

E:\Autodesk Projects 2015\My Projects\CAVINNESS LAND\CL 3187 5-17-19.dwg, 5/17/2019 7:07:40 AM



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

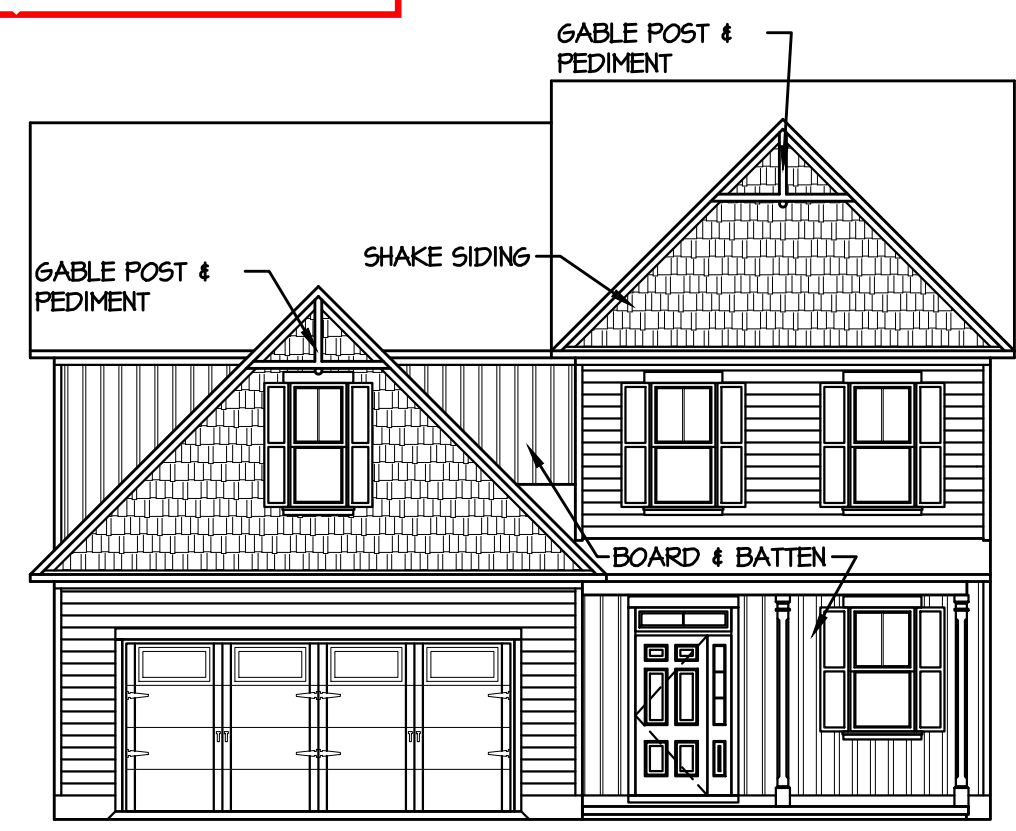
ATTIC VENT CALC'S.	
ATTIC AREA:	1982 S.F.
GABLE VENTS:	N/A
RIDGE VENTS:	84 L.F. / 10.5 S.F. (67%)
SOFFIT VENT:	87 L.F. / 5.0 S.F. (33%)
RATIO:	$\frac{15}{1982} = \frac{1}{132}$

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

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

APPROVED
Central Building & Design
Project holder responsible for full compliance with the code

05/25/2022

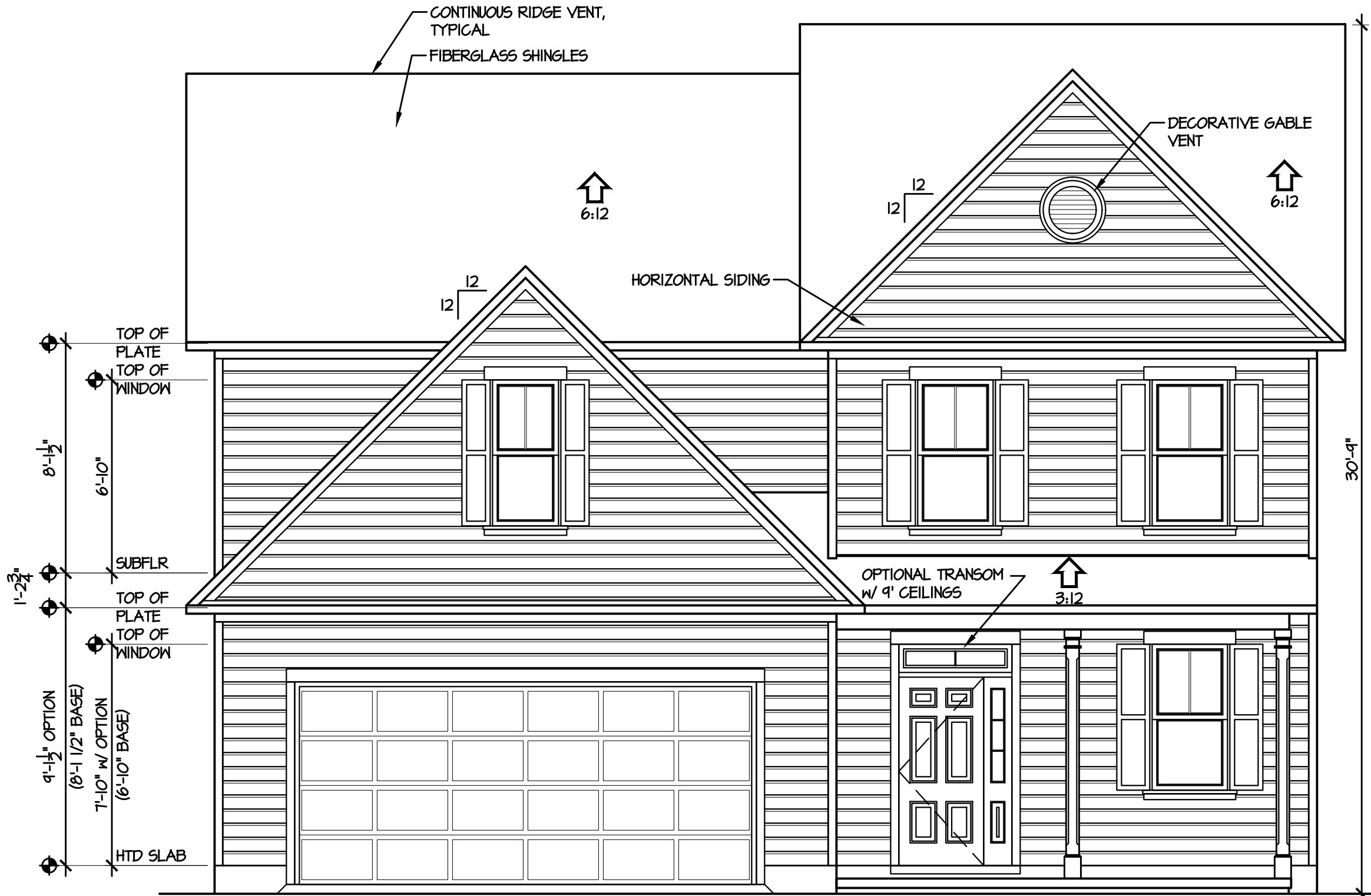


1a FRONT ELEVATION
1/8" = 1'-0" OPTION

CHECK APPROPRIATE BOX (FIRST FLOOR)

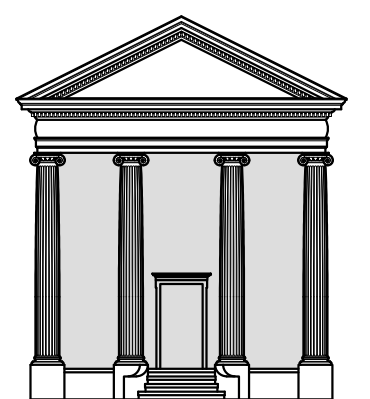
8' CEILINGS

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)

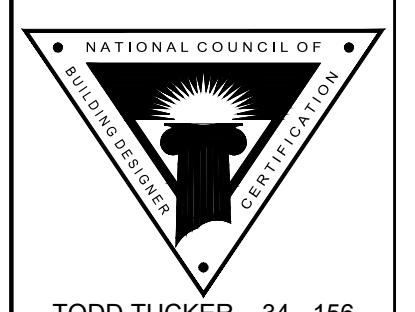


1 FRONT ELEVATION
1/4" = 1'-0"

Carolina Residential Design



TODD TUCKER
Professional Member
American Institute of Building Design
Institute of Classical Architecture
141 S GREEN STREET
PARKTON, NC 28371
(910) 425-1434



TODD TUCKER 34 - 156

THE INFORMATION IN THESE CONSTRUCTION DOCUMENTS IS FOR THE EXCLUSIVE USE OF THE CLIENT IN CONSTRUCTION OF THE BUILDING DESCRIBED IN THE DOCUMENTS. THE DESIGNER HAS ATTEMPTED TO ESTABLISH AN ACCURATE SET OF CONSTRUCTION DOCUMENTS OF THE BUILDING BASED UPON THE CLIENT'S REQUIREMENTS AND THE LOCAL GOVERNING CODES. IF THE CLIENT OBSERVES OR BECOMES AWARE OF ANY FAULT OR DEFECT IN THE PROJECT OR NON-COMFORMANCE WITH THE CONSTRUCTION DOCUMENTS, PROMPT WRITTEN NOTICE SHALL BE GIVEN BY THE CLIENT TO THE DESIGNER. THE CLIENT SHALL HOLD HARMLESS THE DESIGNER FROM ALL ERRORS AND OMISSIONS PERTAINING TO THE DOCUMENTS RELATED TO THE PROJECT AND OTHER RELATED WORK AS REPRESENTED BY THE DESIGNER TO THE CLIENT.

Caviness Land ELEVATIONS

SCALE:
AS NOTED

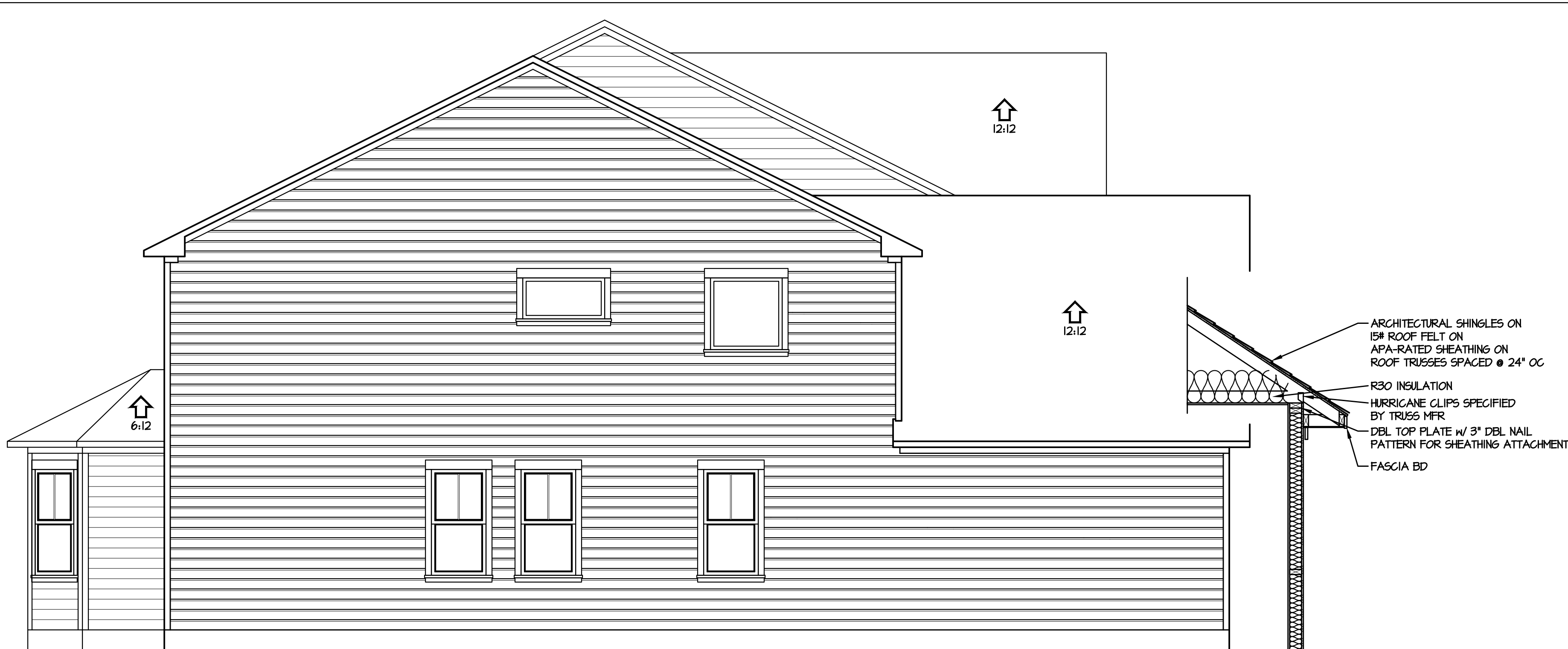
DATE:
FEBRUARY 2014

PLAN:
CL 3187

LOT NO:

SHEET NO:
A-1

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NATIONAL COUNCIL OF BUILDING DESIGNERS

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Caviness Land

ELEVATIONS

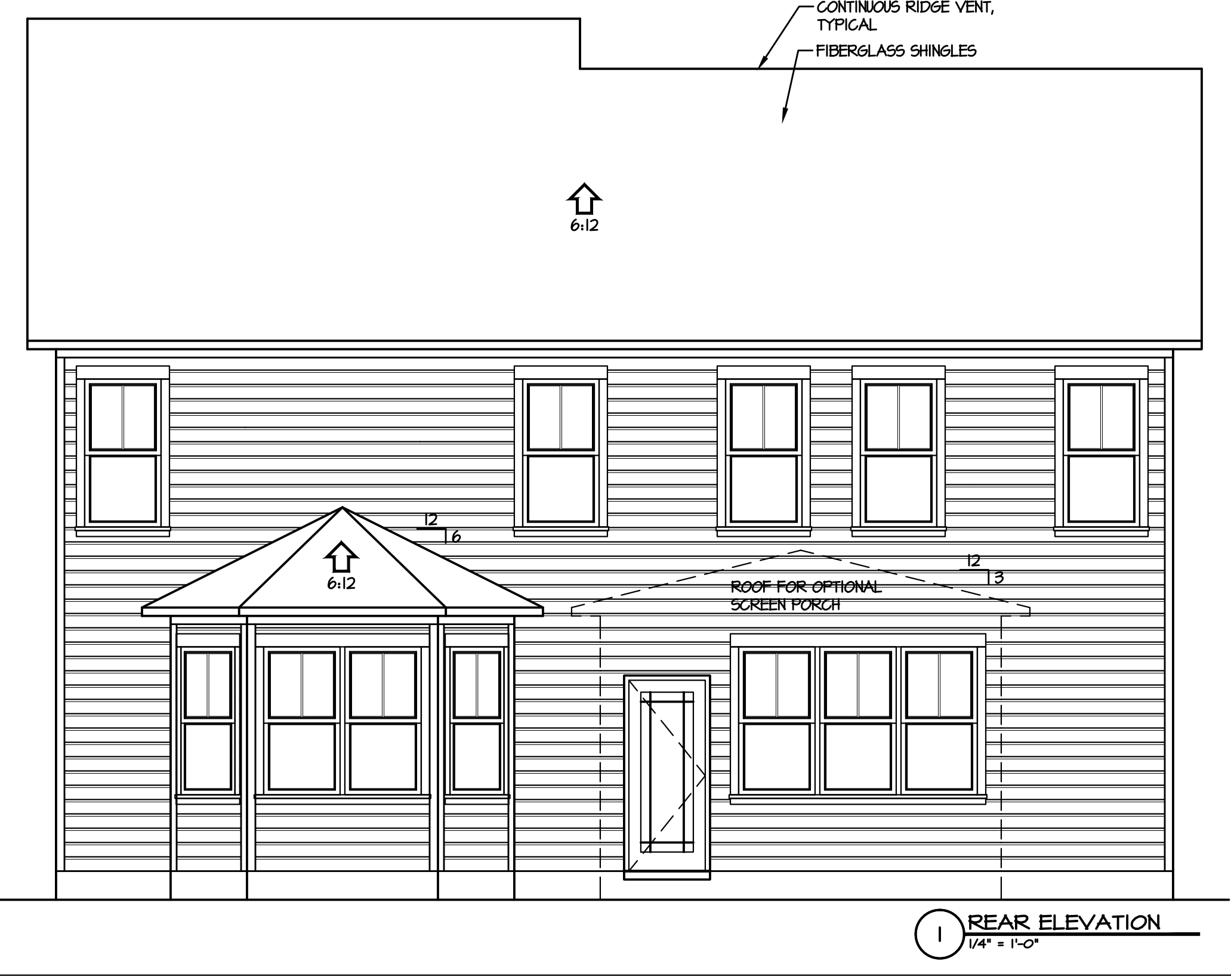
SCALE:
AS NOTED

DATE:
FEBRUARY 2014

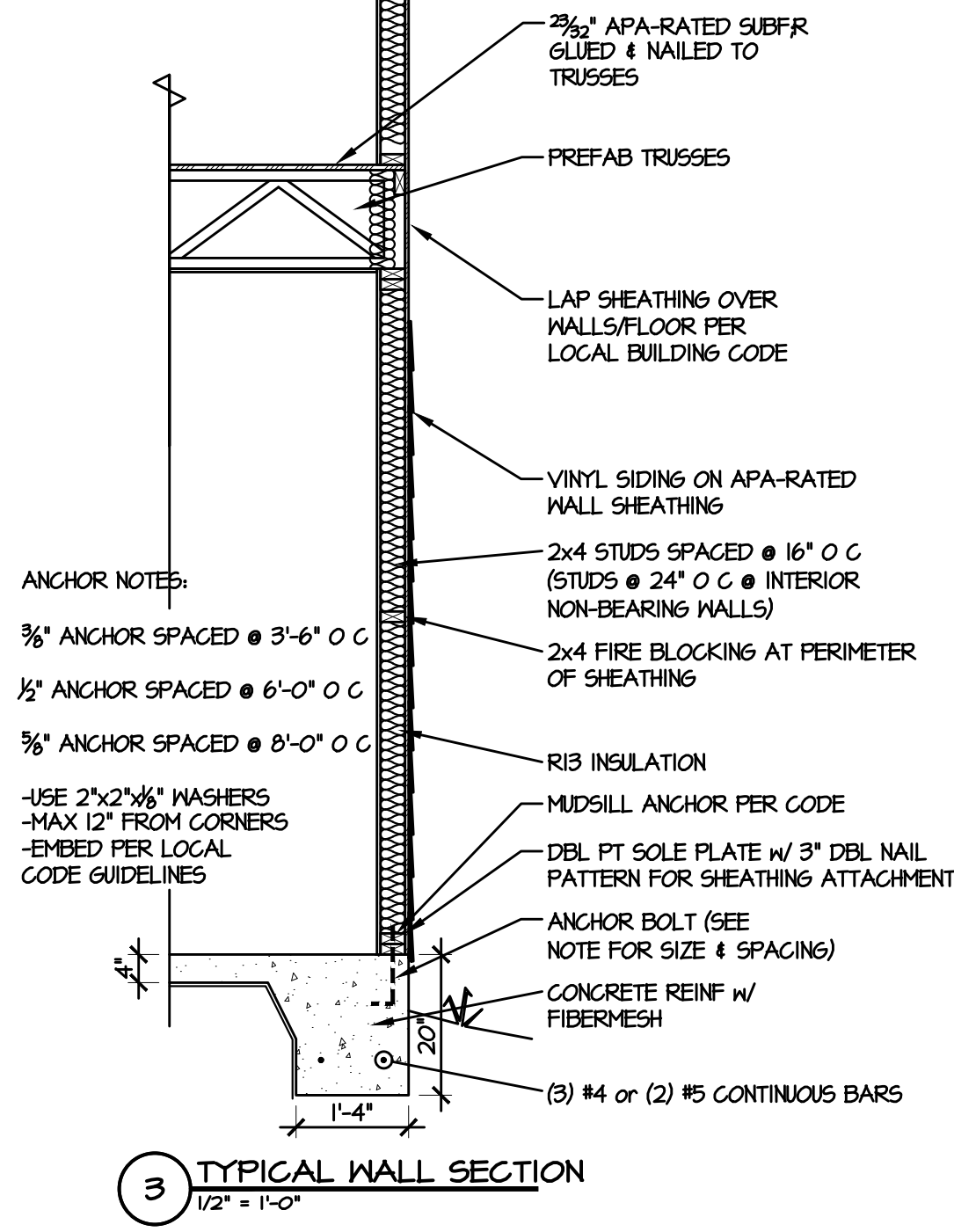
PLAN:
CL 3187

LOT NO:

SHEET NO:
A-2

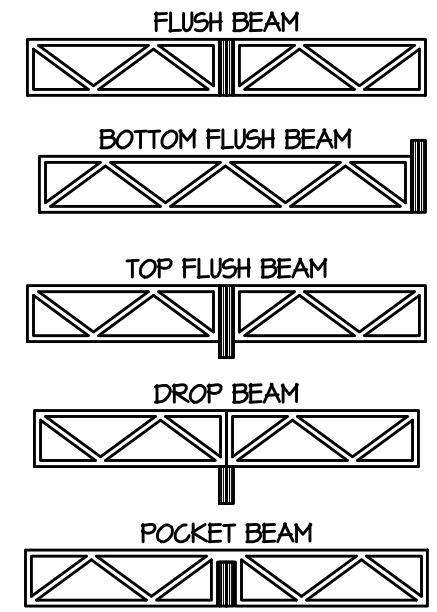
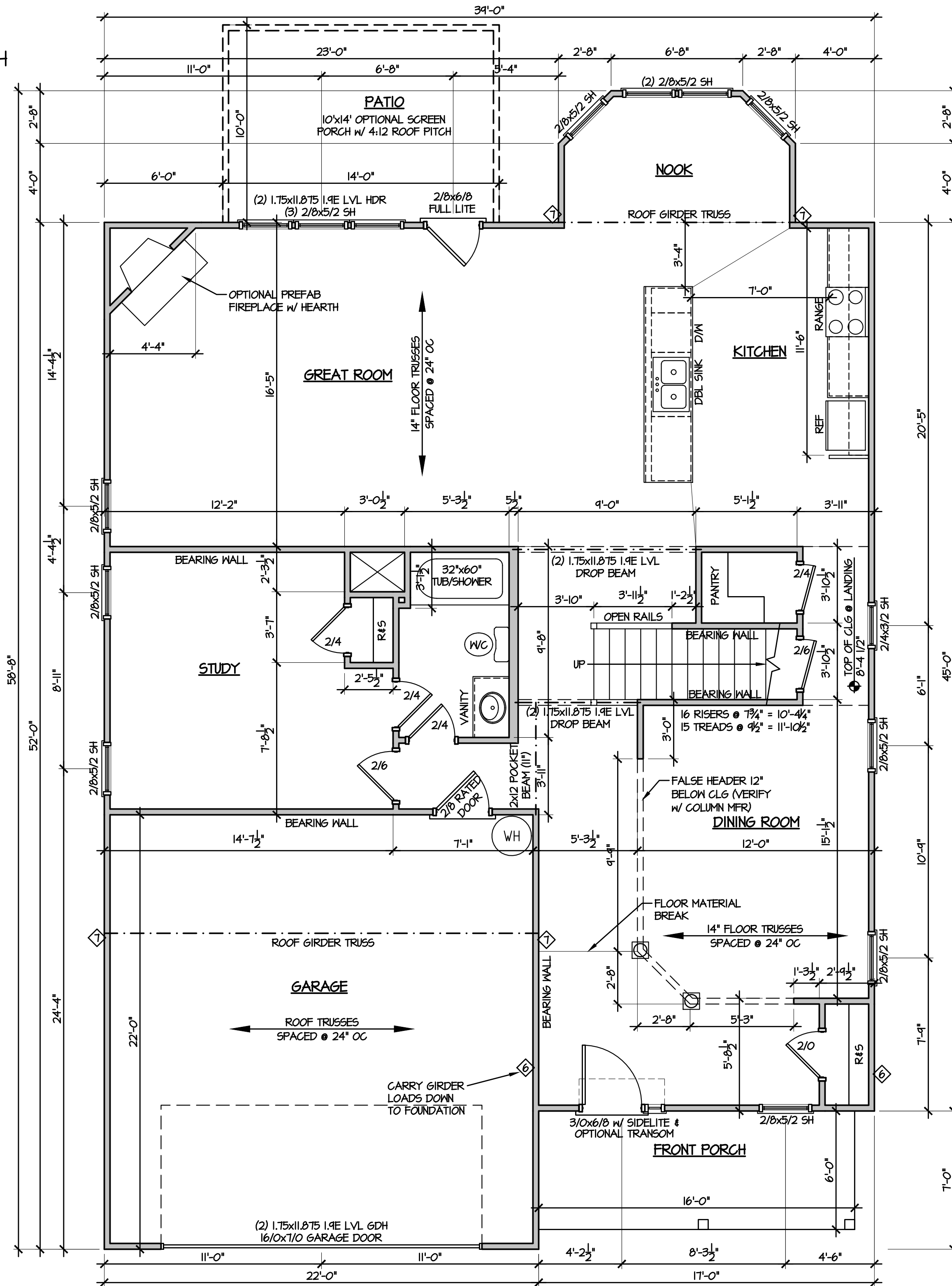


2 LEFT ELEVATION
1/4" = 1'-0"



SHEET NO:
A-2

CHECK BOX FOR:
 SCREEN PORCH



GENERAL NOTE:
 ALL 2x4 WALLS DRAWN AS 3 1/2"
 ALL 2x6 WALLS DRAWN AS 5 1/2"

ALL EXTERIOR DIMENSIONS INCLUDE WALL SHEATHING

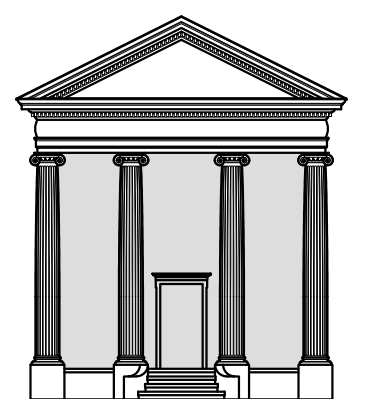
ALL WALLS ARE 2x4 WALLS UNLESS OTHERWISE NOTED

IN LOAD-BEARING WALLS:
 ALL OPENING, WINDOW & DOOR HEADERS TO BE
 (2) 2x10 SYP #2 & (2) STUDS ON EACH SIDE
 UNLESS NOTED OTHERWISE

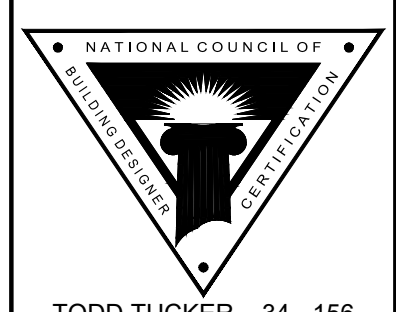
◇ SYMBOL FOR REQUIRED STUDS FOR BEAM ABOVE

ARROW INDICATES SPAN DIRECTION FOR TRUSSES
 TRUSS MFR TO CALCULATE ALL UPLIFT LOADS AND
 SPECIFY ADEQUATE HANGERS & TIE DOWNS

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**Caviness
 Land**

FIRST FLOOR PLAN

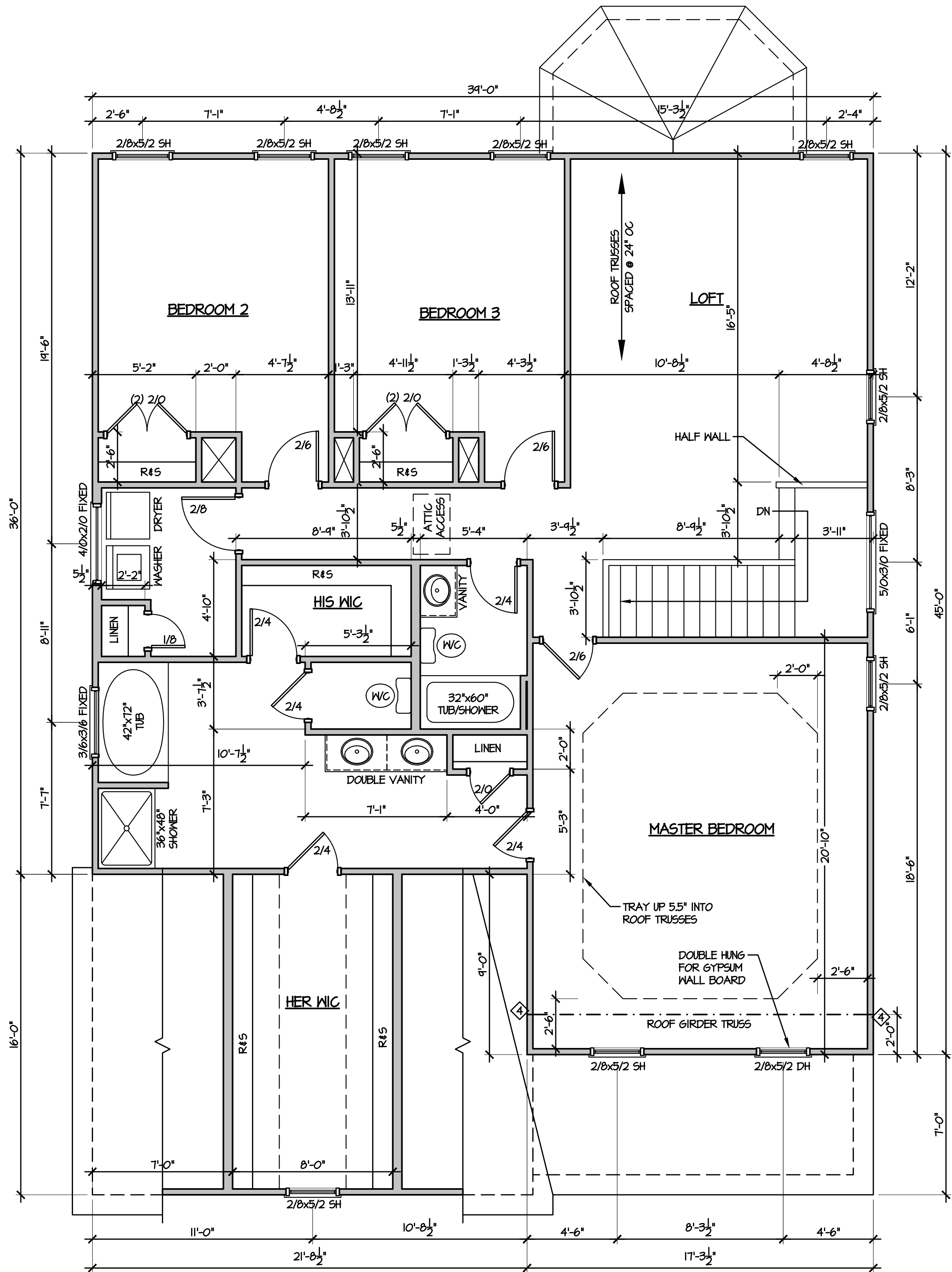
SCALE:
 AS NOTED

DATE:
 FEBRUARY 2014

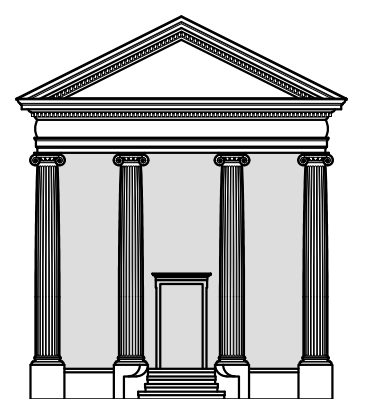
PLAN:
 CL 3187

LOT NO:

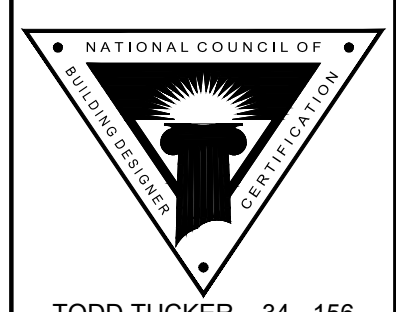
SHEET NO:
A-4



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Caviness Land

SECOND FLOOR PLAN

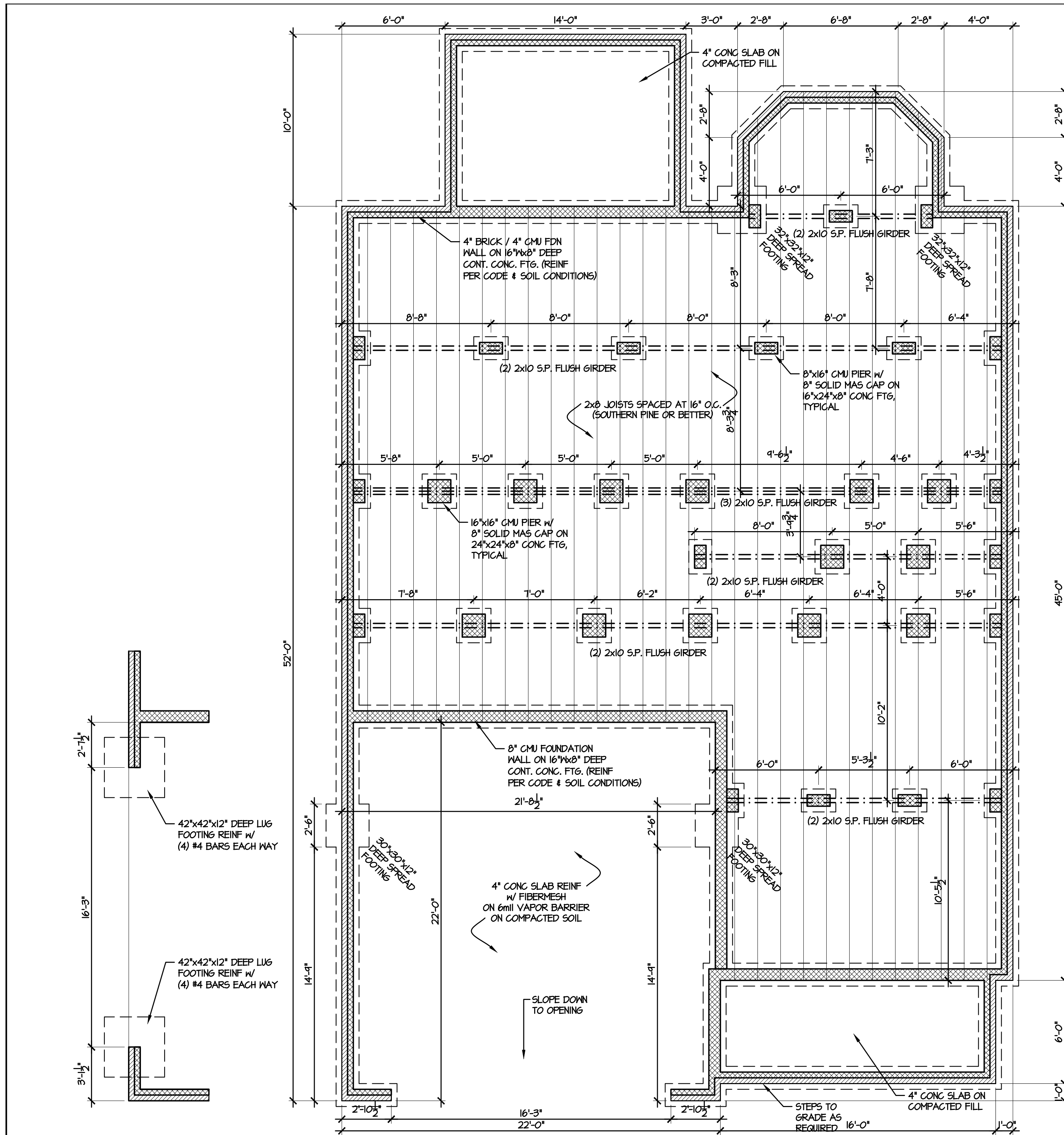
SCALE:
AS NOTED

DATE:
FEBRUARY 2014

PLAN:
CL 3187

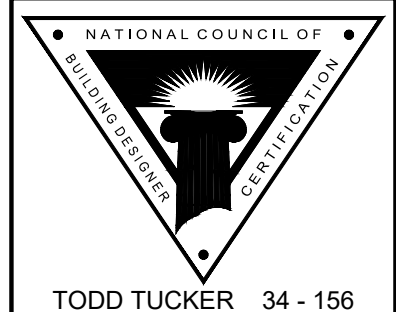
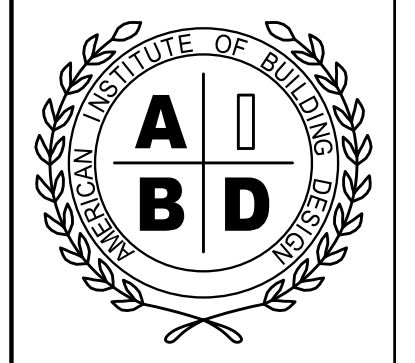
LOT NO:

SHEET NO:
A-5



VENTILATION NOTES:
 CRAWL SPACE AREA: 1344 S.F.
 1500 S.F. PER 1 S.F. VENTS = 0.93 S.F.
 REQUIRED VENTS W/ V.B. + ONE VENT WITHIN 3' OF EA. CORNER = 4 VENT

- FOUNDATION PLAN NOTES:**
1. DOUBLE JOISTS UNDER ALL PARTITIONS
 2. SILL TO BE P.T. WOOD 2x6
 3. MAINTAIN MIN 12" BELOW GIRDERS & 18" BELOW JOISTS TO GRADE OR AS REQUIRED FOR MECHANICAL EQUIPMENT
 4. PROVIDE VAPOR BARRIER AT CRAWL SPACE
 5. FOUNDATION VENTS TO BE 8"HT.x16"WD. W/ 50 SQ. IN. MIN. FREE VENT AREA
 6. CRAWL SPACE ACCESS TO BE 22"x36" MIN CLEAR OPENING (FIELD LOCATE)
 7. GIRDERS TO BE FLUSH FRAMED (SIZE AS NOTED)
 8. ANCHOR BOLTS @ 6'-0" O.C. AND 1'-0" FROM EACH CORNER (EMBED 8" MIN. IN SOLID GROUT) [CHECK DEPTH FOR HIGH WIND ZONES]
 9. GC TO REVIEW TRUSS SHOP DRAWINGS & NOTIFY DESIGNER IF REQUIRED POINT LOAD PIERS OR BEARING WALLS ARE ADDED TO FOUNDATION PLAN
 10. FRAMING SPANS BASED ON #2 SYP



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FORTIFIED-WISE™ PROFESSIONAL

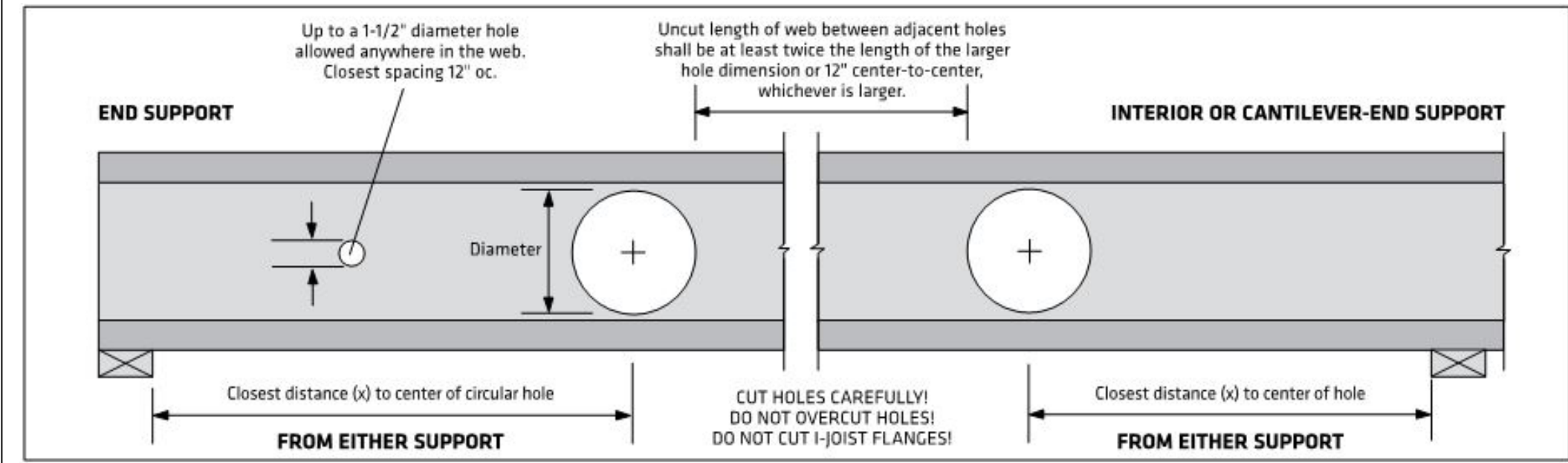
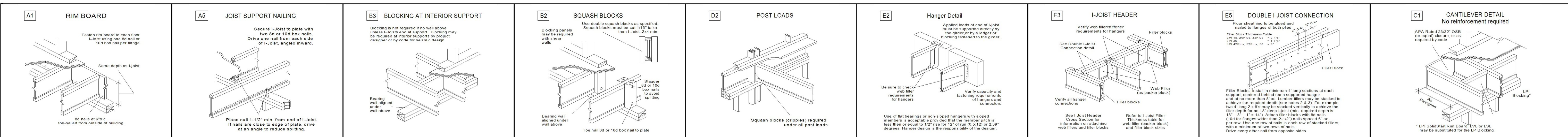
Caviness Land
CRAWL SPACE PLAN
 SHEET TITLE:

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

DATE:
 FEBRUARY 2014

PLAN NO:
 CL 3187

4/21/2020
 SHEET NO:
3



- 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.

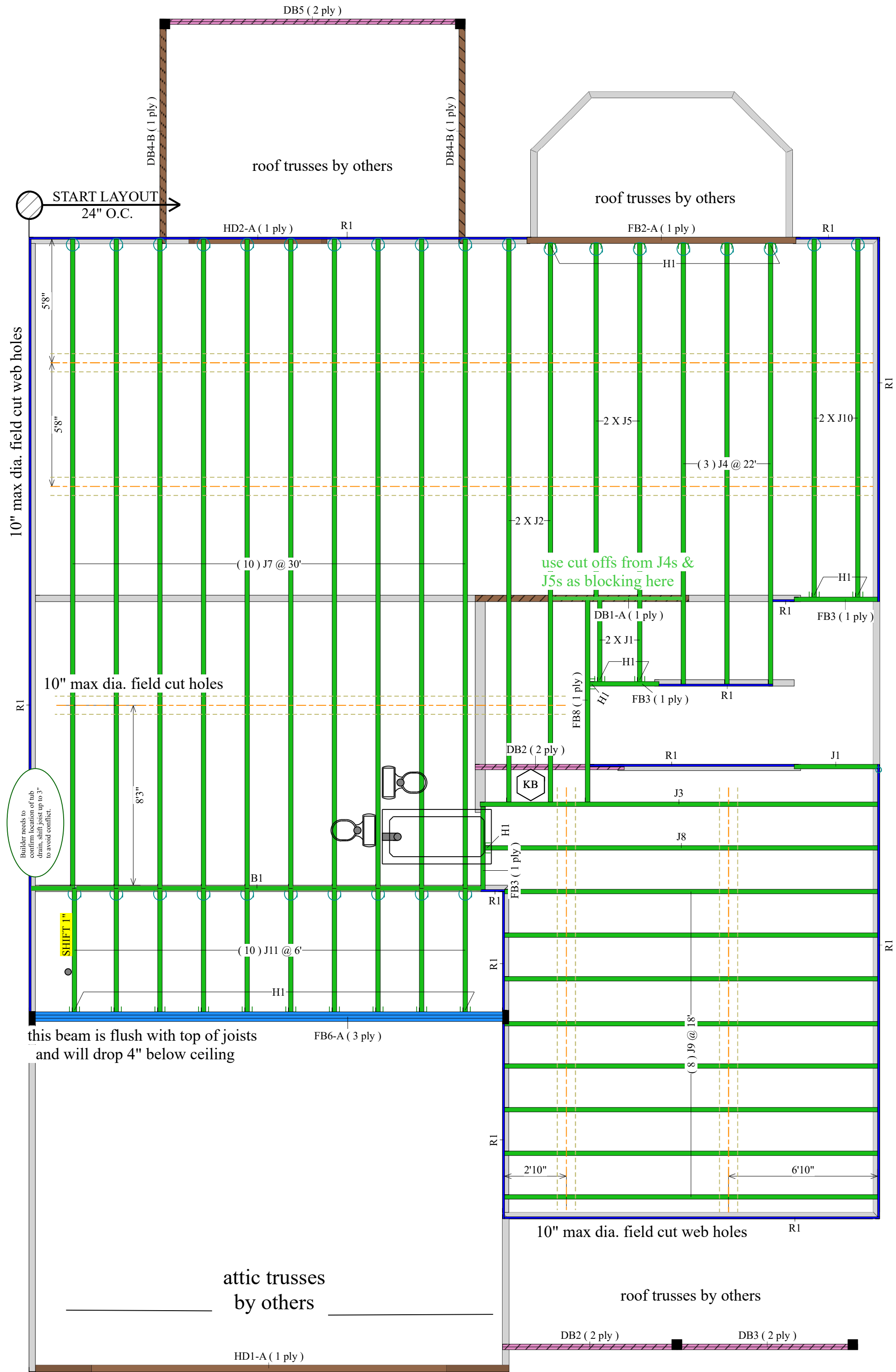
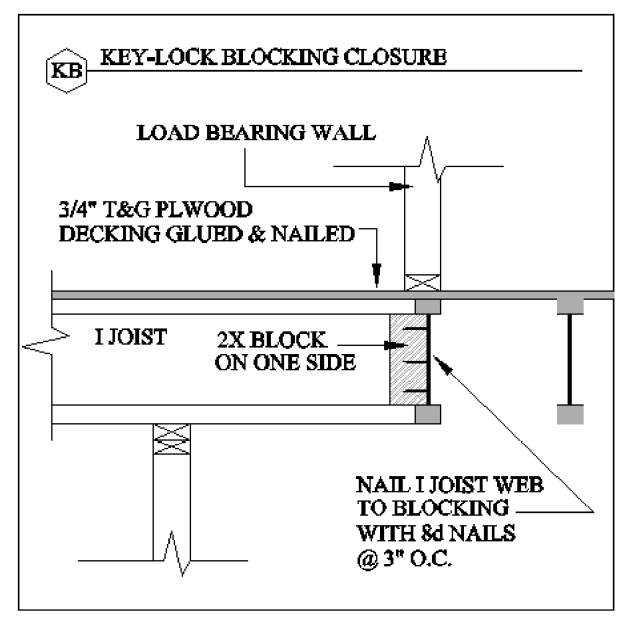
Depth	Clear Span (ft)	Distance from End Support						Distance from Interior or Cantilever-End Support					
		Hole Diameter						Hole Diameter					
		2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"
14"	14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	-
	18'	1'-0"	1'-0"	1'-9"	1'-9"	4'-6"	-	1'-8"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



2nd Floor 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			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	

2ND FLOOR FRAMING

SCALE: 1/4" = 1'

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 erection 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.

Use fabric slings
Align stickers one above the other
10' max.
3' max.
Hard, dry, level surface

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

Build on what we know™

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

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 Miltzer

Revised
March 26, 2020

Design Method
ASD (USA)
IRC 2012

Floor

Loads

Live	40
Dead	10

Deflection Joist

LL Span L/	480
TL Span L/	240
TL Cant 2L/	360
TL Cant 2L/	360

Deflection Girder

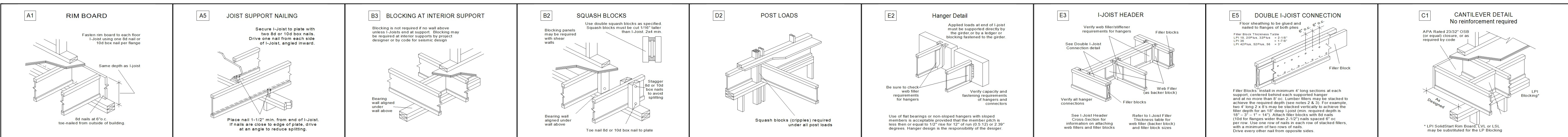
LL Span L/	360
TL Span L/	240
TL Cant 2L/	360
TL Cant 2L/	360

Decking
OSB
23/32 APA Rated Sturd-I-Floor

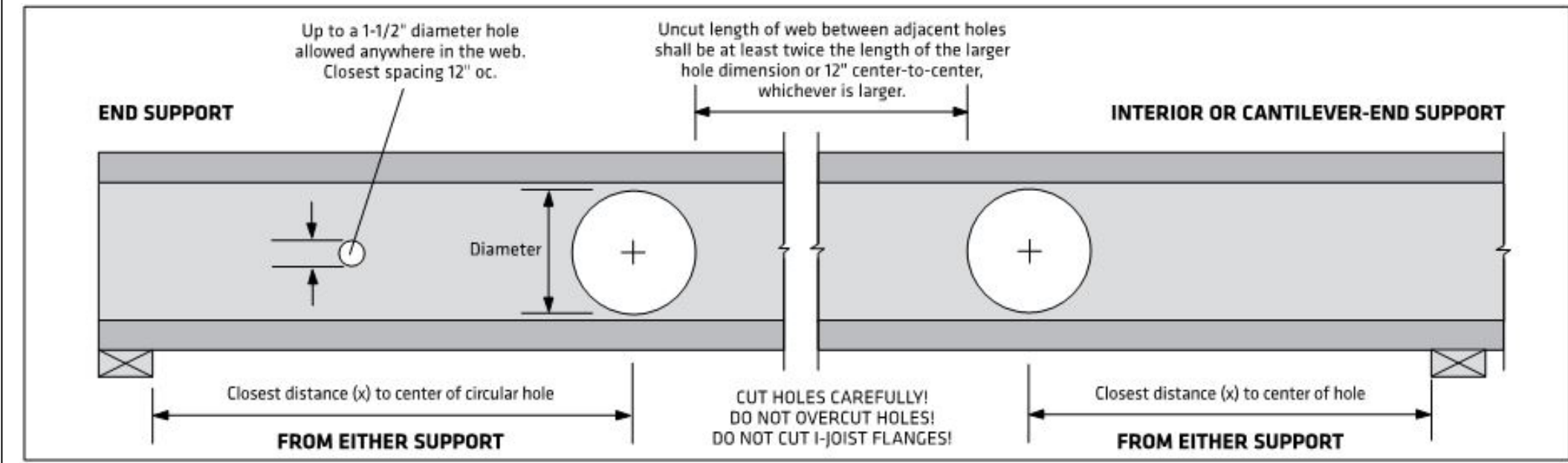
Fastener
Nailed & Glued

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)



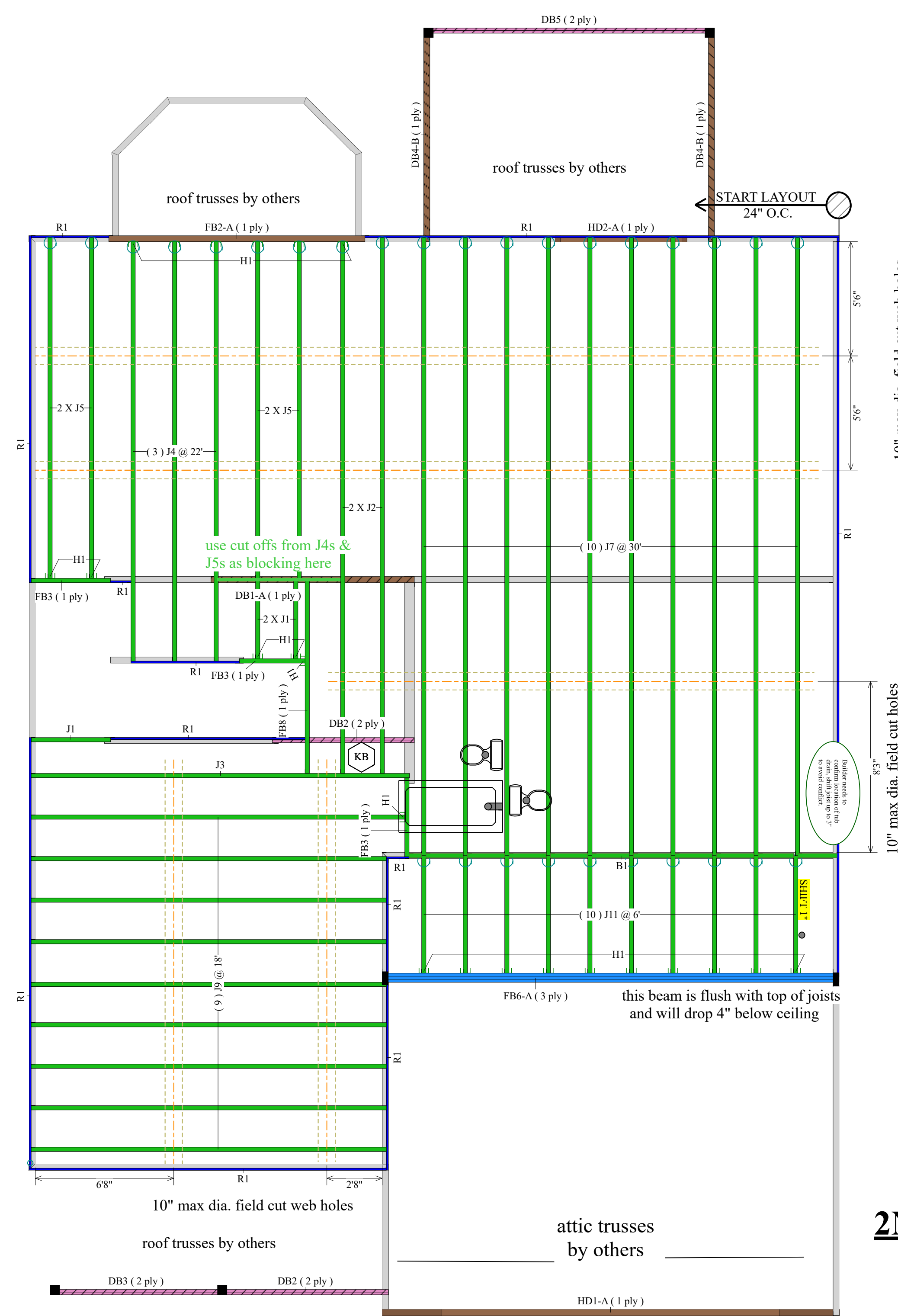
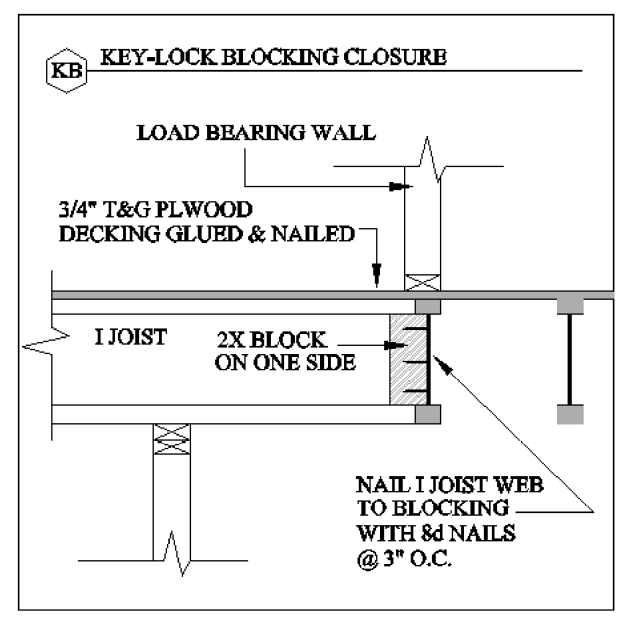
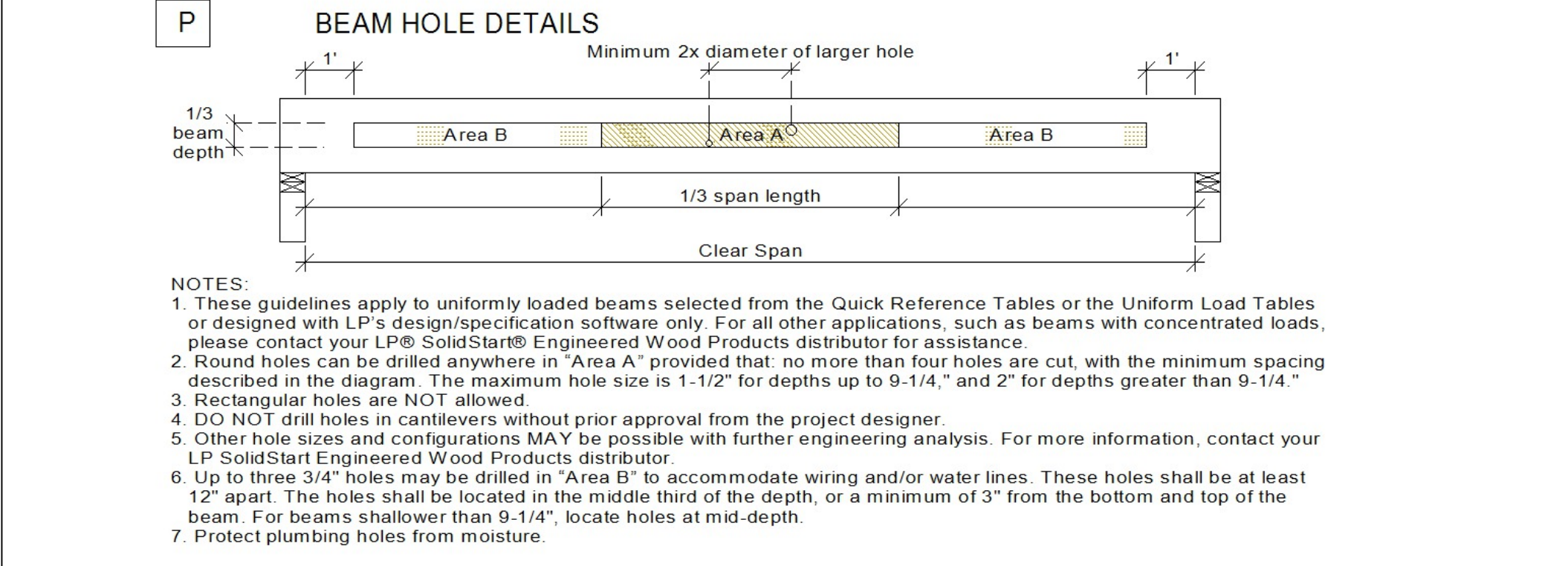
2160 Satellite Blvd., Suite 450
Duluth, GA 30097
888-613-5078



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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:**
- 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).
 - 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.



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
J9	LPI 20Plus	2.5	14			9	18-0-0
J5	LPI 20Plus	2.5	14			4	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			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	

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

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 erections 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.

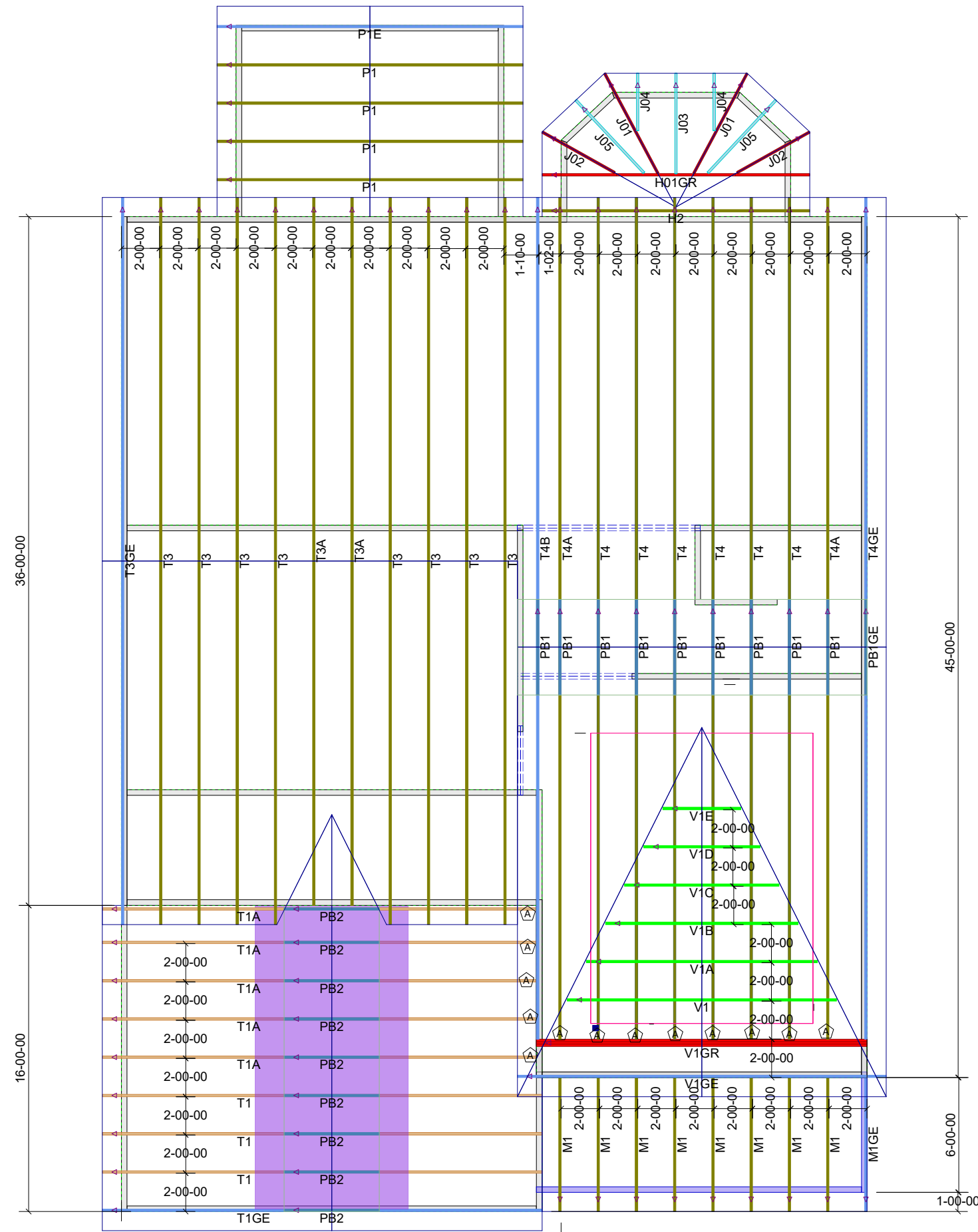
- Unload products carefully by lifting. Support the bundles to reduce excessive bowing. Individual products should be handled in a manner which prevents physical damage during measuring, cutting, erection, etc. I-joists should be handled vertically and not flatwise.
- Keep stored in wrapped and strapped 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.



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



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



PROJECT: Master CL 3187 CP
 CUSTOMER: Caviness Land Development
 MODEL: CL 3187 CP
 QUOTE #: 1800934
 PRINT DATE: 4/25/2018
 DRAWN BY: Rodney Evans
 SCALE: N.T.S

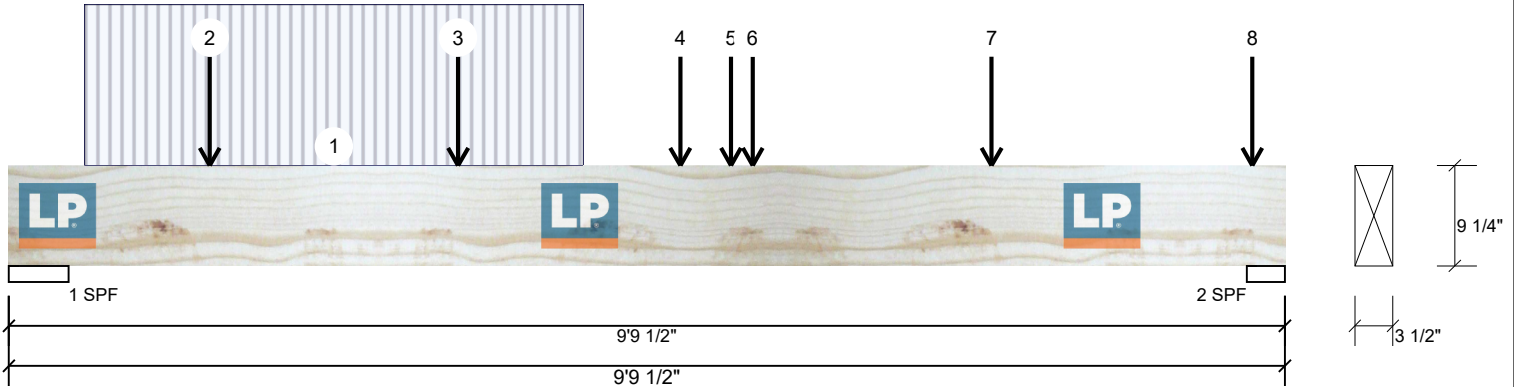
TOP LIVE LOAD: 20.0 lb/ft²
 TOP DEAD LOAD: 10.0 lb/ft²
 BOTTOM DEAD LOAD: 10.0 lb/ft²
 WIND SPEED: 115 mph

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

1st Level Roof Area 978.86	2nd Level Roof Area 1972.71
-------------------------------	--------------------------------

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

Level: 2nd Floor



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	2311 (-15)	1172	0	0	0
2	2376 (-4)	876	0	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	43%	1172 / 2311	3483	L	D+L
2 - SPF	3.500"	62%	876 / 2376	3253	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7857 ft-lb	3'5 3/8"	10127 ft-lb	0.776 (78%)	D+L	L
Shear	3471 lb	1'2"	8849 lb	0.392 (39%)	D+L	L
LL Defl inch	0.246 (L/447)	4'11 3/16"	0.306 (L/360)	0.810 (81%)	L	L
TL Defl inch	0.364 (L/302)	4'10 1/4"	0.458 (L/240)	0.800 (80%)	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 = 0.118", Long Term = 0.177"
- 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	0-7-1 to 4-4-13		Top	0 PLF	-5 PLF	0 PLF	0 PLF	0 PLF	
2	Point	1-6-8		Top	385 lb	1037 lb	0 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8								
3	Point	3-5-6		Top	935 lb	1142 lb	0 lb	0 lb	0 lb	J2
	Bearing Length	0-3-8								
4	Point	5-1-13		Top	70 lb	283 lb	0 lb	0 lb	0 lb	FB8
	Bearing Length	0-3-8								
5	Point	5-6-8		Top	166 lb	665 lb	0 lb	0 lb	0 lb	J14
	Bearing Length	0-3-8								

Continued on page 2...

Notes

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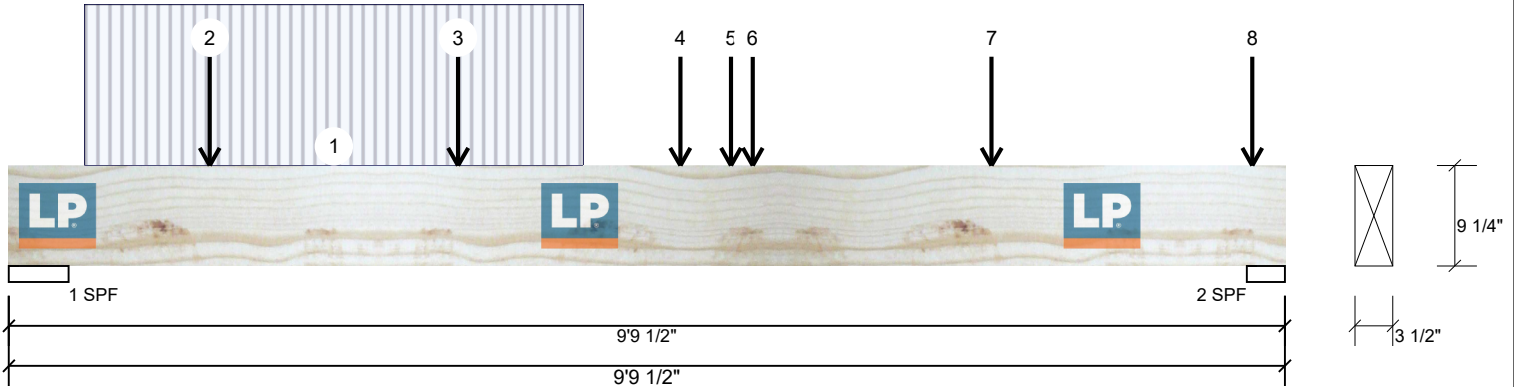
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This design is valid until
 10/31/2021

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

Level: 2nd Floor



...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	5-8-8		Top	23 lb	91 lb	0 lb	0 lb	0 lb	J1
	Bearing Length	0-3-8								
7	Point	7-6-8		Top	199 lb	795 lb	0 lb	0 lb	0 lb	J1 J14
	Bearing Length	0-3-8								
8	Point	9-6-8	8	Top	169 lb	674 lb	0 lb	0 lb	0 lb	J4
	Bearing Length	0-3-8								
	Self Weight				10 PLF					

Notes

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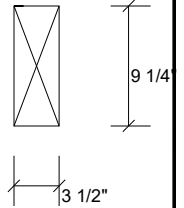
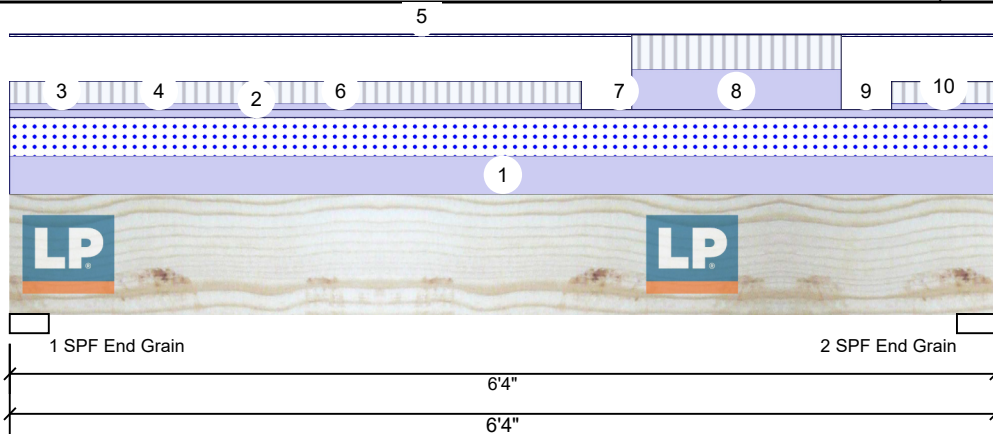
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U.S. LUMBER

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

Level: 2nd Floor



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	697 (-54)	1807	1203	0	0
2	696 (-54)	2019	1203	0	0

Bearings

Bearing	Length	Cap.	React D/L	Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	35%	1807 / 1425	3232	L	D+0.75(L+S)	
2 - SPF End Grain	3.000"	37%	2019 / 1425	3443	L	D+0.75(L+S)	

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4701 ft-lb	3'3 5/16"	11647 ft-lb	0.404 (40%)	D+0.75(L+S)	L
Shear	2567 lb	5'4 1/2"	10177 lb	0.252 (25%)	D+0.75(L+S)	L
LL Defl inch	0.045 (L/1590)	3'2"	0.199 (L/360)	0.230 (23%)	0.75(L+S)	L
TL Defl inch	0.106 (L/674)	3'2 1/2"	0.298 (L/240)	0.360 (36%)	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 = 0.092"
- 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 6-4-0		Top	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-4-0		Top	80 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	0-8-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 3-8-0		Top	67 PLF	219 PLF	0 PLF	0 PLF	0 PLF	J5
5	Part. Uniform	0-0-0 to 6-4-0		Top	0 PLF	-17 PLF	0 PLF	0 PLF	0 PLF	J5
6	Tapered Start	0-8-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	2-8-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

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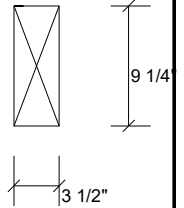
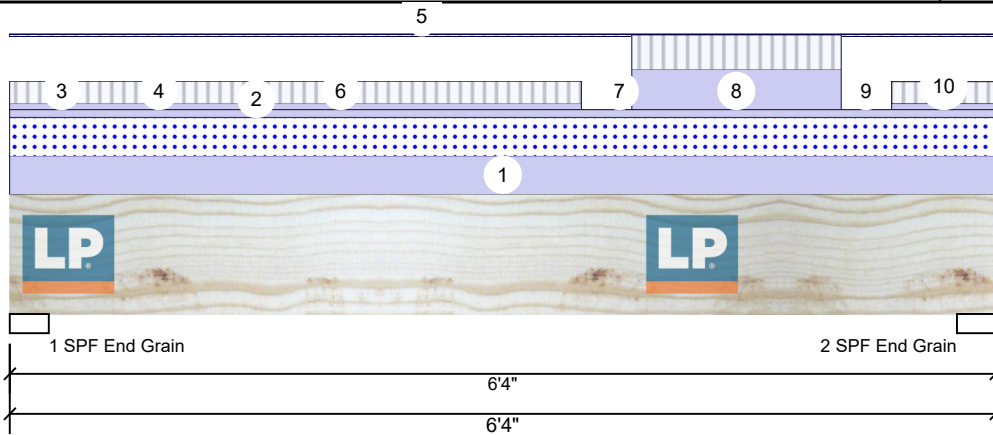


U.S. LUMBER

This design is valid until
 10/31/2021

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

Level: 2nd Floor



...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	2-8-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-8-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Part. Uniform	4-0-0 to 5-4-0		Top	418 PLF	330 PLF	0 PLF	0 PLF	0 PLF	J5
9	Tapered Start	4-8-0		Top	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-4-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
10	Part. Uniform	5-8-0 to 6-4-0		Top	65 PLF	216 PLF	0 PLF	0 PLF	0 PLF	J5
	Self Weight				10 PLF					

Notes

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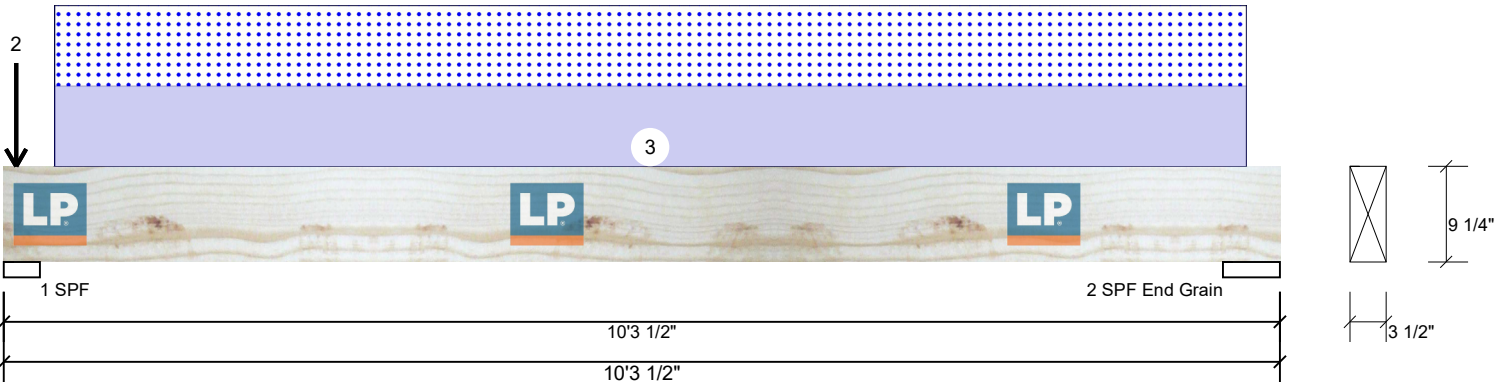


U.S. LUMBER

This design is valid until
 10/31/2021

DB4-B LP-LSL 1.55E 3.500" X 9.250" - PASSED

Level: 2nd Floor



Member Information

Type:	Girder
Plies:	1
Moisture Condition:	Dry
Deflection LL:	240
Deflection TL:	180
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	221 (-34)	864	744	0	0
2	0	846	792	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	31%	864 / 744	1608	L	D+S
2 - SPF	5.500"	10%	846 / 792	1638	L	D+S
End Grain						

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3856 ft-lb	5' 3/4"	11647 ft-lb	0.331 (33%)	D+S	L
Shear	1343 lb	1'	10177 lb	0.132 (13%)	D+S	L
LL Defl inch	0.096 (L/1204)	5' 3/4"	0.483 (L/240)	0.200 (20%)	S	L
TL Defl inch	0.199 (L/583)	5' 3/4"	0.644 (L/180)	0.310 (31%)	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 = 0.103", Long Term = 0.154"
- 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	Point	0-1-3		Top	67 lb	221 lb	0 lb	0 lb	0 lb	J5
	Bearing Length	0-3-8								
2	Point	0-1-3		Top	0 lb	-34 lb	0 lb	0 lb	0 lb	J5
3	Part. Uniform	0-4-15 to 10-0-2		Top	160 PLF	0 PLF	160 PLF	0 PLF	0 PLF	
	Self Weight				10 PLF					

Notes

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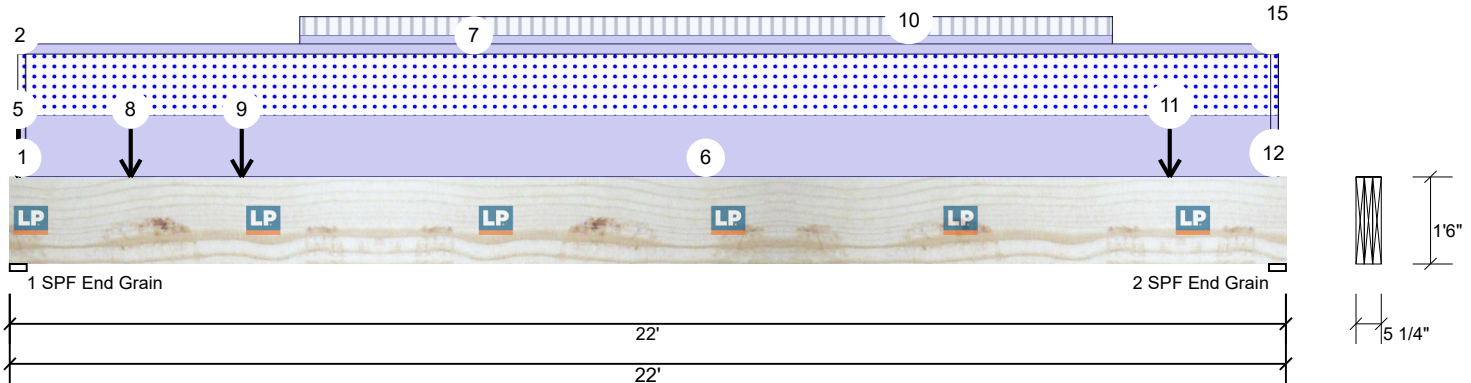
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 10/31/2021

FB6-A LP-LVL 2900Fb-2.0E 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Floor



Member Information

Type:	Girder
Plies:	3
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	1131	5725	4125	0	0
2	1134	5677	4125	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	71%	5725 / 4125	9849	L	D+S
2 - SPF End Grain	3.500"	71%	5677 / 4125	9801	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	52730 ft-lb	10'11 15/16"	77329 ft-lb	0.682 (68%)	D+S	L
Shear	8490 lb	1'8 5/8"	20648 lb	0.411 (41%)	D+S	L
LL Defl inch	0.389 (L/665)	11' 1/16"	0.719 (L/360)	0.540 (54%)	S	L
TL Defl inch	0.929 (L/278)	10'11 15/16"	1.078 (L/240)	0.860 (86%)	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 = 0.540", Long Term = 0.810"
- 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 4'4 1/2" 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	0-1-12 to 0-3-6		Top	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-1-12 to 0-3-6		Top	64 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Point	0-1-12		Top	11 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
4	Point	0-1-12		Top	4 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
5	Point	0-1-12		Top	2 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight

Continued on page 2...

Notes

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Manufacturer Info

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 LADBS: RR-25783, Florida: FL15228

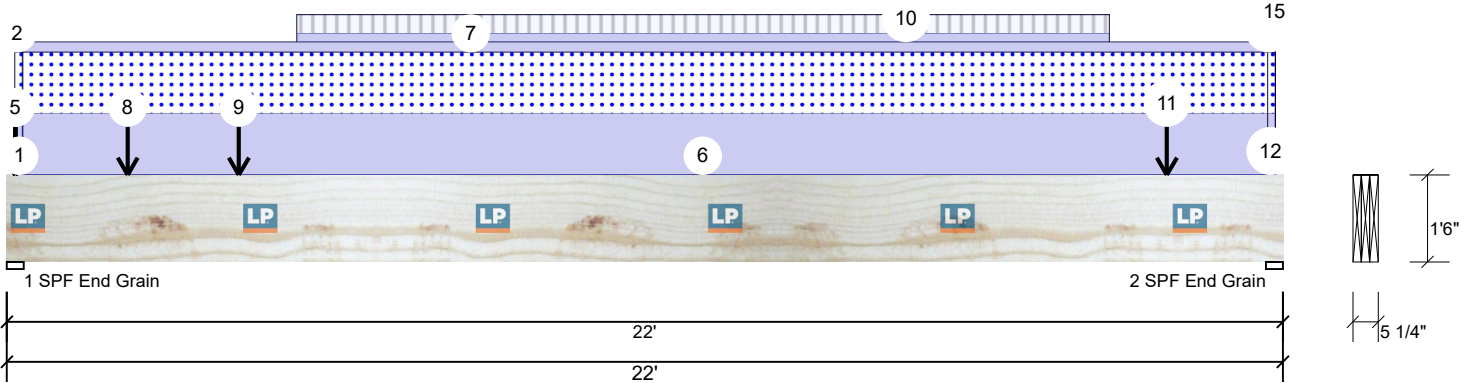
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 30097
 888-613-5078



This design is valid until
 10/31/2021

FB6-A LP-LVL 2900Fb-2.0E 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Floor



...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								
6	Part. Uniform	0-3-6 to 21-8-10		Top	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	
7	Part. Uniform	0-3-6 to 21-8-10		Top	64 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Point	2-1-0		Far Face	147 lb	225 lb	0 lb	0 lb	0 lb	J11
9	Point	4-0-0		Far Face	112 lb	223 lb	0 lb	0 lb	0 lb	J11
10	Part. Uniform	5-0-0 to 19-0-0		Far Face	56 PLF	114 PLF	0 PLF	0 PLF	0 PLF	
11	Point	20-0-0		Far Face	106 lb	213 lb	0 lb	0 lb	0 lb	J11
12	Part. Uniform	21-8-10 to 21-10-4		Top	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	
13	Part. Uniform	21-8-10 to 21-10-4		Top	64 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
14	Tie-In	21-9-10 to 22-0-0	0-10-7	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
15	Tie-In	21-9-10 to 22-0-0	0-1-15	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				27 PLF					

Notes

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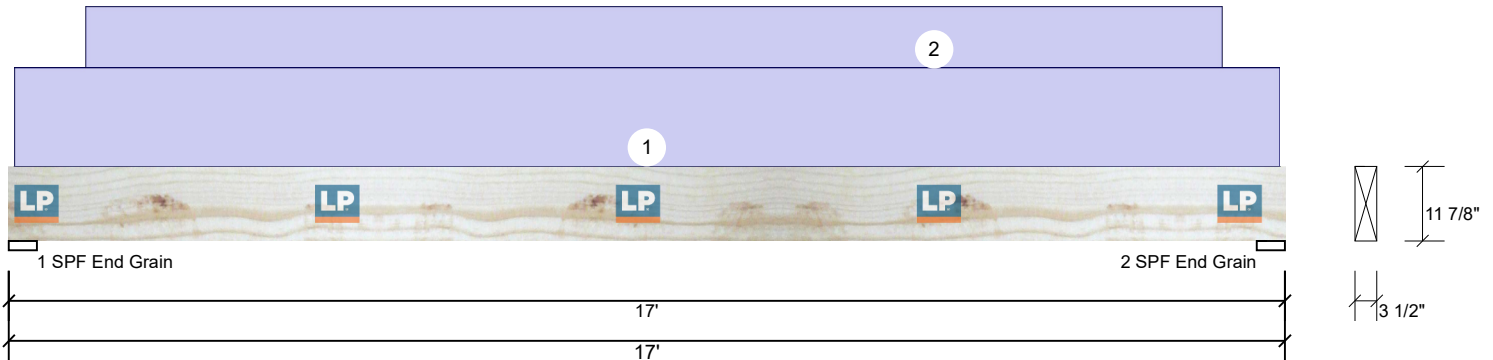


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This design is valid until
 10/31/2021

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

Level: 2nd Floor



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	2030	0	0	0
2	0	2045	0	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	15%	2030 / 0	2030	Uniform	D
2 - SPF End Grain	4.500"	15%	2045 / 0	2045	Uniform	D

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8404 ft-lb	8'6 1/16"	14578 ft-lb	0.576 (58%)	D	Uniform
Shear	1809 lb	1'3 5/8"	10224 lb	0.177 (18%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.566 (L/347)	8'6 1/16"	0.819 (L/240)	0.690 (69%)	D	Uniform

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 = 0.566", Long Term = 0.848"
- 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	0-1-0 to 16-11-0		Top	146 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform Self Weight	1-0-5 to 16-1-14		Top	92 PLF 13 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight

Notes

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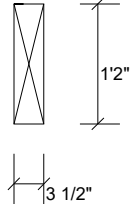
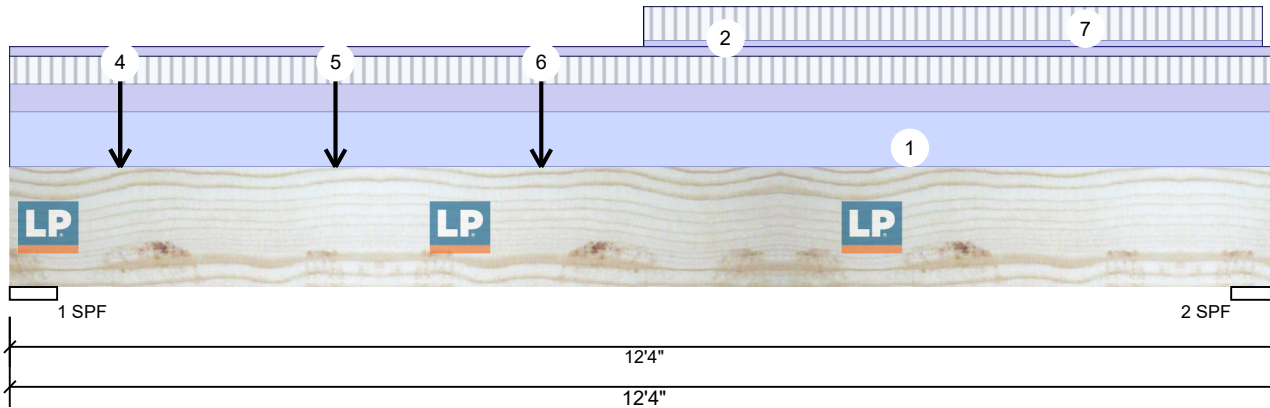
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This design is valid until
 10/31/2021

FB2-A LP-LSL 1.55E 3.500" X 14.000" - PASSED

Level: 2nd Floor



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	3169 (-7)	2802	0	0	2837
2	3135 (0)	2460	0	0	2837

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	89%	2802 / 4504	7306	Uniform	D+0.75(L+C)
2 - SPF	5.500"	85%	2460 / 4478	6938	Uniform	D+0.75(L+C)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15569 ft-lb	5'11 7/8"	22073 ft-lb	0.705 (71%)	D+L	L
Shear	5505 lb	1'6 3/4"	13393 lb	0.411 (41%)	D+L	L
LL Defl inch	0.276 (L/502)	6'1 3/4"	0.385 (L/360)	0.720 (72%)	0.75(L+C)	Uniform
TL Defl inch	0.428 (L/323)	6'1 11/16"	0.577 (L/240)	0.740 (74%)	D+0.75(L+C)	Uniform

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 = 0.152", Long Term = 0.229"
- 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 12-4-0		Top	230 PLF	230 PLF	0 PLF	0 PLF	460 PLF	
2	Part. Uniform	0-0-0 to 12-4-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Point	1-0-14		Near Face	501 lb	492 lb	0 lb	0 lb	0 lb	J2
4	Point	1-0-14		Near Face	0 lb	-7 lb	0 lb	0 lb	0 lb	J2
5	Point	3-2-0		Near Face	167 lb	667 lb	0 lb	0 lb	0 lb	J5
6	Point	5-2-0		Near Face	163 lb	652 lb	0 lb	0 lb	0 lb	J5
7	Part. Uniform	6-2-0 to 12-2-0		Near Face	69 PLF	276 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				16 PLF					

Notes

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