DO NOT CUT, DRILL, NOTCH, OR OTHERWISE DAMAGE TRUSSES. Contact your BFS Representative for assistance PRIOR TO modifying any truss. **Espanol** - *(NO CORTE, PERFORE, HAGA MUESCAS O DAÑE DE CUALQUIER OTRA MANERA LAS TRUSSES (CERCHAS DE MADERA). Contacte a su representante de BFS para asistencia ANTES de realizar cualquier modification.)*

1. This Truss Placement Diagram is intended to serve as a guide for truss installation. This Diagram has been prepared by a Truss Technician and is not an engineered drawing.
2. The responsibilities of the Owner, Building Designer, Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 National Standard.
3. The wood components shown on this diagram are to be used in dry service (moisture content<19%) and non-toxic environmental applications. The metal plates and hangers are galvanized to the G60 Standard unless noted otherwise.
4. Refer to the Truss Design Drawings for specific information about each individual truss design.
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7. In some cases, field framing may be required to achieve the final appearance shown on the Construction Documents.
8. Field framing, including valley rafters, installed over roof trusses shall have a knee brace from the rafter to the truss top chord at intervals of 48" on center (O.C.) or less. Stagger knee braces from adjacent rafters such that the load is distributed uniformly over multiple truss locations and not concentrated at one location or along one truss.
9. Truss Top Chords shall be fully sheathed or have lateral bracing (purlins) spaced at 24" O.C. or less. Truss Bottom Chord Bracing shall not exceed the maximum shown on the Truss Design Drawing. Field framed bottom chord floor or ceiling attachments shall be spaced at 24" O.C. or less. Proper Bracing prevents buckling of individual truss members due to design loads.
10. This Placement Diagram is based upon the supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation design, structural member sizing, load transfer, bearing conditions, and the structure's compliance with the applicable building code are the responsibility of the Owner, Building Designer, and Contractor.
11. If Piggyback Trusses are included in this project, refer to the Mitek Piggyback Connection Detail applicable for the project details and wind load category.
12. The Contractor shall follow the SBCA TTB Partition Separation Prevention and Solutions for truss attachment to non-load bearing walls and carefully complete these details to avoid gypsum wall board related issues.

WARNING:
TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH. **Espanol** - *(TRUSSES (CERCHAS) DEBERAN TENER UN SOPORTE DURANTE LA INSTALACION. NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE.)*

1. Trusses shall be installed in a safe manner meeting all code, local, OSHA, TPI, and BCSI Specifications. Failure to follow these specifications may result in injury or death.
2. Buildings under construction are vulnerable to high winds and present a possible safety hazard. The Contractor is responsible for recognizing adverse weather conditions and shall take appropriate action to prevent injury or death.
3. **BCSI INSTRUCTIONS SHALL BE FOLLOWED:**
BCSI-B1 = Safe Truss Handling and Installation
BCSI-B2 = Installation and Temporary Restraint
BCSI-B3 = Permanent Restraint
BCSI-B4 = Safe Construction Loading
BCSI-B5 = Truss Damage and Modification Guidelines
BCSI-B7 = Floor Truss Installation
BCSI-B8 = Toe-Nailed Connections
BCSI-B9 = Multi-Ply Girders
BCSI-B10 = Post Frame Truss Installation
BCSI-B11 = Fall Protection
4. Follow TPI Requirements for Long Span Trusses (>60').

TRUSS LAYOUT/SUBMITTAL REVIEW

- [ ] REVIEWED & FOUND TO BE IN CONFORMANCE WITH REFERENCED PLAN
- [ ] FURNISH AS CORRECTED
- [x] REVIEWED WITH CHANGES TO REFERENCED DRAWINGS
- [ ] REVISE AS NOTED & RESUBMIT

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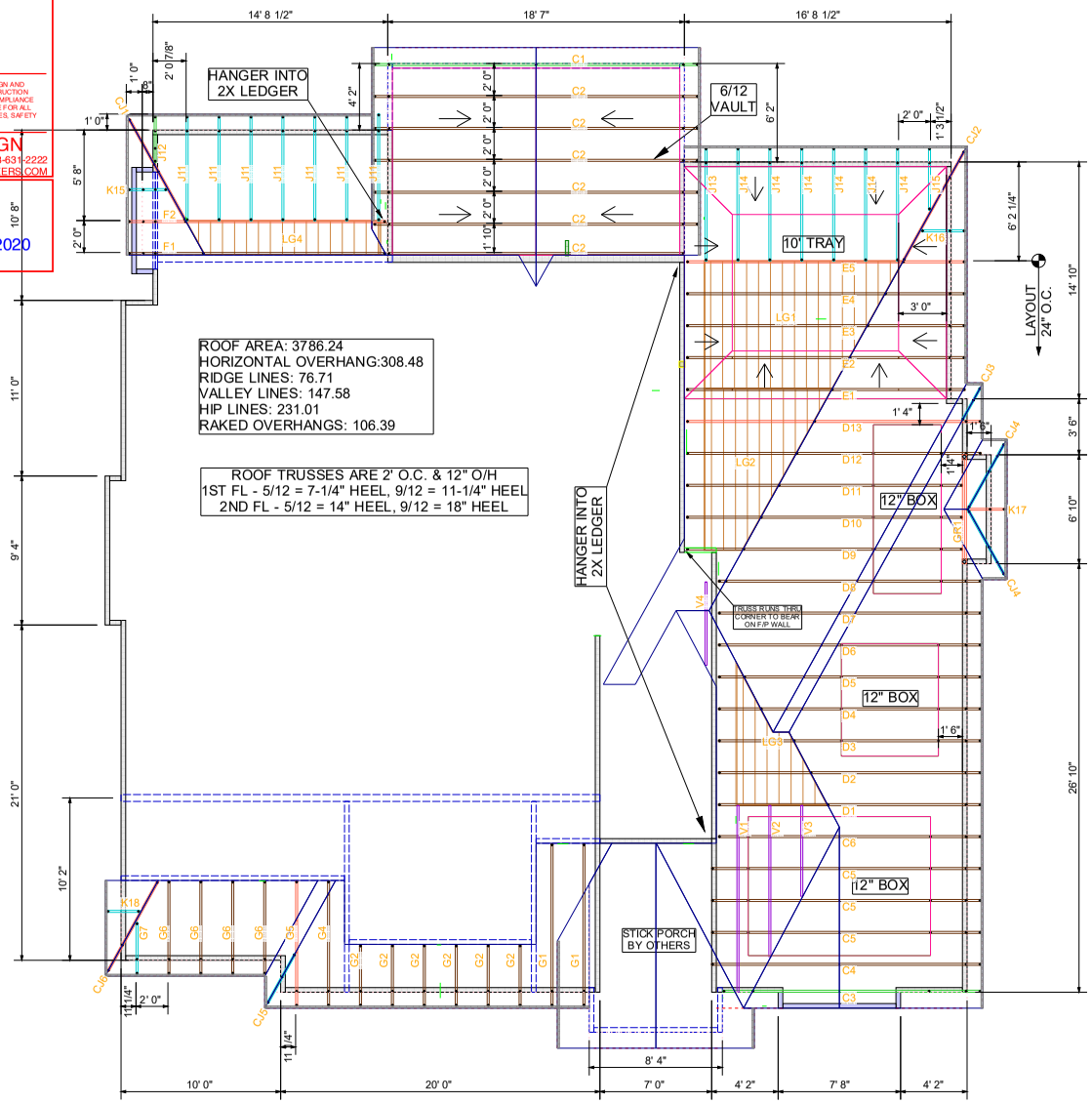
HD ENGINEERING & DESIGN
11656 W. 75TH ST.,
SHAWNEE, KS 66214
P: 913-631-2222
WWW.HDENGINEERS.COM

SIGNED:

DATE: 09/30/2020

NO TRUSS SEALS

Lower Roof Layout



DESIGN LOADS:

25 PSF TCLL
10 PSF TCDL
10 PSF BCDL

PROPER HANDLING OF TRUSSES SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CREW AT THE JOBSITE. TEMPORARY AND PERMANENT BRACING FOR HOLDING TRUSSES PLUMB AND FOR RESISTING LATERAL FORCES SHALL BE DESIGNED AND INSTALLED BY OTHERS. NO LOADS OTHER THAN THE INTALLERS ARE TO BE APPLIED TO TRUSSES UNTIL AFTER ALL BRACING AND FASTENING IS COMPLETED. AT NO TIME SHALL CONCENTRATED LOADS GREATER THAN DESIGN LOADS BE APPLIED TO THE TRUSSES. ALL TRUSSES ARE REPRESENTED AS SINGLE PLY. TRUSSES ARE CAPABLE OF BEING MOVED (+/-) 4in. EITHER DIRECTION.

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Builders FirstSource

JOB No.	2472503
DESCRIPTION	Roesen- Winterset Valley Lot 1470
JOB ADDRESS	132 NW Mackenzie Dr.
CITY	Lee's Summit, MO
DESIGNER	Scott Clevenger
DATE	9/11/2020

ROOF
TRUSS LAYOUT

PAGE 1 of 1

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/22/2020

Details subject to change without notice
Date issued
PROJECT ID
LAYOUT
SCALE
EXT. WALL
INT. WALL

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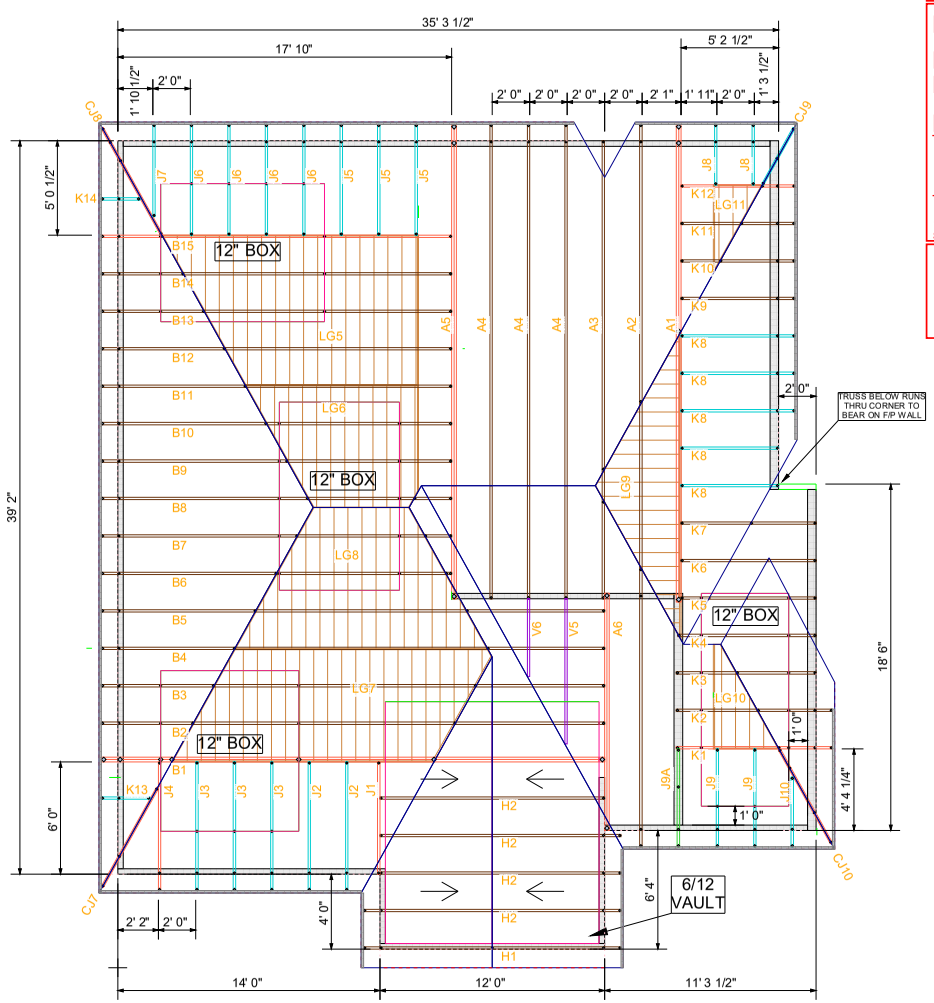
4. Follow TPI Requirements for Long Span Trusses (>60').

Upper Roof Layout



ROOF AREA: 3786.24
HORIZONTAL OVERHANG:308.48
RIDGE LINES: 76.71
VALLEY LINES: 147.58
HIP LINES: 231.01
RAKED OVERHANGS: 106.39

ROOF TRUSSES ARE 2' O.C. & 12" O/H
1ST FL - 5/12 = 7-1/4" HEEL, 9/12 = 11-1/4" HEEL
2ND FL - 5/12 = 14" HEEL, 9/12 = 18" HEEL

TRUSS LAYOUT/SUBMITTAL REVIEW

- ☐ REVIEWED & FOUND TO BE IN CONFORMANCE WITH REFERENCED PLAN
- ☐ FURNISH AS CORRECTED
- ☒ REVIEWED WITH CHANGES TO REFERENCED DRAWINGS
- ☐ REVISE AS NOTED & RESUBMIT

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HD ENGINEERING & DESIGN
11656 W. 75TH ST.,
SHAWNEE, KS 66214
P: 913-631-2222
WWW.HDENGINEERS.COM

SIGNED:
09/30/2020
DATE:

NO TRUSS SEALS

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/22/2020

DESIGN	CAD
JOB	SCL
TOP	SCL
10 PSF	BCD
10 PSF	BCD

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ROOF
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