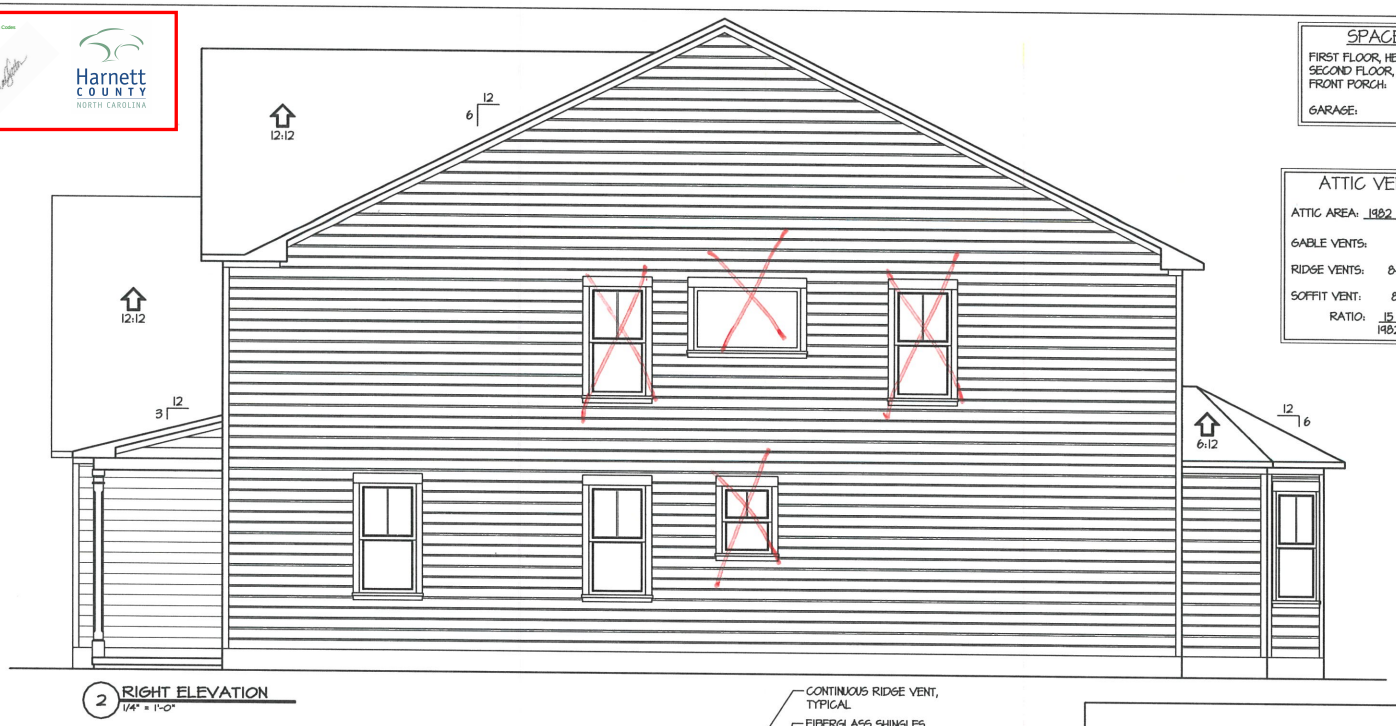
FO 314

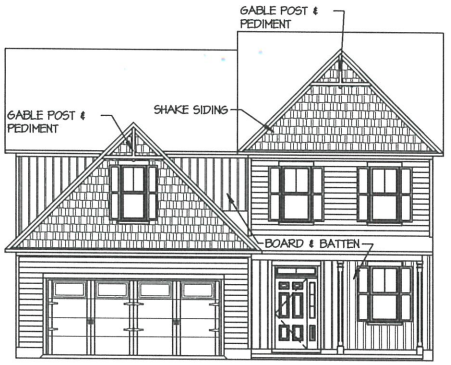
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.
APPROVED
Limited building only review
Permit holder responsible for full compliance with the code
02/02/2021
Harnett COUNTY NORTH CAROLINA



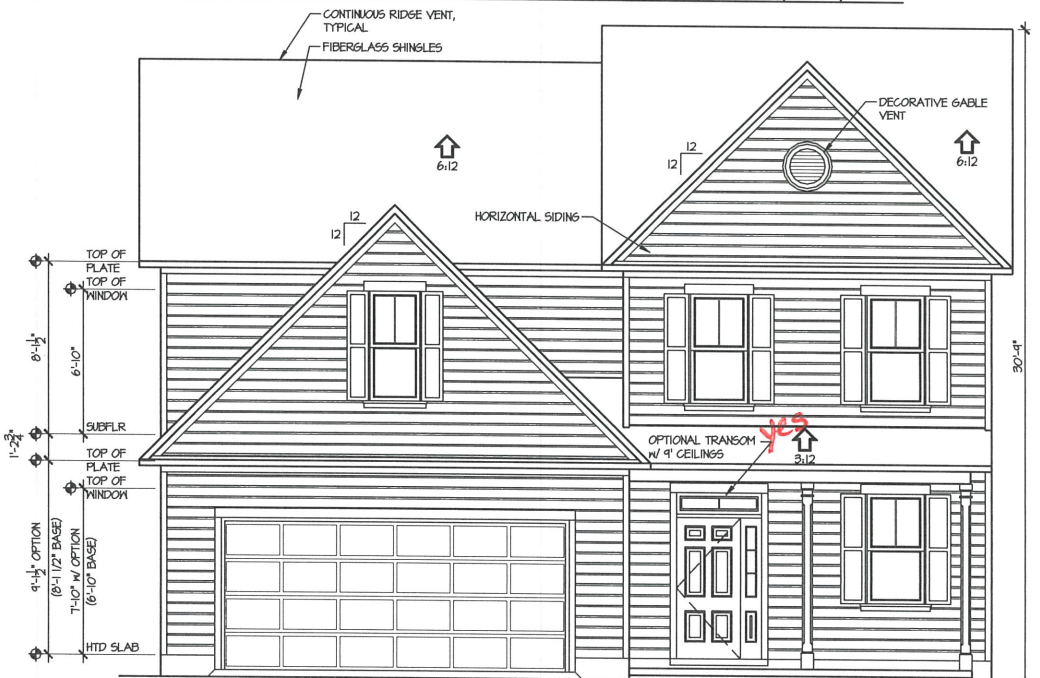
2 RIGHT ELEVATION
1/4" = 1'-0"

SPACE DATA	
FIRST FLOOR, HEATED:	1502 SF
SECOND FLOOR, HEATED:	1685 SF
FRONT PORCH:	80 SF
GARAGE:	480 SF

ATTIC VENT CALC'S.	
ATTIC AREA: 1982 S.F.	
GABLE VENTS:	N/A
RIDGE VENTS:	84 L.F. / 10.5 S.F. (67%)
SOFFIT VENT:	87 L.F. / 5.0 S.F. (33%)
RATIO:	15/1982 = 1/132



1a FRONT ELEVATION
1/8" = 1'-0" OPTION



1 FRONT ELEVATION
1/4" = 1'-0"

CHECK APPROPRIATE BOX (FIRST FLOOR)

☐ 8' CEILINGS

☐ 9' CEILINGS
ON 9' CEILINGS UPGRADE ALL FIRST FLOOR WINDOWS SHOWN AS 2/8x5/2 TO 2/8x6/0 WINDOWS (8 SINGLES / 1 TWIN / 1 TRIPLE)

Carolina Residential Design

TODD TUCKER
Professional Member
American Institute of Building Design
Institute of Classical Architecture
191 S GREEN STREET
PARKTON, NC 28371
(910) 425-7191

NATIONAL COUNCIL OF BUILDING DESIGNER CERTIFICATION
TODD TUCKER 34 - 156

Caviness Land

ELEVATIONS

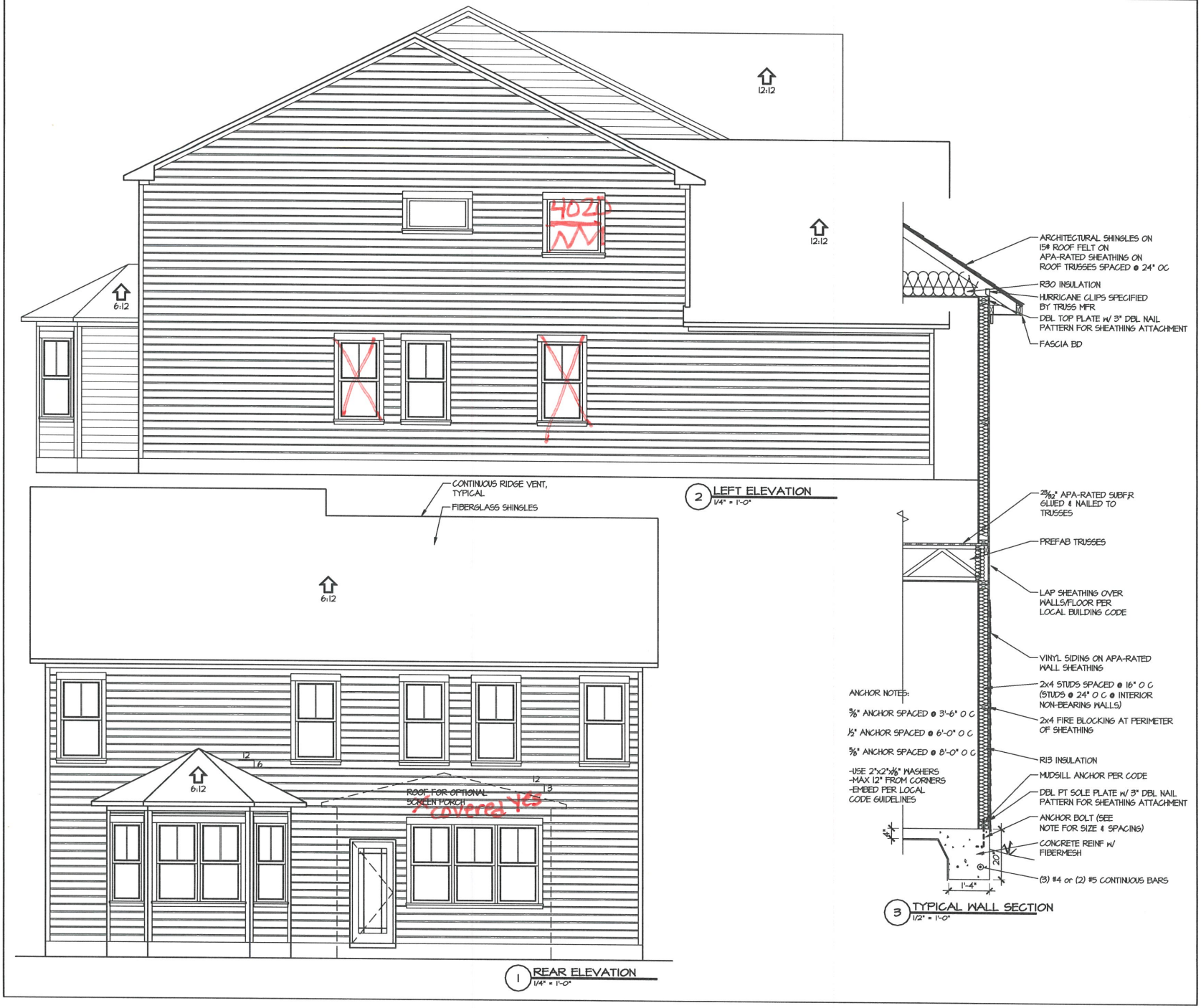
SCALE: AS NOTED

DATE: FEBRUARY 2014

PLAN: CL 3187

LOT NO:

SHEET NO: A-1



Carolina Residential Design

TODD TUCKER
Professional Member
American Institute of Building Design
Institute of Classical Architecture

191 S GREEN STREET
PARKTON, NC 28371
(910) 425-7894

NATIONAL COUNCIL OF BUILDING DESIGNER CERTIFICATION

TODD TUCKER 34 - 156

Caviness Land

ELEVATIONS

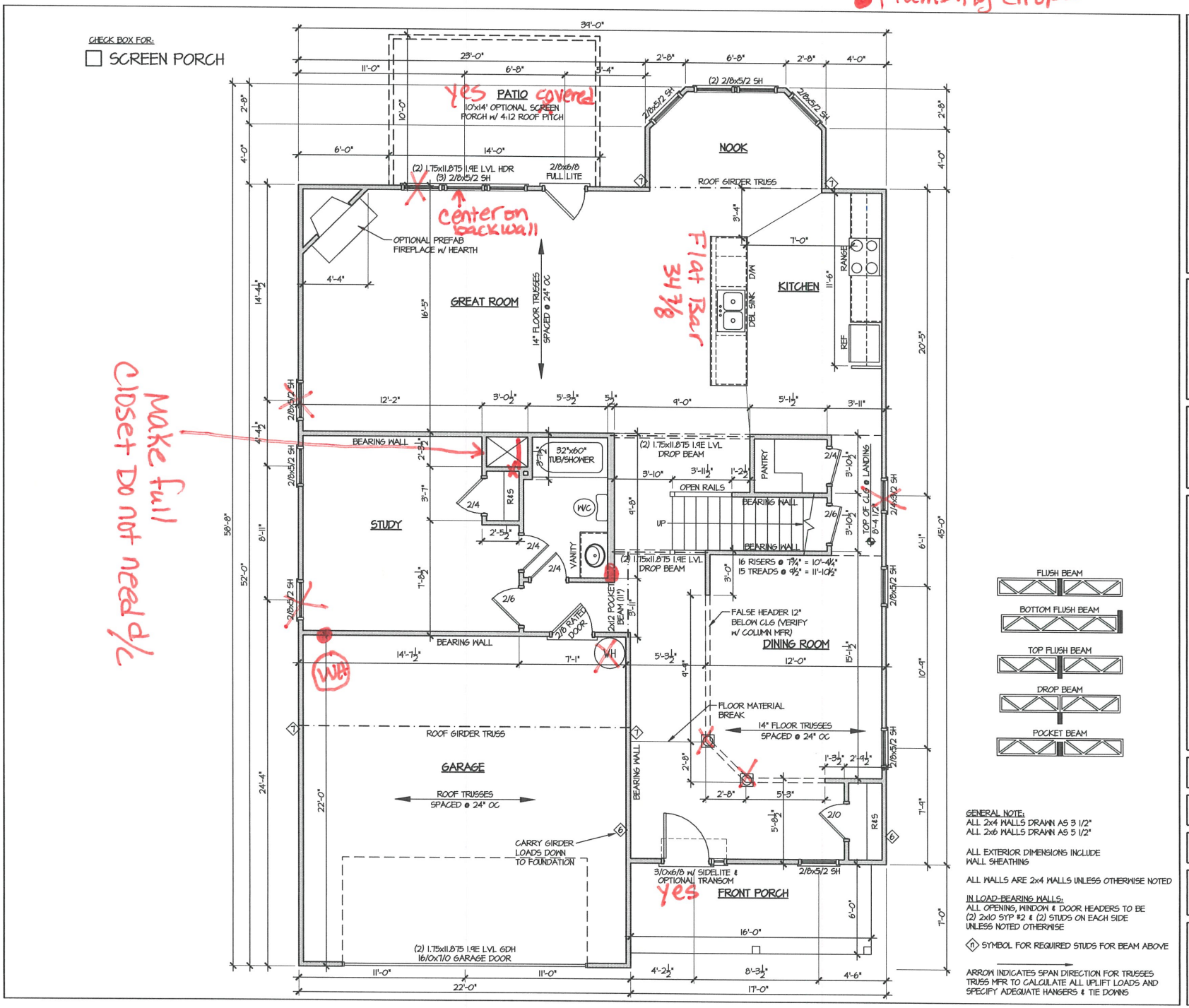
SCALE: AS NOTED

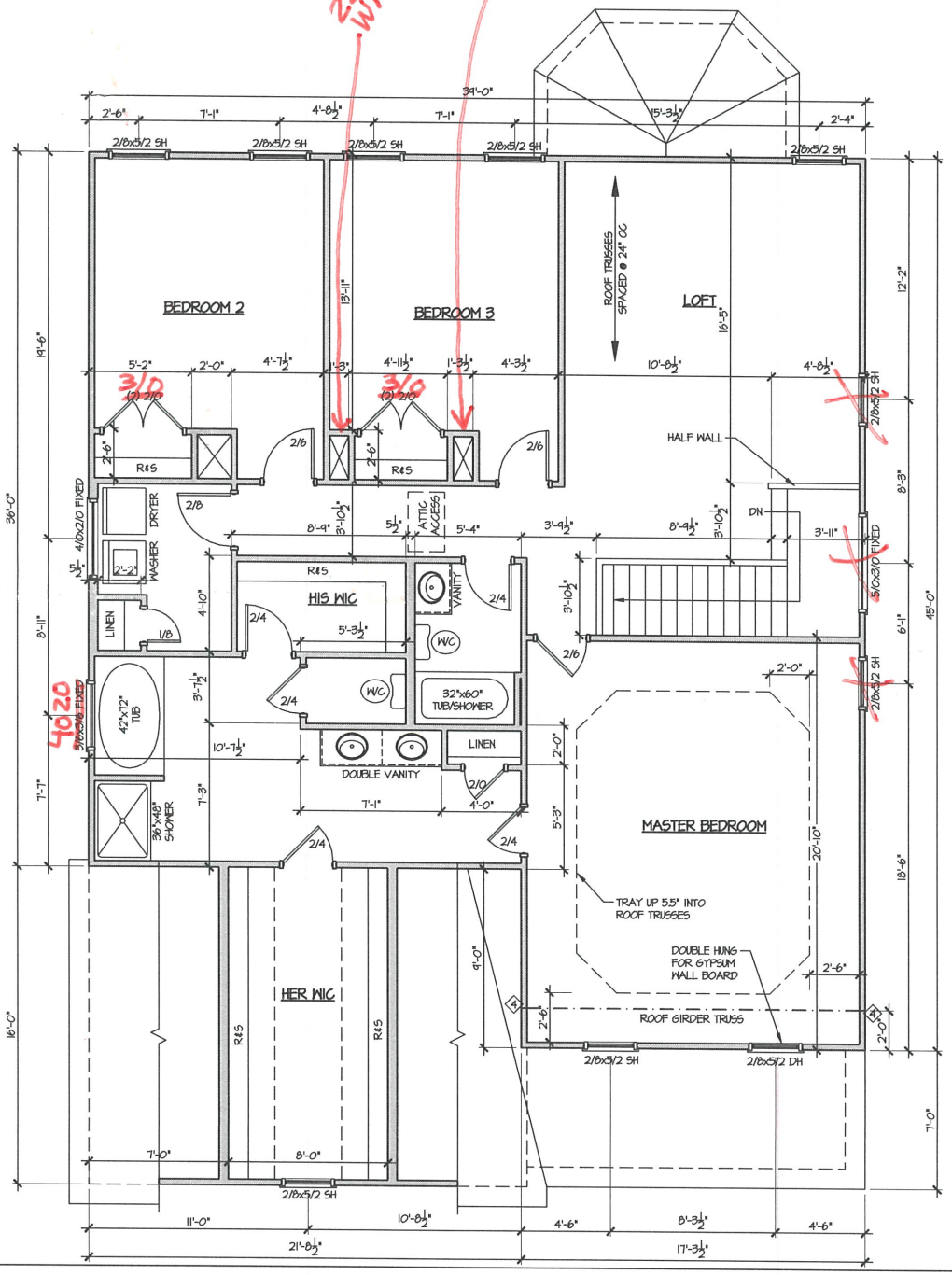
DATE: FEBRUARY 2014

PLAN: CL 3187

LOT NO:

SHEET NO: A-2





Carolina Residential Design

TODD TUCKER
Professional Member
American Institute of Building Design
Institute of Classical Architecture

111 S GREEN STREET
PARKTON, NC 28371
(910) 425-7494

NATIONAL COUNCIL OF BUILDING DESIGNER CERTIFICATION

TODD TUCKER 34 - 156

Caviness Land

SECOND FLOOR PLAN

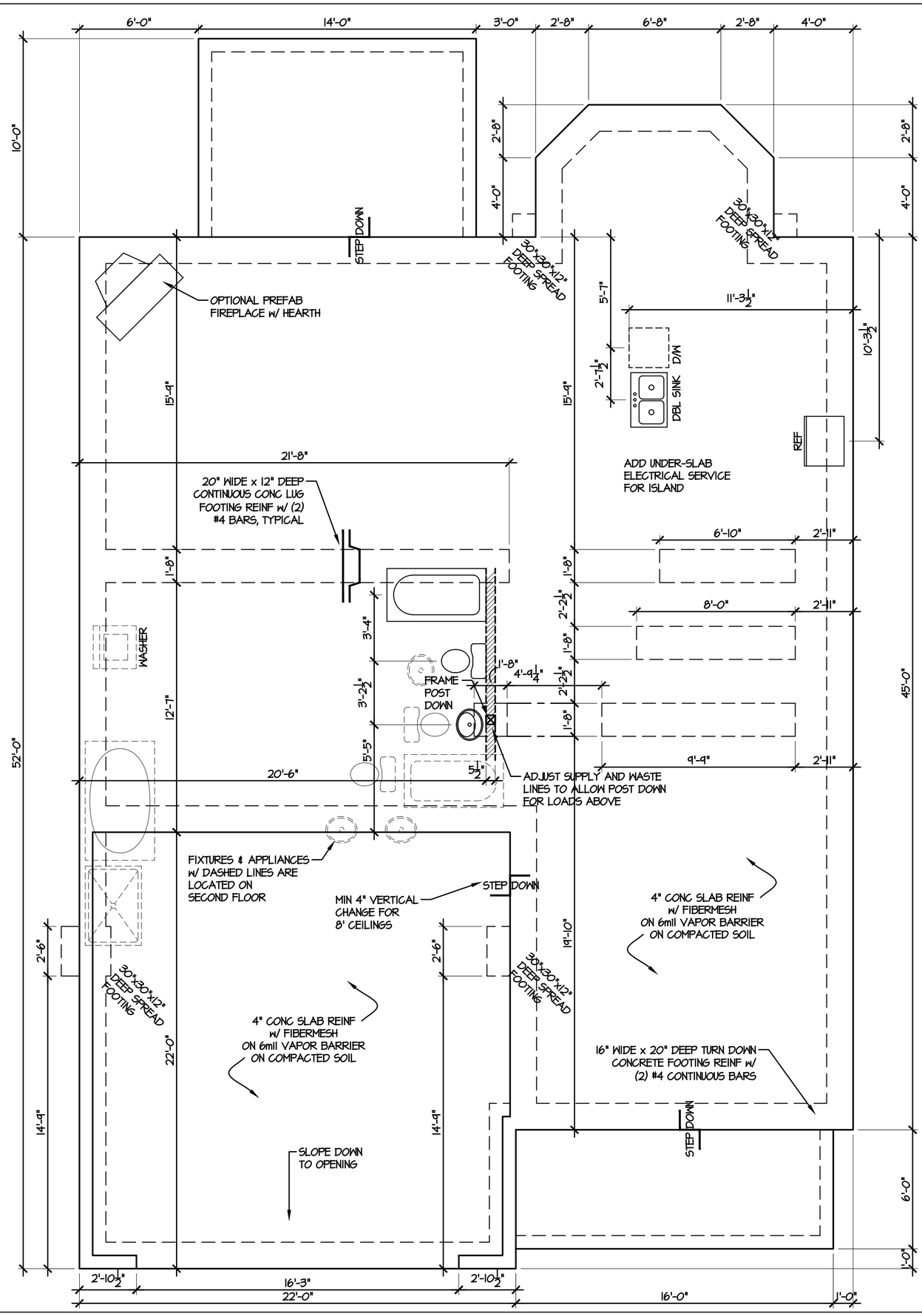
SCALE: AS NOTED

DATE: FEBRUARY 2014

PLAN: CL 3187

LOT NO:

SHEET NO: A-5



Carolina Residential Design

TODD TUCKER
Professional Member
American Institute of Building Design
Institute of Classical Architecture

191 S GREEN STREET
PARKTON, NC 28371
(910) 425-7939

NATIONAL COUNCIL OF BUILDING DESIGNER CERTIFICATION

TODD TUCKER 34 - 156

Caviness Land

FOUNDATION

SCALE: AS NOTED

DATE: FEBRUARY 2014

PLAN: CL 3187

LOT NO:

SHEET NO: A-3

GENERAL NOTES:

DO NOT CUT OR MODIFY TRUSSES.

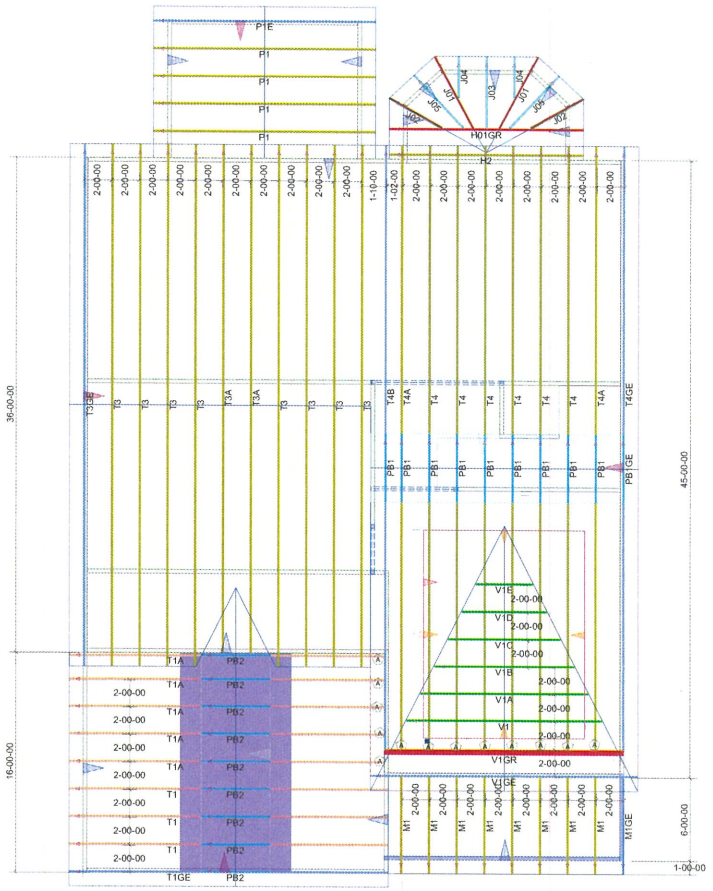
TRUSSES ARE SPACED 24" ON CENTER UNLESS NOTED OTHERWISE.

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 RECCOMENDS 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.

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

ORDER: Order #



Hardware List:

A	13	HUS26
B	999	HUS28-2
C	999	######
D	999	######
	999	H2.5A
	999	TBE4
	999	SUPER ANCHOR

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
FAX: 910-892-8384

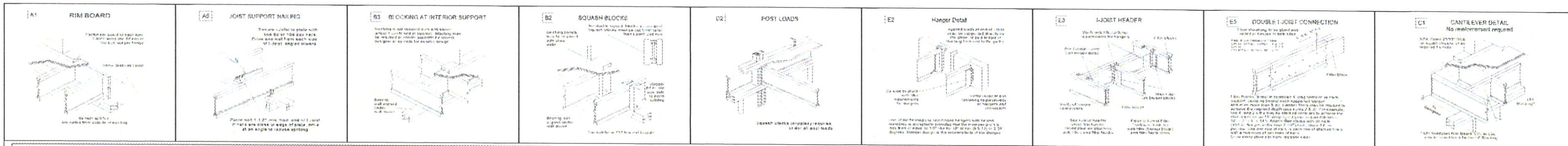
PROJECT: CL-3187

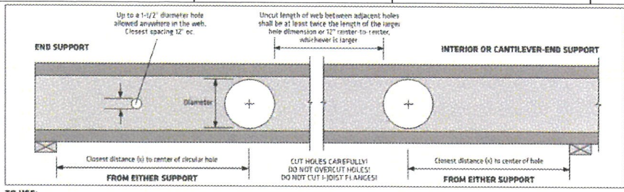
CUSTOMER: CAVINESS LAND

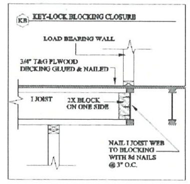
MODEL: CL- 3187 W CP GOL

SCALE: NOT TO SCALE | P.O. NUMBER: PO # | ORDER: Order #

DRAWN BY: User designed roof truss | PRINT DATE: Approved | REV: datetime | SHIP DATE: Schd Delivery







TO USE:

1. Select the required series and depth.
2. Determine the support condition for the nearest bearing: end support or interior support (including cantilever-end supports).
3. Select the row corresponding to the required Clear Span. For spans between those listed, use the next largest value.
4. Select the column corresponding to the required hole diameter. For diameters between those listed, use the next largest value.
5. 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.
6. 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'-9"	3'-1"	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"

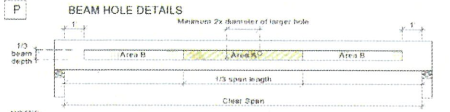
DESIGN ASSUMPTIONS:

1. 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" oc).
2. Hole location is measured from the inside face of bearing to the center of a circular hole, from the closest support.
3. 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.
4. 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.
5. Holes cannot be located in the span where designated "-", without further analysis by a design professional.

NOTES:

1. 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.
2. Round holes up to 1-1/2" diameter may be placed anywhere in the web.
3. Perforated "knockouts" may be neglected when locating web holes.
4. Holes larger than 1-1/2" are not permitted in cantilevers without special engineering.
5. 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.
6. 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.
7. 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.

P BEAM HOLE DETAILS



NOTES

1. 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.
2. 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."
3. Rectangular holes are NOT allowed.
4. DO NOT drill holes in cantilevers without prior approval from the project designer.
5. Other hole sizes and configurations MAY be possible with further engineering analysis. For more information, contact your LP SolidStart Engineered Wood Products distributor.
6. 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.
7. Protect plumbing 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.

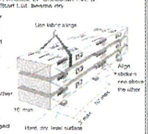
These instructions are offered as a guide to good practice in the handling, storage and installation of LP® SolidStart® I-Joists, LP SolidStart LVL & LP SolidStart LSL beams. They are, however, solely general recommendations and, in some instances, other or additional precautions may be desirable. In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

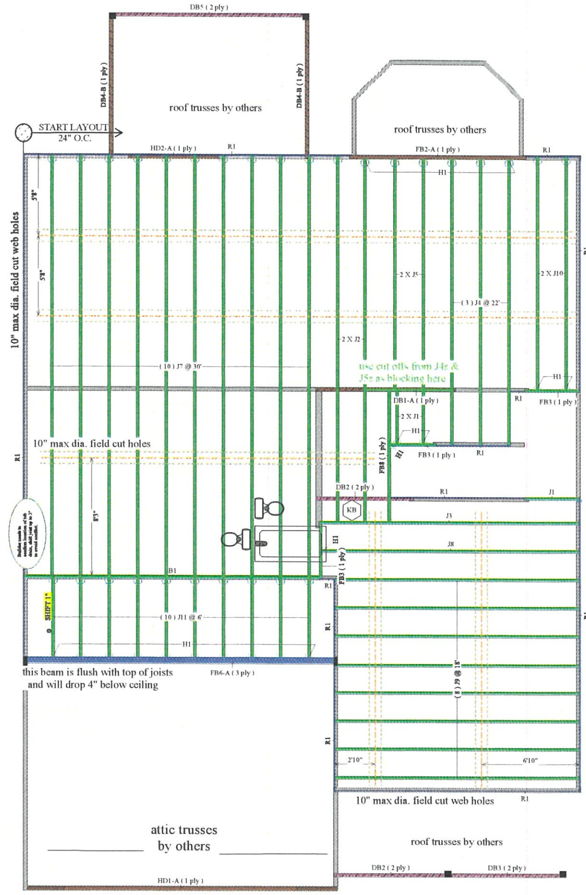
- This is not intended as a manual for selecting products and assumes that components and details have been specified correctly.
- Consult the LP SolidStart I-Joist, LP SolidStart LVL & LP SolidStart LSL brochures or contact your LP SolidStart products distributor for assistance.
- All rim joists, blocking, connections and temporary bracing must be installed before erectors 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.





2ND FLOOR FRAMING

SCALE: 1/4" = 1'

2nd Floor							
I Joist (Flush)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB8	LPI 20Plus	2.5	14			1	10-0-0
FB3	LPI 20Plus	2.5	14			3	4-0-0
J7	LPI 20Plus	2.5	14			10	30-0-0
J2	LPI 20Plus	2.5	14			2	26-0-0
J4	LPI 20Plus	2.5	14			3	22-0-0
J3	LPI 20Plus	2.5	14			1	20-0-0
J10	LPI 20Plus	2.5	14			2	18-0-0
J9	LPI 20Plus	2.5	14			8	18-0-0
J8	LPI 20Plus	2.5	14			1	18-0-0
J5	LPI 20Plus	2.5	14			2	18-0-0
J11	LPI 20Plus	2.5	14			10	6-0-0
J1	LPI 20Plus	2.5	14			3	4-0-0
LVL/LSL (Flush)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB2-A	LP-LSL 1.55E	3.5	14			1	14-0-0
FB6-A	LP-LVL 2900Fb-2.0E	1.75	18	1	3	3	22-0-0
LVL/LSL (Dropped)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
DB4-B	LP-LSL 1.55E	3.5	9.25			2	12-0-0
DB1-A	LP-LSL 1.55E	3.5	9.25			1	10-0-0
HD2-A	LP-LSL 1.55E	3.5	9.25			1	8-0-0
HD1-A	LP-LSL 1.55E	3.5	11.875			1	22-0-0
Beam By Others (Dropped)							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
DB5	[2x10]			1	2	2	14-0-0
DB3	[2x10]			1	2	2	10-0-0
DB2	[2x10]			2	2	4	8-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	LP APA Rated OSB 1.125 X 14	1.125	14			13	12-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
B1	LPI 20 Plus	2.5	14	LinFt		Varies	19-0-0

Hanger

Label	Pcs	Description	Skew	Slope	Beam/Girder fasteners	Supported Member fasteners
H1	22	IUS2.56/14 (Min)			12 10dx1 1/2	

U.S. LUMBER

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

LP BUILDING PRODUCTS

84 LUMBER Build on what we know™

Dealer	84 Lumber-Fayetteville #2307
Dealer Address	620 Belt Road, Fayetteville, NC 28301, (910) 867-9185
Project	CL3187 GL CP
Created	January 22, 2015
Layout Name	CL3187 GL CP
Description	Caviness Land CL3187 GL CP
Designer	Kyle Militzer
Revised	March 26, 2020

2nd Floor

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

- 3.5" Non-Brg Wall
- Wall
- Partition Wall (Non-Load-Bearing)
- Wall Opening
- LP APA Rated OSB 1.125 X 14
- LPI 20Plus 14
- LP-LSL 1.55E 3.5 X 9.25 (Dropped)
- LP-LSL 1.55E 3.5 X 11.875 (Dropped)
- LP-LSL 1.55E 3.5 X 14
- LP-LVL 2900Fb-2.0E 1.75 X 18
- 1.5 X 9.25 (Dropped)

Calculated Structured Designs