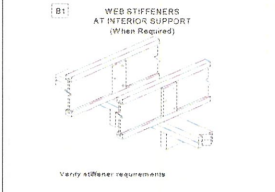


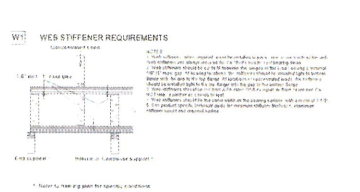
- TO USE:**
- Select the required series and depth.
 - Determine the support condition for the nearest bearing end support or interior support (including cantilever-end supports).
 - Select the row corresponding to the required Clear Span. For spans between two joists, use the next largest value.
 - Select the column corresponding to the required Hole Diameter. For diameters between two holes, use the next largest value.
 - The intersection of the Clear Span row and Hole Diameter column gives the minimum distance from the inside face of beam to the center of a circular hole.
 - Double check the distance to the other support, using the appropriate support condition.

Depth	Clear Span (ft)	Distance from End Support					Distance from Interior or Cantilever-End Support					
		2"	4"	6"	8"	10"	2"	4"	6"	8"	10"	12"
14"	14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	-
	18'	1'-0"	1'-0"	1'-0"	1'-0"	4'-6"	1'-8"	2'-10"	3'-11"	5'-1"	6'-3"	-
	22'	1'-5"	2'-9"	4'-1"	5'-6"	7'-0"	4'-2"	5'-4"	6'-5"	7'-7"	8'-9"	-
	26'	2'-0"	3'-4"	4'-8"	6'-2"	7'-6"	5'-0"	6'-2"	7'-3"	8'-5"	9'-7"	-
	30'	2'-5"	3'-9"	5'-3"	6'-7"	8'-1"	6'-5"	7'-7"	8'-8"	10'-0"	11'-2"	-
16"	16'	1'-0"	1'-0"	1'-4"	2'-5"	3'-7"	1'-6"	2'-8"	3'-9"	4'-6"	5'-4"	6'-6"
	22'	1'-4"	2'-5"	3'-6"	4'-9"	6'-1"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"
	26'	2'-0"	3'-4"	4'-8"	6'-2"	7'-6"	5'-6"	6'-6"	7'-6"	8'-6"	9'-6"	10'-6"
	30'	2'-5"	3'-9"	5'-3"	6'-7"	8'-1"	6'-5"	7'-5"	8'-5"	9'-5"	10'-5"	11'-5"
	36'	3'-0"	4'-4"	5'-8"	7'-2"	8'-6"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"



WEB STIFFENER REQUIREMENTS

Series	Depth	Minimum Thickness	Maximum Height	Nail Size*	Nail Qty
LPI 1B	9'-1/2"	23/32"	6'-3/8"	8d (2-1/2")	3
LPI 20Plus	14"	23/32"	8'-3/4"	8d (2-1/2")	3
LPI 32Plus	16"	23/32"	10'-7/8"	8d (2-1/2")	3



2nd Flr Joist (Flash)

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
J1	J1 83Flas	2.5	16	1	10	43'-0"	
J4	J1 32Flas	2.5	16	1	13	23'-0"	
J8	J1 32Flas	2.5	16	1	14	16'-0"	
J9	J1 32Flas	2.5	16	1	3	16'-0"	

LVL 1.5I (Flash)

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
F15	F1 3.1 VL 2900B-2.0E	1.75	16	1	4	4	26'-0"
F16	F1 3.1 VL 2900B-2.0E	1.75	16	1	2	2	8'-0"

LVL 1.5I (Dropped)

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
D101	F1 3.1 VL 1.55I	3.5	9.25	2	2	17'-0"	
D102	F1 3.1 VL 1.55I	3.5	9.25	1	1	5'-0"	
D103	F1 3.1 VL 1.55I	3.5	9.25	1	1	6'-0"	
D104	F1 3.1 VL 1.55I	3.5	9.25	1	1	6'-0"	
D105	F1 3.1 VL 1.55I	3.5	11.875	1	1	20'-0"	

Beam by Others (Dropped)

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
D104	[LVL 1.5I]	3.5	9.25	1	2	2	13'-0"
D105	[LVL 1.5I]	3.5	9.25	1	2	2	13'-0"

Rim Board

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
R1	F1 APA Rated OSB 1 1/2 X 16	1.125	16	1	15	13'-0"	

Blocking

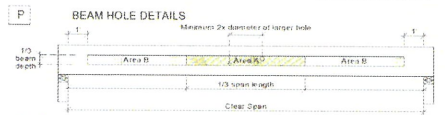
Label	Description	Width	Depth	Qty	Pieces	Length
B1	F1 32 Plus	2.5	16	1	7	34'-0"

Hanger

Label	Pcs	Description	Skew	Slope	Beam Girder Fasteners	Supported Member Fasteners
H1	3	[US2, 56 16 (Max)]			16 16d	2 10d x 1 1/2"
H2	15	[US2, 56 16 (Min)]			14 16d	

- DESIGN ASSUMPTIONS:**
- The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 100 psf (e.g., 40 psf live load and 75 psf dead load spaced 24" o.c.).
 - Hole locations are measured from the inside face of bearing to the center of a circular hole, from the interior support.
 - Clear spans have not been verified for these joists and is shown for informational purposes only. Verify that the joist selected will work for the span and loading conditions needed before checking hole locations.
 - The maximum hole depths for circular holes in the joist depth less 4", except the maximum hole depths for the 5-1/2" LPI joists, and 8" for the 7-1/2" LPI joists.
 - Holes cannot be located in the span where designated "X" without further analysis by a design professional.

- NOTES:**
- Holes may be placed anywhere within the depth of the joist. A minimum 1/4" clear distance is required between the hole and the flange.
 - Round holes up to 1 1/2" diameter may be placed anywhere in the web.
 - Reinforced "tee" holes may be neglected when bearing web holes.
 - Holes larger than 1 1/2" are not permitted in cantilevers without special engineering.
 - Multiple holes shall have a clear separation along the length of the joist of at least twice the length of the larger diameter hole, or a minimum of 32" order to ensure web integrity is greater.
 - Multiple holes may be spaced closer provided they fit within the boundary of an acceptable single hole. Example: two 1" round holes spaced closer to the joist length may be spaced 2" apart (see details) provided that a 3" high by 8" long rectangle or an 8" diameter round hole are acceptable for the joist depth at that location and completely encloses the holes.
 - For conditions not covered in this table, use LPI design software or contact your local LPI Sales/Support Engineer/Wood Products Distributor for more information.



- HOLE SIZES:**
- These guidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables and designed with LPI design software. They do not apply to joists with other loading conditions, such as beams with concentrated loads.
 - Round holes can be placed anywhere in Area A, provided that no more than two holes are cut, with the maximum spacing described in the table. The maximum hole size is 1 1/2" for depths up to 9'-10", and 2" for depths greater than 9'-10".
 - 1 1/2" x 1 1/2" flat holes in cantilevers without prior approval from the project designer.
 - Other hole sizes and configurations may be possible with further engineering analysis. For more information, contact your LPI Sales/Support Engineer/Wood Products Distributor.
 - Holes in floor joists may be drilled for "long run" to accommodate wiring and other services. These holes shall be at least 12" apart. The holes shall be located in the middle third of the depth, or a minimum of 3" from the bottom and top of the joist. For bearing conditions, holes shall be 1/4" outside hole of end depth.
 - Printed planing holes from outside.

Important Notes: WARNING! Failure to follow proper procedures for handling, storage and installation can result in unacceptable performance, cracking, shrinkage and potential collapse.

These limitations are intended as a guide to good practice in the handling, storage, use and installation of LPI joists. LPI joists are not to be used in applications where additional provisions may be applicable. In all cases, the procedures used should be as directed by the manufacturer's requirements for the entire building.

• This is not intended as a manual for selecting products and assumes that components are installed in accordance with the manufacturer's instructions.

• Consult the LPI Bulletin LVL & LPI Joist LSI, brochures or contact your LPI Sales/Support Engineer for more information.

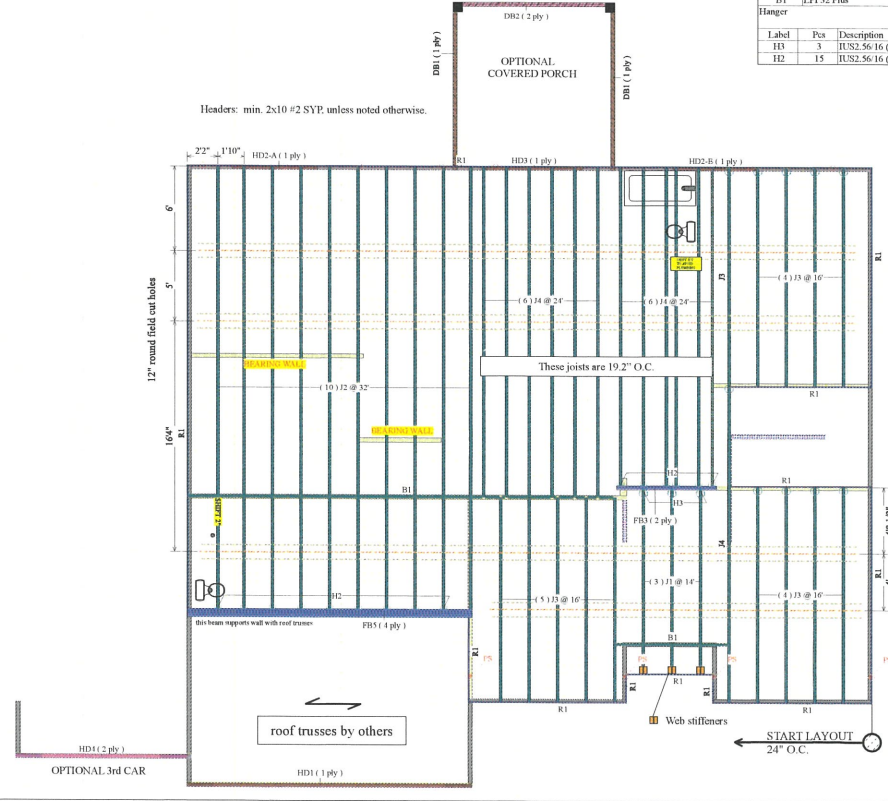
• All in-plant, blocking, connections and temporary bracing must be installed before erection and removed as directed.

• No loads other than the weight of the structure are to be imposed on the structure before its permanent installation.

• LPI joists are not to be used in applications where connections are required. All connections and fasteners shall be installed in accordance with the manufacturer's instructions.

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• LPI joists are not to be used in applications where connections are required. All connections and fasteners shall be installed in accordance with the manufacturer's instructions.



2ND FLOOR FRAMING
SCALE: 1/4" = 1'



2160 Satellite Blvd., Suite 450
Duluth, GA 30097
888-613-5078



Dealer
84 Lumber-Fayetteville #2307
620 Bell Road
Fayetteville, NC 28301
(910) 867-9185

Project
CL3145 GL-CP
Design Method
ASD (USA)
Building Code
IRC 2012

Floor
Loads
Live 40
Dead 10
Deflection Joint 40
LL Span L/J 480
TL Span L/J 240
LL Cant 2/L 360
TL Cant 2/L 360
Deflection Girder 360
LL Span L/J 360
TL Span L/J 240
LL Cant 2/L 360
TL Cant 2/L 360
Decking OSB
23/32 APA Rated OSB 1 1/2 X 16
Nailed & Glued

2nd Flr Design Method ASD (USA)
Building Code IRC 2012

Floor Loads
Live 40
Dead 10
Deflection Joint 40
LL Span L/J 480
TL Span L/J 240
LL Cant 2/L 360
TL Cant 2/L 360
Deflection Girder 360
LL Span L/J 360
TL Span L/J 240
LL Cant 2/L 360
TL Cant 2/L 360
Decking OSB
23/32 APA Rated OSB 1 1/2 X 16
Nailed & Glued

- Legend**
- Point Load Support
 - Load from Above
 - 2x4 Ext Wall
 - 2x4 Brg Wall
 - 2x4 Non-Brg Wall
 - 2x6 Non-Brg Wall
 - 2x6 Brg Wall
 - 3x5 Ext Wall
 - LPI 32Plus 16
 - LPI 32Plus 16 (Dropped)
 - LPI 32Plus 16
 - LPI 32Plus 16 (Dropped)
 - LPI 32Plus 16
 - LPI 32Plus 16 (Dropped)
 - LPI 32Plus 16
 - LPI 32Plus 16 (Dropped)

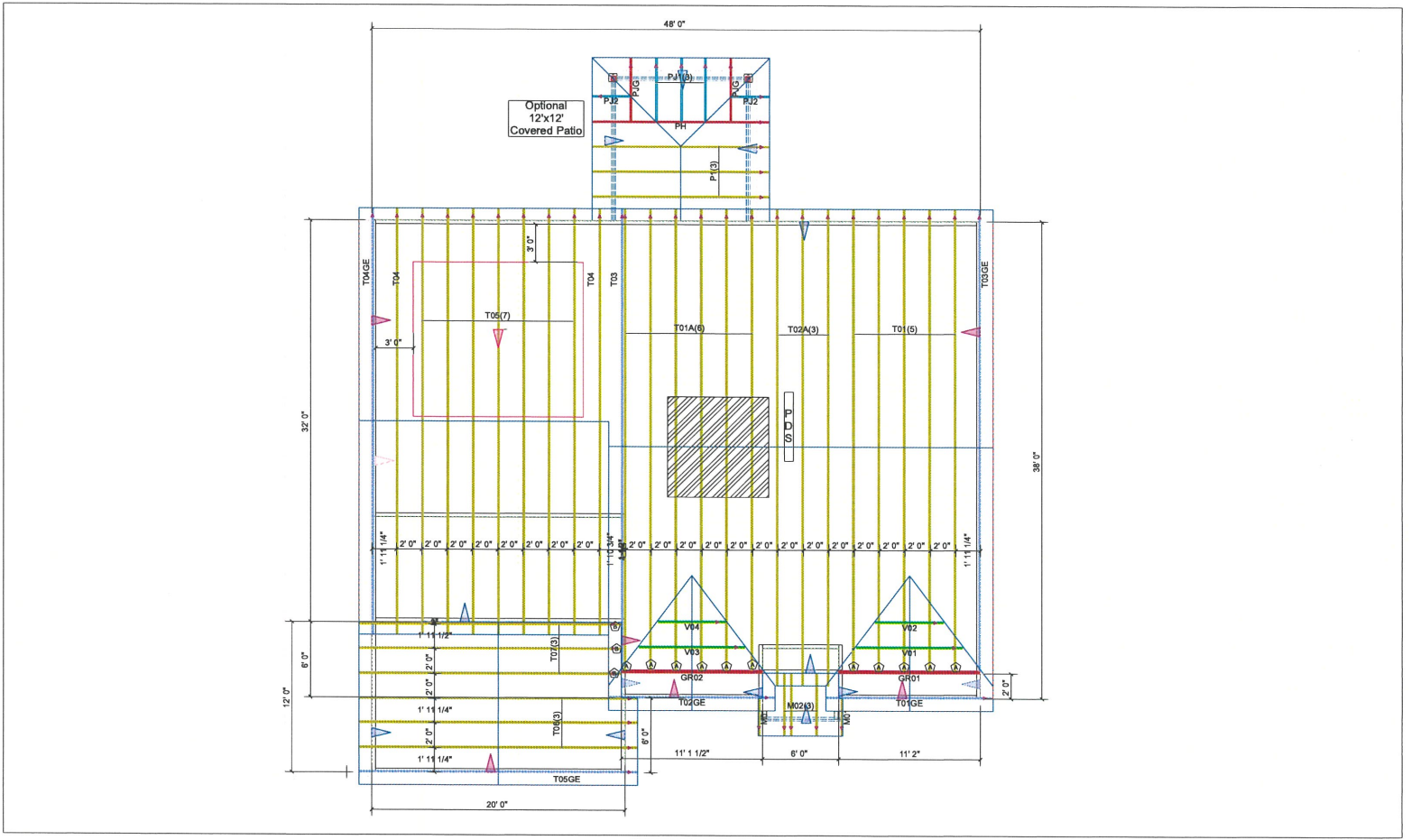
**THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY.
REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.**

GENERAL NOTES:

DO NOT CUT OR MODIFY TRUSSES.
TRUSSES ARE SPACED 24" ON CENTER UNLESS NOTED OTHERWISE.

REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.

PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.



Hardware List:		
A	11	HUS26
B	3	LUS26
C	-	-
D	-	-
-	-	-
-	-	-
-	-	-

ROOF LOADING:
TOP LIVE: 20 PSF
TOP DEAD: 10 PSF
BOTTOM DEAD: 10 PSF
WIND SPEED: 115 MPH



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DUNN, NORTH CAROLINA 28334
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PROJECT:	CL-3145 CP		
CUSTOMER:	Caviness Land		
MODEL:	CL 3145 CP GOL		
SCALE:	NOT TO SCALE	P.O. NUMBER:	PO #
DRAWN BY:	RE	PRINT DATE:	Approved
ORDER:	Order #	SHIP DAT	