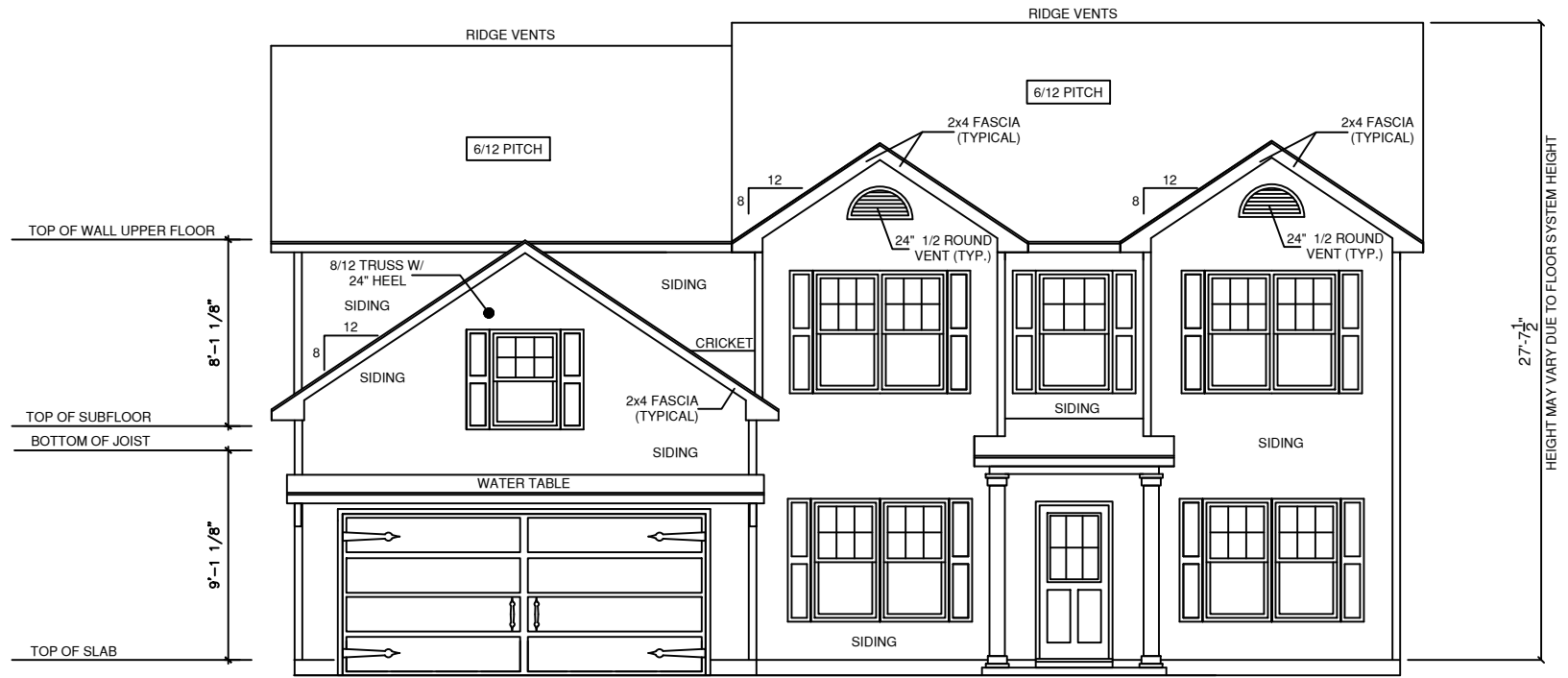


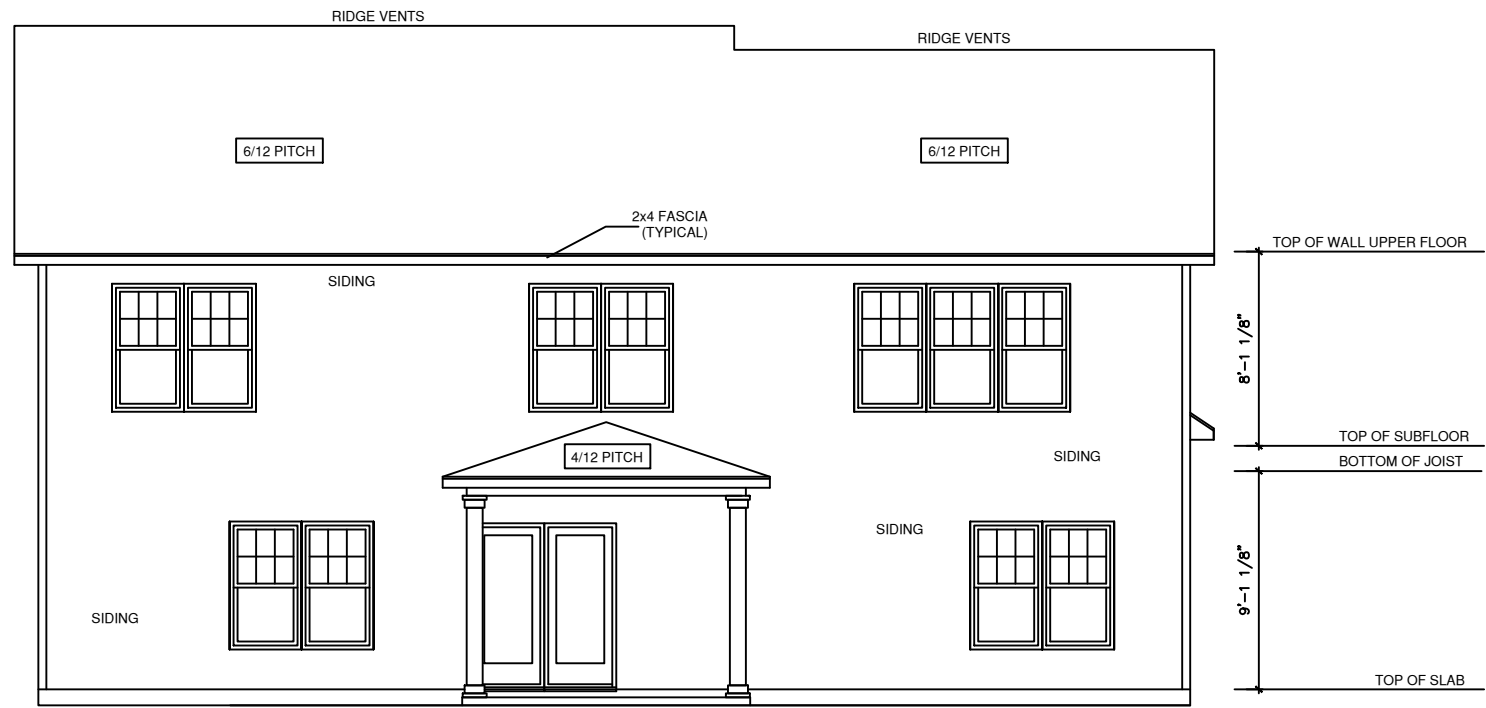
NOTE: FIRST FLOOR
9'-0" CEILINGS FIRST
FLOOR ONLY



PRINCETON FRONT ELEVATION "A"
SCALE 1/8" = 1'-0"



See foundation note



PRINCETON REAR ELEVATION "A"
SCALE 1/8" = 1'-0"

General Notes

- 1.) MAIN FLOOR PLATE HEIGHT TO BE 9'-0" UNLESS NOTED OTHERWISE.
- 2.) OPTIONAL BONUS PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
- 3.) INTERIOR & EXTERIOR WALLS TO BE DRAWN @ 3 1/2" UNLESS NOTED OTHERWISE.
- 4.) ALL ANGLES TO BE DRAWN AT 45° OR 90° UNLESS NOTED OTHERWISE.
- 5.) WINDOW HEADER HEIGHT TO BE SET @ 6'-11" UNLESS NOTED OTHERWISE. HEADER SIZE AND MATERIAL TO BE DETERMINED & VERIFIED BY FRAMER, BUILDER, TRUSS SHOP OR BY A LICENSED ENGINEER.
- 6.) SIZE, LOCATION AND MATERIALS OF BEAMS TRUSSES, GIRDERS AND HEADERS TO BE DETERMINED & VERIFIED BY BUILDER, FRAMER TRUSS SHOP OR LICENSED ENGINEER.
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- 8.) ROOF VENTELLATION TO BE DETERMINED & VERIFIED BUILDER, ROOFING CONTRACTOR OR LICENSED ENGINEER.
- 9.) ALL MECHANICAL SYSTEMS DESIGNS, LOCATIONS AND SIZING TO BE DETERMINED & VERIFIED BY BUILDER, APPROPRIATE TRADE CONTRACTOR AND OR LICENSED ENGINEER.
- 10.) BUILDER RESPONSIBLE FOR VERIFYING AND COMPLYING WITH ALL LOCAL, STATE & NATIONAL CODES.
- 11.) LOCAL, STATE AND NATIONAL CODES TAKE PRECEDENCE OVER DRAWINGS.
- 12.) BUILDER TO VERIFY ALL DIMENSIONS.

SQUARE FOOT KEY

FIRST FLOOR TO FRAMING	1517
SECOND FLOOR TO FRAMING	1628
HEATED & COOLED	3145
COVERED FRONT PORCH	32
GARAGE AREA	414
TOTAL UNDER BEAM AREA	3591
OPTIONAL COVERED REAR PATIO	144

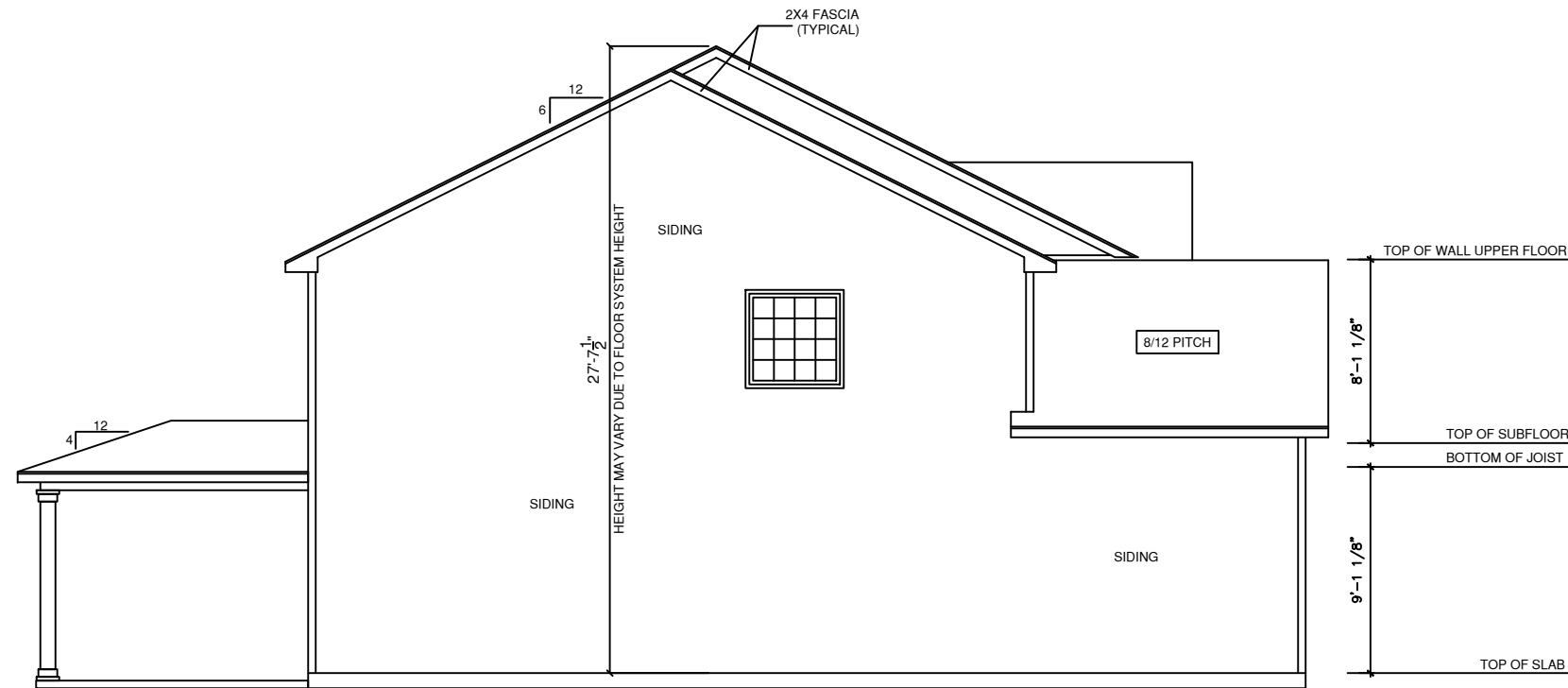
Front & Rear Elevation



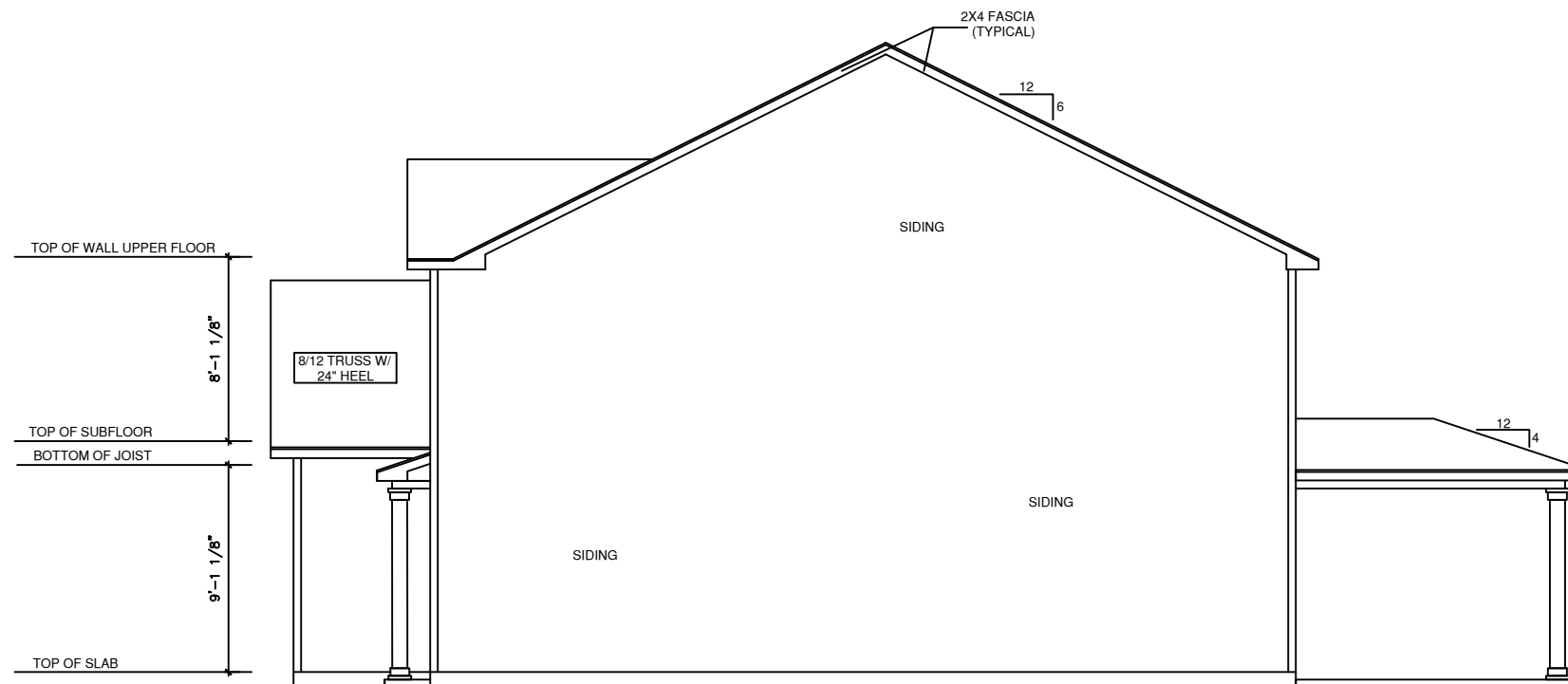
X

SUBDIVISION NAME:	X
CITY:	X
PHASE:	X
BLOCK:	X
LOT:	X

PLAN INDEX
CL 3145



PRINCETON LEFT ELEVATION "A"
SCALE 1/8" = 1'-0"



PRINCETON RIGHT ELEVATION "A"
SCALE 1/8" = 1'-0"

General Notes

- 1.) MAIN FLOOR PLATE HEIGHT TO BE 9'-0" UNLESS NOTED OTHERWISE.
- 2.) OPTIONAL BONUS PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
- 3.) INTERIOR & EXTERIOR WALLS TO BE DRAWN @ 3 1/2" UNLESS NOTED OTHERWISE.
- 4.) ALL ANGLES TO BE DRAWN AT 45° OR 90° UNLESS NOTED OTHERWISE.
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- 12.) BUILDER TO VERIFY ALL DIMENSIONS.

SQUARE FOOT KEY

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SECOND FLOOR TO FRAMING	1628
HEATED & COOLED	3145
COVERED FRONT PORCH	32
GARAGE AREA	414
TOTAL UNDER BEAM AREA	3591
OPTIONAL COVERED REAR PATIO	144

Right & Left Elevation



X

SUBDIVISION NAME:

X

CITY:

X

PHASE:

X

BLOCK:

X

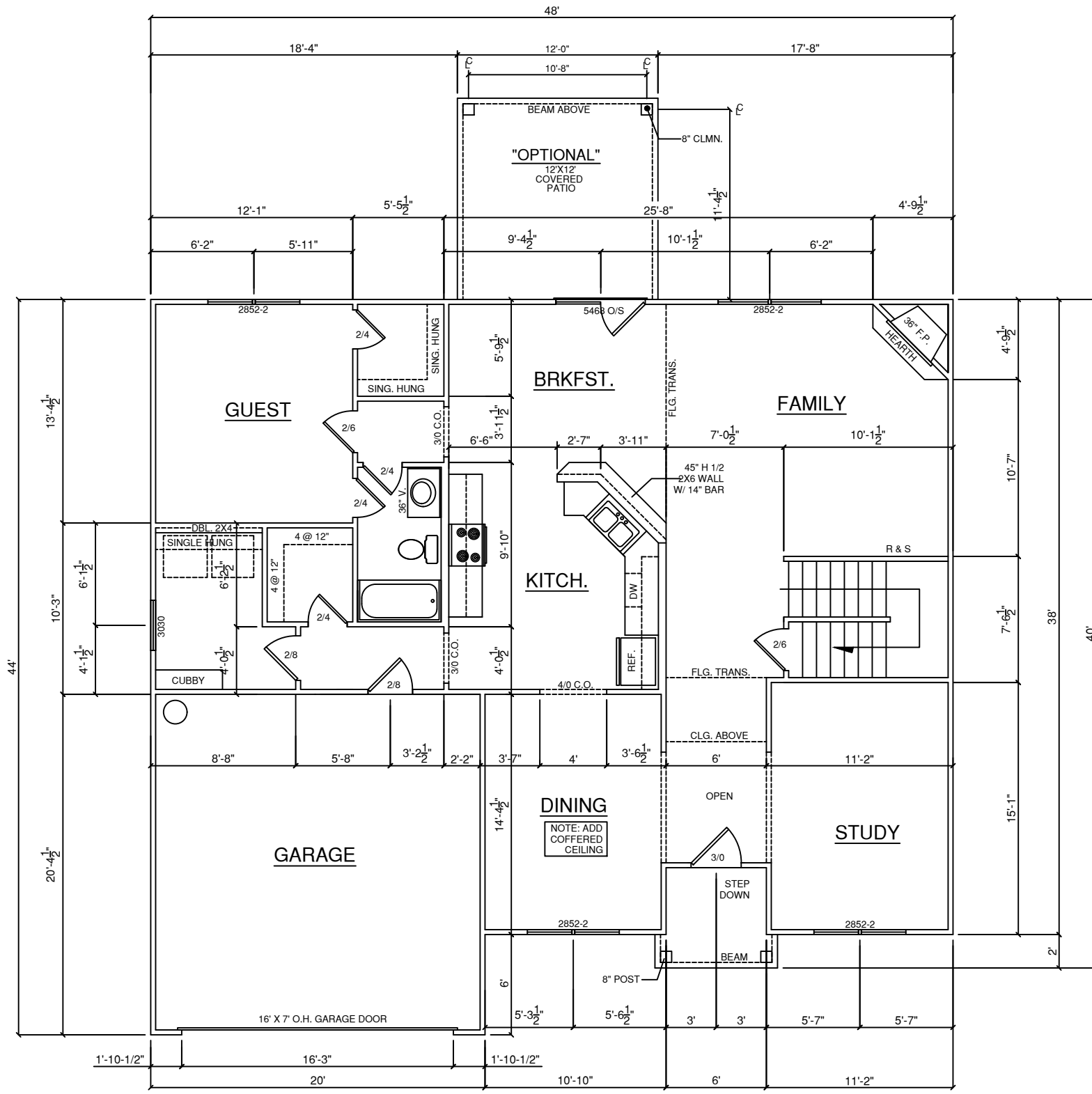
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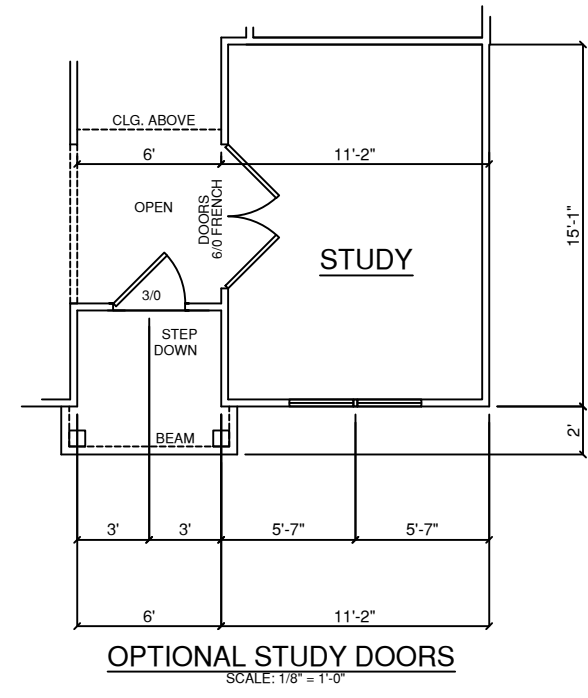
PLAN INDEX

CL 3145

NOTE: 9'-0" CEILINGS AT FIRST FLOOR ONLY



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



OPTIONAL STUDY DOORS
SCALE: 1/8" = 1'-0"

General Notes

- 1.) MAIN FLOOR PLATE HEIGHT TO BE 9'-0" UNLESS NOTED OTHERWISE.
- 2.) OPTIONAL BONUS PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
- 3.) INTERIOR & EXTERIOR WALLS TO BE DRAWN @ 3 1/2" UNLESS NOTED OTHERWISE.
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SQUARE FOOT KEY

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SECOND FLOOR TO FRAMING	1628
HEATED & COOLED	3145
COVERED FRONT PORCH	32
GARAGE AREA	414
TOTAL UNDER BEAM AREA	3591
OPTIONAL COVERED REAR PATIO	144

First Floor Plan

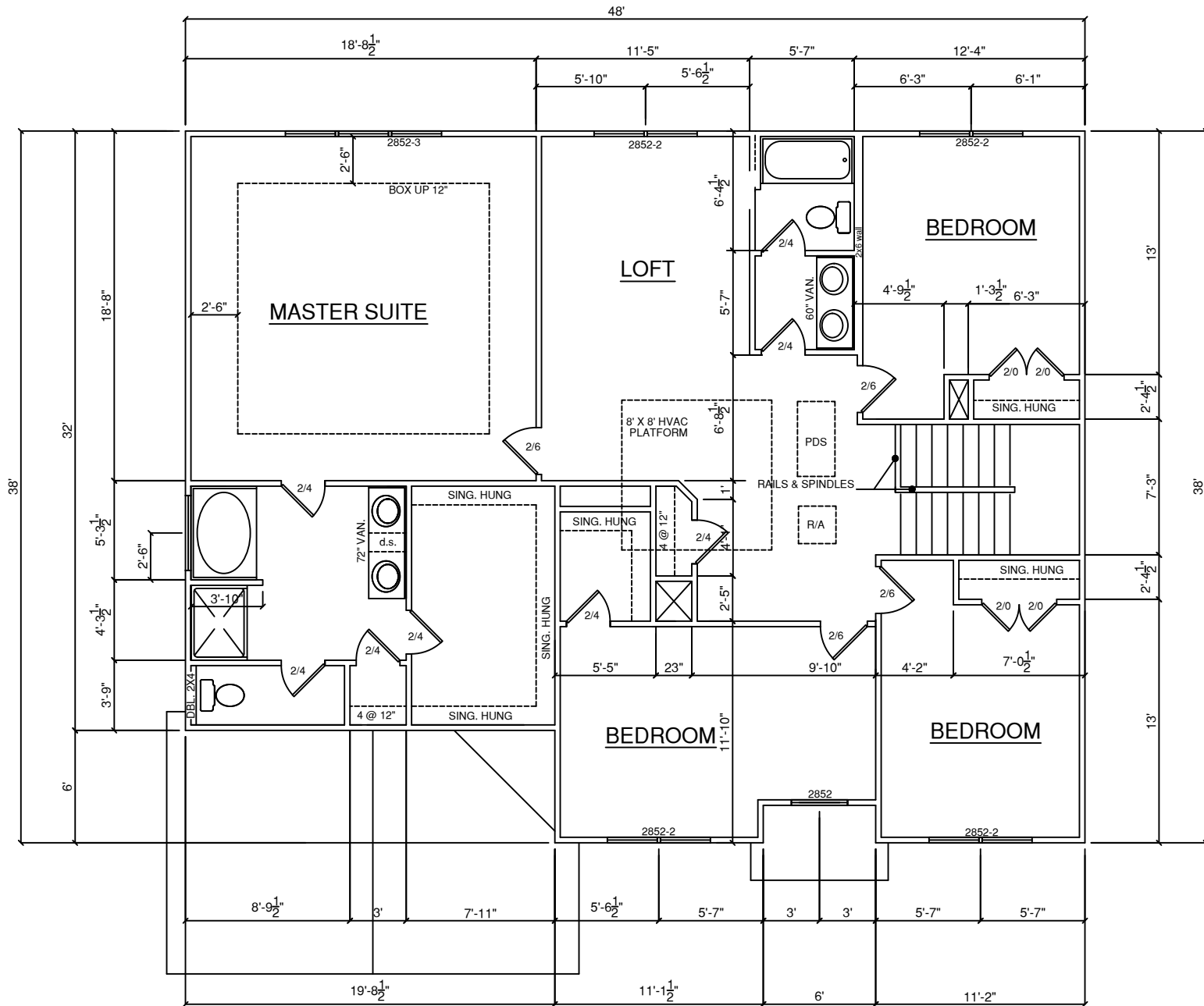


X

SUBDIVISION NAME: X
 CITY: X
 PHASE: X
 BLOCK: X
 LOT: X

PLAN INDEX
 CL 3145

NOTE: FIRST FLOOR
9'-0" CEILINGS FIRST
FLOOR ONLY



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

General Notes

- 1.) MAIN FLOOR PLATE HEIGHT TO BE 9'-0" UNLESS NOTED OTHERWISE.
- 2.) OPTIONAL BONUS PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
- 3.) INTERIOR & EXTERIOR WALLS TO BE DRAWN @ 3 1/2" UNLESS NOTED OTHERWISE.
- 4.) ALL ANGLES TO BE DRAWN AT 45° OR 90° UNLESS NOTED OTHERWISE.
- 5.) WINDOW HEADER HEIGHT TO BE SET @ 6'-11" UNLESS NOTED OTHERWISE. HEADER SIZE AND MATERIAL TO BE DETERMINED & VERIFIED BY FRAMER, BUILDER, TRUSS SHOP OR BY A LICENSED ENGINEER.
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SQUARE FOOT KEY

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SECOND FLOOR TO FRAMING	1628
HEATED & COOLED	3145
COVERED FRONT PORCH	32
GARAGE AREA	414
TOTAL UNDER BEAM AREA	3591
OPTIONAL COVERED REAR PATIO	144

Second Floor



X

SUBDIVISION NAME:
X

CITY:
X

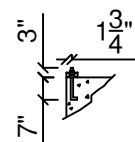
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BLOCK:
X

LOT:
X

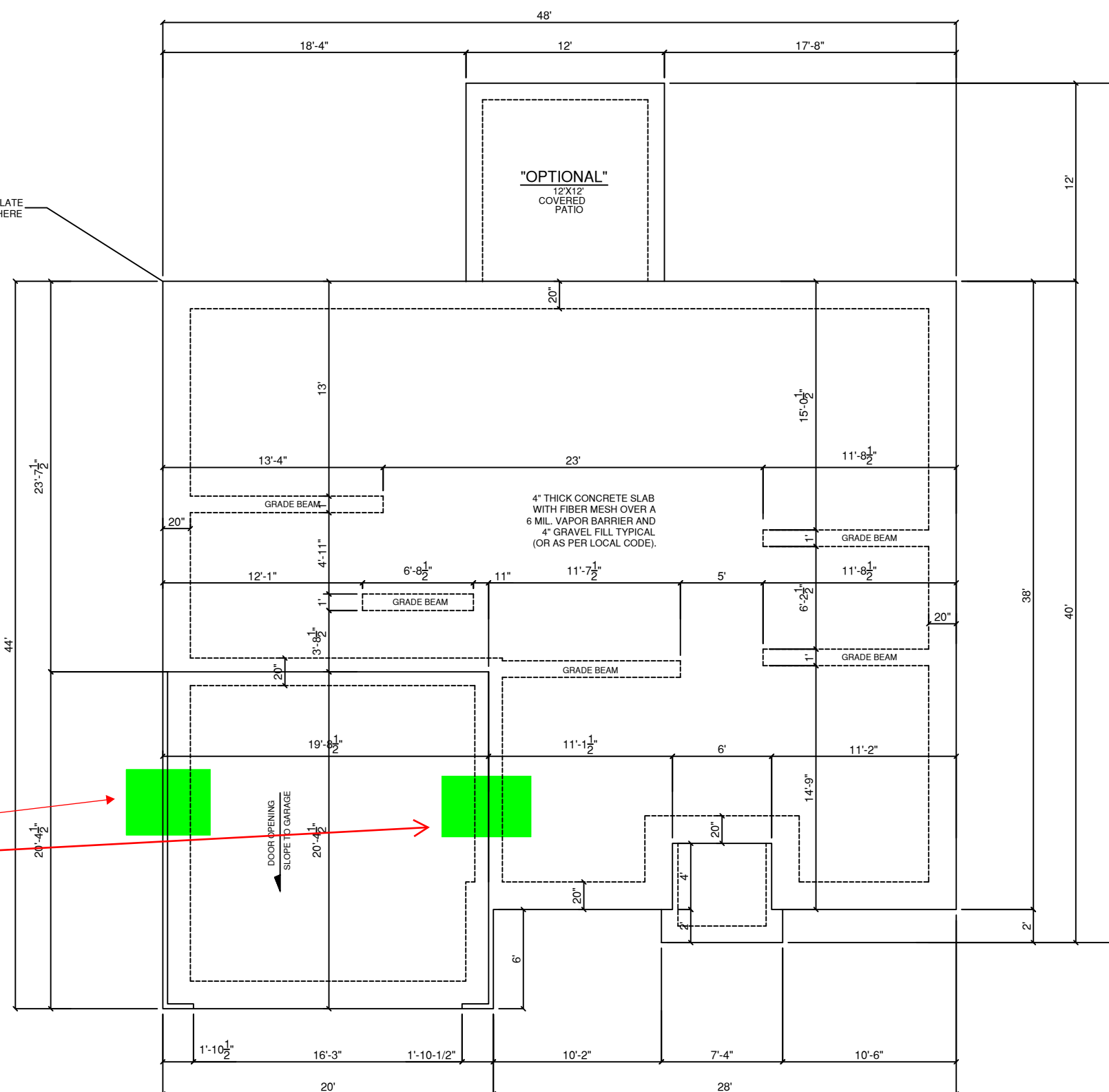
PLAN INDEX
CL 3145

ANCHOR BOLT DETAIL



ANCHOR BOLT LOCATIONS
 -WITHIN 1'0" OF ALL CORNERS
 -WITHIN 1'0" OF ALL BOARD ENDS
 -EVERY 6'0" ON CENTER

START PLATE
HERE



Provide piers under 4
ply LVL FB-5

FOUNDATION PLAN
 SCALE 1/8" = 1'-0"

General Notes

- 1.) MAIN FLOOR PLATE HEIGHT TO BE 9'-0" UNLESS NOTED OTHERWISE.
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- 3.) INTERIOR & EXTERIOR WALLS TO BE DRAWN @ 3 1/2" UNLESS NOTED OTHERWISE.
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SQUARE FOOT KEY

FIRST FLOOR TO FRAMING	1517
SECOND FLOOR TO FRAMING	1628
HEATED & COOLED	3145
COVERED FRONT PORCH	32
GARAGE AREA	414
TOTAL UNDER BEAM AREA	3591
OPTIONAL COVERED REAR PATIO	144

Foundation Plan



X

SUBDIVISION NAME:

X

CITY:

X

PHASE:

X

BLOCK:

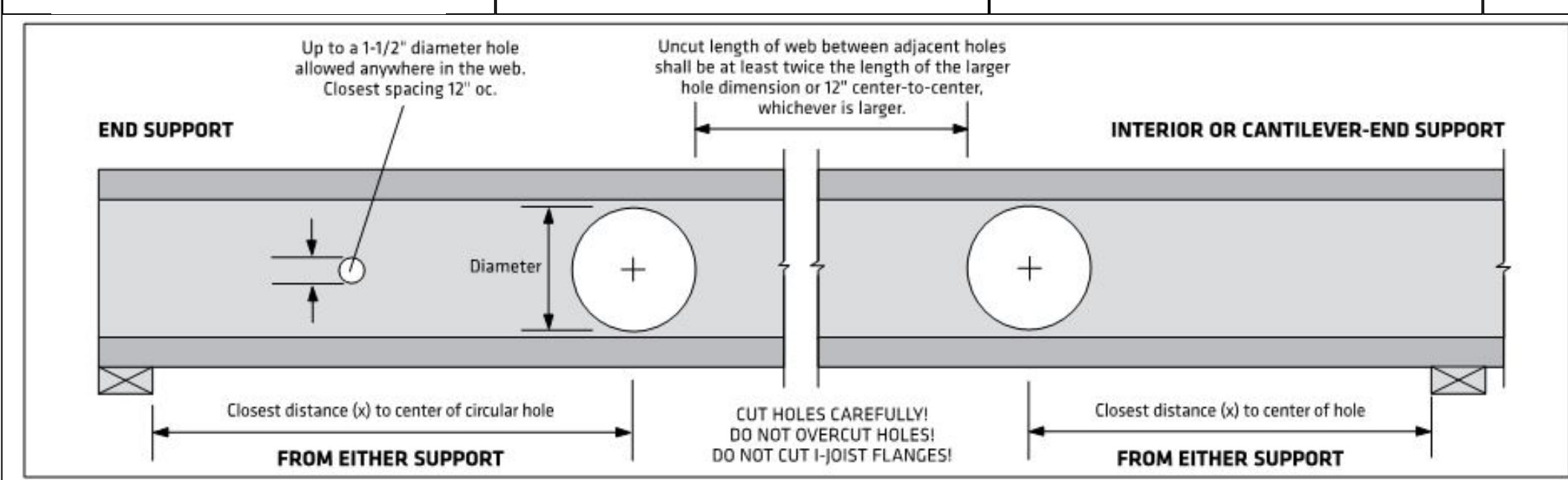
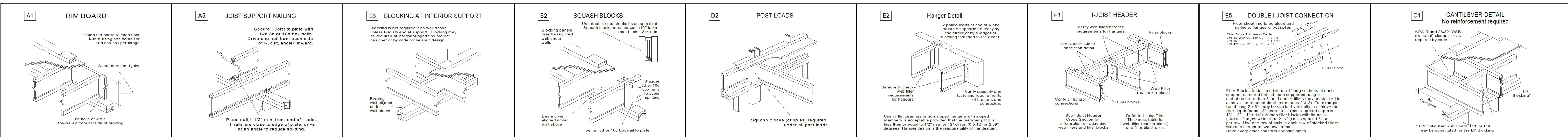
X

LOT:

X

PLAN INDEX

CL 3145



- 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 those listed, use the next largest value.
 - Select the column corresponding to the required hole diameter. For diameters between those listed, 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 bearing to the center of a circular hole.
 - Double check the distance to the other support, using the appropriate support condition.

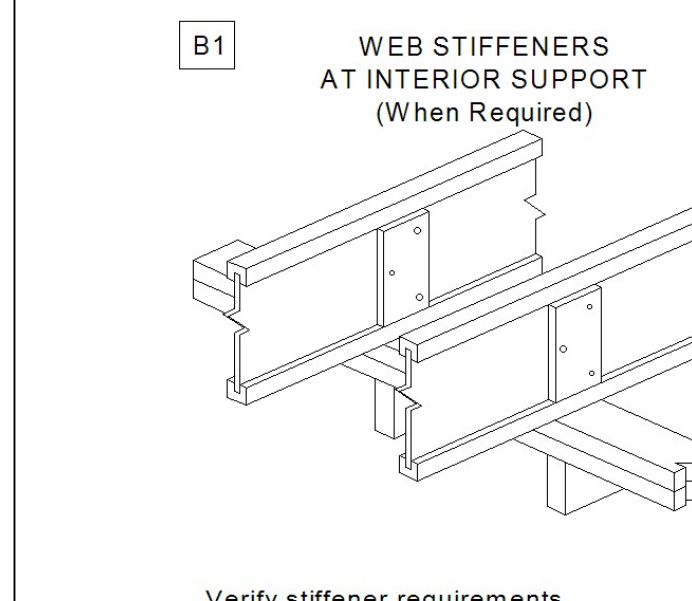
Depth	Clear Span (ft)	Distance from End Support						Distance from Interior or Cantilever-End Support					
		Hole Diameter						Hole Diameter					
		2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"
14"	14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	-
	18'	1'-0"	1'-0"	1'-0"	1'-9"	4'-6"	-	1'-8"	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'	3'-8"	5'-0"	6'-5"	8'-0"	9'-8"	-	6'-8"	7'-10"	8'-11"	10'-1"	11'-4"	-
16"	18'	1'-0"	1'-0"	1'-4"	2'-5"	3'-7"	4'-11"	1'-6"	2'-6"	3'-6"	4'-6"	5'-6"	6'-6"
	22'	1'-4"	2'-5"	3'-6"	4'-9"	6'-1"	7'-5"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"
	26'	3'-6"	4'-8"	5'-11"	7'-2"	8'-7"	10'-1"	6'-6"	7'-6"	8'-6"	9'-6"	10'-6"	11'-9"
	30'	5'-9"	7'-0"	8'-4"	9'-9"	11'-3"	12'-10"	9'-0"	10'-0"	11'-0"	12'-0"	13'-2"	14'-8"

DESIGN ASSUMPTIONS:

- The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 130 plf (e.g., 40 psf Live Load and 25 psf Dead Load spaced 24" o.c.).
- Hole location is measured from the inside face of bearing to the center of a circular hole, from the closest support.
- Clear Span has 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 location.
- The maximum hole depth for circular holes is the I-joist Depth less 4"; except the maximum hole depth is 6" for 9'-1/2" LPI joists, and 8" for 11'-7/8" LPI joists.
- Holes cannot be located in the span where designated "x", without further analysis by a design professional.

NOTES:

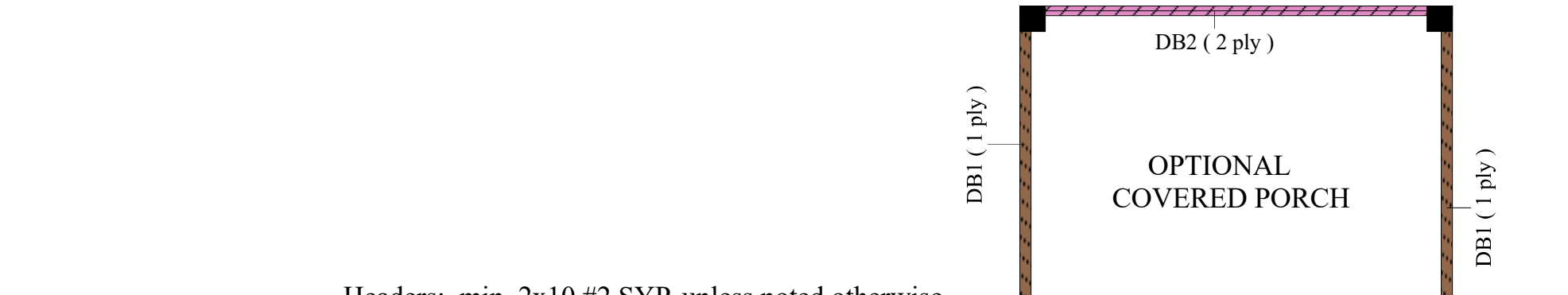
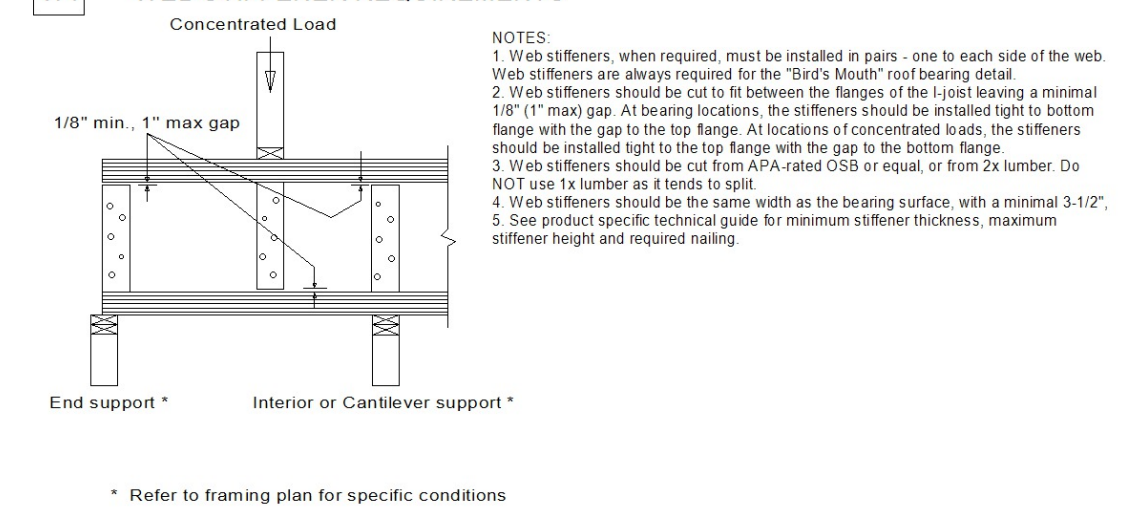
- Holes may be placed anywhere within the depth of the joist. A minimum 1/4" clear distance is required between the hole and the flanges.
- Round holes up to 1-1/2" diameter may be placed anywhere in the web.
- Perforated "knockouts" may be neglected when locating web holes.
- Holes larger than 1-1/2" 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 adjacent hole, or a minimum of 12" center-to-center, whichever is greater.
- Multiple holes may be spaced closer provided they fit within the boundary of an acceptable larger hole. Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart (clear distance) 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 encompass the holes.
- For conditions not covered in this table, use LP's design software or contact your local LP® SolidStart® Engineered Wood Products distributor for more information.



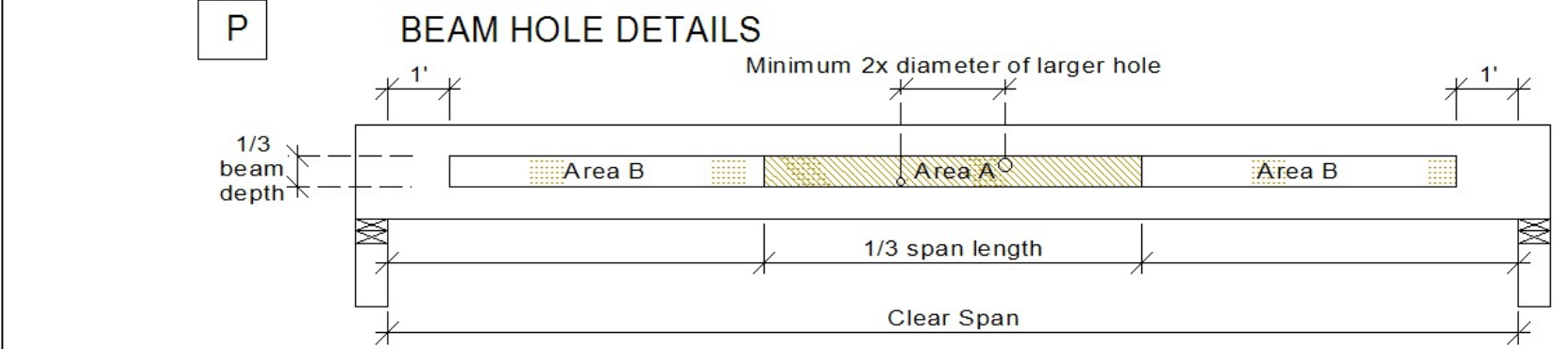
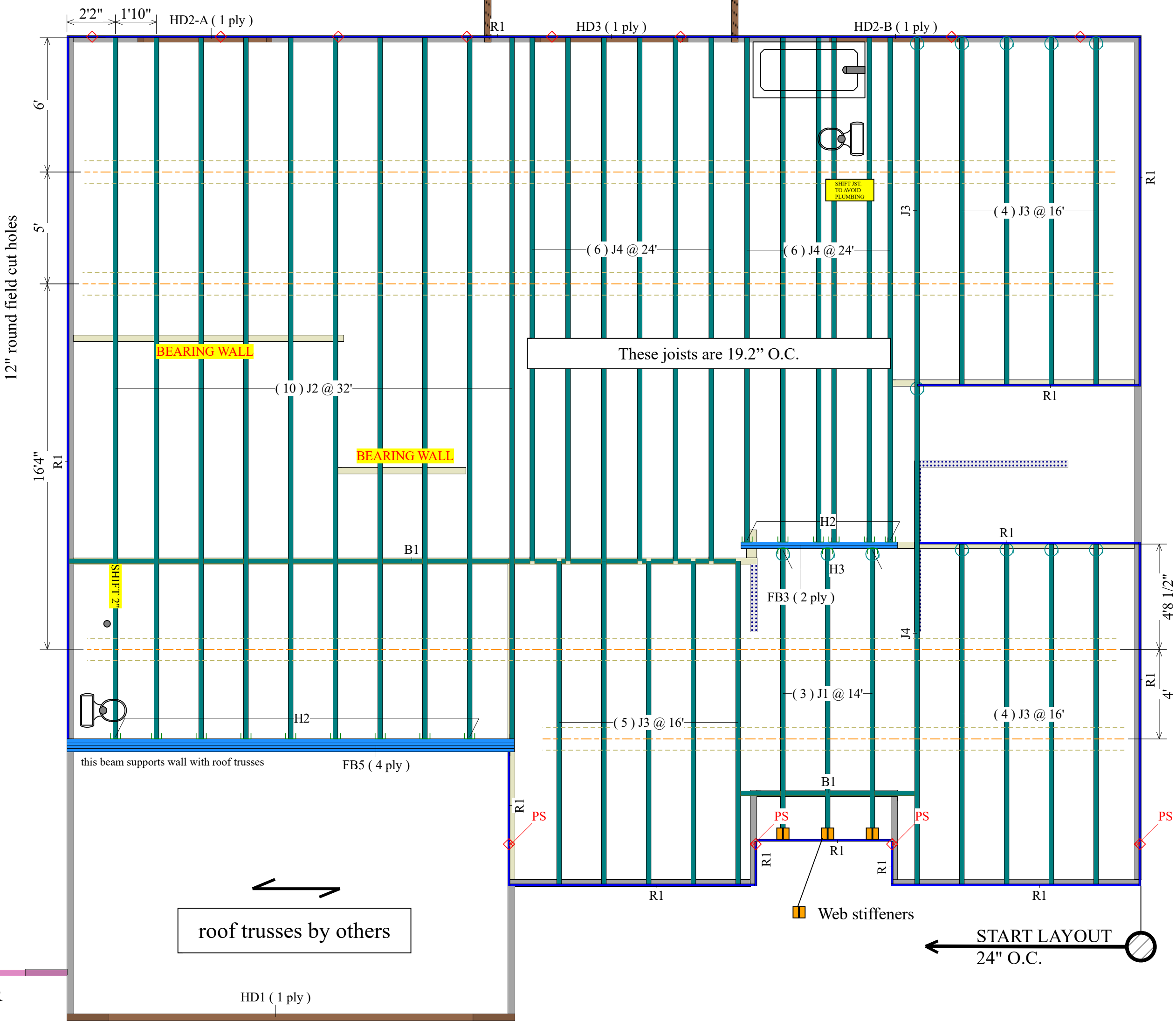
WEB STIFFENER REQUIREMENTS

Series	Depth	Minimum Thickness	Maximum Height	Nail Size*	Nail Qty
LPI 18 LPI 20Plus LPI 32Plus	9-1/2"	23/32"	6-3/8"	8d (2-1/2")	3
	11-7/8"	23/32"	8-3/4"	8d (2-1/2")	3
	14"	23/32"	10-7/8"	8d (2-1/2")	3
	16"	23/32"	12-7/8"	8d (2-1/2")	3

W1 WEB STIFFENER REQUIREMENTS



Headers: min. 2x10 #2 SYP, unless noted otherwise.



- NOTES:**
- These guidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables or designed with LP's design/specification software only. For all other applications, such as beams with concentrated loads, please contact your LP® SolidStart® Engineered Wood Products distributor for assistance.
 - Round holes can be drilled anywhere in "Area A" provided that no more than four holes are cut, with the minimum spacing described in the diagram. The maximum hole size is 1-1/2" for depths up to 9'-1/4", and 2" for depths greater than 9'-1/4".
 - Rectangular holes are NOT allowed.
 - DO NOT drill 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 LP SolidStart Engineered Wood Products distributor.
 - Up to three 3/4" holes may be drilled in "Area B" to accommodate wiring and/or water lines. 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 beam. For beams shallower than 9'-1/4", locate holes at mid-depth.
 - Protect punching holes from moisture.

Important Notes

WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse.

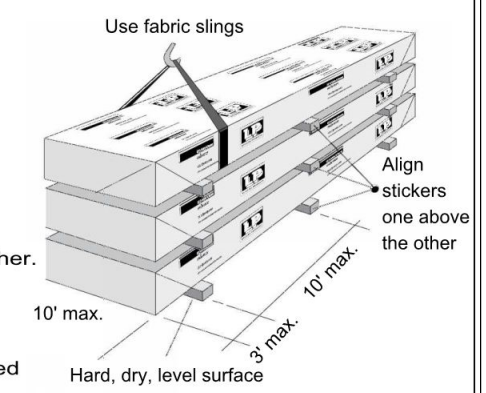
These instructions are offered as a guide to good practice in the handling, storage and installation of LP® SolidStart® I-joists, LP SolidStart LVL & LP SolidStart LSL beams. They are, however, solely general recommendations and, in some instances, other or additional precautions may be desirable. In all cases, the procedures used should be as specified by the architect/engineer responsible for the entire building.

- This is not intended as a manual for selecting products and assumes that components and details have been specified correctly.
- Consult the LP SolidStart I-joist, LP SolidStart LVL & LP SolidStart LSL brochures or contact your LP SolidStart products distributor for assistance.
- All rim joists, blocking, connections and temporary bracing must be installed before erections are allowed on the structure.
- No loads other than the weight of the erectors are to be imposed on the structure before it is permanently sheathed.
- After sheathing, do not overload joists with construction materials exceeding design loads.
- LP SolidStart I-joists, LP SolidStart LVL & LP SolidStart LSL beams must be used under dry, covered and well ventilated interior conditions in which the equivalent moisture content in lumber will not exceed 16%.

Handling & Storage

Keep LP SolidStart I-joists, LP SolidStart LVL & LP SolidStart LSL beams dry.

- Unload products carefully by lifting. Support the bundles to reduce excessive bowing. Individual products should be handled in a manner which prevents physical damage during measuring, cutting, erection, etc. I-joists should be handled vertically and not flatwise.
- Keep stored in wrapped and strapped bundles, stacked no more than 10' high. Support and separate bundles with 2 x 4 (or larger) stickers spaced no more than 10' apart. Keep stickers in line vertically.
- Product must not be stored in contact with the ground, or have prolonged exposure to the weather.
- Use forklifts and cranes carefully to avoid damaging product.
- Do not use visually damaged product.
- Call your local LP SolidStart Engineered Wood Products distributor for assistance when damaged products are encountered.



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



Dealer
84 Lumber-Fayetteville #2307

Dealer Address
620 Belt Road
Fayetteville, NC 28301
(910) 867-9185

Project
CL3145 GL-CP

Created
February 18, 2016

Layout Name
CL3145 GL-CP

Description
Caviness Land
CL3145 GL-CP

Designer
Kyle Militzer

Revised
August 25, 2020

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

Floor

Loads	
Live	40
Dead	10
Deflection Joist	
LL Span L/	480
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Deflection Girder	
LL Span L/	360
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360
Decking	
Decking	OSB
	23/32 APA Rated Sturd-I-Floor
Fastener	Nailed & Glued

Legend

- Point Load Support
- Load from Above
- 2x4 Ext Wall
- 2x4 Brg Wall
- 2x4 Non-Brg Wall
- 2x6 Brg Wall
- 2x6 Non-Brg Wall
- 3.5" Ext Wall
- Wall Opening
- LP APA Rated OSB 1.125 X 16
- LPI 32Plus 16
- LP-LSL 1.55E 3.5 X 9.25 (Dropped)
- LP-LSL 1.55E 3.5 X 11.875 (Dropped)
- LP-LVL 2900Fb-2.0E 1.75 X 16
- 1.5 X 9.25 (Dropped)

2ND FLOOR FRAMING

SCALE: 1/4" = 1'



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

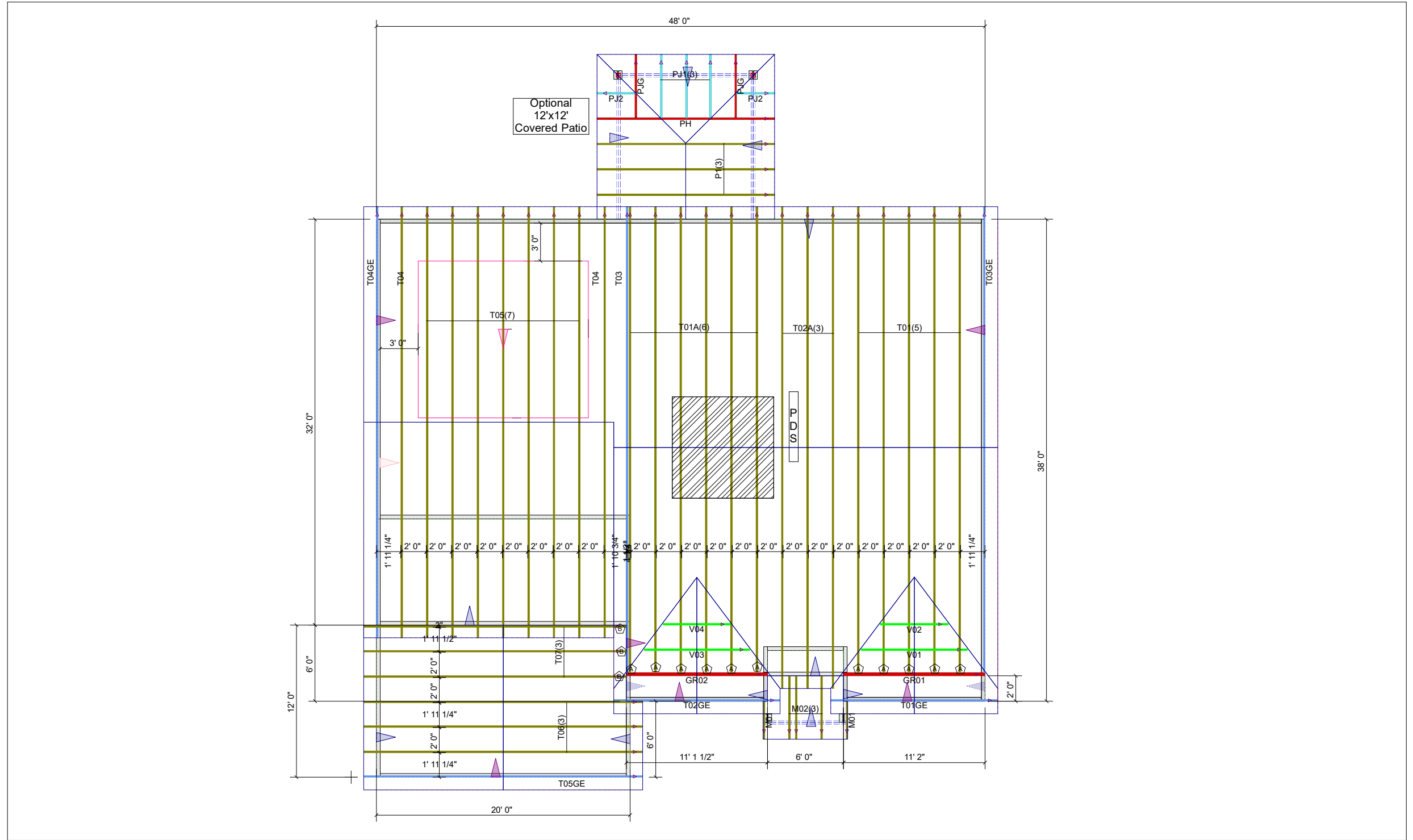
GENERAL NOTES:

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



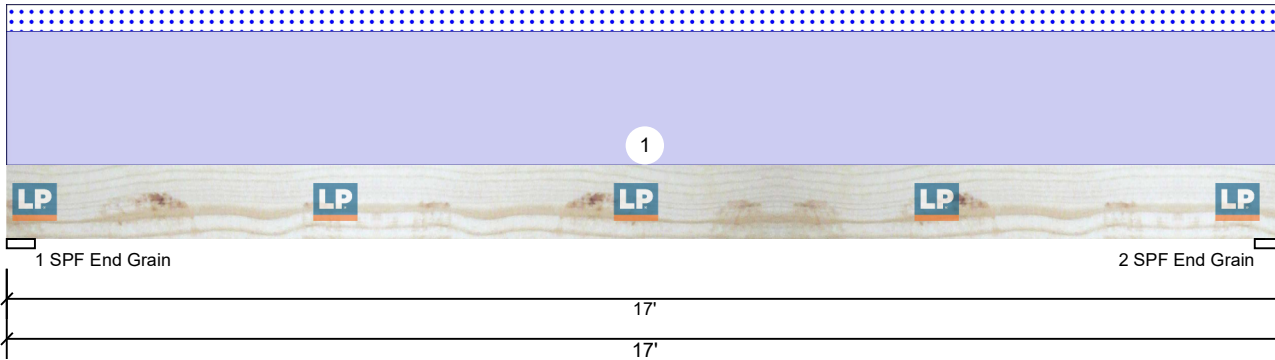
84 LUMBER COMPONENTS

DEDICATED TO QUALITY AND EXCELLENCE
200 EMMETT ROAD
DUNN, NORTH CAROLINA 28334
PHONE: 910-892-8400

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

HD1-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	963	170	0	0
2	0	963	170	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	8%	963 / 170	1133	L	D+S
2 - SPF End Grain	4.500"	8%	963 / 170	1133	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3797 ft-lb	8'6"	14578 ft-lb	0.260 (26%)	D	Uniform
Shear	815 lb	1'3 5/8"	10224 lb	0.080 (8%)	D	Uniform
LL Defl inch	0.045 (L/4354)	8'6 1/16"	0.546 (L/360)	0.080 (8%)	S	L
TL Defl inch	0.301 (L/653)	8'6 1/16"	0.819 (L/240)	0.370 (37%)	D+S	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.256", Long Term = 0.383"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform Self Weight	0-0-0 to 17-0-0		Top	100 PLF 13 PLF	0 PLF	20 PLF	0 PLF	0 PLF	

Notes

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Manufacturer Info

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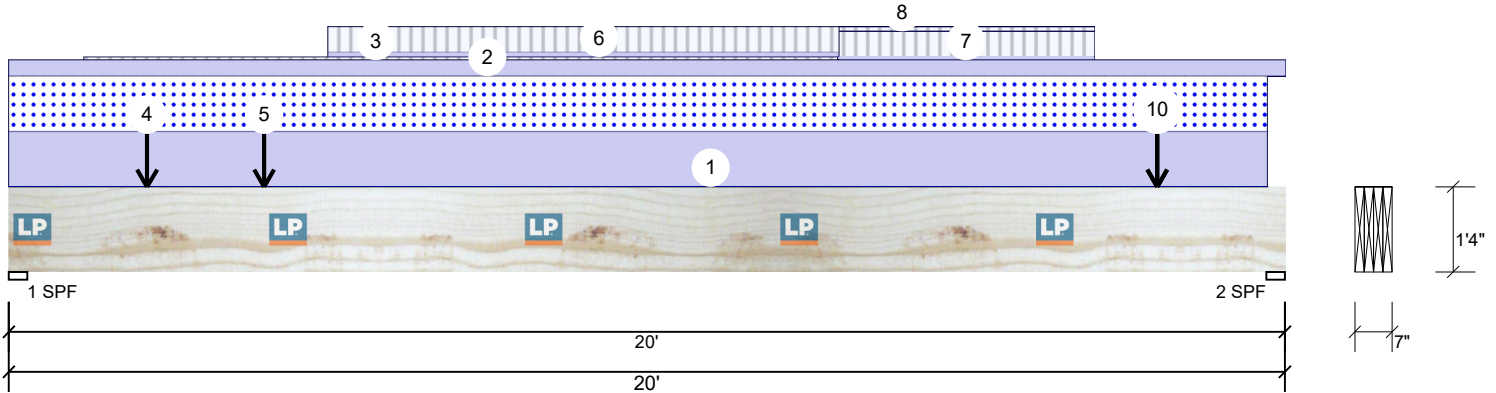
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This design is valid until
 10/31/2021

FB5-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 4-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	4
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	Yes
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1340 (-209)	4903	3350	0	0
2	1345 (-453)	4722	3254	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	81%	4903 / 3517	8420	L	D+0.75(L+S)
2 - SPF	3.500"	78%	4722 / 3450	8172	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	40916 ft-lb	9'11 3/4"	82849 ft-lb	0.494 (49%)	D+0.75(L+S)	L
Shear	7312 lb	1'6 5/8"	24472 lb	0.299 (30%)	D+0.75(L+S)	L
LL Defl inch	0.268 (L/875)	9'11 15/16"	0.652 (L/360)	0.410 (41%)	0.75(L+S)	L
TL Defl inch	0.632 (L/372)	9'11 15/16"	0.978 (L/240)	0.650 (65%)	D+0.75(L+S)	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.363", Long Term = 0.545"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 7' 3/4" o.c.
- 7 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 19-8-9		Top	335 PLF	0 PLF	335 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 20-0-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	1-2-3 to 12-11-13		Far Face	0 PLF	-20 PLF	0 PLF	0 PLF	0 PLF	
4	Point	2-2-0		Far Face	64 lb	299 lb	0 lb	0 lb	0 lb	J2
5	Point	4-0-0		Far Face	62 lb	289 lb	0 lb	0 lb	0 lb	J2
6	Part. Uniform	5-0-0 to 13-0-0		Far Face	32 PLF	151 PLF	0 PLF	0 PLF	0 PLF	
7	Part. Uniform	13-0-0 to 17-0-0		Far Face	27 PLF	148 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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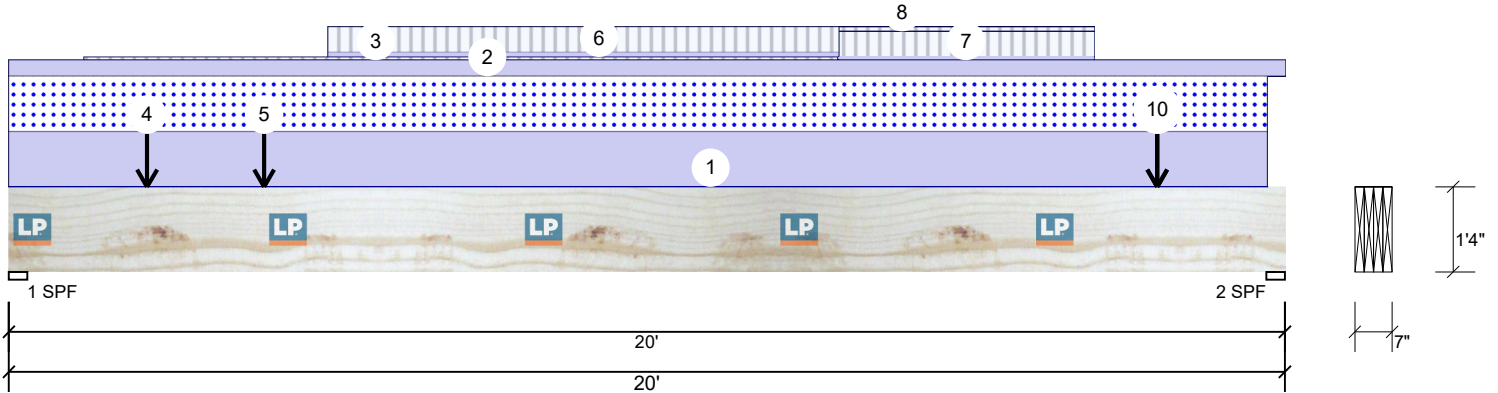


U.S. LUMBER

This design is valid until
 10/31/2021

FB5-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 4-Ply - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
8	Part. Uniform	13-0-0 to 17-0-0		Far Face	0 PLF	-27 PLF	0 PLF	0 PLF	0 PLF	
9	Point	18-0-0		Far Face	-30 lb	297 lb	0 lb	0 lb	0 lb	J2
10	Point	18-0-0		Far Face	0 lb	-318 lb	0 lb	0 lb	0 lb	J2
	Self Weight				32 PLF					

Notes

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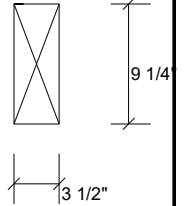
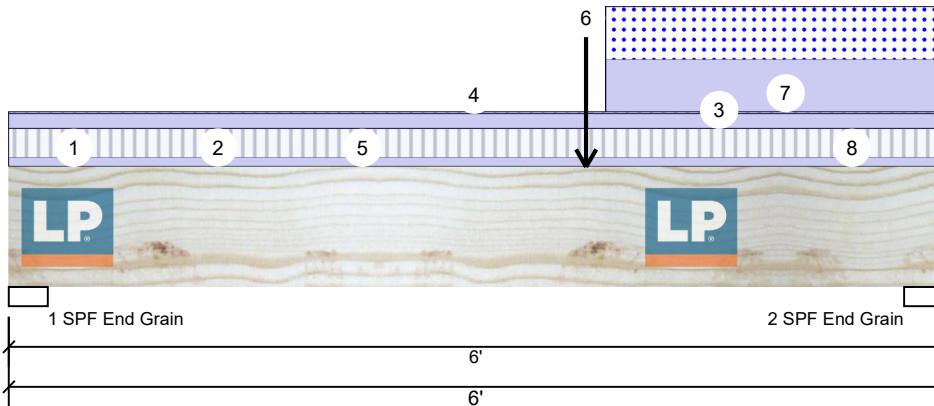
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U.S. LUMBER

HD2-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	549 (-30)	983	493	0	0
2	549 (-30)	1728	1238	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	19%	983 / 781	1764	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	33%	1728 / 1340	3069	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4148 ft-lb	3'8 1/2"	11647 ft-lb	0.356 (36%)	D+0.75(L+S)	L
Shear	2219 lb	5' 1/2"	10177 lb	0.218 (22%)	D+0.75(L+S)	L
LL Defl inch	0.033 (L/2043)	3'4 1/16"	0.188 (L/360)	0.180 (18%)	0.75(L+S)	L
TL Defl inch	0.076 (L/894)	3'4 3/16"	0.281 (L/240)	0.270 (27%)	D+0.75(L+S)	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.042", Long Term = 0.064"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tapered Start	0-0-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-10-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-0-0		Top	57 PLF	182 PLF	0 PLF	0 PLF	0 PLF	J2
3	Part. Uniform	0-0-0 to 6-0-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-0-0 to 6-0-0		Top	0 PLF	-10 PLF	0 PLF	0 PLF	0 PLF	J2
	Tapered Start	0-10-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
5	End	4-10-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Point	3-8-8		Top	1005 lb	0 lb	1005 lb	0 lb	0 lb	Header Column

Continued on page 2...

Notes

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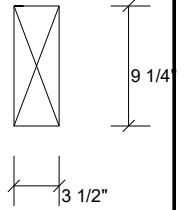
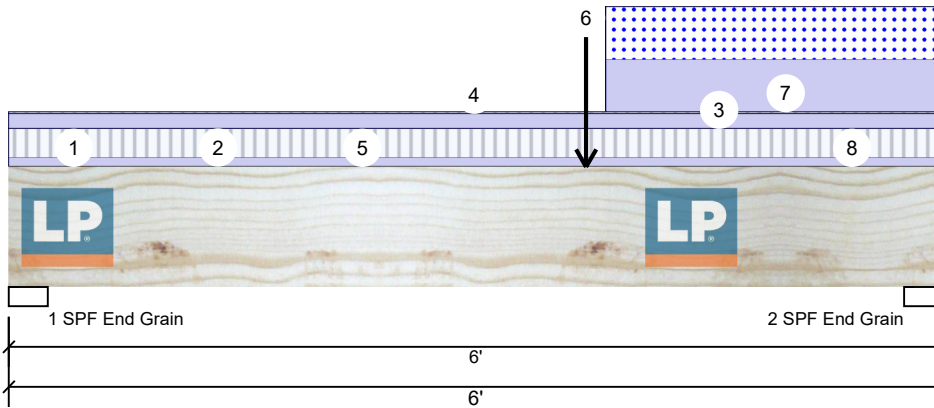
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This design is valid until
 10/31/2021

HD2-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	Bearing Length	0-3-8								
7	Part. Uniform	3-10-0 to 6-0-0		Top	335 PLF	0 PLF	335 PLF	0 PLF	0 PLF	
8	Tapered Start	4-10-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-0-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

Notes

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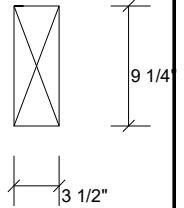
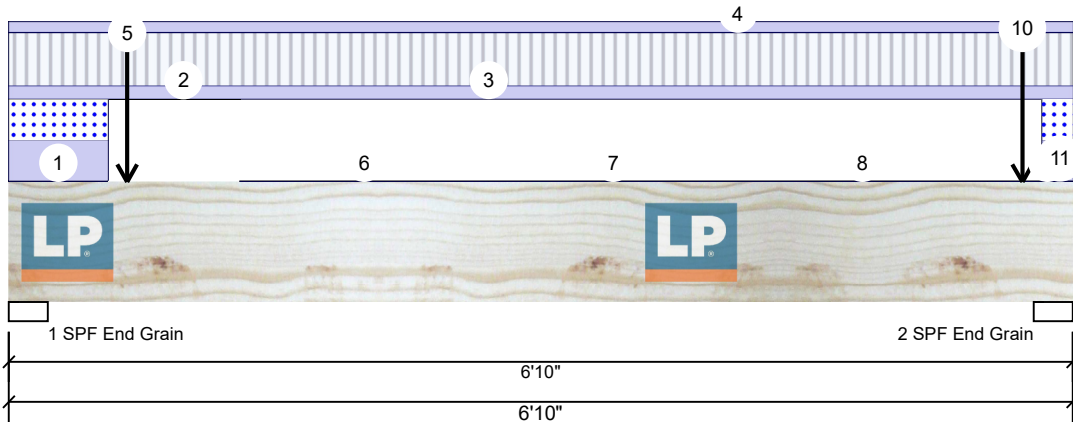
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U.S. LUMBER

HD4-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1589	1990	1230	0	0
2	1589	1990	1230	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	45%	1990 / 2114	4104	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	45%	1990 / 2114	4104	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3989 ft-lb	3'3 5/8"	10127 ft-lb	0.394 (39%)	D+L	L
Shear	2414 lb	11 1/2"	8849 lb	0.273 (27%)	D+L	L
LL Defl inch	0.062 (L/1250)	3'5"	0.215 (L/360)	0.290 (29%)	L	L
TL Defl inch	0.104 (L/749)	3'4 1/2"	0.323 (L/240)	0.320 (32%)	D+L	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.042", Long Term = 0.062"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 0-7-10		Top	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	
2	Tapered Start	0-0-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	1-5-13			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 6-10-0		Top	116 PLF	464 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 6-10-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Point	0-9-2		Top	1080 lb	0 lb	1080 lb	0 lb	0 lb	Header Column
	Bearing Length	0-3-8								
6	Tapered Start	1-5-13		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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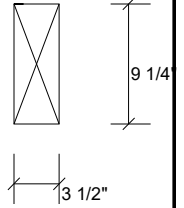
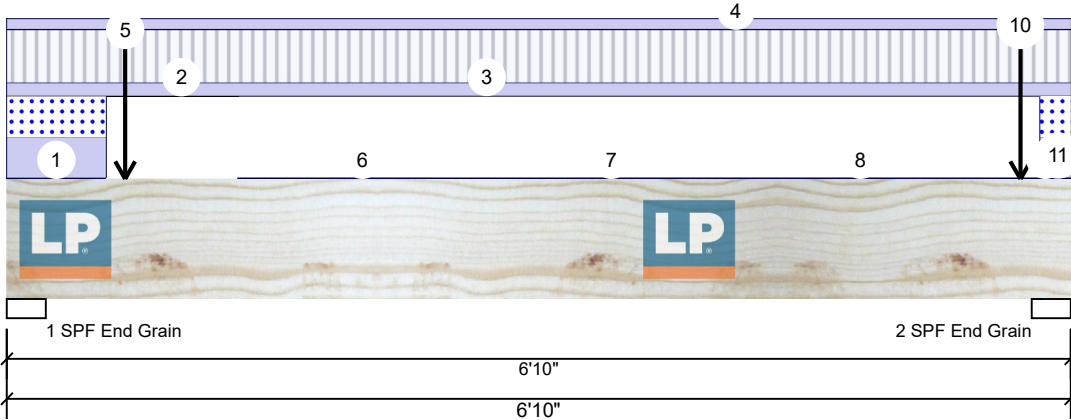


U.S. LUMBER

This design is valid until
 10/31/2021

HD4-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	End	3-1-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
7	Tapered Start	3-1-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-8-3			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Tapered Start	4-8-3		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-3-6			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9	Tapered Start	6-3-6		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-10-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
10	Point	6-6-2		Top	1080 lb	0 lb	1080 lb	0 lb	0 lb	Header Column
	Bearing Length	0-3-8								
11	Part. Uniform	6-7-10 to 6-10-0		Top	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

Notes

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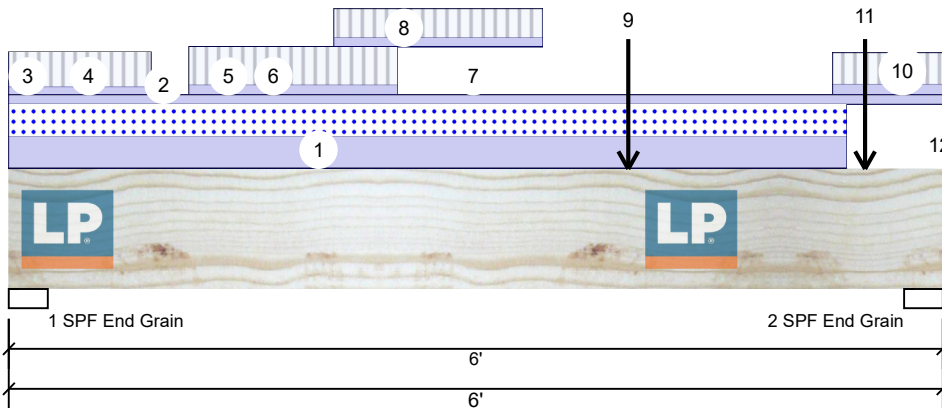
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U.S. LUMBER

HD2-B LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1271	1944	1134	0	0
2	1230	2854	1881	0	0

Bearings

Bearing	Length	Cap.	React D/L	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	41%	1944 / 1804	3748	L	D+0.75(L+S)
2 - SPF End Grain	3.000"	56%	2854 / 2333	5188	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4869 ft-lb	3'3 11/16"	10127 ft-lb	0.481 (48%)	D+L	L
Shear	3481 lb	5' 1/2"	10177 lb	0.342 (34%)	D+0.75(L+S)	L
LL Defl inch	0.054 (L/1257)	3' 11/16"	0.188 (L/360)	0.290 (29%)	0.75(L+S)	L
TL Defl inch	0.115 (L/589)	3'1"	0.281 (L/240)	0.410 (41%)	D+0.75(L+S)	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.061", Long Term = 0.091"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 5-4-8		Top	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-0-0		Top	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-2-14			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 0-10-14		Top	96 PLF	384 PLF	0 PLF	0 PLF	0 PLF	J4
5	Tapered Start	0-2-14		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	1-9-14			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
6	Part. Uniform	1-1-14 to 2-5-14		Top	113 PLF	426 PLF	0 PLF	0 PLF	0 PLF	J4

Continued on page 2...

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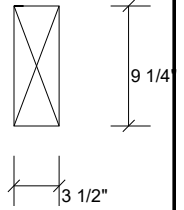
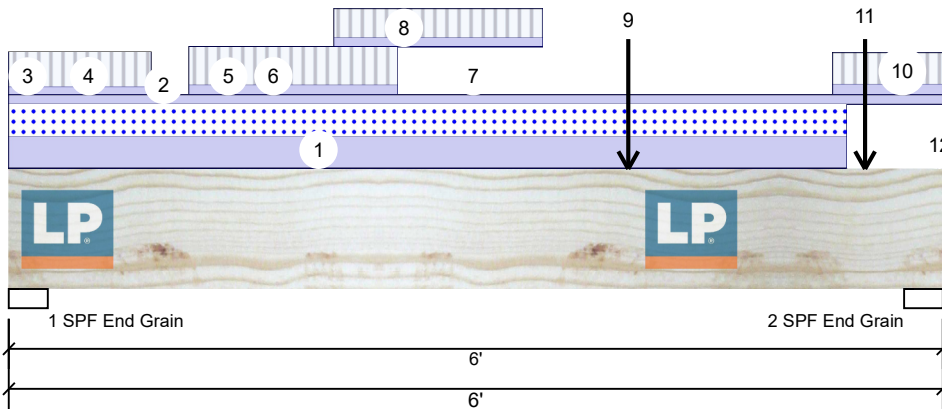
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HD2-B LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
7	Tapered Start	1-9-14		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	5-11-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Part. Uniform	2-1-2 to 3-5-2		Top	106 PLF	319 PLF	0 PLF	0 PLF	0 PLF	J4
9	Point	3-11-12		Top	681 lb	906 lb	0 lb	0 lb	0 lb	FB4 FB4
	Bearing Length	0-3-8								
10	Part. Uniform	5-3-8 to 6-0-0		Top	120 PLF	349 PLF	0 PLF	0 PLF	0 PLF	J5
11	Point	5-6-0		Top	1080 lb	0 lb	1080 lb	0 lb	0 lb	Header Column
	Bearing Length	0-3-8								
12	Tapered Start	5-11-8		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-0-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

Notes

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Manufacturer Info

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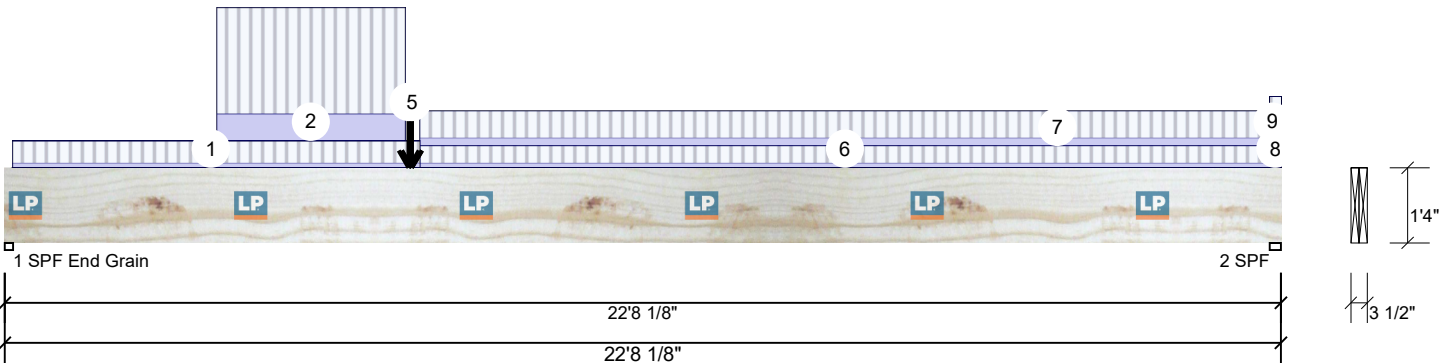
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U.S. LUMBER

FB4-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1324	1036	0	0	0
2	906	681	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	1.750"	51%	1036 / 1324	2360	L	D+L
2 - SPF	2.375"	45%	681 / 906	1587	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14732 ft-lb	7'2 1/8"	34636 ft-lb	0.425 (43%)	D+L	L
Shear	2299 lb	1'4 7/8"	10640 lb	0.216 (22%)	D+L	L
LL Defl inch	0.292 (L/924)	10'6 7/16"	0.749 (L/360)	0.390 (39%)	L	L
TL Defl inch	0.523 (L/515)	10'6"	1.124 (L/240)	0.470 (47%)	D+L	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.231", Long Term = 0.347"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 10'1 1/8" o.c.
- 7 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-1-12 to 7-4-9	0-7-5	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	3-9-4 to 7-1-4		Top	30 PLF	120 PLF	0 PLF	0 PLF	0 PLF	
3	Point	7-2-2		Near Face	886 lb	916 lb	0 lb	0 lb	0 lb	FB2
4	Point	7-2-13		Top	34 lb	0 lb	0 lb	0 lb	0 lb	Partition Wall Self Weight
	Bearing Length	0-3-8								
5	Point	7-2-13		Top	45 lb	0 lb	0 lb	0 lb	0 lb	Partition Wall Self Weight
	Bearing Length	0-3-8								

Continued on page 2...

Notes

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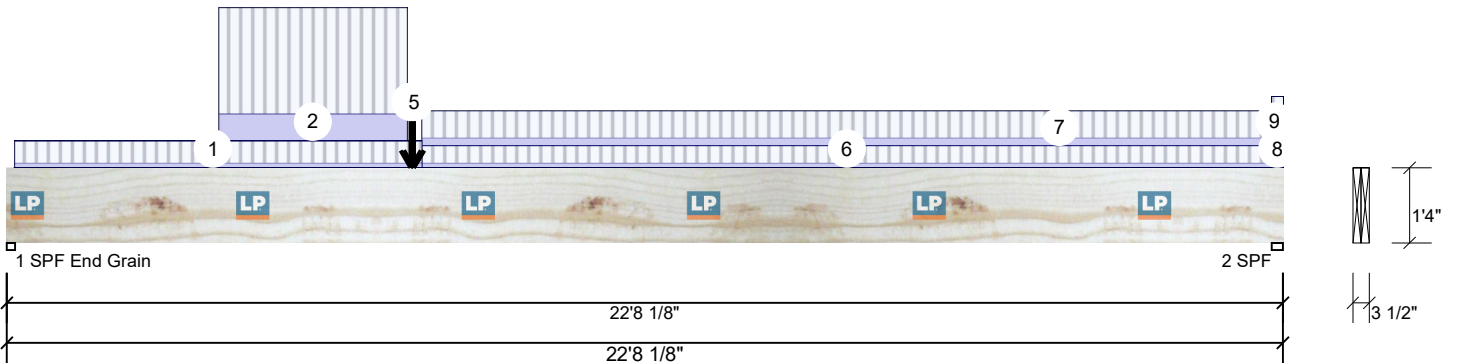
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FB4-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 2-Ply - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Tie-In	7-4-9 to 22-5-12	0-7-5	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
7	Tie-In	7-4-9 to 22-5-12	0-11-14	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
8	Tie-In	22-5-12 to 22-8-2	0-7-5	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
9	Tie-In	22-5-12 to 22-8-2	0-11-14	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				16 PLF					

Notes

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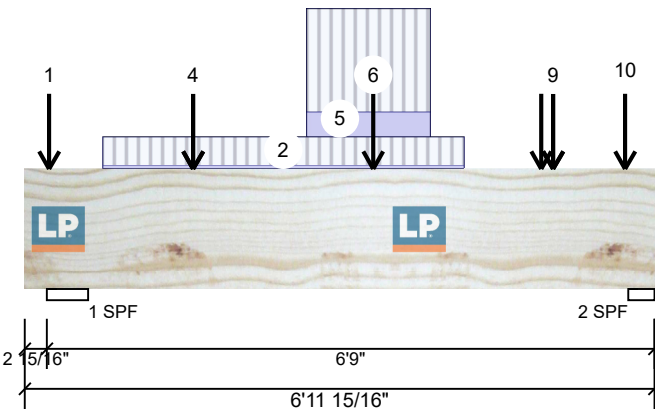
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U.S. LUMBER

FB3-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 2-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1863 (-1)	315	0 (-180)	0	0
2	2257 (-3)	435	0 (-208)	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	27%	315 / 1863	2178	_L	D+L
2 - SPF	3.500"	52%	435 / 2257	2692	_L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3742 ft-lb	3'8 1/4"	34636 ft-lb	0.108 (11%)	D+L	_L
Shear	2829 lb	5'5 5/16"	10640 lb	0.266 (27%)	D+L	_L
LL Defl inch	0.016 (L/4693)	3'7 13/16"	0.210 (L/360)	0.080 (8%)	L	LL
TL Defl inch	0.019 (L/4046)	3'7 7/8"	0.315 (L/240)	0.060 (6%)	D+L	LL
LL Cant	-0.001 (2L/5024)	Lt Cant	0.200 (2L/360)	0.006 (1%)	L	LL
TL Cant	-0.001 (2L/4340)	Lt Cant	0.300 (2L/360)	0.005 (0%)	D+L	LL

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.003", Long Term = 0.004"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	0-3-4		Far Face	43 lb	170 lb	0 lb	0 lb	0 lb	J4
2	Part. Uniform	0-10-7 to 4-10-7		Near Face	-27 PLF	199 PLF	0 PLF	0 PLF	0 PLF	
3	Point	1-10-7		Far Face	180 lb	720 lb	0 lb	0 lb	0 lb	J4
4	Point	1-10-7		Near Face	0 lb	0 lb	-134 lb	0 lb	0 lb	J1
5	Part. Uniform	3-1-9 to 4-5-15		Far Face	187 PLF	749 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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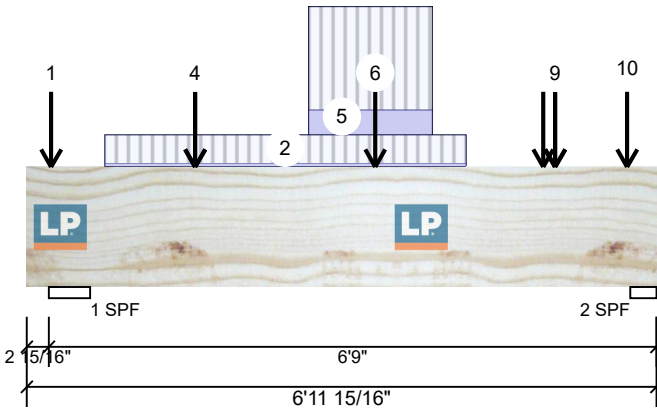
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FB3-A LP-LVL 2900Fb-2.0E 1.750" X 16.000" 2-Ply - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Point	3-10-7		Near Face	0 lb	-2 lb	-123 lb	0 lb	0 lb	J1
7	Point	5-8-14		Far Face	161 lb	566 lb	0 lb	0 lb	0 lb	J4
8	Point	5-10-7		Near Face	-59 lb	391 lb	0 lb	0 lb	0 lb	J1
9	Point	5-10-7		Near Face	0 lb	-2 lb	-131 lb	0 lb	0 lb	J1
10	Point	6-8-1		Far Face	166 lb	453 lb	0 lb	0 lb	0 lb	J4
	Self Weight				16 PLF					

Notes

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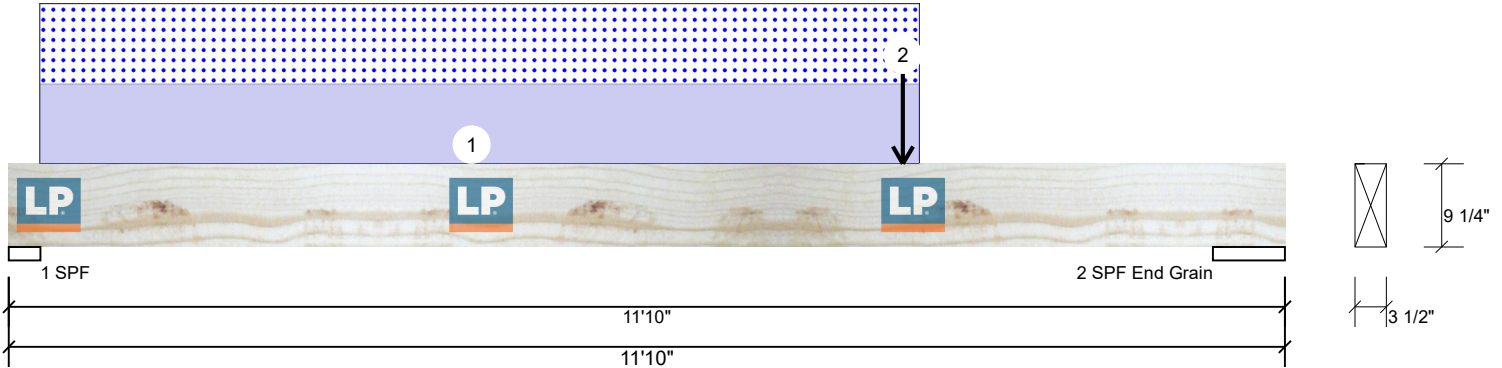
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U.S. LUMBER

DB1-A LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Flr



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IRC 2012
Load Sharing:	No
Deck:	Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	837	777	0	0
2	0	727	664	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	31%	837 / 777	1614	L	D+S
2 - SPF	8.000"	6%	727 / 664	1390	L	D+S
End Grain						

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4730 ft-lb	6' 7/16"	11647 ft-lb	0.406 (41%)	D+S	L
Shear	1413 lb	1'	10177 lb	0.139 (14%)	D+S	L
LL Defl inch	0.150 (L/883)	5'9 9/16"	0.367 (L/360)	0.410 (41%)	S	L
TL Defl inch	0.309 (L/427)	5'9 9/16"	0.550 (L/240)	0.560 (56%)	D+S	L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.160", Long Term = 0.240"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-3-8 to 8-5-3		Top	135 PLF	0 PLF	135 PLF	0 PLF	0 PLF	
2	Point	8-3-8		Top	342 lb	0 lb	342 lb	0 lb	0 lb	PL1
	Bearing Length	0-3-8								
	Self Weight				10 PLF					

Notes

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