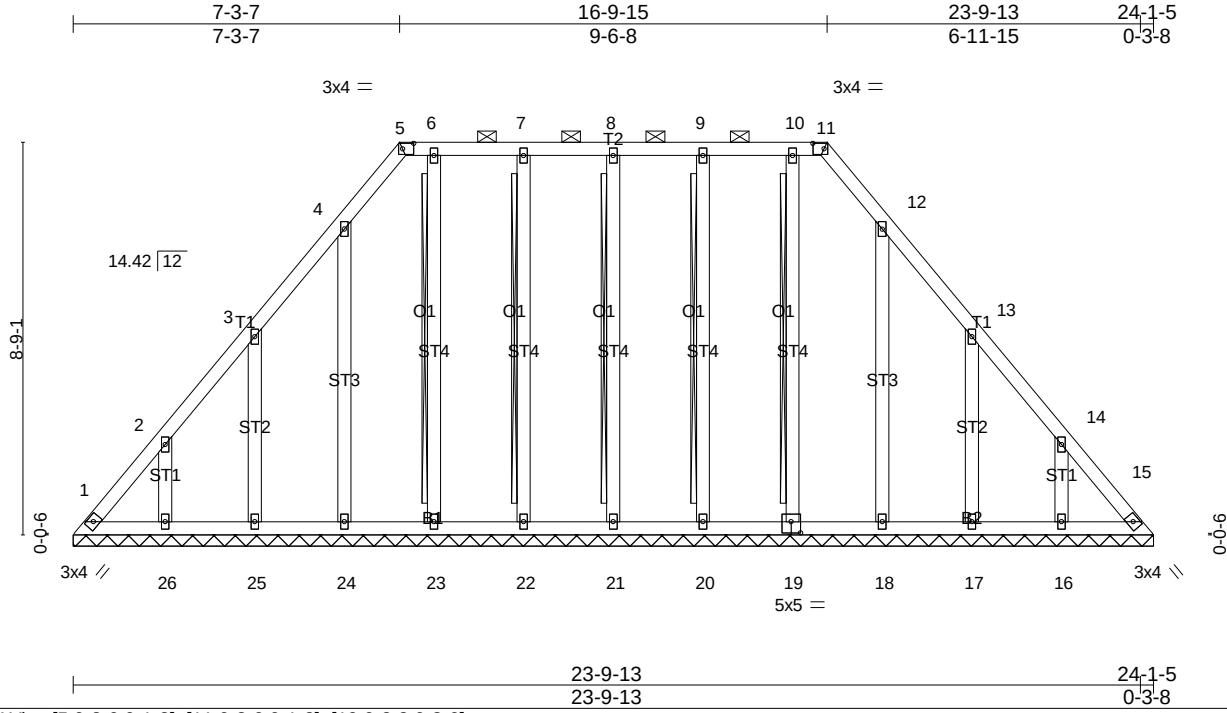

Plate Offsets (X,Y)-- [5:0-3-0,0-1-8], [11:0-3-0,0-1-8], [19:0-2-8,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	15	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 182 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 8-21, 7-22, 6-23, 9-20, 10-19
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 24-1-5.
(lb) - Max Horz 1=-178(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 21, 22, 23, 24, 25, 26, 20, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16

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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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 100 lb uplift at joint(s) 1, 15, 21, 22, 23, 24, 25, 26, 20, 18, 17, 16.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	QA2	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:20 2021 Page 1
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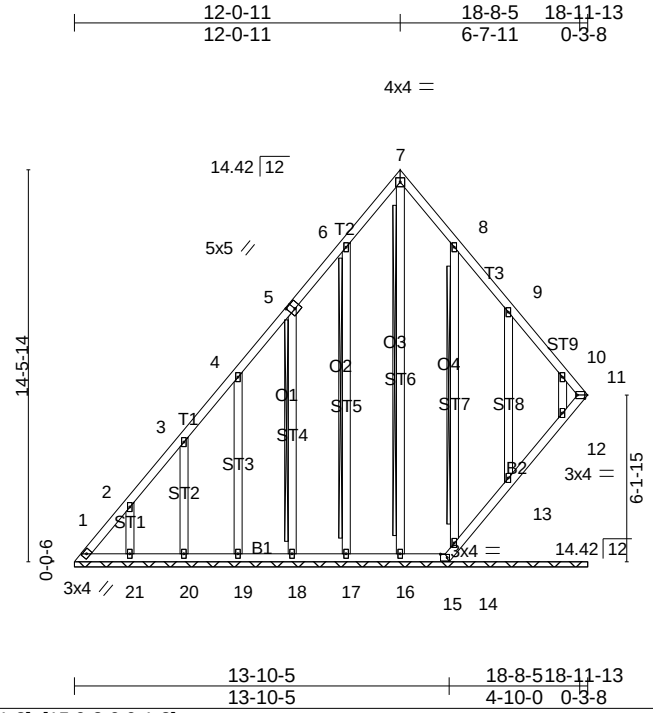


Plate Offsets (X,Y)-- [5:0-2-8,0-3-0], [11:Edge,0-1-8], [15:0-3-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 175 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.
WEBS T-Brace: 2x4 SPF No.2 - 7-16, 6-17, 5-18, 8-14
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

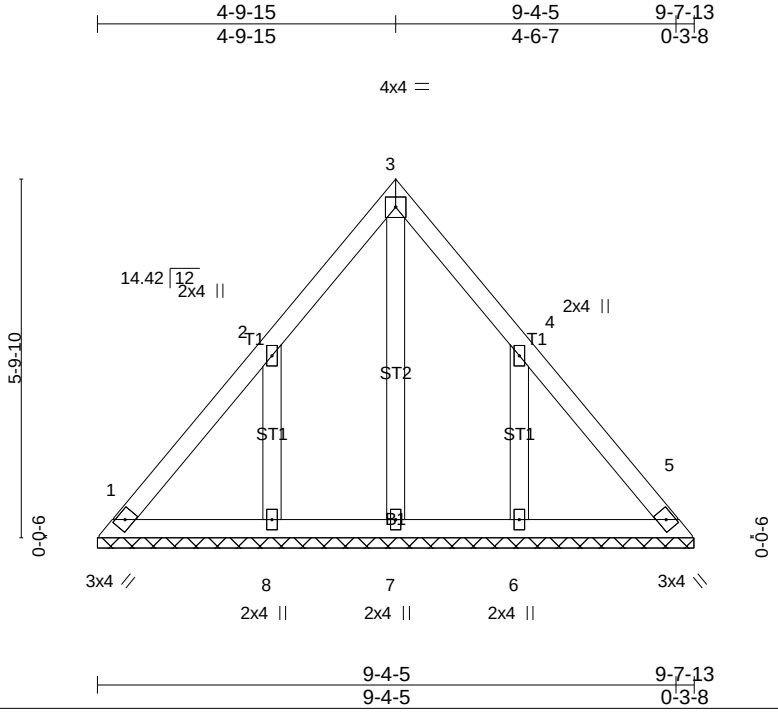
REACTIONS. All bearings 18-11-13.
(lb) - Max Horz 1=283(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 19, 20, 21, 14, 13, 12 except 11=-202(LC 11), 1=-157(LC 10), 15=-139(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18, 19, 20, 21, 14, 13, 12 except 11=292(LC 13), 1=318(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-502/422, 2-3=-378/306

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-12 to 8-0-9, Interior(1) 8-0-9 to 12-0-11, Exterior(2) 12-0-11 to 18-9-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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) 11, 14, 13, 12 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) 17, 18, 19, 20, 21, 14, 13, 12 except (jt=lb) 11=202, 1=157, 15=139.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 14, 13, 12.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	QA3	GABLE	1	1	Job Reference (optional)



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 51 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 9-7-13.
(lb) - Max Horz 1=-114(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-116(LC 12), 6=-116(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=261(LC 19), 6=261(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-268/243, 4-6=-268/243

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1 except (jt=lb) 8=116, 6=116.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	QB1	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:22 2021 Page 1
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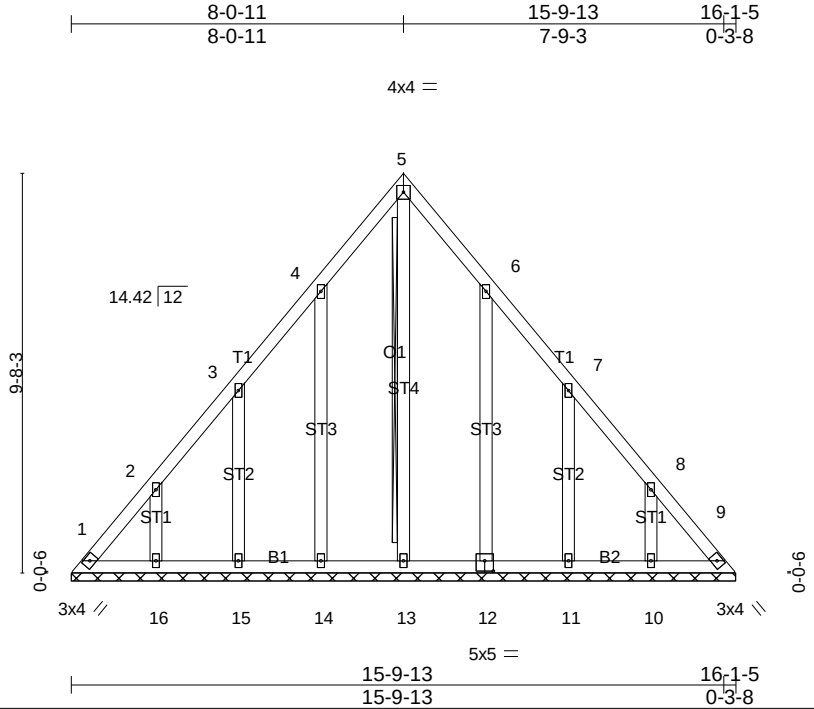

Plate Offsets (X,Y)-- [12:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 112 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.
WEBS T-Brace: 2x4 SPF No.2 - 5-13
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 16-1-5.
(lb) - Max Horz 1=-195(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 16, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-281/223, 8-9=-280/221

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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, 9, 14, 15, 16, 12, 11, 10.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	QB2	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:23 2021 Page 1
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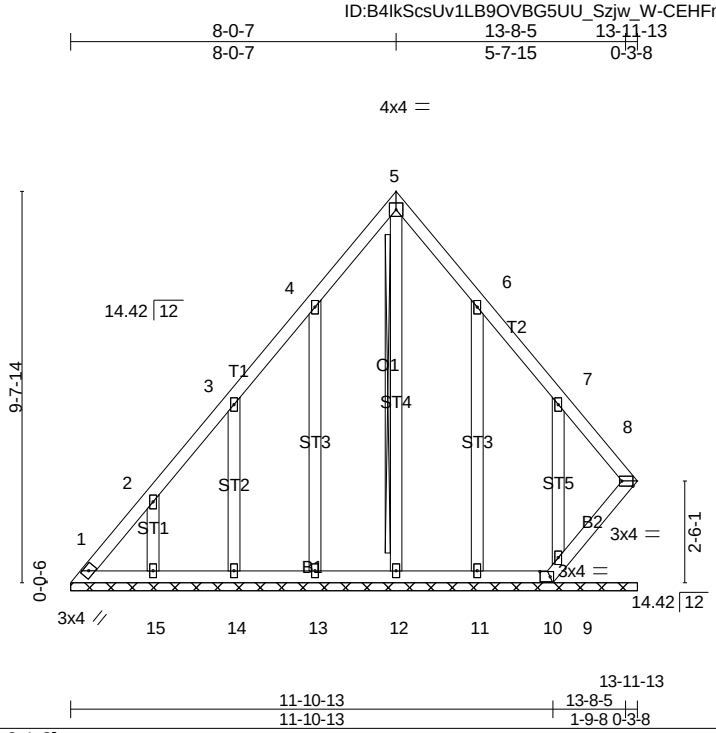


Plate Offsets (X,Y)-- [8:Edge,0-1-8], [10:0-3-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 103 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.
WEBS T-Brace: 2x4 SPF No.2 - 5-12
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 13-11-13.
(lb) - Max Horz 1=190(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 14, 15, 11 except 8=-117(LC 11), 10=-117(LC 13), 9=-104(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 8, 10, 12, 13, 14, 15, 11, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-317/248

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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) 8, 9 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) 1, 13, 14, 15, 11 except (jt=lb) 8=117, 10=117, 9=104.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

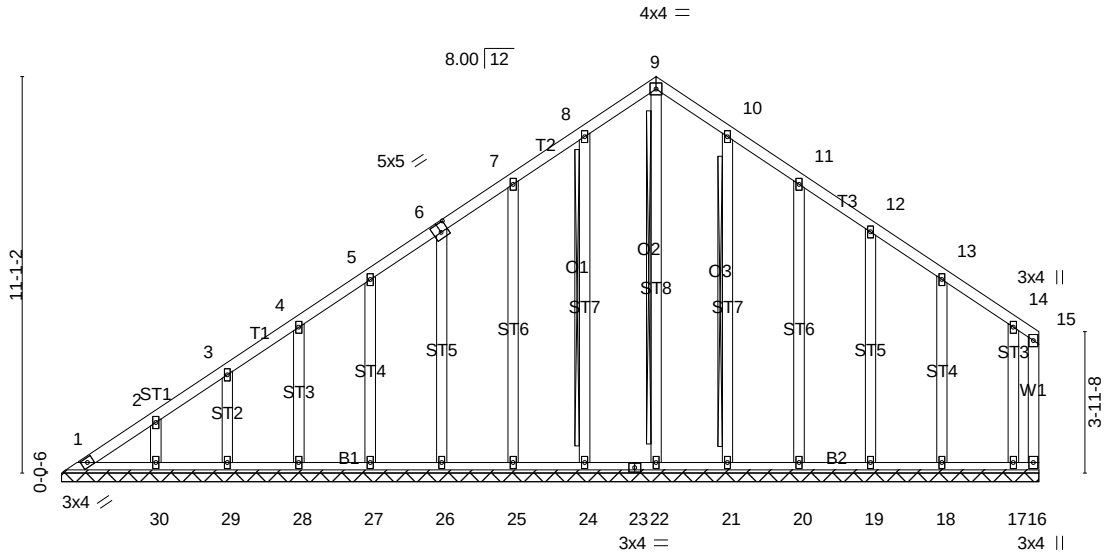
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	V1	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:24 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-gRqd_ZFOZ2MzsWeN1iBaHHd2vvLpm3ateDxb2KzjtEP

16-7-11 / 16-7-11 — 27-0-11 / 10-5-0 — 27-4-3 / 0-3-8

Scale: 3/16"=1'



27-0-11 / 27-0-11 — 27-4-3 / 0-3-8

Plate Offsets (X,Y)-- [6:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 213 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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.
WEBS T-Brace: 2x4 SPF No.2 - 9-22, 8-24, 10-21
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 27-4-3.
(lb) - Max Horz 1=211(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 16, 1, 22, 24, 25, 26, 27, 28, 29, 30, 21, 20, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 16, 1, 22, 24, 25, 26, 27, 28, 29, 30, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-240/271, 9-10=-240/272

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 8-7-11, Interior(1) 8-7-11 to 16-7-11, Exterior(2) 16-7-11 to 24-7-11, Interior(1) 24-7-11 to 27-2-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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) 16, 1, 22, 24, 25, 26, 27, 28, 29, 30, 21, 20, 19, 18, 17.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	V2	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:24 2021 Page 1
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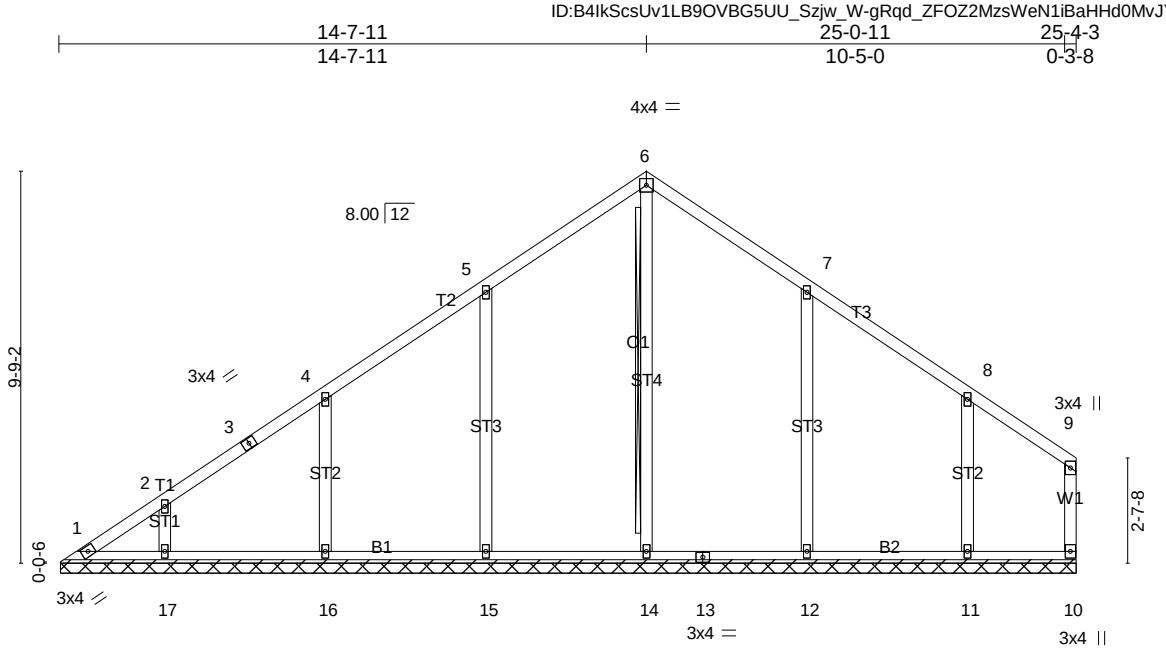


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 132 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 6-14
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 25-3-10.
(lb) - Max Horz 1=186(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 10, 1, 15, 16, 17, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 10, 1 except 14=495(LC 22), 15=542(LC 19), 16=428(LC 19), 17=279(LC 23), 12=549(LC 20), 11=393(LC 20)

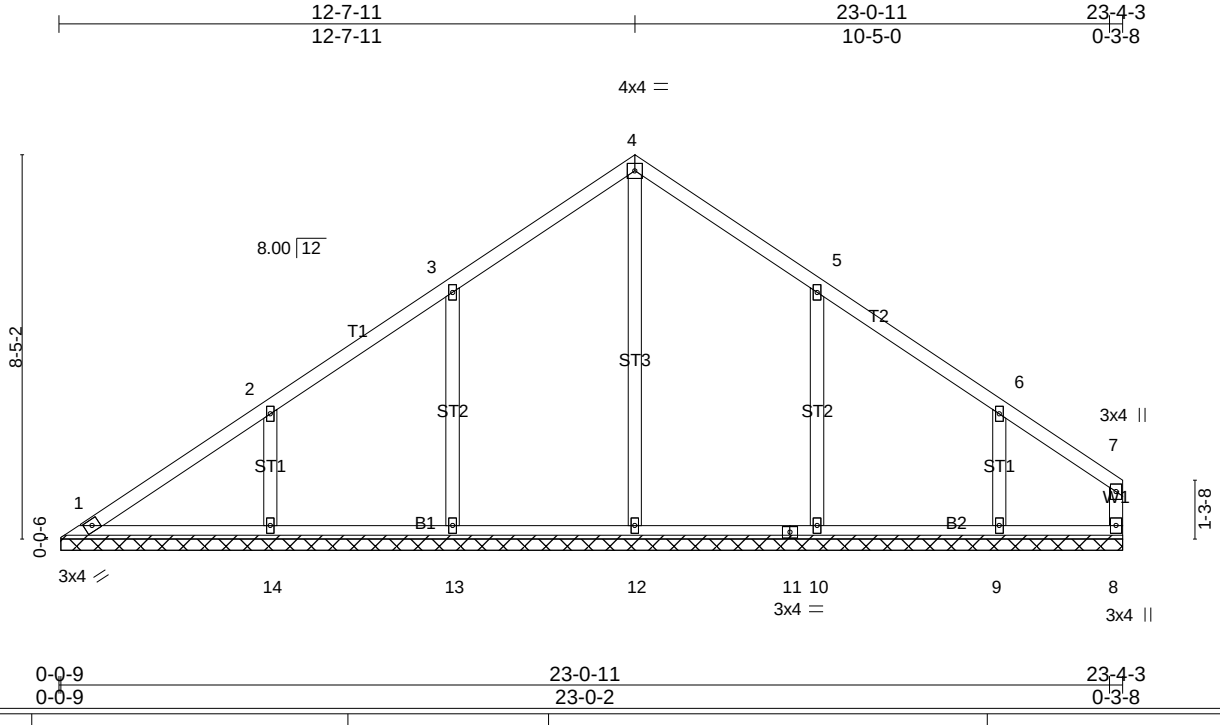
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-237/258, 6-7=-238/259
WEBS 5-15=-270/174, 4-16=-261/165, 7-12=-276/177

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 8-5-15, Interior(1) 8-5-15 to 14-7-11, Exterior(2) 14-7-11 to 22-7-11, Interior(1) 22-7-11 to 25-2-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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) 10, 1, 15, 16, 17, 12, 11.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	V3	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:25 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-8dO0CvG0KMUqTfDZbQipqU9B4Jf_VVO1sth8amzjtEO



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 112 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 23-3-10.
(lb) - Max Horz 1=161(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 14, 10, 9
Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 12=479(LC 22), 13=515(LC 19), 14=406(LC 19), 10=534(LC 20), 9=327(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=-263/172, 2-14=-286/184, 5-10=-276/178

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 8-7-11, Interior(1) 8-7-11 to 12-7-11, Exterior(2) 12-7-11 to 20-7-11, Interior(1) 20-7-11 to 23-2-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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, 13, 14, 10, 9.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

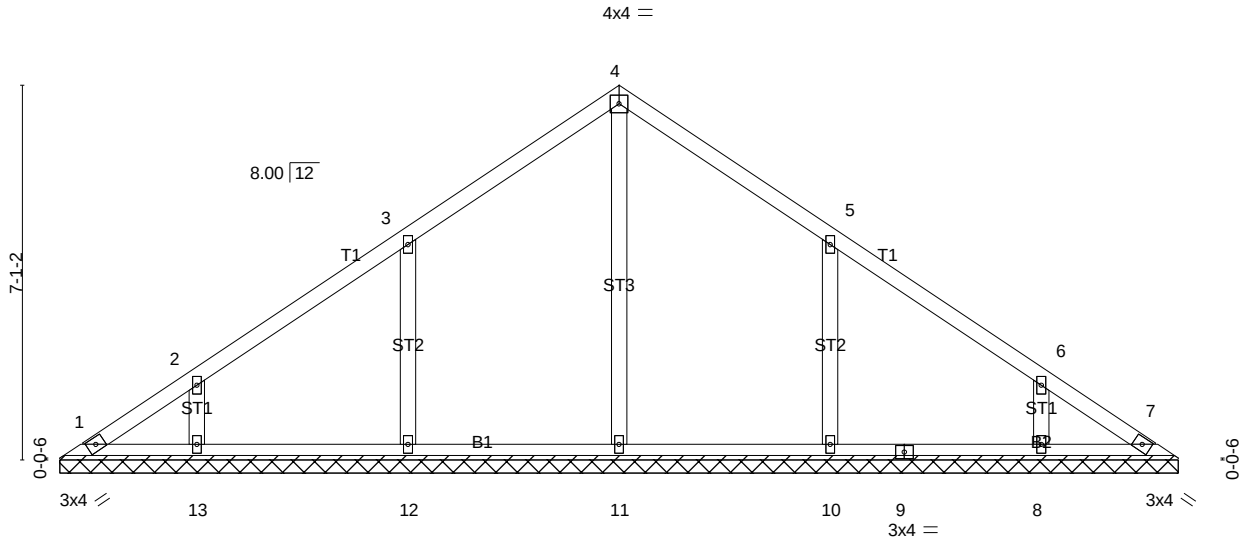
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	V4	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:26 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-cpyOPEHf5gch5pnm87D2NiiMtj?nEzPA5XQi7CzjtEN

10-7-11 | 20-11-15 | 21-3-7
10-7-11 | 10-4-3 | 0-3-8

Scale = 1:43.7



0-0-9 | 20-11-15 | 21-3-7
0-0-9 | 20-11-6 | 0-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 93 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 21-2-5.
(lb) - Max Horz 1=-135(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 13, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=442(LC 19), 12=449(LC 19), 13=273(LC 1), 10=448(LC 20), 8=273(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-279/180, 5-10=-279/180

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 8-5-15, Interior(1) 8-5-15 to 10-7-11, Exterior(2) 10-7-11 to 18-7-11, Interior(1) 18-7-11 to 20-9-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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 30.0psf 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, 12, 13, 10, 8.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

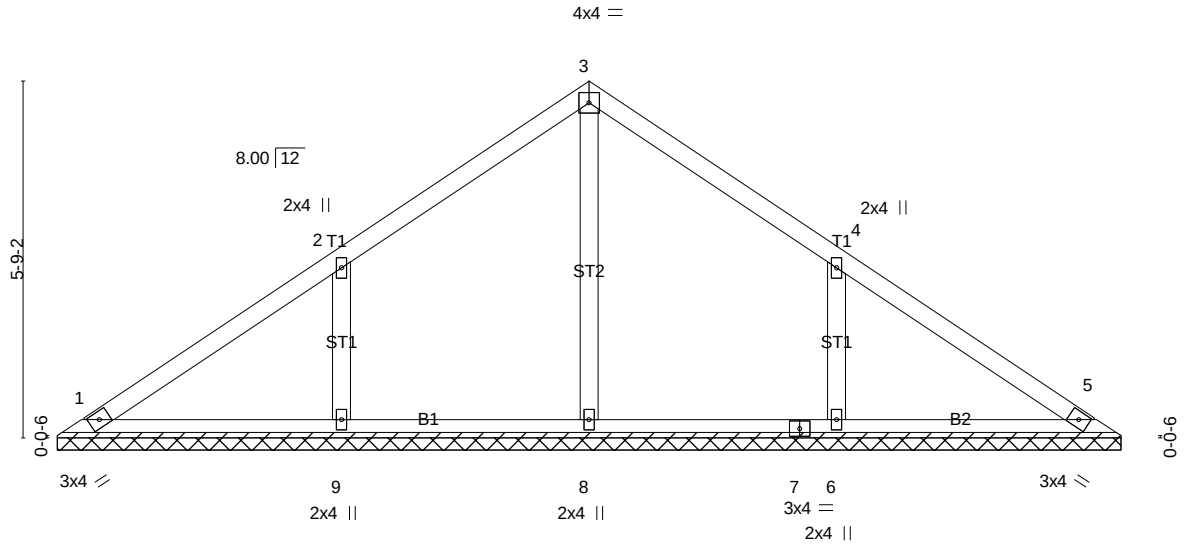
Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	V5	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:27 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-40WmcaIHszlYjzMyirkHvvFXF7LezRUKKBAFffzjtEM

8-7-11 | 16-11-15 | 17-3-7
8-7-11 | 8-4-3 | 0-3-8

Scale = 1:37.2



0-0-9 | 16-11-15 | 17-3-7
0-0-9 | 16-11-6 | 0-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	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 IRC2015/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 17-2-5.
(lb) - Max Horz 1=-108(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 9, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=395(LC 19), 9=429(LC 19), 6=429(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-304/192, 4-6=-304/192

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	V6	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:27 2021 Page 1
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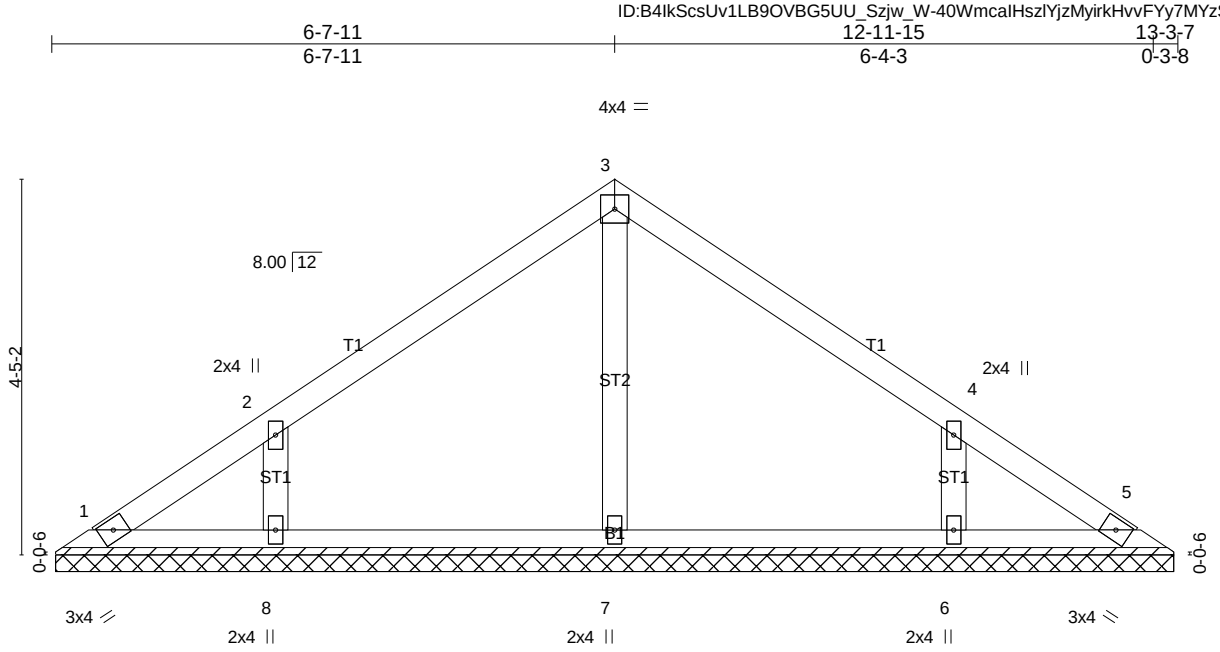

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 51 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 13-2-5.
(lb) - Max Horz 1=82(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=311(LC 19), 6=310(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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 8, 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	V7	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:28 2021 Page 1
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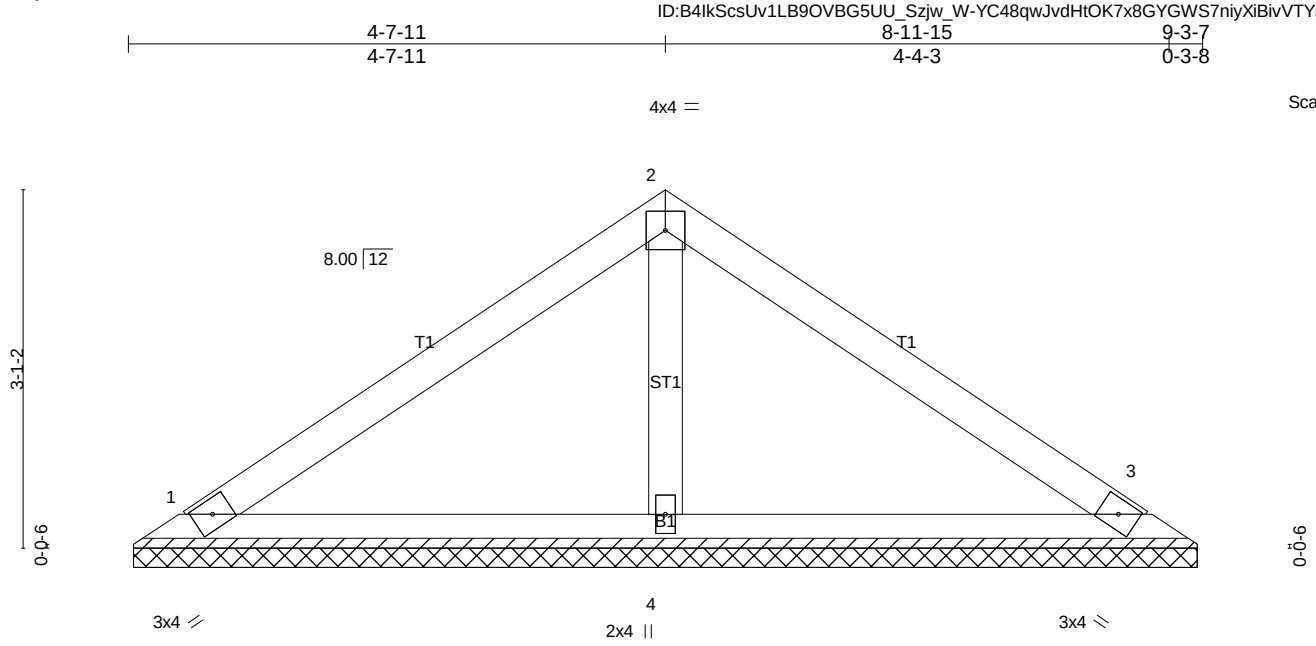

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=9-2-5 (min. 0-1-8), 3=9-2-5 (min. 0-1-8), 4=9-2-5 (min. 0-1-8)
Max Horz 1=-55(LC 10)
Max Uplift1=-9(LC 12), 3=-15(LC 13)
Max Grav 1=165(LC 1), 3=165(LC 1), 4=334(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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	V8	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:28 2021 Page 1
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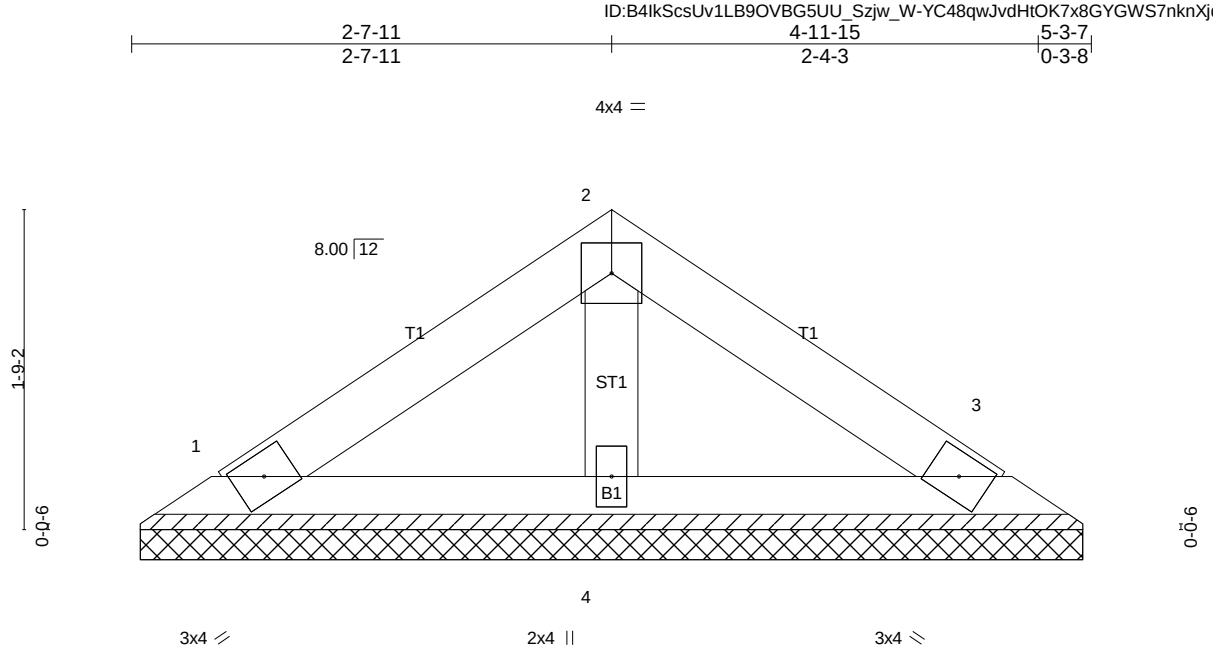


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=5-2-5 (min. 0-1-8), 3=5-2-5 (min. 0-1-8), 4=5-2-5 (min. 0-1-8)
Max Horz 1=29(LC 11)
Max Uplift1=-8(LC 12), 3=-11(LC 13)
Max Grav 1=94(LC 1), 3=94(LC 1), 4=157(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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

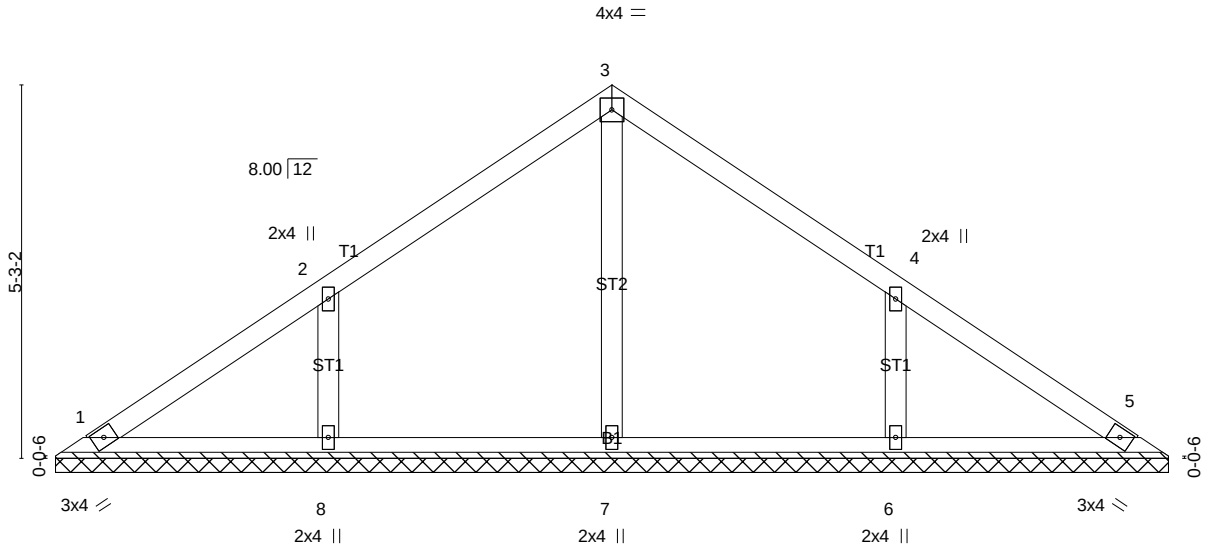
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VA1	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:29 2021 Page 1
ID:B4lkScsUv1LB9OVBG5UU_Szjw_W-0OeW1GJXOb?FyHWLqGnl_KKtBw27RL8cnVfMjXzjtEK

7-10-11 | 15-5-15 | 15-9-7
7-10-11 | 7-7-3 | 0-3-8

Scale = 1:32.5



0-0-9 | 15-5-15 | 15-9-7
0-0-9 | 15-5-6 | 0-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 63 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 15-8-5.
(lb) - Max Horz 1=-98(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=362(LC 19), 6=362(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-276/177, 4-6=-276/177

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 8, 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

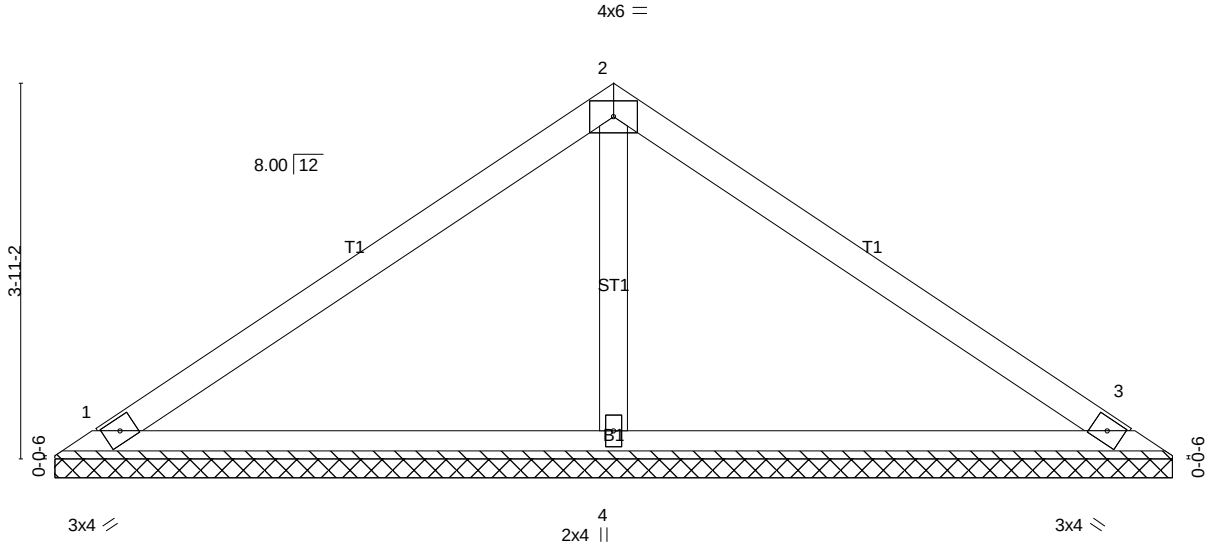
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VA2	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:30 2021 Page 1
ID:B4lkScsUv1LB9OVBG5UU_Szjw_W-VbCvFcK99u76aR5XNzI_XYt0JKMlAnWm09OvGzzjtEJ

5-10-11 | 11-5-15 | 11-9-7
5-10-11 | 5-7-3 | 0-3-8

Scale: 1/2"=1'



0-0-9 | 11-5-15 | 11-9-7
0-0-9 | 11-5-6 | 0-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=11-8-5 (min. 0-1-8), 3=11-8-5 (min. 0-1-8), 4=11-8-5 (min. 0-1-8)
Max Horz 1=-72(LC 10)
Max Uplift1=-12(LC 12), 3=-19(LC 13)
Max Grav 1=214(LC 1), 3=214(LC 1), 4=435(LC 1)

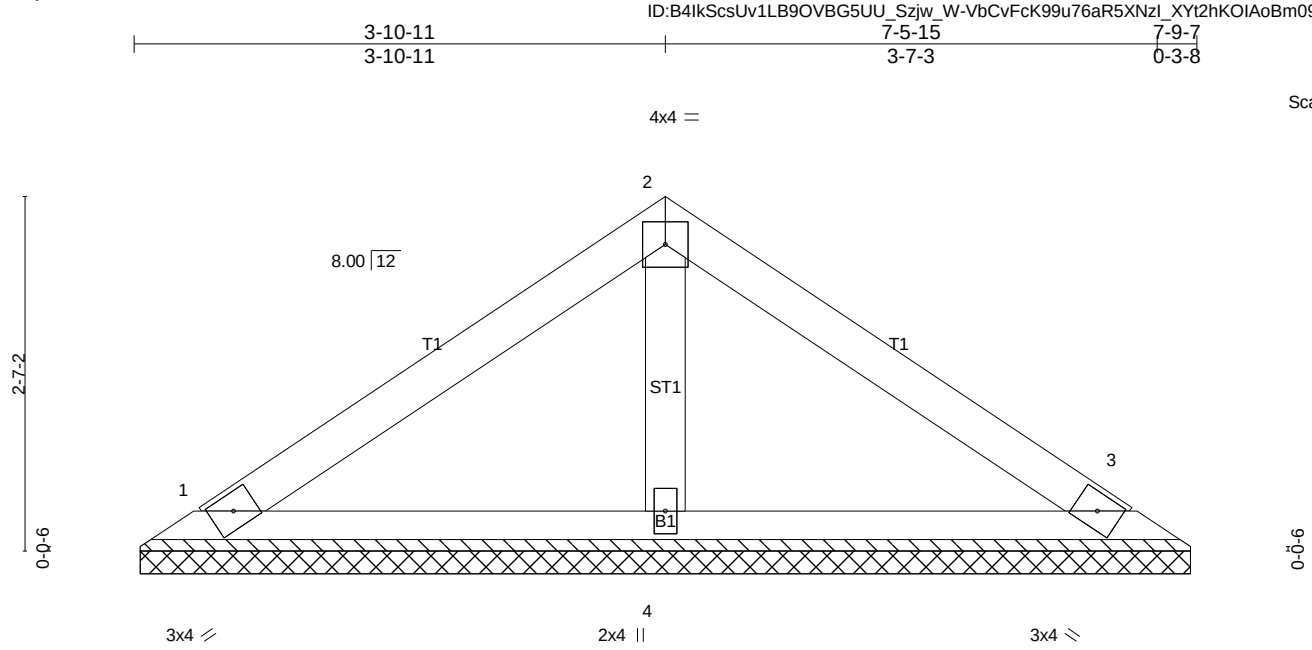
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-275/96

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VA3	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:30 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-VbCvFcK99u76aR5XNzI_XYt2hKOIAoBm09OvGzzjtEJ



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=7-8-5 (min. 0-1-8), 3=7-8-5 (min. 0-1-8), 4=7-8-5 (min. 0-1-8)
Max Horz 1=-45(LC 10)
Max Uplift1=-13(LC 12), 3=-17(LC 13)
Max Grav 1=148(LC 1), 3=148(LC 1), 4=248(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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VA4	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:31 2021 Page 1
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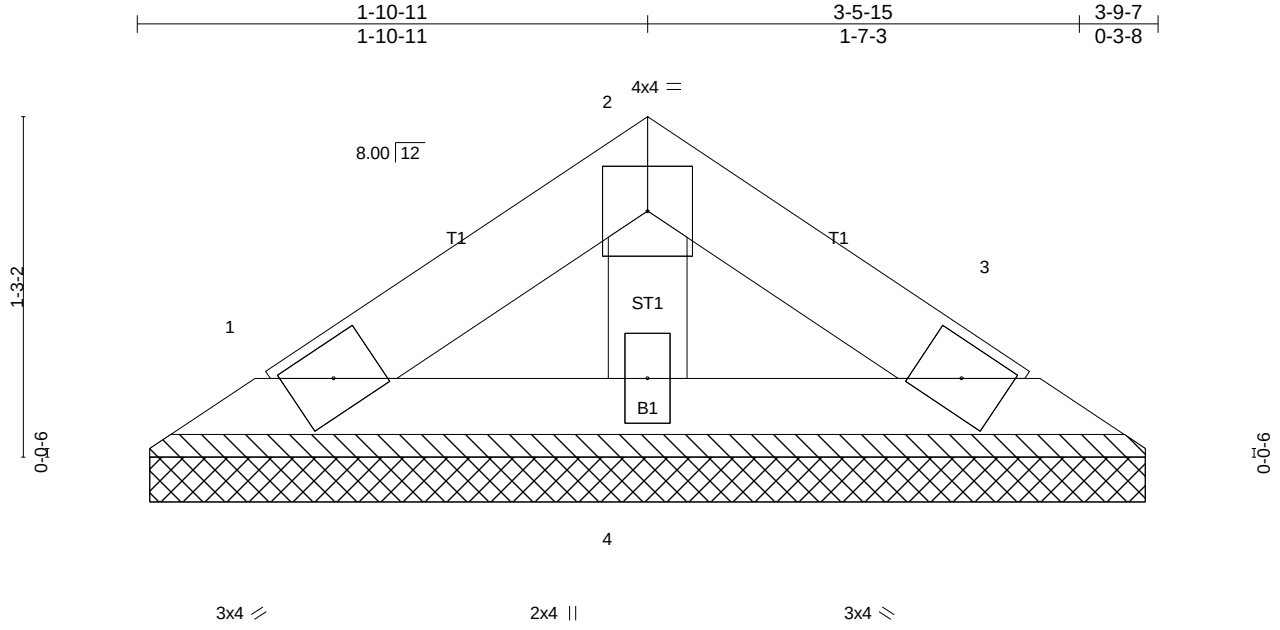

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=3-8-5 (min. 0-1-8), 3=3-8-5 (min. 0-1-8), 4=3-8-5 (min. 0-1-8)
Max Horz 1=-19(LC 8)
Max Uplift1=-5(LC 12), 3=-7(LC 13)
Max Grav 1=61(LC 1), 3=61(LC 1), 4=102(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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VB1	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:31 2021 Page 1
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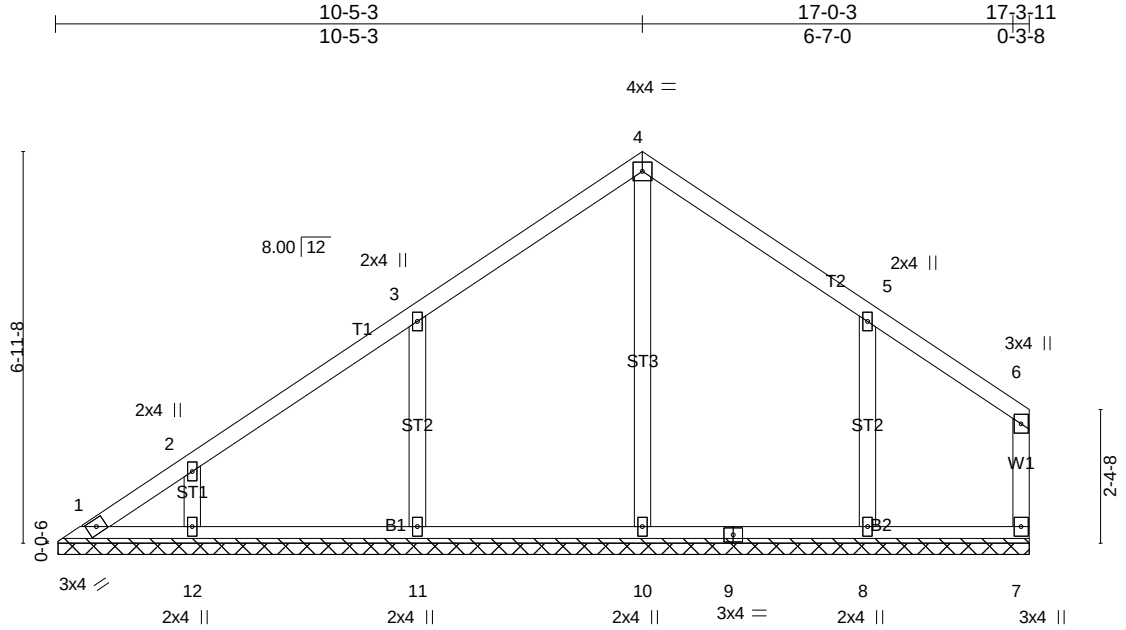

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 81 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 17-3-2.
(lb) - Max Horz 1=130(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 12, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=502(LC 19), 11=449(LC 19), 12=268(LC 1), 8=419(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-279/178, 5-8=-253/164

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 8-5-15, Interior(1) 8-5-15 to 10-5-3, Exterior(2) 10-5-3 to 17-1-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 12, 8.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VB2	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:32 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-RzJfgIMPhVNqpkFwVOKSczyO882vehb3TTt0KszjtEH

8-5-3 | 15-0-3 | 15-3-11
8-5-3 | 6-7-0 | 0-3-8

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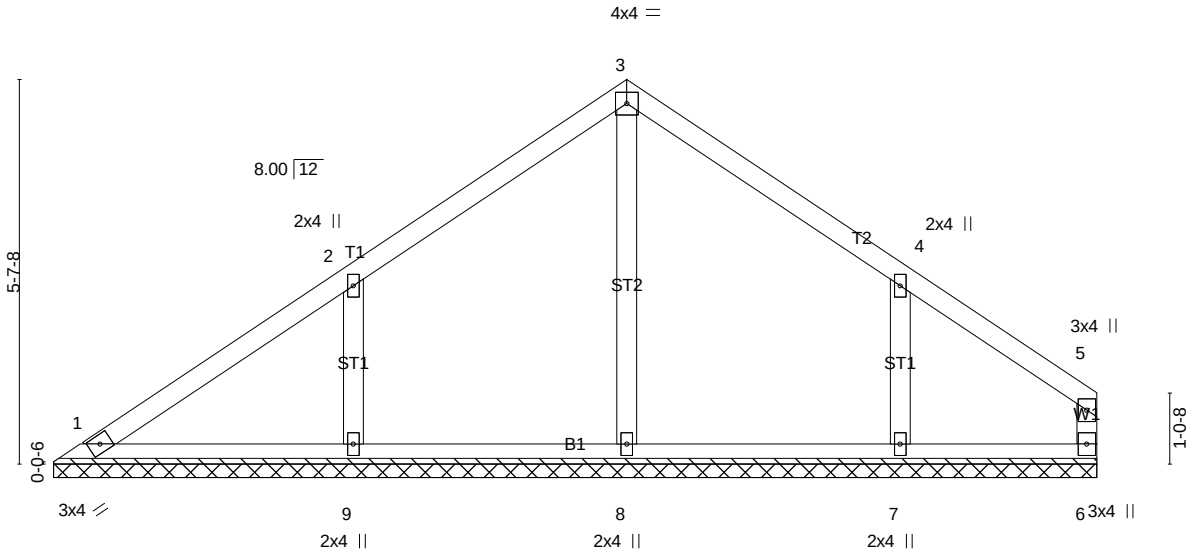

0-0-9 | 15-0-3 | 15-3-11
0-0-9 | 14-11-10 | 0-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 65 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 15-3-2.
(lb) - Max Horz 1=105(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=433(LC 19), 9=409(LC 19), 7=352(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-296/190, 4-7=-257/169

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 7.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VB3	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:33 2021 Page 1
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6-5-3 | 12-6-15 | 12-10-7
6-5-3 | 6-1-11 | 0-3-8

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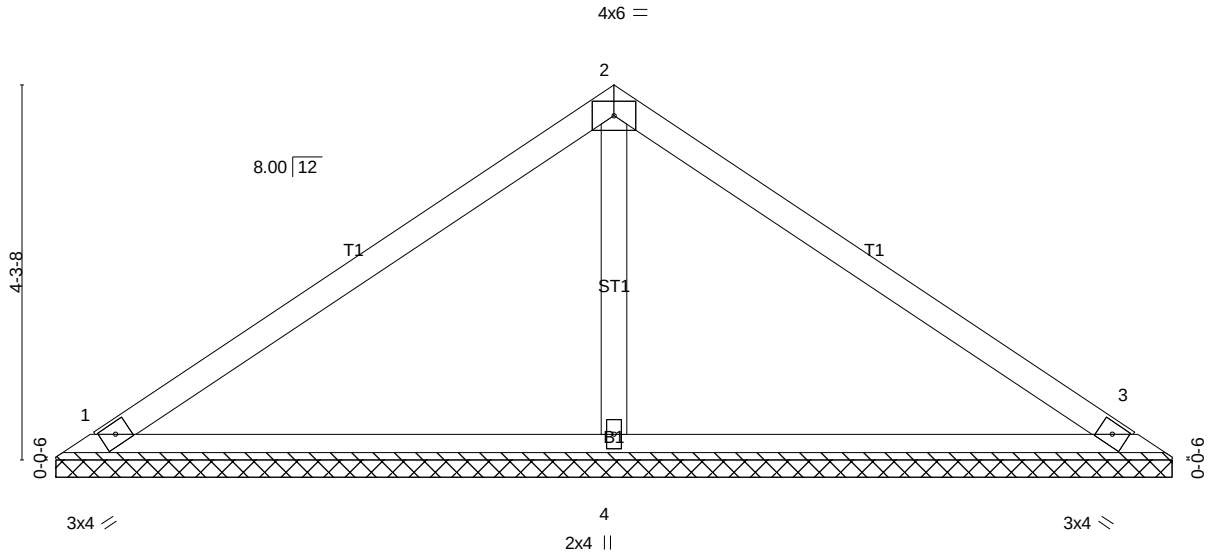

0-0-9 | 12-6-15 | 12-10-7
0-0-9 | 12-6-6 | 0-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 46 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=12-9-5 (min. 0-1-8), 3=12-9-5 (min. 0-1-8), 4=12-9-5 (min. 0-1-8)
Max Horz 1=-79(LC 10)
Max Uplift1=-13(LC 12), 3=-21(LC 13)
Max Grav 1=236(LC 1), 3=236(LC 1), 4=479(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-303/104

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VB4	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:33 2021 Page 1
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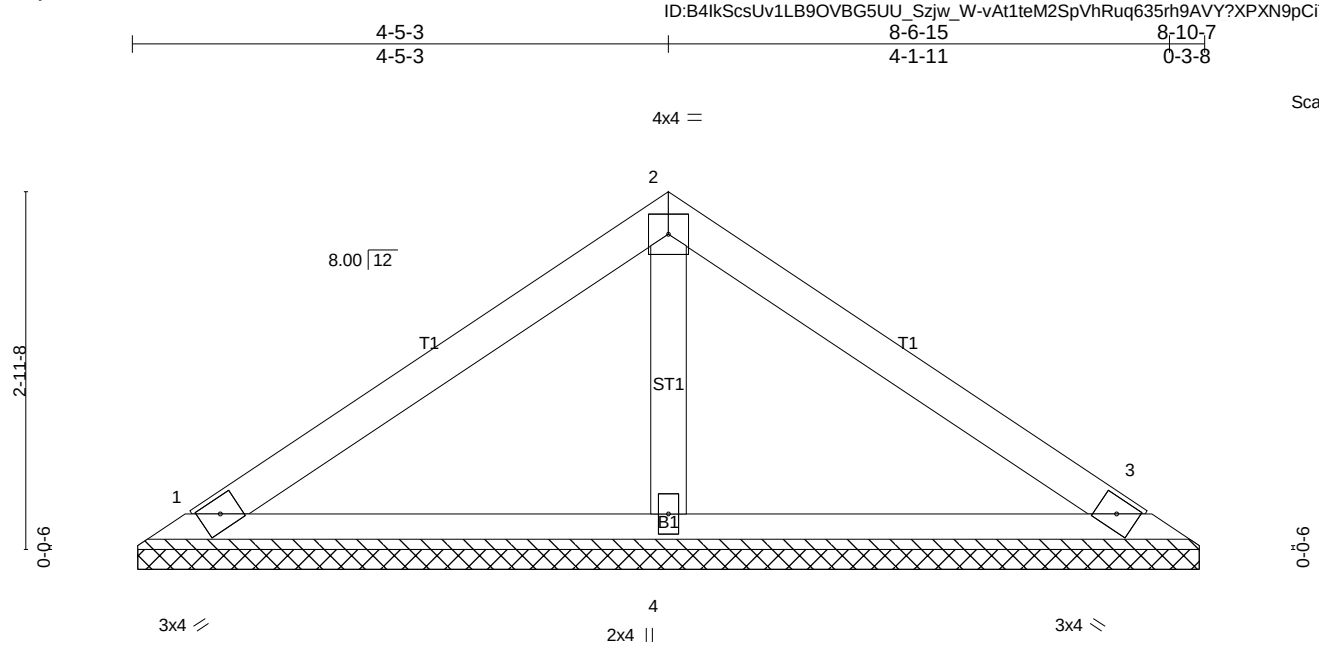

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=8-9-5 (min. 0-1-8), 3=8-9-5 (min. 0-1-8), 4=8-9-5 (min. 0-1-8)
Max Horz 1=-53(LC 10)
Max Uplift1=-15(LC 12), 3=-20(LC 13)
Max Grav 1=171(LC 1), 3=171(LC 1), 4=288(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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VB5	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:34 2021 Page 1
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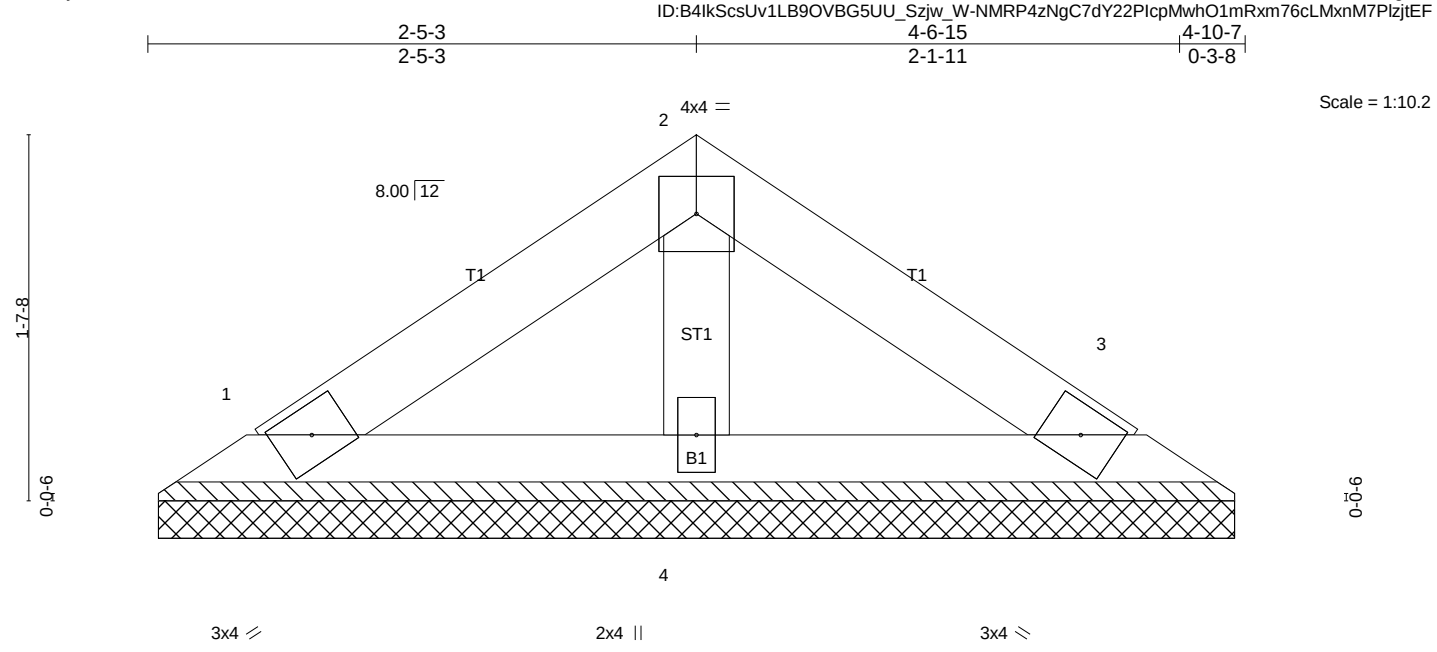

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=4-9-5 (min. 0-1-8), 3=4-9-5 (min. 0-1-8), 4=4-9-5 (min. 0-1-8)
Max Horz 1=-26(LC 10)
Max Uplift1=-7(LC 12), 3=-10(LC 13)
Max Grav 1=84(LC 1), 3=84(LC 1), 4=142(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 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VC1	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:34 2021 Page 1
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5-3-11 5-7-3
5-3-11 0-3-8

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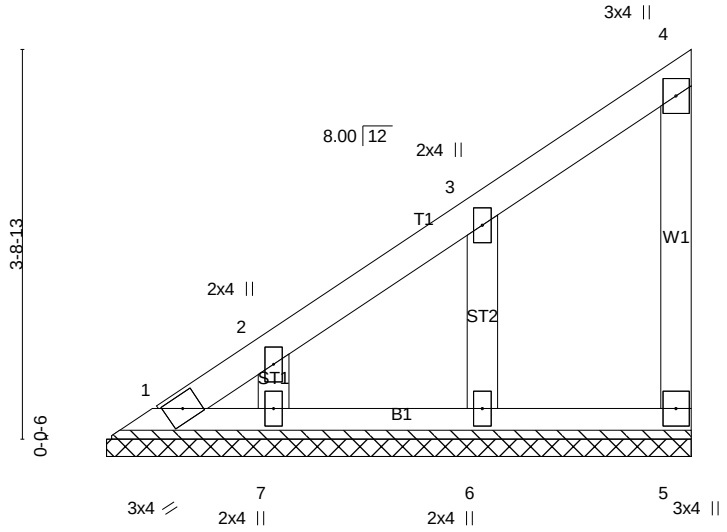

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 5-7-3.
(lb) - Max Horz 1=90(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 1, 5, 6, 7.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VC2	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:35 2021 Page 1
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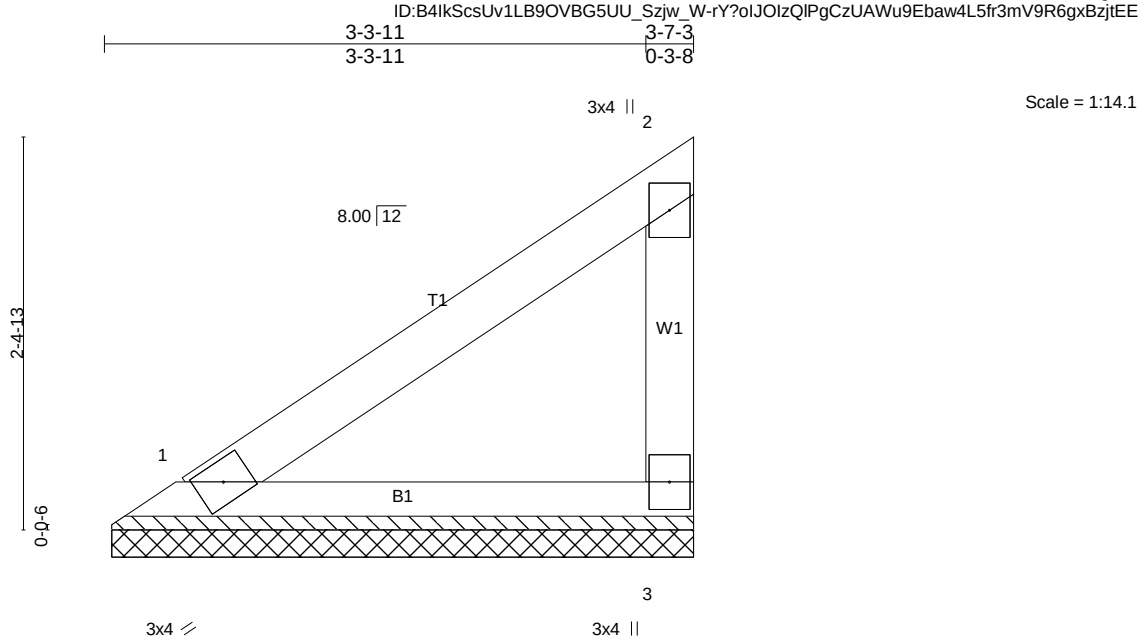

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=3-6-10 (min. 0-1-8), 3=3-6-10 (min. 0-1-8)
Max Horz 1=54(LC 12)
Max Uplift3=-23(LC 12)
Max Grav 1=118(LC 1), 3=123(LC 19)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 3.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	VC3	Valley	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:35 2021 Page 1
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1-3-11 | 1-7-3
1-3-11 | 0-3-8

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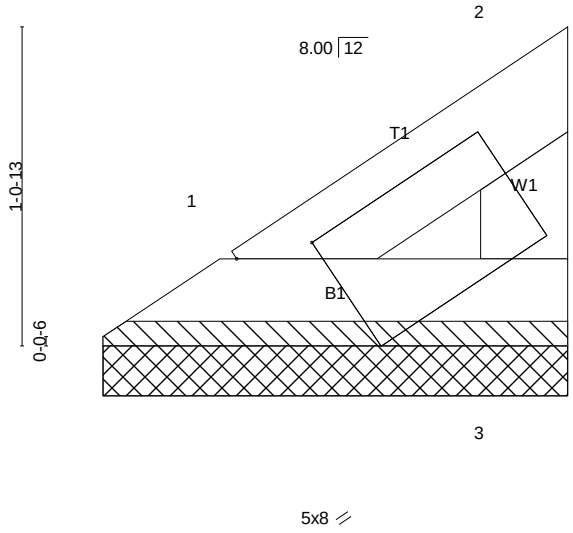

Plate Offsets (X,Y)-- [1:0-2-6,0-1-9], [1:0-2-14,0-1-2], [2:0-2-2,0-0-0], [3:0-1-7,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 5 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 1=1-6-10 (min. 0-1-8), 3=1-6-10 (min. 0-1-8)
Max Horz 1=18(LC 12)
Max Uplift3=-7(LC 12)
Max Grav 1=38(LC 1), 3=40(LC 19)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
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 30.0psf 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) 3.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	X1	Jack-Open	21	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:36 2021 Page 1
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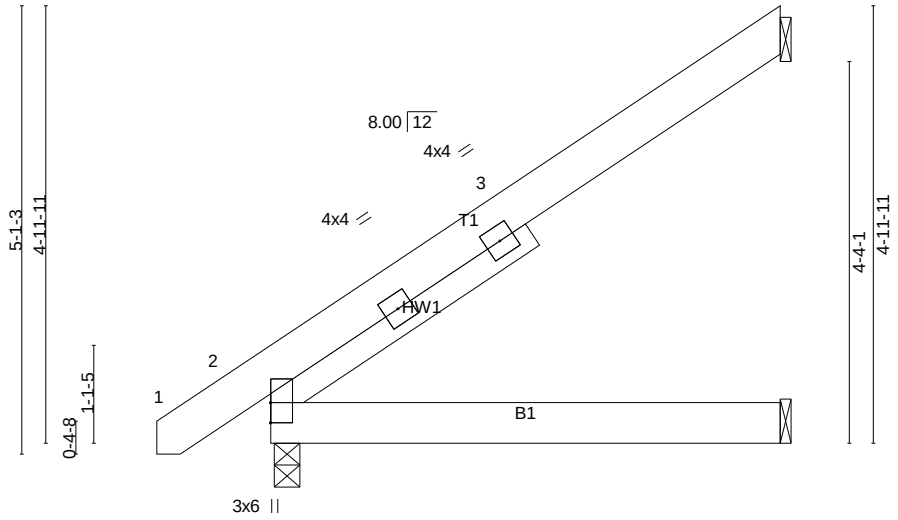

5-9-8
5-9-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.03	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 39 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
SLIDER Left 2x4 SP No.2 -t 3-6-7

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8 (min. 0-1-8), 5=Mechanical
Max Horz 2=124(LC 12)
Max Uplift4=-88(LC 12)
Max Grav 4=178(LC 19), 2=306(LC 1), 5=115(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	X1GE	Jack-Open Supported Gable	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:37 2021 Page 1
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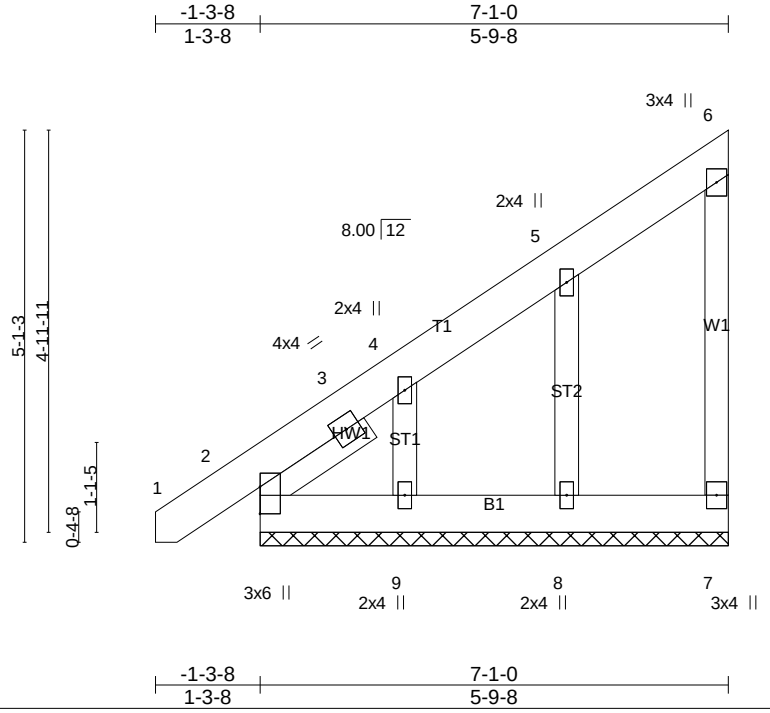

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 48 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -t 1-7-3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-9-8.
(lb) - Max Horz 2=122(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 9
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone;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) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
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 30.0psf 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) 7, 8, 9.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	X1GR	Jack-Open Girder	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:37 2021 Page 1
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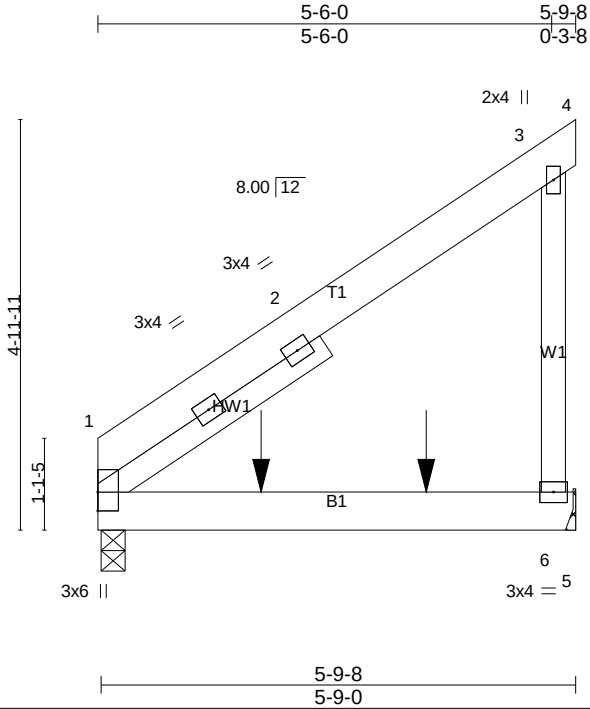


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.06	1-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.13	1-6	>497	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	-0.01	1-6	>999	240	Weight: 82 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-3-7

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8 (min. 0-1-8), 6=Mechanical
Max Horz 1=120(LC 8)
Max Grav 1=1003(LC 1), 6=1149(LC 1)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 850 lb down at 1-11-12, and 850 lb down at 3-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-850(B) 8=-850(B)

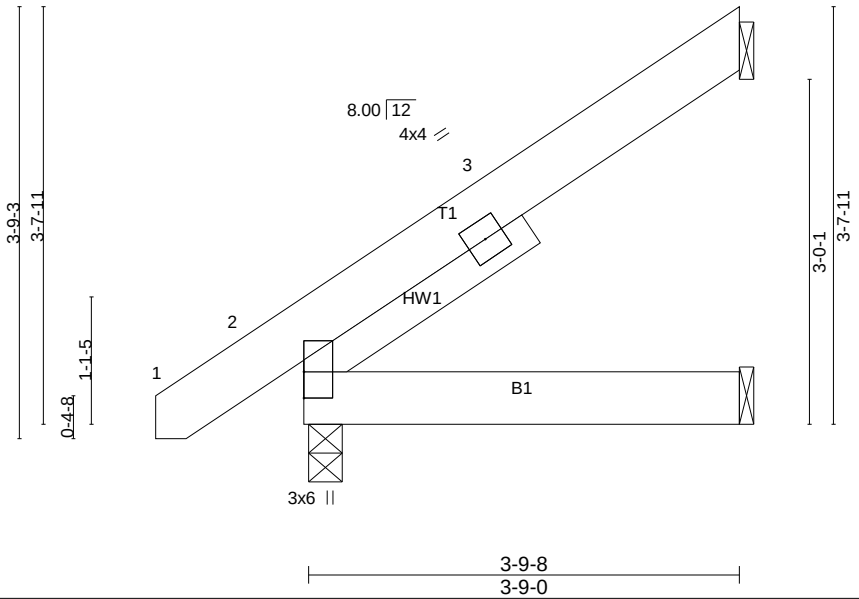
Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	X2	Jack-Open	14	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:38 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-G7hwwLQAGL7_Xfi3rfRssECQlY7j2QVxsPKKYWzjtEB

-1-3-8 3-6-0 3-9-8
1-3-8 3-6-0 0-3-8

Scale = 1:20.1



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.01	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
SLIDER Left 2x4 SP No.2 -t 2-4-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8 (min. 0-1-8), 5=Mechanical
Max Horz 2=87(LC 12)
Max Uplift 4=-61(LC 12)
Max Grav 4=112(LC 19), 2=230(LC 1), 5=75(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

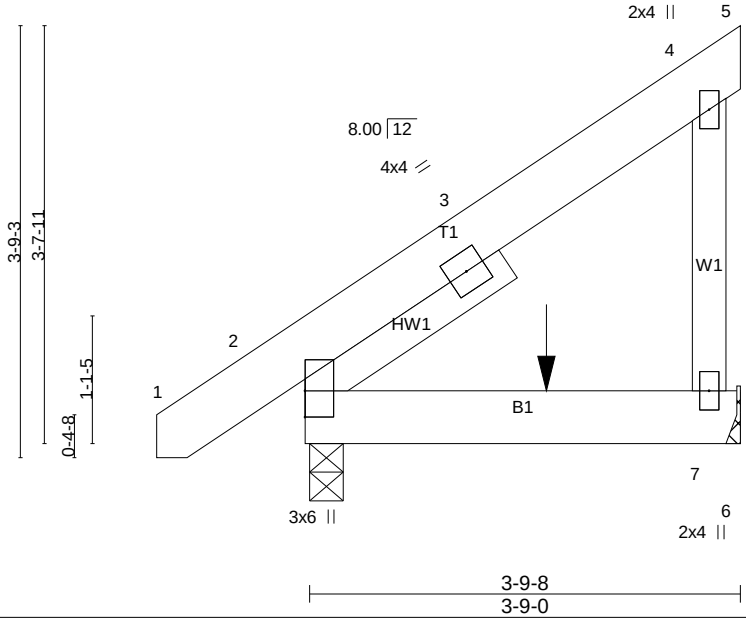
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	X2GR	Jack-Open Girder	1	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:39 2021 Page 1
ID:B4lkScsUv1LB9OVBG5UU_Szjw_W-kJEI8hRo1fFr9pHGPMy5ORlcOyR?ntf5434u4yzjtEA

-1-3-8 / 1-3-8 — 3-6-0 / 3-6-0 — 3-9-8 / 0-3-8

Scale = 1:20.1



3-9-8 / 3-9-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.01	2-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	2-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	-0.00	2	>999	240	Weight: 61 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 2-1-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8 (min. 0-1-8), 7=Mechanical
Max Horz 2=87(LC 8)
Max Grav 2=401(LC 1), 7=407(LC 1)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf 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) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 447 lb down at 2-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-447(B)

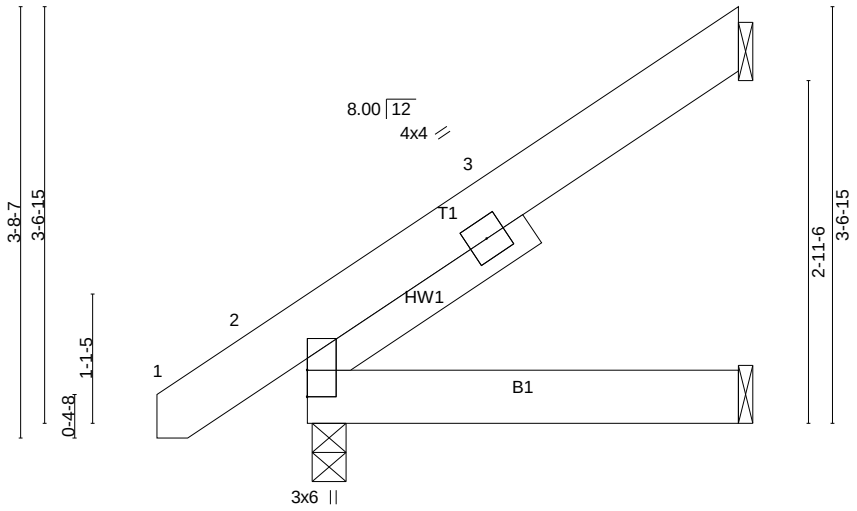
Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	Y1	Jack-Open	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:39 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-kJEI8hRo1fFr9pHGPMy5ORlbZyT?ntl5434u4yzjtEA

-1-3-8 / 1-3-8 | 3-4-15 / 3-4-15 | 3-8-7 / 0-3-8

Scale = 1:19.8



3-8-7 / 3-7-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
SLIDER Left 2x4 SP No.2 -t 2-3-6

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8 (min. 0-1-8), 5=Mechanical
Max Horz 2=86(LC 12)
Max Uplift 4=-60(LC 12)
Max Grav 4=109(LC 19), 2=226(LC 1), 5=73(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

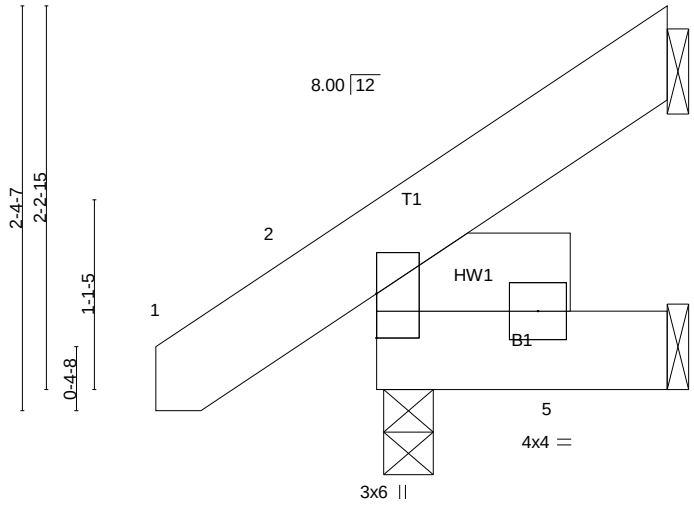
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	Y1A	Jack-Open	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:40 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-CWohL1SRozNimzsSz3TKxfHnDMprWK?EJjpRcOzjtE9

-1-3-8 / 1-3-8 | 1-4-15 / 1-4-15 | 1-8-7 / 0-3-8

Scale = 1:13.5



1-8-7 / 1-7-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
SLIDER Left 2x6 SP No.1 -t 1-1-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8 (min. 0-1-8), 4=Mechanical
Max Horz 2=51(LC 12)
Max Uplift3=-33(LC 12)
Max Grav 3=36(LC 19), 2=161(LC 1), 4=34(LC 3)

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

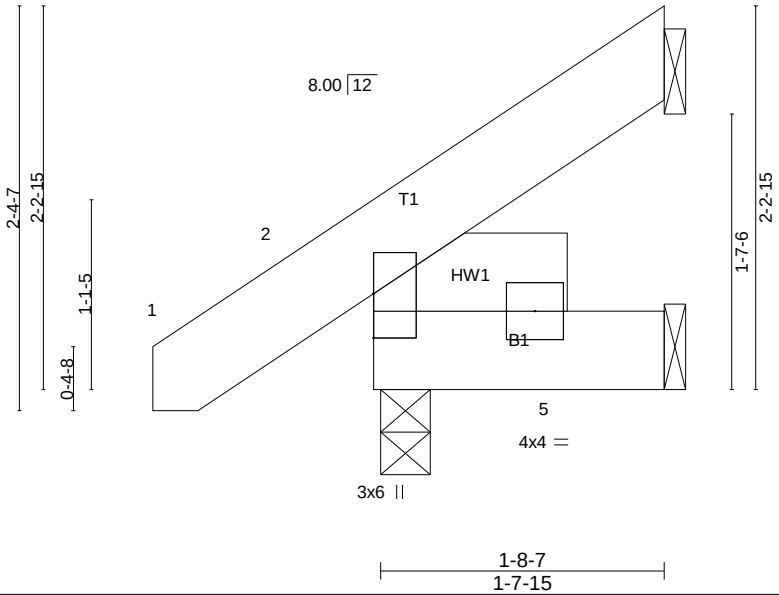
NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	Y2	Jack-Open	4	1	Job Reference (optional)

-1-3-8 / 1-3-8 | 1-4-15 / 1-4-15 | 1-8-7 / 0-3-8

Scale = 1:13.5



1-8-7 / 1-7-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
SLIDER Left 2x6 SP No.1 -t 1-1-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8 (min. 0-1-8), 4=Mechanical
Max Horz 2=51(LC 12)
Max Uplift3=-33(LC 12)
Max Grav 3=36(LC 19), 2=161(LC 1), 4=34(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

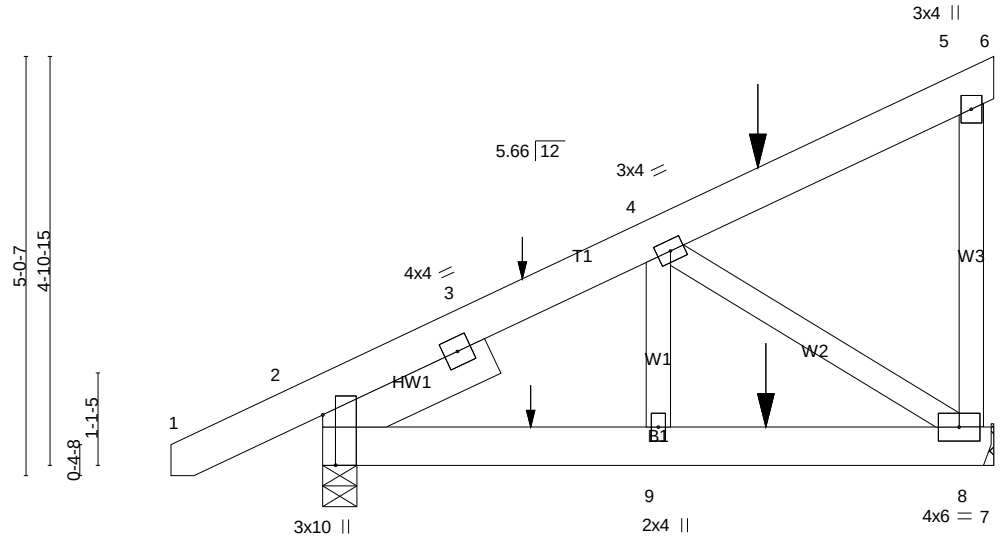
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	Z1	Diagonal Hip Girder	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:41 2021 Page 1
ID:B4IkScsUv1LB9OVBG5UU_Szjw_W-giM3YNT3ZGVYO7ReXn_ZUsqx5m83FmSOYMZ?8rzjtE8

-1-9-15 | 4-0-6 | 7-9-5 | 8-0-13
1-9-15 | 4-0-6 | 3-8-14 | 0-3-8

Scale = 1:27.7



4-0-6 | 7-9-5 | 8-0-13
4-0-6 | 3-8-14 | 0-3-8

Plate Offsets (X,Y)-- [2:0-7-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	9	>999	240	Weight: 65 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -t 2-2-8

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) 8=Mechanical, 2=0-4-15 (min. 0-1-8)
Max Horz 2=123(LC 8)
Max Uplift 8=-90(LC 8), 2=-27(LC 4)
Max Grav 8=342(LC 29), 2=437(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-447/32
BOT CHORD 2-9=-87/292, 8-9=-87/292
WEBS 4-8=-352/105

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 37 lb up at 2-5-15, 64 lb down and 37 lb up at 2-5-15, and 94 lb down and 78 lb up at 5-3-15, and 94 lb down and 78 lb up at 5-3-15 on top chord, and at 2-5-15, at 2-5-15, and 19 lb down at 5-3-15, and 19 lb down at 5-3-15 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=1.15, Plate Increase=1.15

Continued on page 2

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 11=-27(F=-13, B=-13) 13=-16(F=-8, B=-8)

Job	Truss	Truss Type	Qty	Ply	RAY & CHRISTINE HYMBAUGH
J0221-1067	Z2	Diagonal Hip Girder	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Bob Lewis — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Thu Feb 18 15:45:42 2021 Page 1
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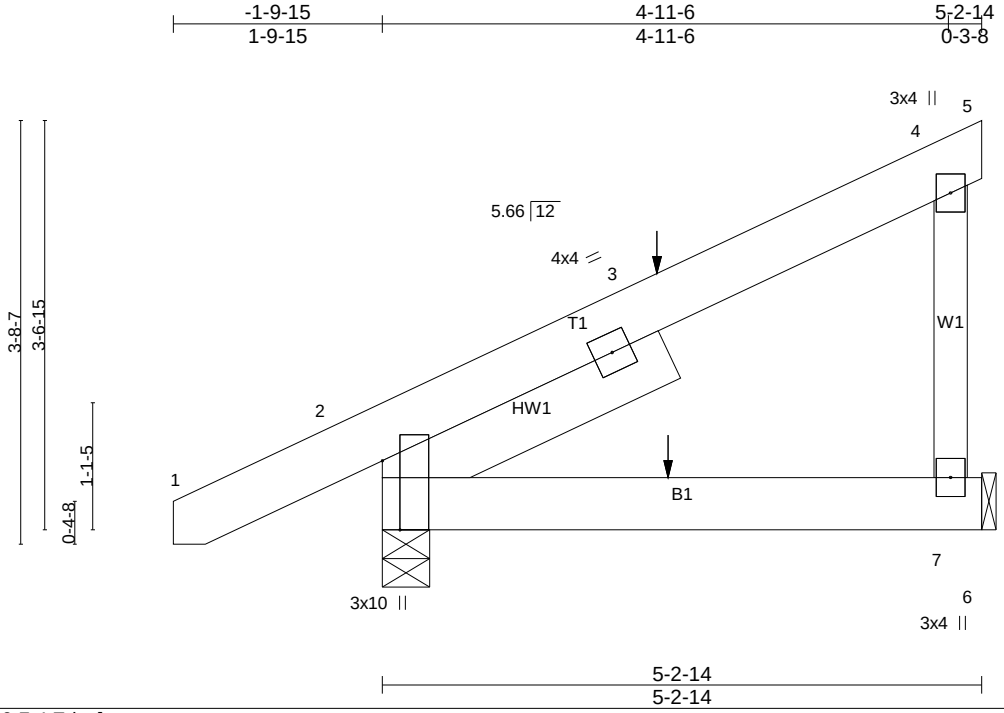

Plate Offsets (X,Y)-- [2:0-7-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	2-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	2-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 41 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -t 2-8-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-4-15 (min. 0-1-8)
Max Horz 2=87(LC 8)
Max Uplift 7=-32(LC 8), 2=-8(LC 4)
Max Grav 7=193(LC 1), 2=317(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 37 lb up at 2-5-15, and 64 lb down and 37 lb up at 2-5-15 on top chord, and at 2-5-15, and at 2-5-15 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=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 2-6=-20