

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

APPROVED
Unaltered Building only please.
Permit holder responsible for full compliance with the code.

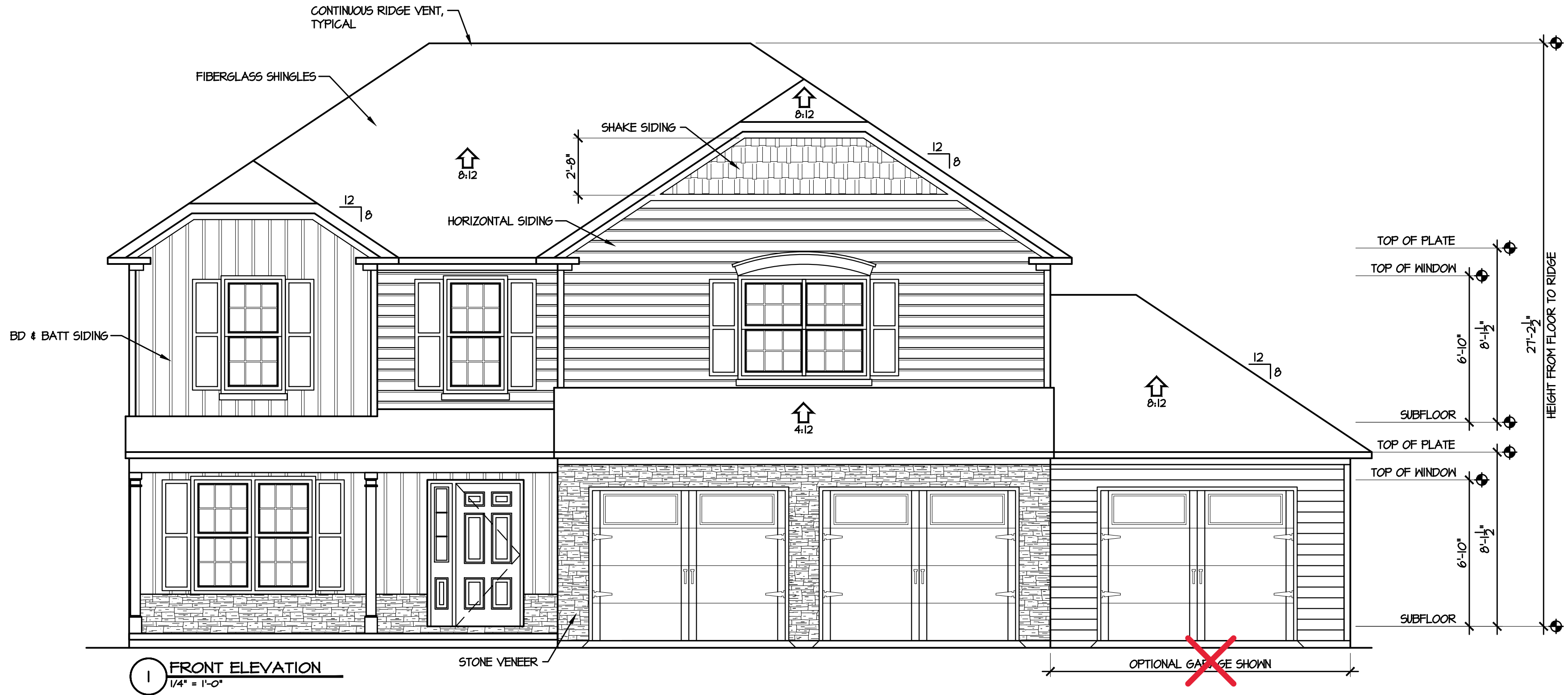
12/20/2021




SPACE DATA	
FIRST FLOOR, HEATED:	1022 SF
SECOND FLOOR, HEATED:	1200 SF
FRONT PORCH:	100 SF
OPTIONAL REAR PORCH:	144 SF
GARAGE:	504 SF
THIRD CAR GARAGE:	280 SF

ATTIC VENT CALC'S.	
ATTIC AREA:	1200 S.F.
GABLE VENTS:	N/A
RIDGE VENTS:	35 L.F. / 5 S.F. (34%)
SOFFIT VENT:	130 L.F. / 8 S.F. (61%)
RATIO:	$\frac{13}{1200} = \frac{1}{100}$

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



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

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Building and Development Company
Builder of Excellence

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1041B Robeson Street
Fayetteville, NC 28305
Office: 910-339-6330
Fax: 910-339-6333



TODD TUCKER 34 - 156
FORTIFIED-WISE™
PROFESSIONAL
910-824-1474

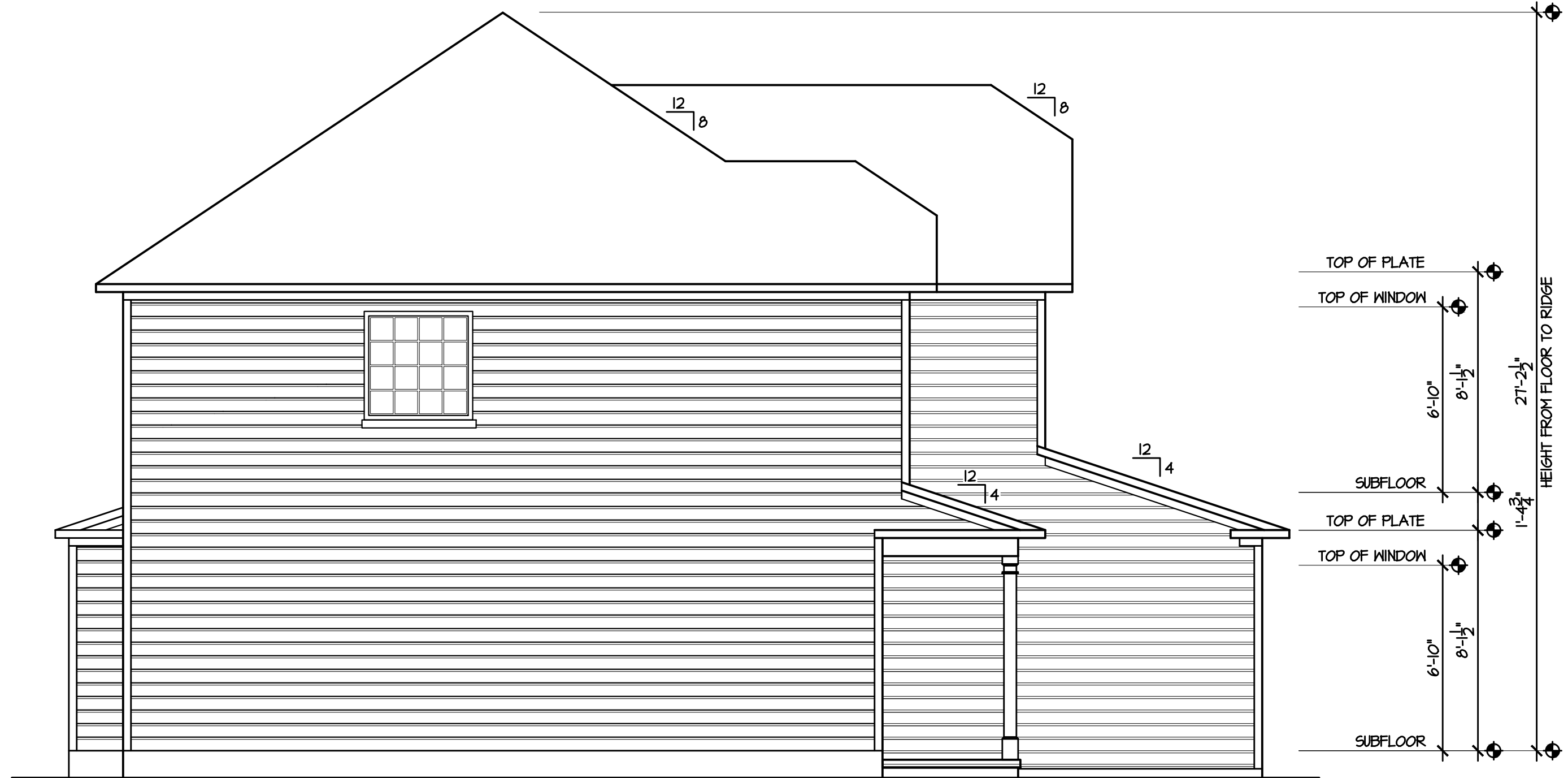
PLAN NAME/NUMBER: CL2310-4

SHEET TITLE: ELEVATIONS

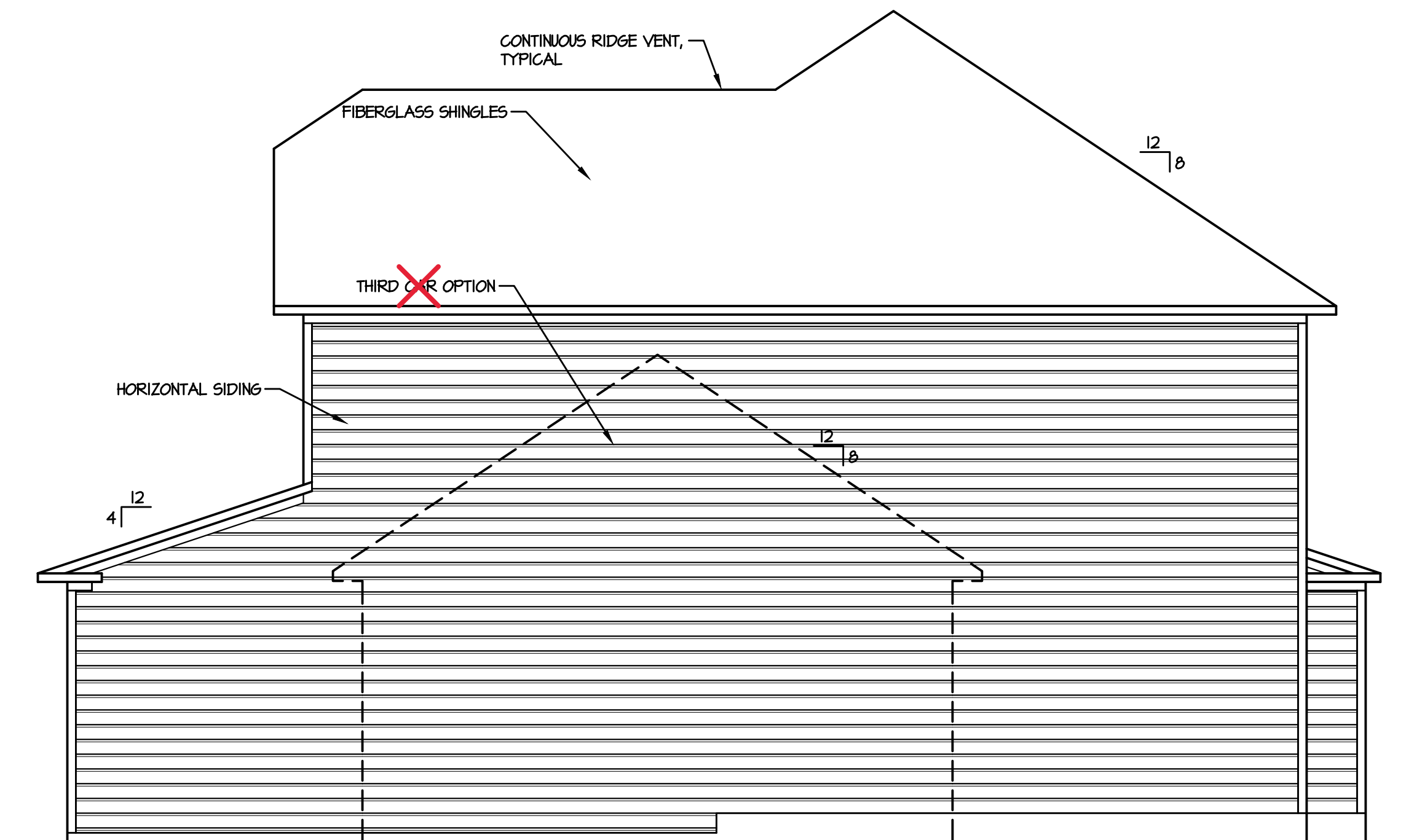
DATE: NOVEMBER 2012

REVISIONS:
10/11/18 1/2 BATH / REAR DOOR
8/7/19 36"x48" SHOWER

SHEET NO:
1



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



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



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PLAN NAME/NUMBER:
CL2310-4

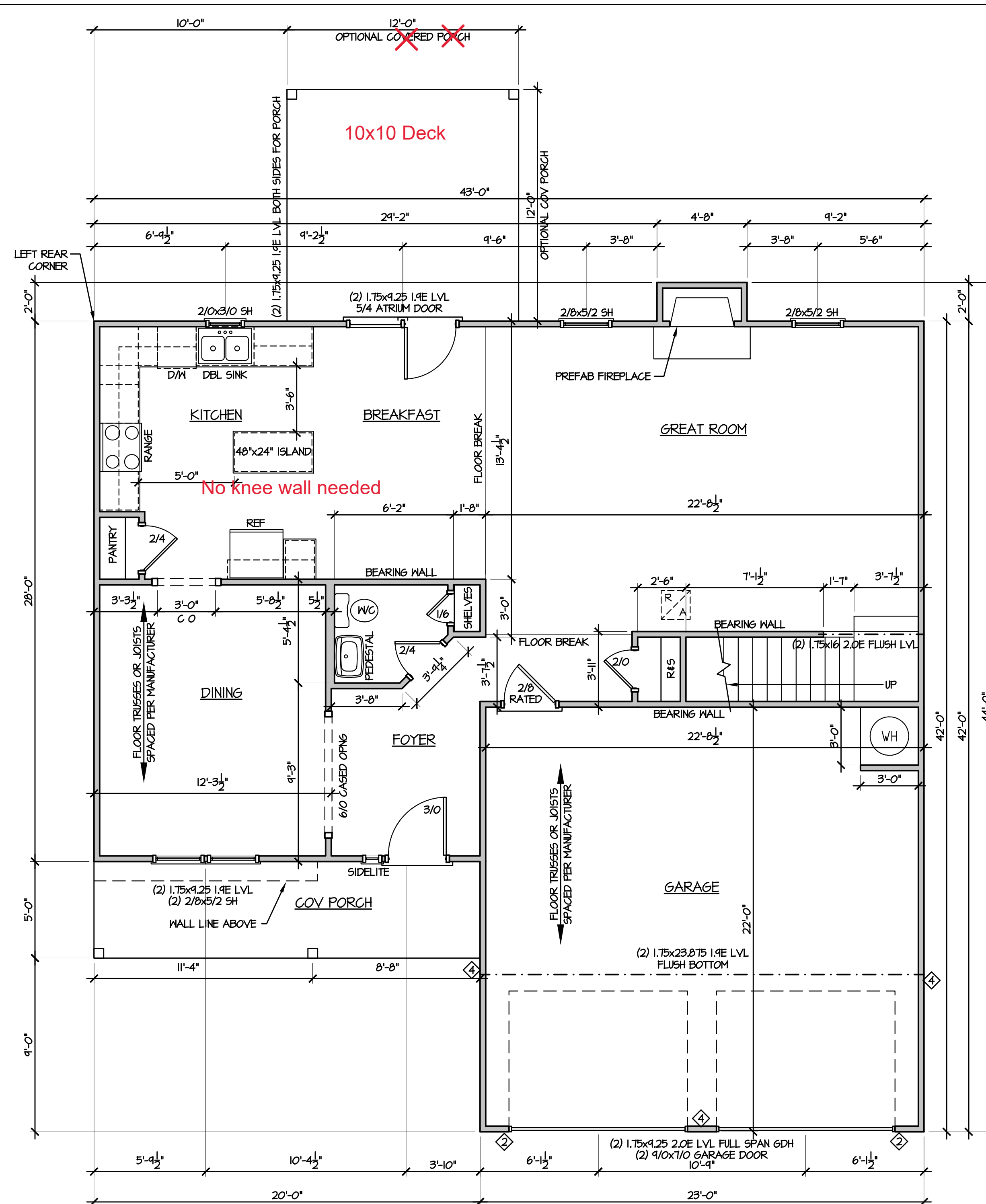
SHEET TITLE:
ELEVATIONS

DATE:
NOVEMBER 2012

REVISIONS:

10/11/18	1/2 BATH / REAR DOOR
8/7/19	36"x48" SHOWER

SHEET NO:
2



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

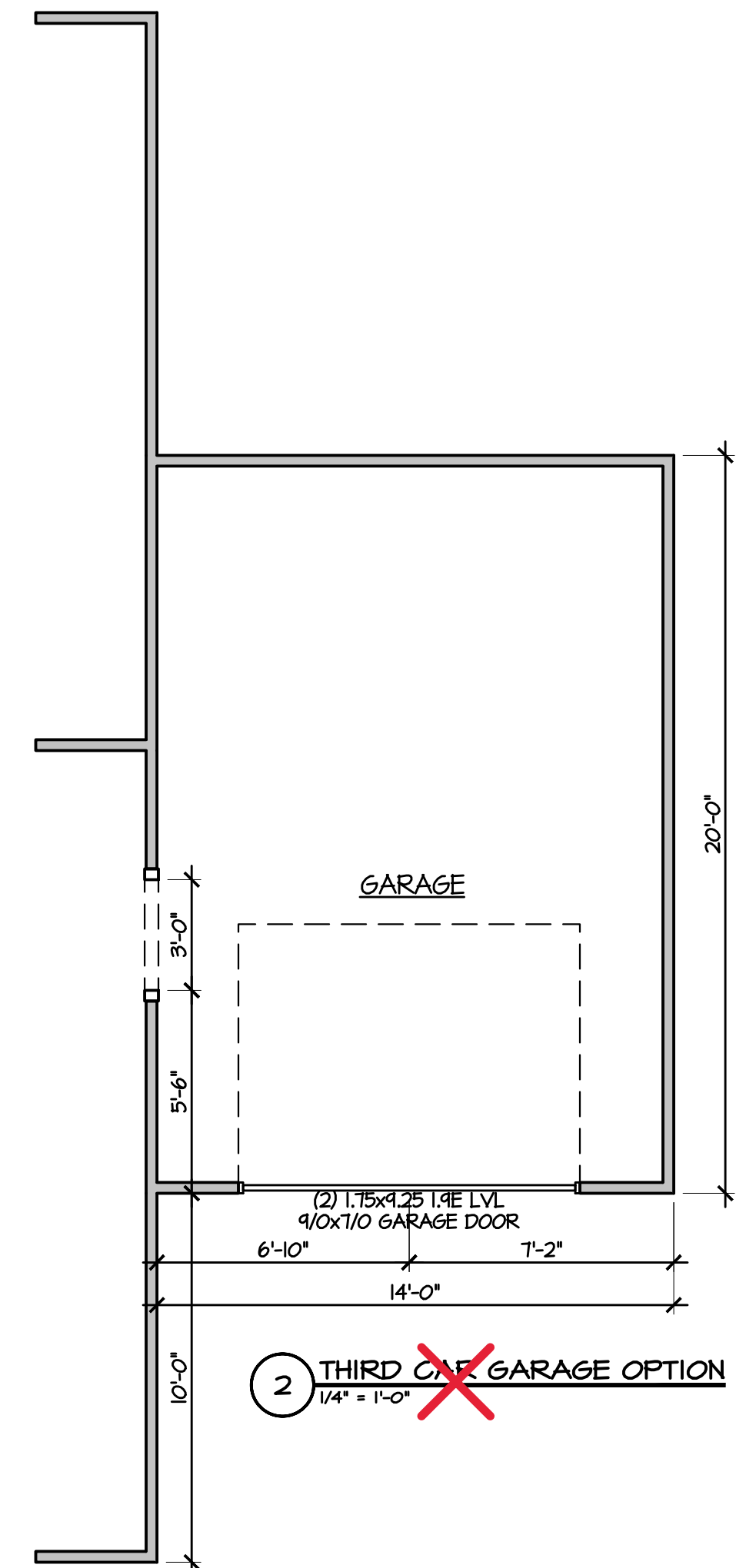
ALL EXTERIOR DIMENSIONS INCLUDE WALL SHEATHING

ALL WALLS ARE 2x4 WALLS UNLESS OTHERWISE NOTED

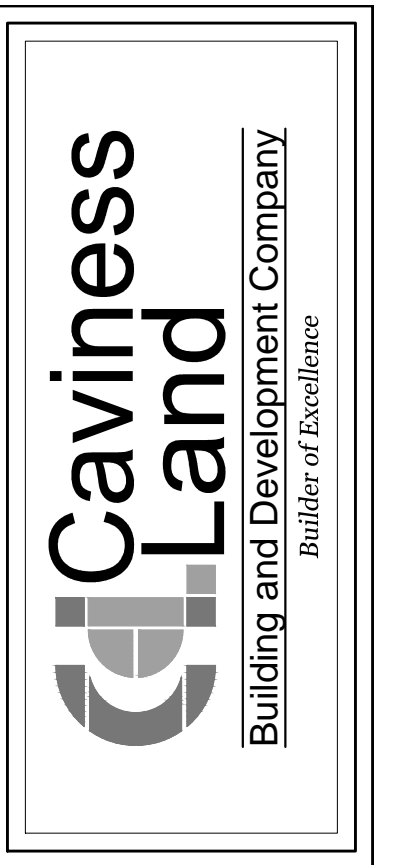
IN LOAD-BEARING WALLS:
 ALL OPENING, WINDOW & DOOR HEADERS TO BE (2) 2x10 SPF #2 & (2) STUDS ON EACH SIDE UNLESS NOTED OTHERWISE

◊ SYMBOL FOR REQUIRED STUDS FOR BEAM ABOVE

ARROW INDICATES SPAN DIRECTION

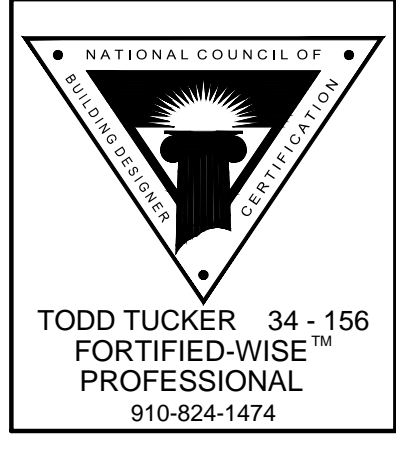


1 FIRST FLOOR
 1/4" = 1'-0"



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PLAN NAME NUMBER: **CL2310-4**

SHEET TITLE: **FIRST FLOOR PLAN**

DATE: **NOVEMBER 2012**

REVISIONS:

10/11/10	1/2 BATH / REAR DOOR
8/7/11	36"x48" SHOWER

SHEET NO:
4

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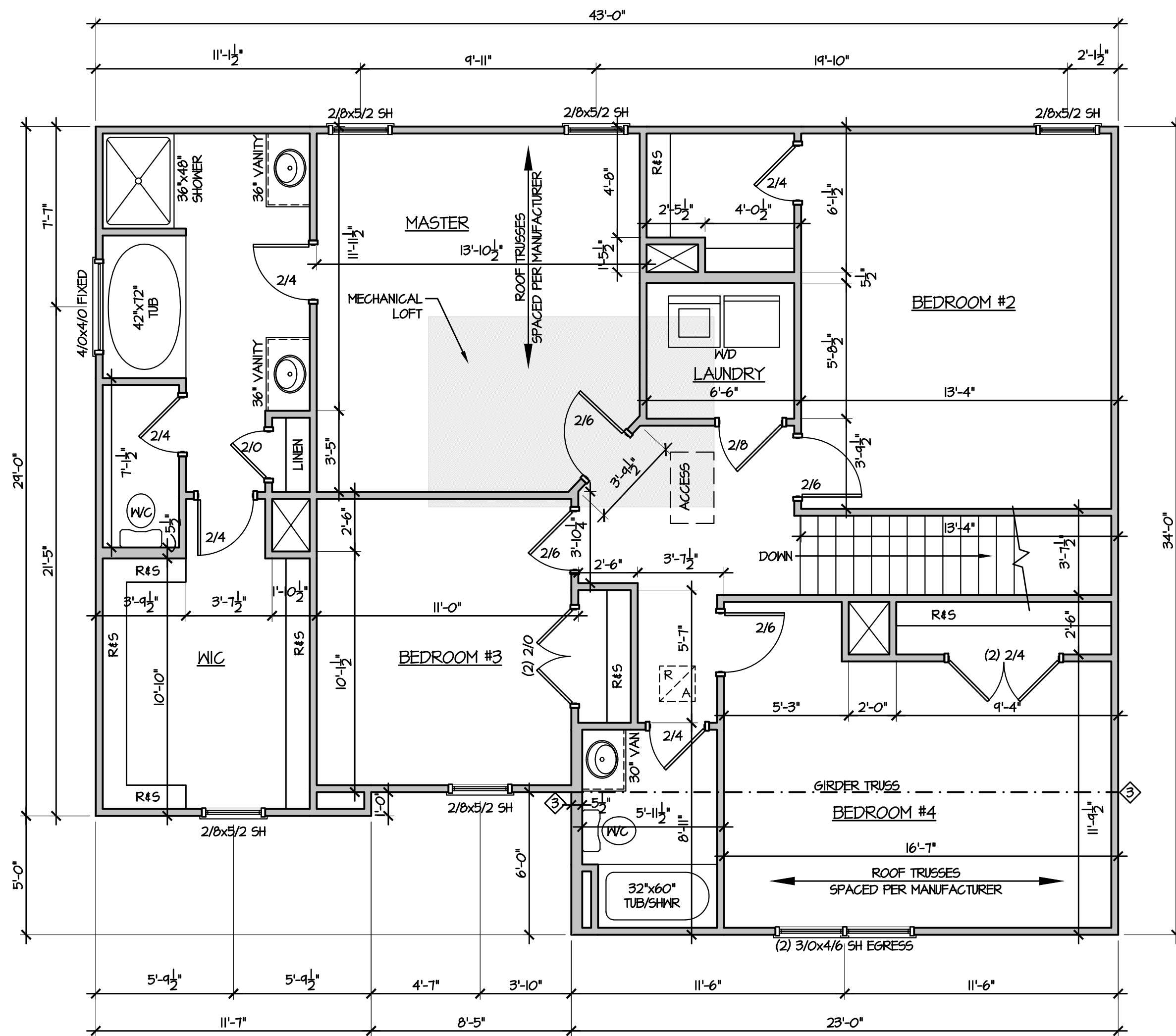
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PLAN NAME/NUMBER: **CL2310-4**
 SHEET TITLE: **SECOND FLOOR PLAN**

DATE:
NOVEMBER 2012

REVISIONS:	
10/11/18	1/2 BATH / REAR DOOR
8/7/19	36"x48" SHOWER

SHEET NO:
5



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) 2x8 SFF #2 & (2) STUDS ON EACH SIDE
 UNLESS NOTED OTHERWISE

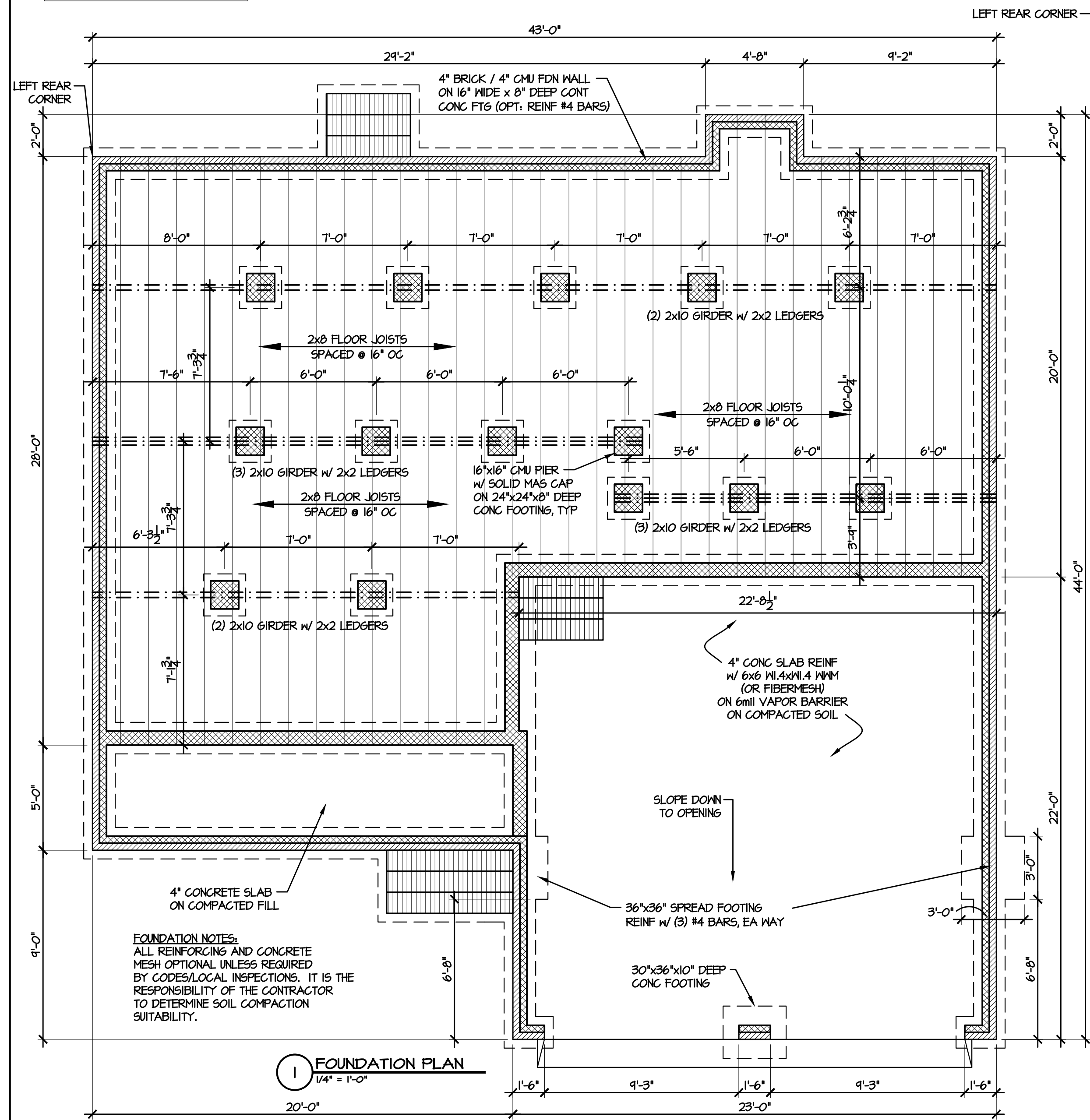
◊ SYMBOL FOR REQUIRED STUDS FOR BEAM ABOVE

ARROW INDICATES SPAN DIRECTION

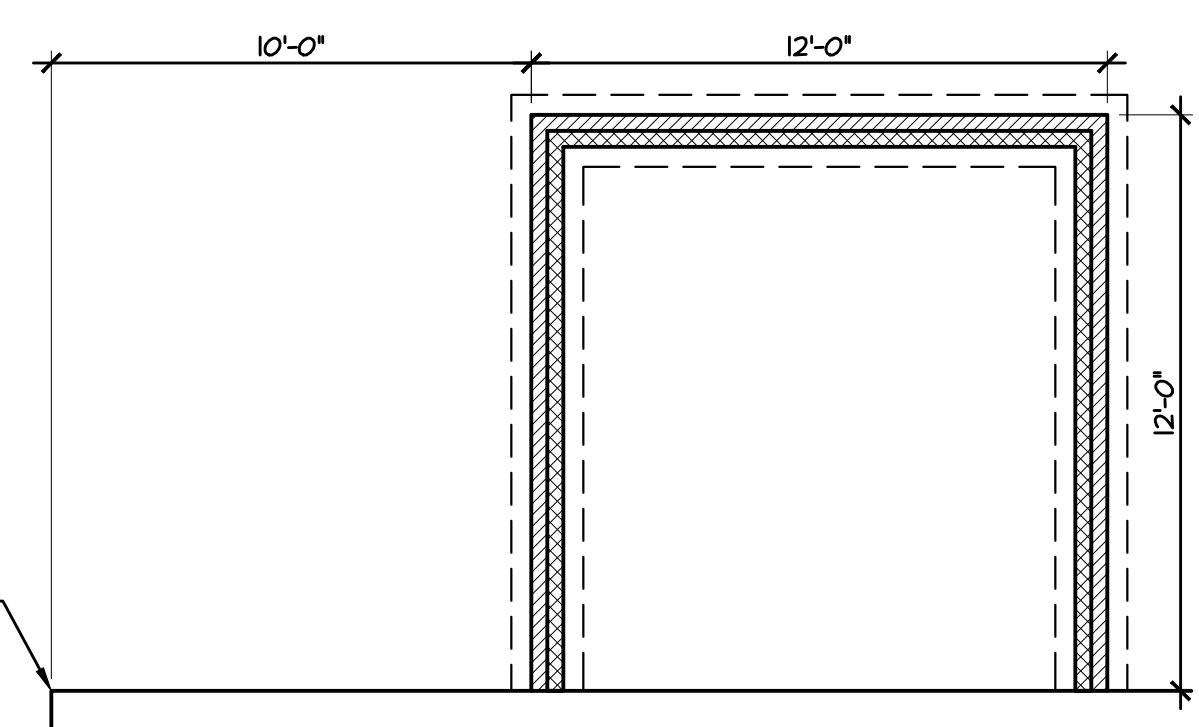
1 SECOND FLOOR PLAN
 1/4" = 1'-0"

- 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 x 16"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 ON PLAN)
 8. ANCHOR BOLTS @ 6'-0" O.C. AND 1'-0" FROM EACH CORNER (EMBED 8" MIN. IN SOLID GROUT)
 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 SFF

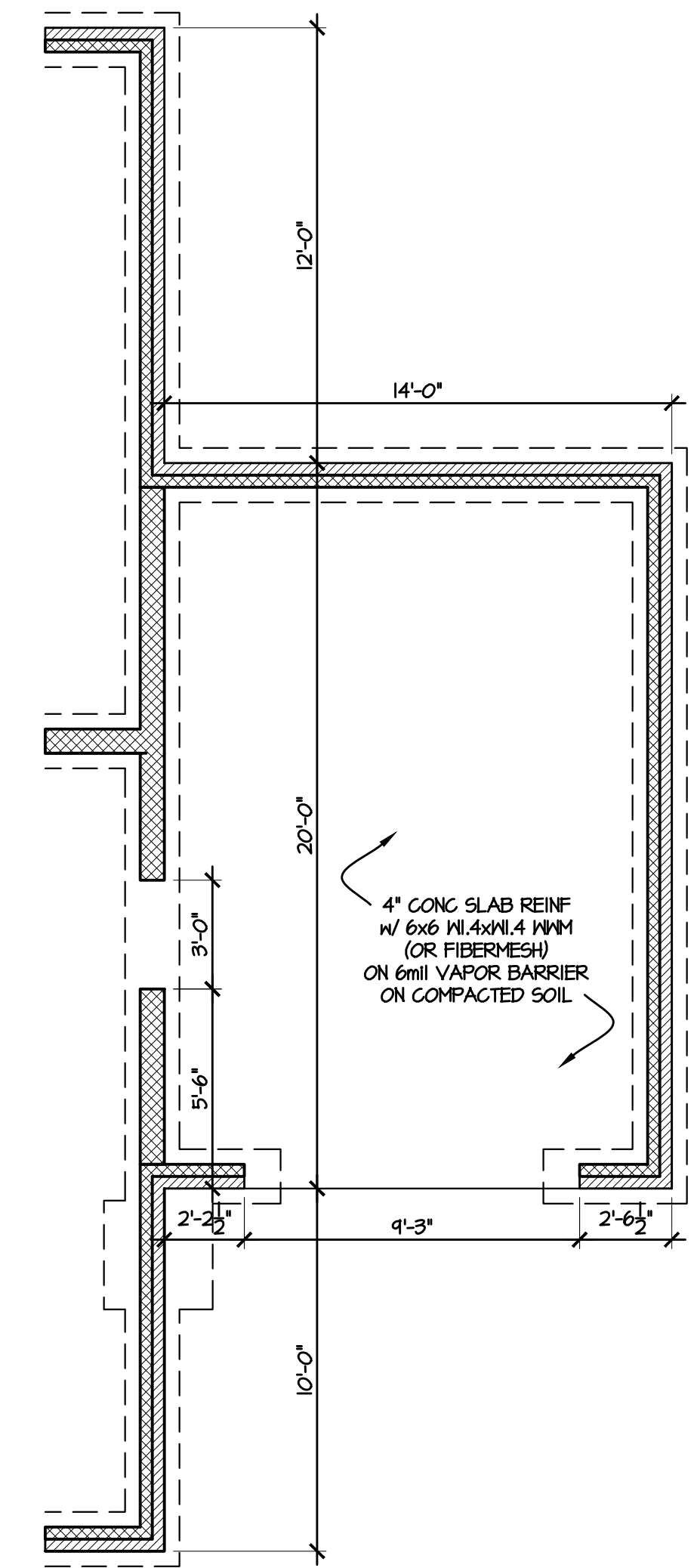
- VENTILATION NOTES:**
- CRAWL SPACE AREA: 821 S.F.
 1500 S.F. PER 1 S.F. VENTS = 0.6 S.F.
 REQUIRED VENTS W/ V.B. + ONE VENT WITHIN 3' OF EA. CORNER = 3 VENT



1 FOUNDATION PLAN
 1/4" = 1'-0"
 20'-0"



3 OPTIONAL COV PORCH
 1/4" = 1'-0"



2 THIRD CAR GARAGE OPTION
 1/4" = 1'-0"



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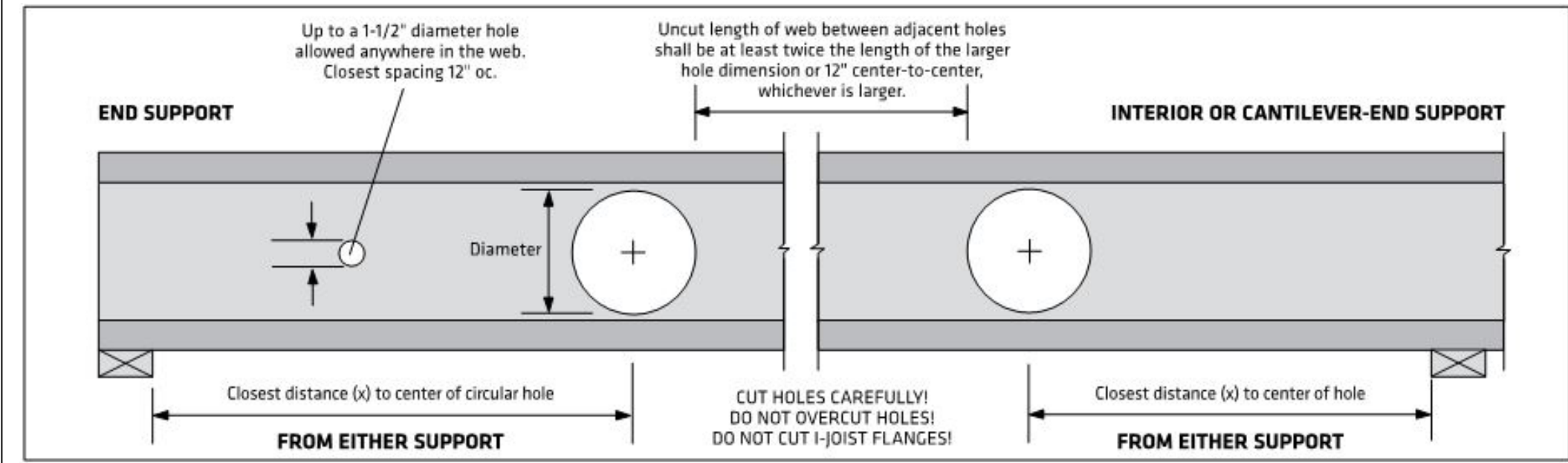
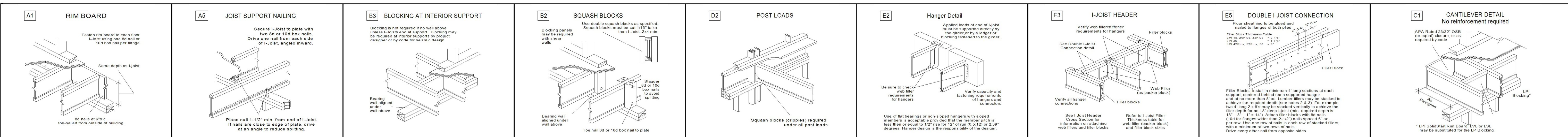
PLAN NAME/NUMBER: **CL2310-4**
 SHEET TITLE: **FOUNDATION PLAN**

DATE: **NOVEMBER 2012**

REVISIONS:

10/11/18	1/2 BATH / REAR DOOR
8/7/19	36"x48" SHOWER

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, 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.

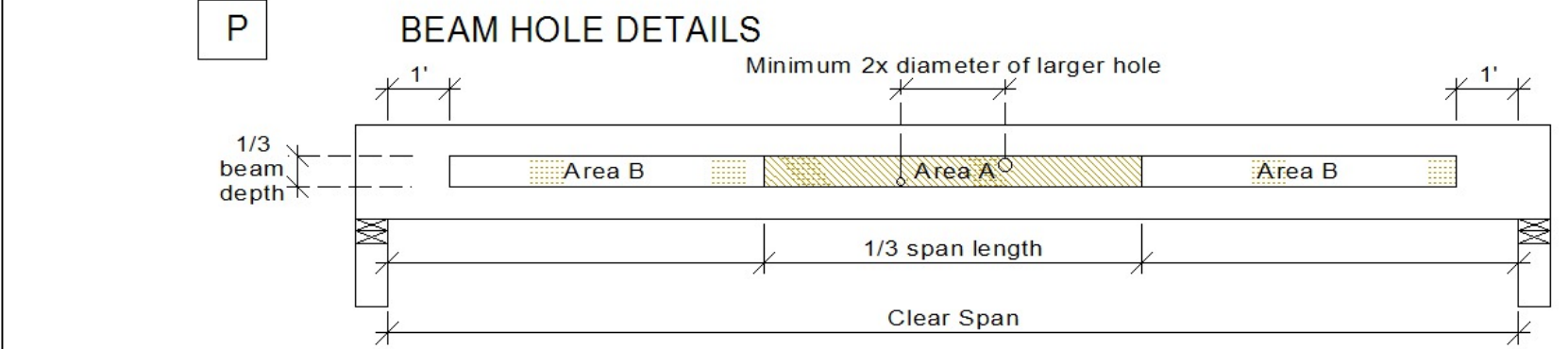
Depth	Clear Span (ft)	Distance from End Support						Distance from Interior or Cantilever-End Support					
		Hole Diameter						Hole Diameter					
		2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"
14"	14'	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-9"	-
	18'	1'-0"	1'-0"	1'-9"	3'-1"	4'-6"	-	1'-8"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



NOTES:

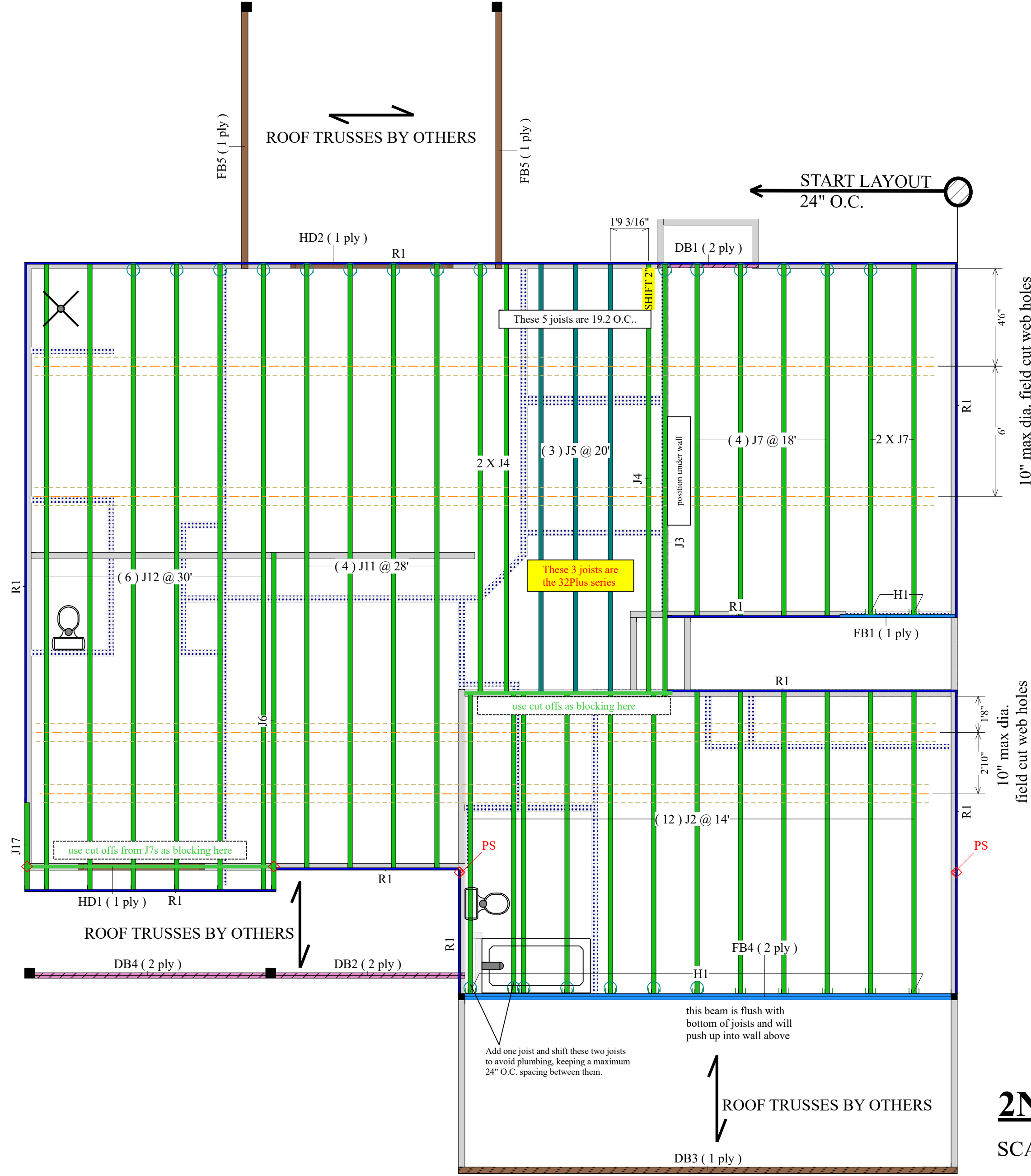
- These guidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables or designed with LP's design/specification software only. For all other applications, such as beams with concentrated loads, please contact your LP® SolidStart® Engineered Wood Products 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 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.

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 I Joist (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J12	LPI 20Plus	2.5	14			6	30-0-0
J11	LPI 20Plus	2.5	14			4	28-0-0
J4	LPI 20Plus	2.5	14			3	20-0-0
J3	LPI 20Plus	2.5	14			1	20-0-0
J7	LPI 20Plus	2.5	14			6	18-0-0
J6	LPI 20Plus	2.5	14			1	16-0-0
J2	LPI 20Plus	2.5	14			12	14-0-0
J17	LPI 20Plus	2.5	14			1	4-0-0
J5	LPI 32Plus	2.5	14			3	20-0-0

LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB5	LP-LSL 1.55E	3.5	9.25			2	14-0-0
FB1	LP-LVL 2900Fb-2.0E	1.75	14			1	6-0-0
FB4	LP-LVL 2900Fb-2.0E	1.75	20	1	2	2	24-0-0

LVL/LSL (Dropped)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
HD2	LP-LSL 1.55E	3.5	9.25			1	8-0-0
HD1	LP-LSL 1.55E	3.5	9.25			1	6-0-0
DB3	LP-LSL 1.55E	3.5	11.875			1	24-0-0

Beam By Others (Dropped)

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
DB4	[2x10]			1	2	2	12-0-0
DB2	[2x10]			1	2	2	10-0-0
DB1	[2x10]			1	2	2	6-0-0

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

Hanger

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

2ND FLOOR FRAMING

SCALE: 1/4" = 1'



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
CL2310 CP GR CT
Created
October 01, 2014
Layout Name
CL2310 CP GR CT

Description
Caviness Land
CL2310 CP GR CT
Designer
Kyle Militzer
Revised
April 24, 2020

2nd Floor
Design Method ASD (USA)
Building Code IBC/IRC 2015

Floor

Loads	Value
Live	40
Dead	10

Deflection Joist

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

Deflection Girder

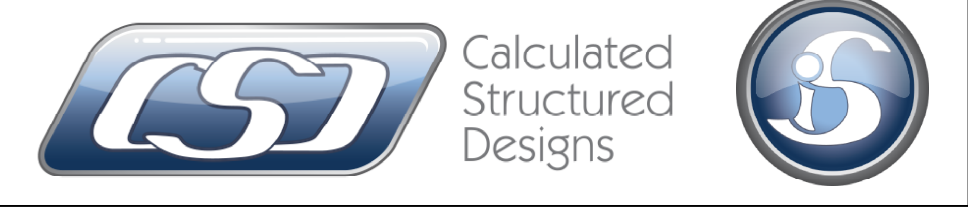
Span	Value
LL Span L/	360
TL Span L/	240
LL Cant 2L/	360
TL Cant 2L/	360

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

Fastener
Nailed & Glued

Legend

- Point Load Support
- Load from Above
- 3.5" Non-Brg Wall
- 5.5" Non-Brg Wall
- Wall
- Partition Wall (Non-Load-Bearing)
- Wall Opening
- LP APA Rated OSB 1.125 X 14
- LPI 20Plus 14
- LPI 32Plus 14
- LP-LSL 1.55E 3.5 X 9.25 (Dropped)
- LP-LSL 1.55E 3.5 X 9.25
- LP-LSL 1.55E 3.5 X 11.875 (Dropped)
- LP-LVL 2900Fb-2.0E 1.75 X 14
- LP-LVL 2900Fb-2.0E 1.75 X 20 1.5 X 9.25 (Dropped)



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

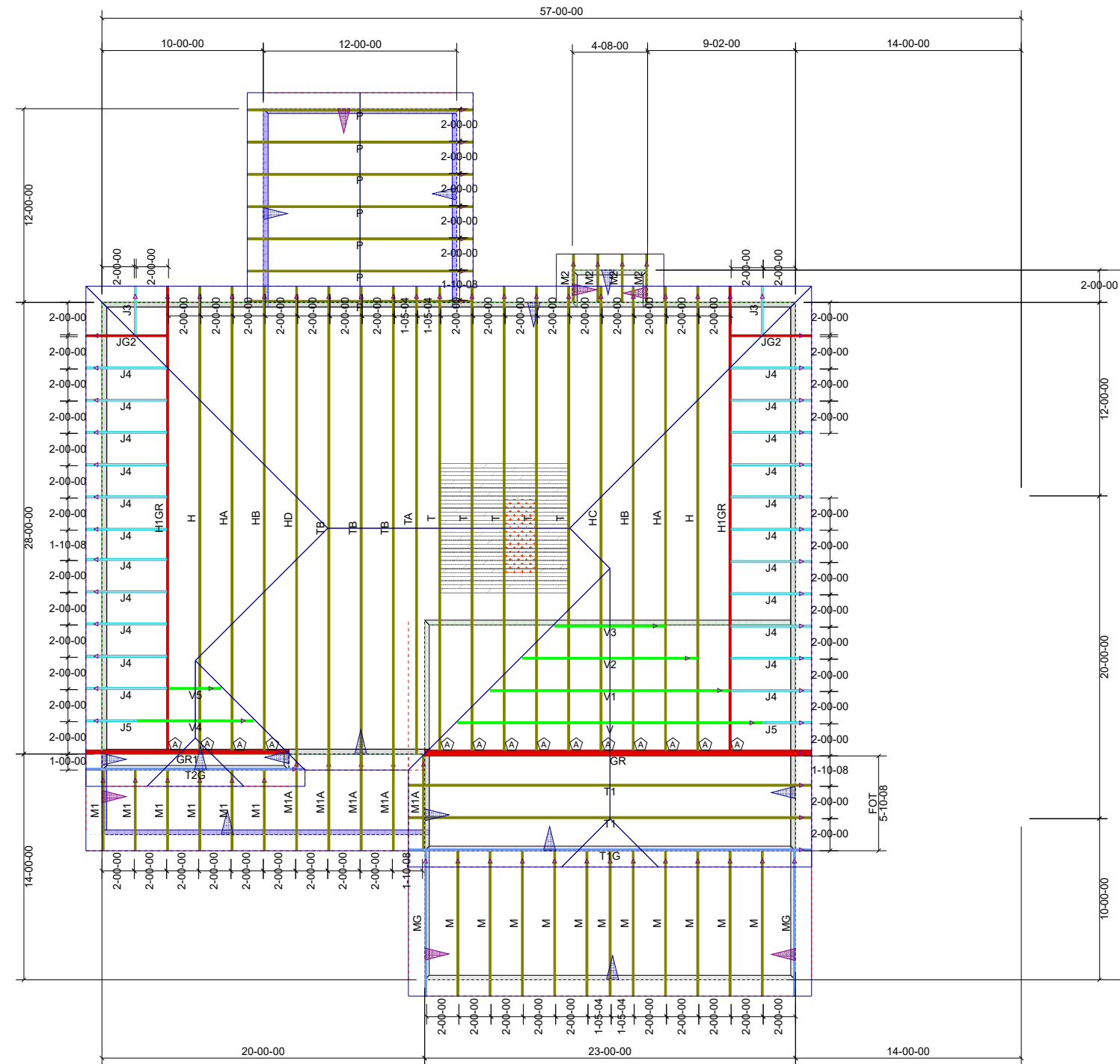
GENERAL NOTES:

DO NOT CUT OR MODIFY TRUSSES.

TRUSSES ARE SPACED 24" ON CENTER UNLESS NOTED OTHERWISE.

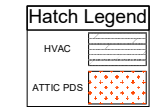
REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.

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



CAVINESS LAND CL-2310
COVERED REAR PORCH
AND THIRD CAR GARAGE
OPTIONS

TRUSS LEFT END = LEFT OR UP
JACKS LEFT END = OUTWARD



Hardware List:		
A	14	HUS26

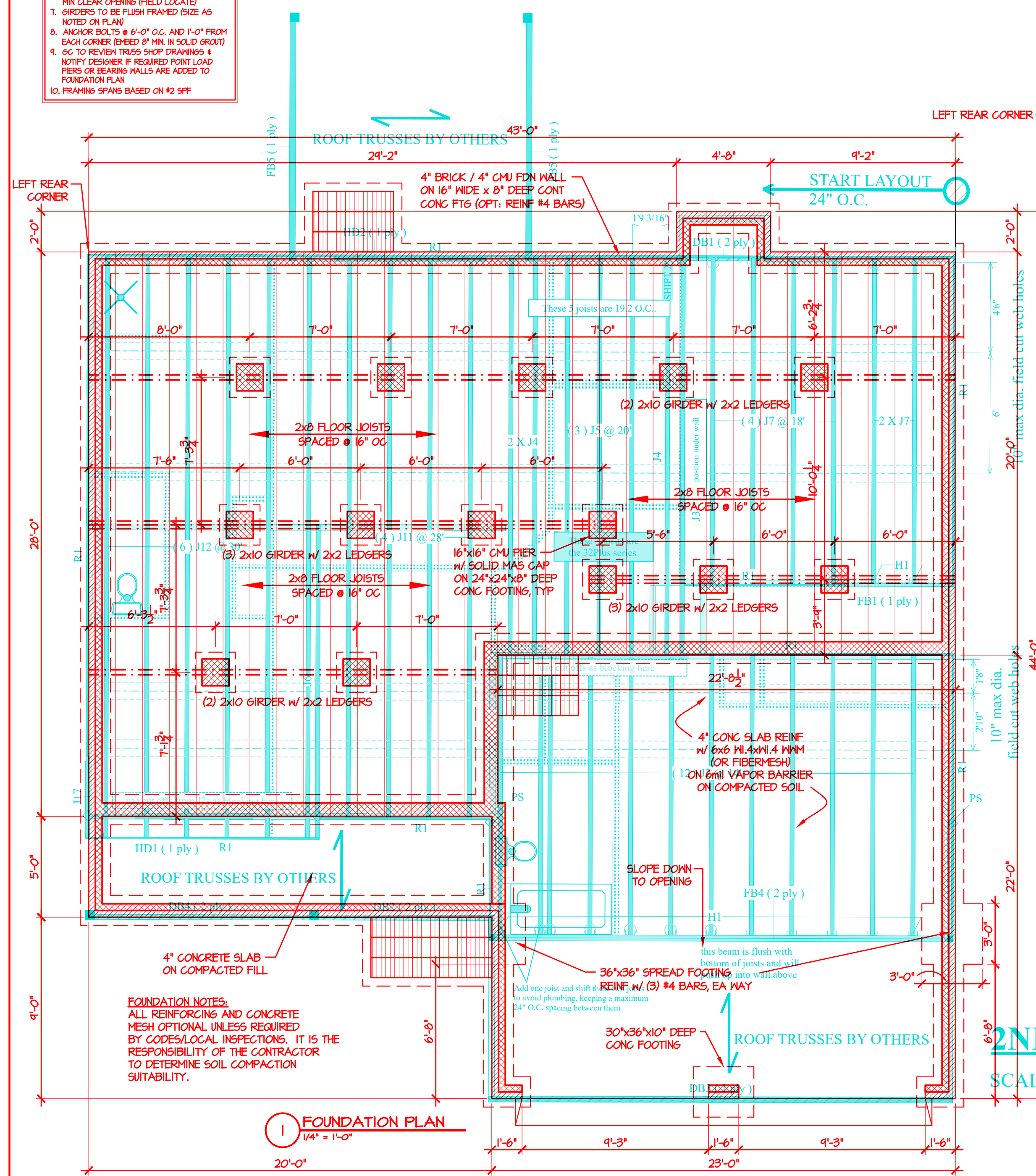
ROOF LOADING:
TOP LIVE: 20 PSF
TOP DEAD: 10 PSF
BOTTOM DEAD: 10 PSF
WIND SPEED: 130 MPH

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

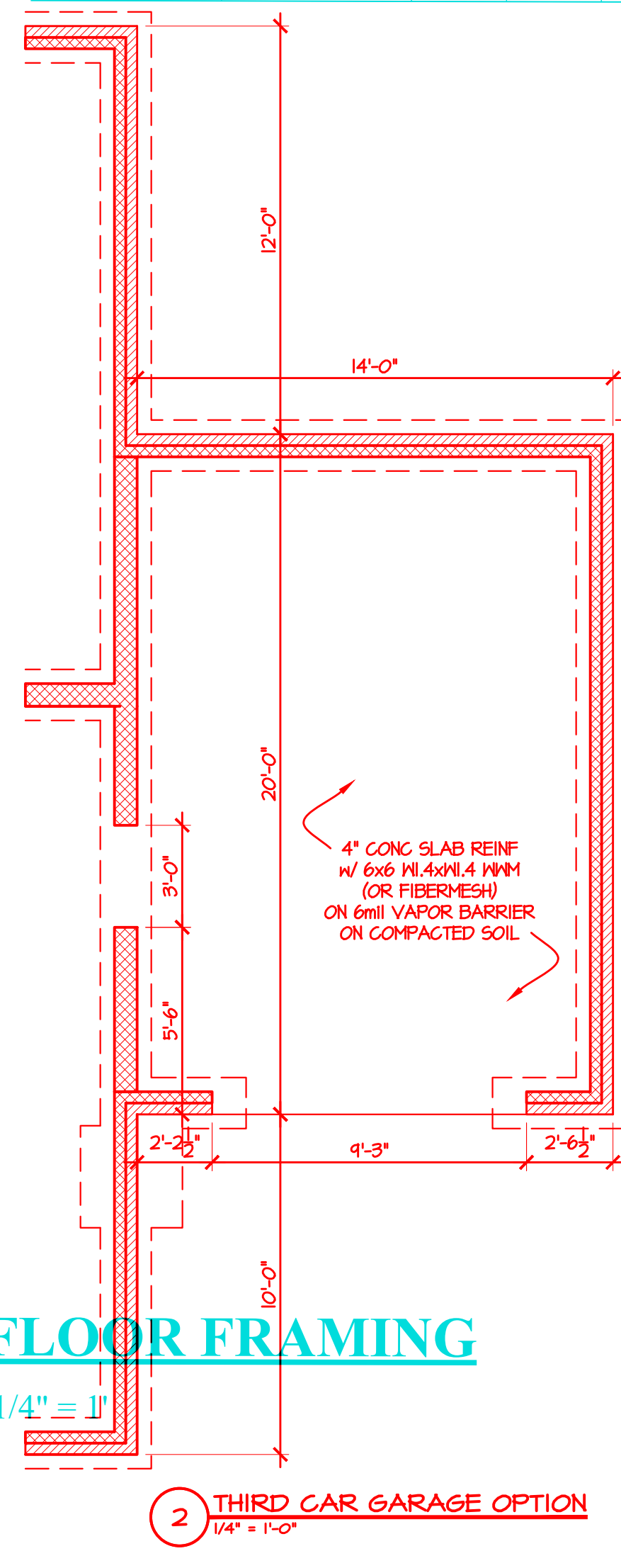
PROJECT:	CUSTOMER: Caviness Land		
MODEL:	CL-2310 CP GOR		
SCALE:	NOT TO SCALE	P.O. NUMBER: 31500	ORDER: 11470
DRAWN BY: JK	PRINT DATE: / /	REV: 7/18/16	SHIP DATE:

- FOUNDATION PLAN NOTES:**
- DOUBLE JOISTS UNDER ALL PARTITIONS
 - SILL TO BE P.T. WOOD 2x6
 - MAINTAIN MIN 12" BELOW GIRDERS & 18" BELOW JOISTS TO GRADE OR AS REQUIRED FOR MECHANICAL EQUIPMENT
 - PROVIDE VAPOR BARRIER AT CRAWL SPACE
 - FOUNDATION VENTS TO BE 8"HTx16"WD, W/ 50 SQ. IN. MIN. FREE VENT AREA
 - CRAWL SPACE ACCESS TO BE 22"x36" MIN CLEAR OPENING (FIELD LOCATE)
 - GIRDERS TO BE FLUSH FRAMED (SIZE AS NOTED ON PLAN)
 - ANCHOR BOLTS @ 6'-0" O.C. AND 1'-0" FROM EACH CORNER (EMBED 8" MIN. IN SOLID GROUT)
 - GC TO REVIEW TRUSS SHOP DRAWINGS & NOTIFY DESIGNER IF REQUIRED POINT LOAD PIERS OR BEARING WALLS ARE ADDED TO FOUNDATION PLAN
 - FRAMING SPANS BASED ON #2 SFP

- VENTILATION NOTES:**
- CRAWL SPACE AREA: 881 S.F.
1500 S.F. PER 1 S.F. VENTS = 0.6 S.F.
REQUIRED VENTS W/ V.B. + ONE VENT WITHIN 3' OF EA. CORNER = 3 VENT



Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
LVL/LSL (Flush)							
FB5	LP-LSL 1.55E	3.5	9.25			2	14'-0"
FB1	LP-LVL 2900FB-2					1	14'-0"
FB4	LP-LVL 2900FB-2	1.75	20			2	20'-0"
LVL/LSL (Dropped)							
HD2	LP-LSL 1.55E	3.5	9.25			1	14'-0"
HD1	LP-LSL 1.55E	3.5	9.25			1	14'-0"
DB3	LP-LSL 1.55E	3.5	11.875			1	24'-0"
Beam By Others (Dropped)							
DB4	[2x10]			1		2	14'-0"
DB2	[2x10]			1		2	14'-0"
DB1	[2x10]			1		2	14'-0"
Rim Board							
R1	LP APA Rated OSB 1.125 X 14	1.125	14			13	12'-0"
Hanger							
H1	IUS2.56/14 (Min)					14	12'-0"



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Building and Development Company
Building Excellence

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2nd Floor

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CL2310-4

FOUNDATION PLAN

DATE: NOVEMBER 2012

REVISIONS:

- 10/11/18 1/2 BATH / REAR DOOR
- 8/7/19 36"x48" SHOWER

SHEET NO: 3

CL2310-4

FOUNDATION PLAN

DATE: NOVEMBER 2012

REVISIONS:

- 10/11/18 1/2 BATH / REAR DOOR
- 8/7/19 36"x48" SHOWER

SHEET NO: 3