

NOTE: CONTRACTOR TO LOCATE WATER HEATER AND HYAC UNITS AT SITE.

FLOOR PLAN

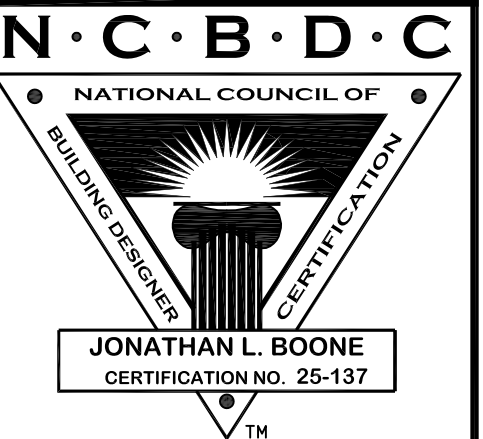
SCALE: 1/4" = 1'-0"

AREAS:	S.F. HEATED - NOT INCLUDING MASONRY
2044	S.F. HEATED - NOT INCLUDING MASONRY
624	S.F. UNHEATED - GARAGE
243	S.F. UNHEATED - REAR PORCH
37	S.F. UNHEATED - STORAGE
226	S.F. UNHEATED - FRONT PORCH
1180	S.F. UNHEATED - TOTAL
3224	S.F. TOTAL (WITHOUT MASONRY)

NOTES:

1. ALL DIMENSIONS & SITE CONDITIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
2. ALL FINISHES (INTERIOR & EXTERIOR) TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
3. VERIFY ALL DOOR AND WINDOW STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION. MANUFACTURER TO SUPPLY ALL ROUGH OPENING SIZES.
4. CONTRACTOR TO VERIFY ALL CLEARANCES OF ALL DOORS, WINDOWS AND OTHER ITEMS THAT ARE CRITICAL, PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO ADAPT PLANS AS REQUIRED TO MEET ALL APPLICABLE CODES AT SITE.
6. ALL BEAMS TO BE SIZED BY A LICENSED STRUCTURAL ENGINEER.
7. PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY SHALL HAVE GUARDS NOT LESS THAN 36 INCHES IN HEIGHT. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 34 INCHES IN HEIGHT MEASURED VERTICALLY FROM THE NOSING OF THE TREADS. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD. IRC 2018, R312.1.1 & R312.1.2
8. M1305.1.2 APPLIANCES IN ATTICS. ATTICS CONTAINING APPLIANCES SHALL BE PROVIDED WITH AN OPENING AND A CLEAR AND UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE, BUT NOT LESS THAN 30 INCHES HIGH AND 22 INCHES WIDE AND NOT MORE THAN 20 FEET LONG MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY FROM THE OPENING TO THE APPLIANCE. THE PASSAGEWAY SHALL HAVE CONTINUOUS SOLID FLOORING IN ACCORDANCE WITH CHAPTER 5 NOT LESS THAN 24 INCHES WIDE. A LEVEL SERVICE SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE SHALL BE PRESENT ALONG ALL SIDES OF THE APPLIANCE WHERE ACCESS IS REQUIRED. THE CLEAR ACCESS OPENING DIMENSIONS SHALL BE A MINIMUM OF 20 INCHES BY 30 INCHES, AND LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE.
- EXCEPTIONS:
 - a. THE PASSAGEWAY AND LEVEL SERVICE SPACE ARE NOT REQUIRED WHERE THE APPLIANCE CAN BE SERVICED AND REMOVED THROUGH THE REQUIRED OPENING.
 - b. WHERE THE PASSAGEWAY IS UNOBSTRUCTED AND NOT LESS THAN 6 FEET HIGH AND 22 INCHES WIDE FOR ITS ENTIRE LENGTH, THE PASSAGEWAY SHALL BE NOT MORE THAN 50 FEET LONG.
9. APPLIANCE ACCESS FOR INSPECTION SERVICE, REPAIR AND REPLACEMENT. APPLIANCES SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION, OTHER APPLIANCES, OR ANY OTHER PIPING OR DUCTS NOT CONNECTED TO THE APPLIANCE BEING INSPECTED, SERVICED, REPAIRED OR REPLACED. A LEVEL WORKING SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE SHALL BE PROVIDED IN FRONT OF THE CONTROL SIDE TO SERVICE AN APPLIANCE. M1305.1.1
10. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE. WINDOW OPENING CONTROL DEVICES COMPLYING WITH ASTM F 2090 SHALL BE PERMITTED FOR USE ON WINDOWS SERVING AS A REQUIRED EMERGENCY ESCAPE AND RESCUE OPENING. ALL SLEEPING ROOMS TO HAVE AN EXTERIOR ACCESS THROUGH A DOOR OR WINDOW WITH A MINIMUM OF 5.7 SQUARE FEET NET CLEAR OPENING AS PER IRC 2018 R310.2.1. EXCEPTION: GRADE FLOOR OR BELOW GRADE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET. MAXIMUM SILL HEIGHT TO BE 44 INCHES. MINIMUM NET CLEAR OPENING HEIGHT TO BE 24 INCHES. MINIMUM NET CLEAR OPENING WIDTH TO BE 20 INCHES.
11. ALL RETURN AIR GRILLS ARE TO BE LOCATED TO COMPLY WITH SECTION M1602 OF THE IRC 2018.
12. ALL SQUARE FOOTAGE MEASUREMENTS ARE APPROXIMATE AND MAY DIFFER FROM ACTUAL CONSTRUCTED RESIDENCE OR BUILDING.
13. FIRE SPRINKLER SYSTEM TO BE DESIGNED AND INSTALLED (IF REQUIRED BY LOCAL CODES) AS PER THE IRC 2018 AND BY A LICENSED PROFESSIONAL IN THE AREA OF CONSTRUCTION.
14. ALL BATHROOM EXHAUST VENTS SHALL BE VENTED DIRECTLY TO THE EXTERIOR OF THE HOME AND NOT INTO THE ATTIC. IRC 2018, M1505.2

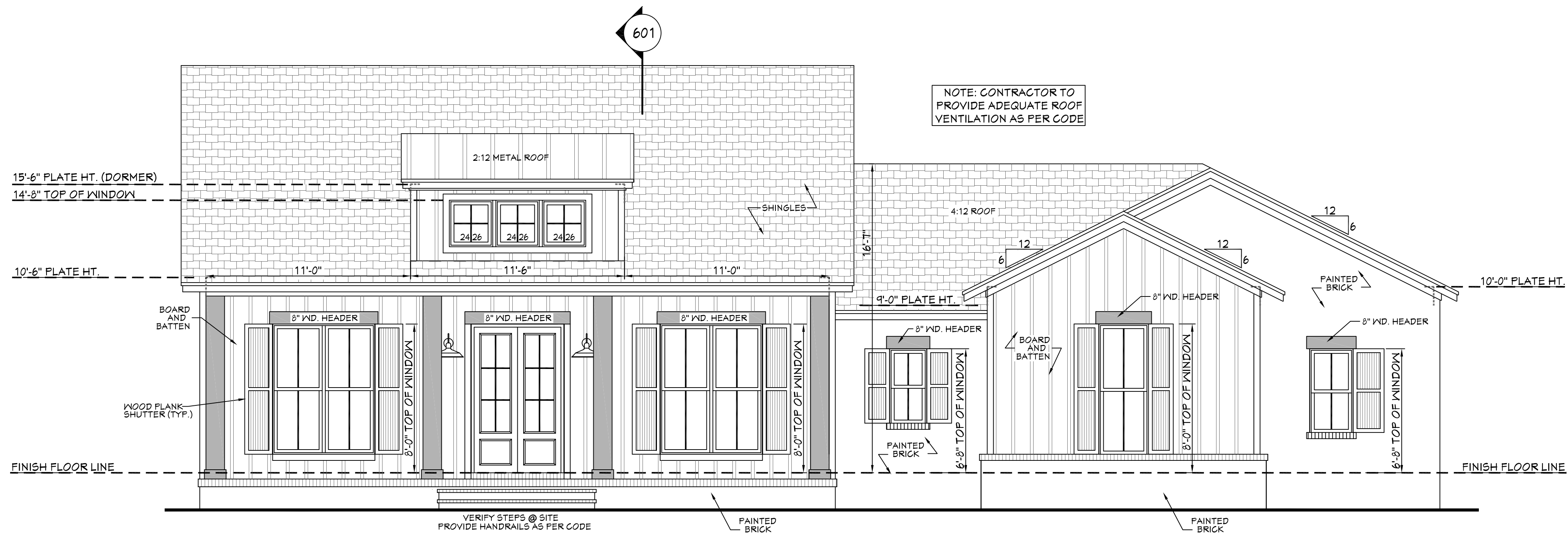
Website:
www.HFZplans.com
 Email:
sales@hpfzplans.com
 Phone:
 601.336.3254
 Fax:
 1.800.574.1387



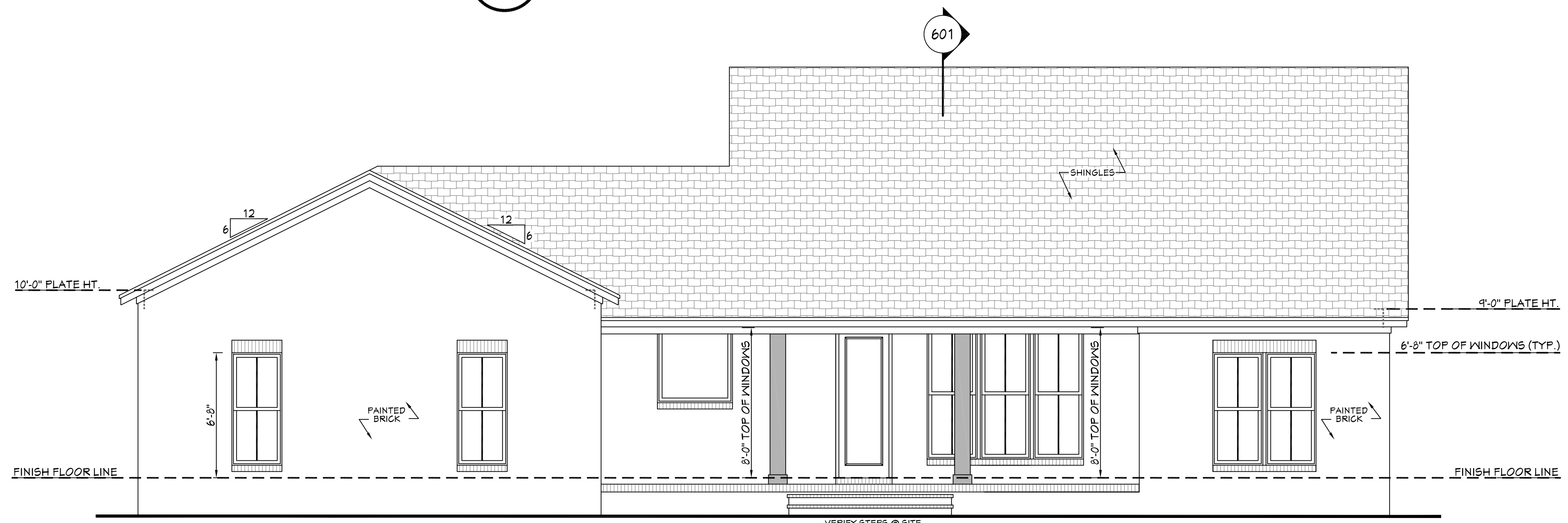
Pre-Drawn Plan ID:
BB-2044R

Date: 08.29.19
 Drawn By: B.L.L.

SHEET NUMBER
4

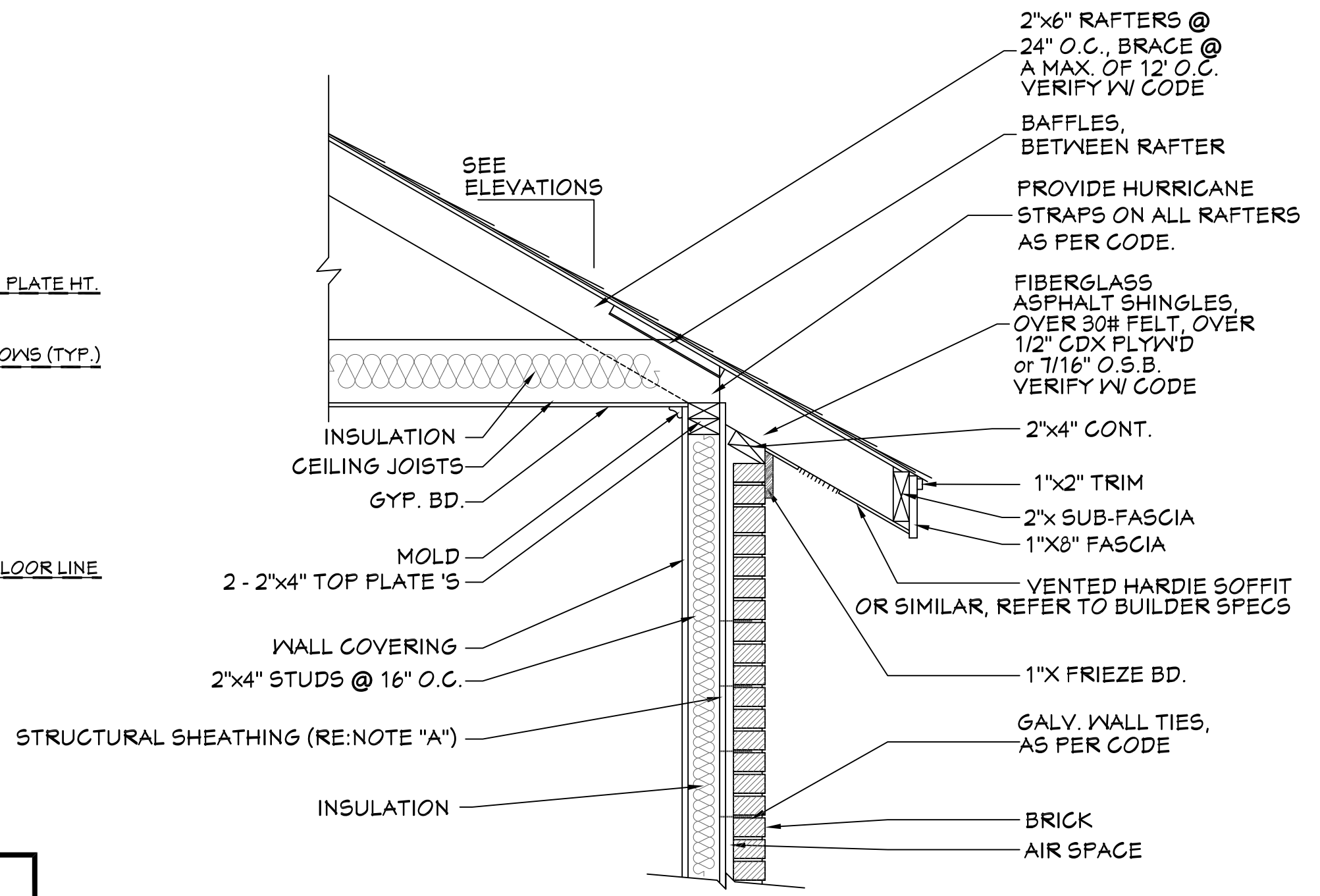


FRONT VIEW
 SCALE: 1/4" = 1'-0"

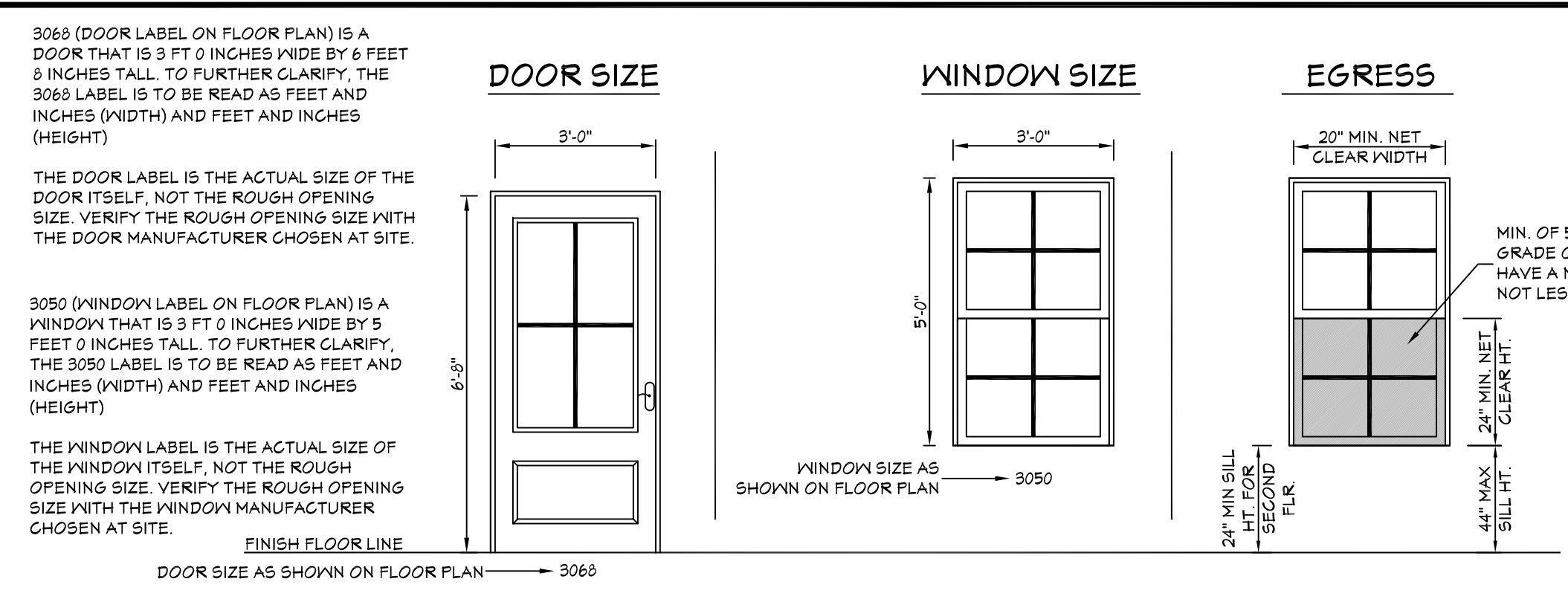


REAR VIEW
 SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATION NOTES:
 1. CONTRACTOR TO VERIFY ALL WINDOW AND DOOR STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION.
 2. PROVIDE STEPS AND GUARD RAILS AS PER CODE BASED ON SITE CONDITIONS.
 3. GROUND LINES SHOWN FOR REFERENCE ONLY AND VARY DEPENDING ON SITE CONDITIONS.
 4. ALL FINISH MATERIALS TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
 5. REFER TO TYPICAL WALL DETAIL FOR FRAMING METHODS AND OTHER MISC. INFORMATION.
 6. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D BY CURRENT CODES.



TYP. CORNICE DETAIL
 SCALE: 3/4" = 1'-0"



OPENING SIZES/ EGRESS
 SCALE: NTS

R311.1 Means of egress. Dwellings shall be provided with a means of egress in accordance with this section. The means of egress shall provide a continuous and unobstructed path of vertical and horizontal egress travel from all portions of the dwelling to the required egress door without requiring travel through a garage. The required egress door shall open directly into a public way or to a yard or court that opens to a public way.

R310.2.1 Minimum opening area. Emergency and escape rescue openings shall have a net clear opening of not less than 5.7 square feet (0.530 m²). The net clear opening dimensions required by this section shall be obtained by the normal operation of the emergency escape and rescue opening from the inside. The net clear height opening shall be not less than 24 inches (610 mm) and the net clear width shall be not less than 20 inches (508 mm). Exception: Grade floor or below grade openings shall have a net clear opening of not less than 5 square feet (0.465 m²).

R310.2.2 Window sill height. Where a window is provided as the emergency escape and rescue opening, it shall have a sill height of not more than 44 inches (1118 mm) above the floor where the sill height is below grade, it shall be provided with a window well in accordance with Section R310.2.3.

R310.2.3 Window wells. The horizontal area of the window well shall be not less than 9 square feet (0.9 m²), with a horizontal projection and width of not less than 36 inches (914 mm). The area of the window well shall allow the emergency escape and rescue opening to be fully opened. Exception: The ladder or steps required by Section R310.2.3.1 shall be permitted to encroach not more than 6 inches (152 mm) into the required dimensions of the window well.

R310.2.3.1 Ladder and steps. Window wells with a vertical depth greater than 44 inches (1118 mm) shall be equipped with a permanently affixed ladder or steps usable with the window in the fully open position. Ladders or steps required by this section shall not be required to comply with Sections R311.7 and R311.8. Ladders or rungs shall have an inside width of not less than 12 inches (305 mm), shall project not less than 3 inches (76 mm) from the wall and shall be spaced not more than 10 inches (254 mm) on center vertically for the full height of the window well.

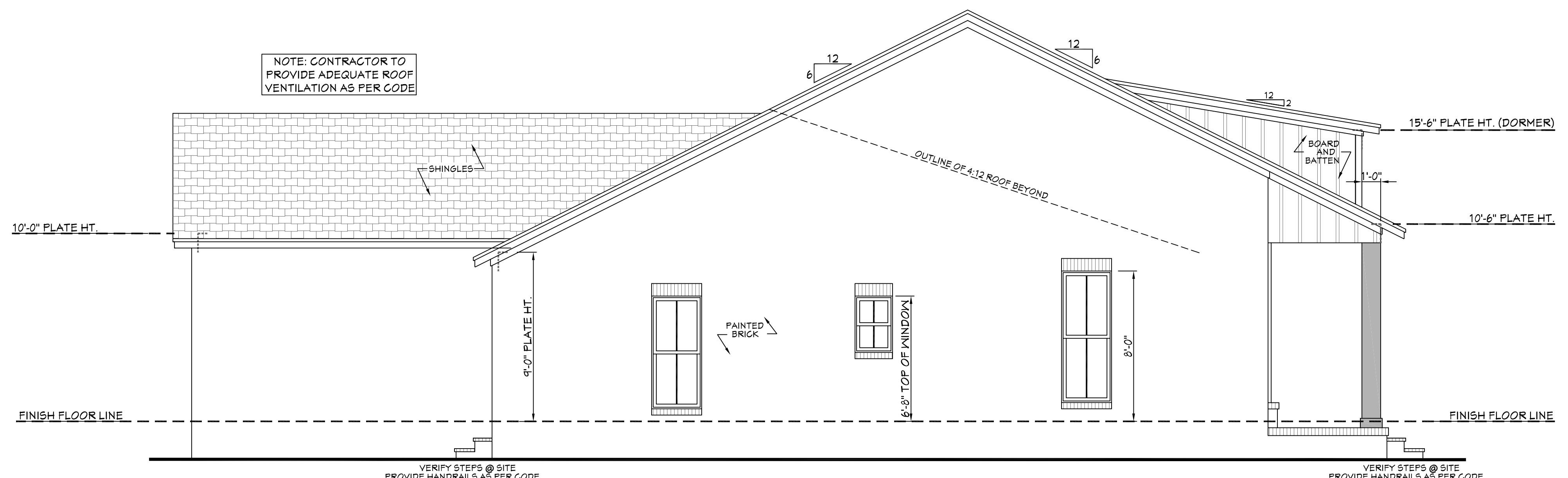
R312.2 Window fall protection. Window fall protection shall be provided in accordance with Sections R312.2.1 and R312.2.2.

R312.2.1 Window sills. In dwelling units, where the top of the sill of an operable window opening is located less than 24 inches (610 mm) above the finished floor and greater than 12 inches (305 mm) above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following:

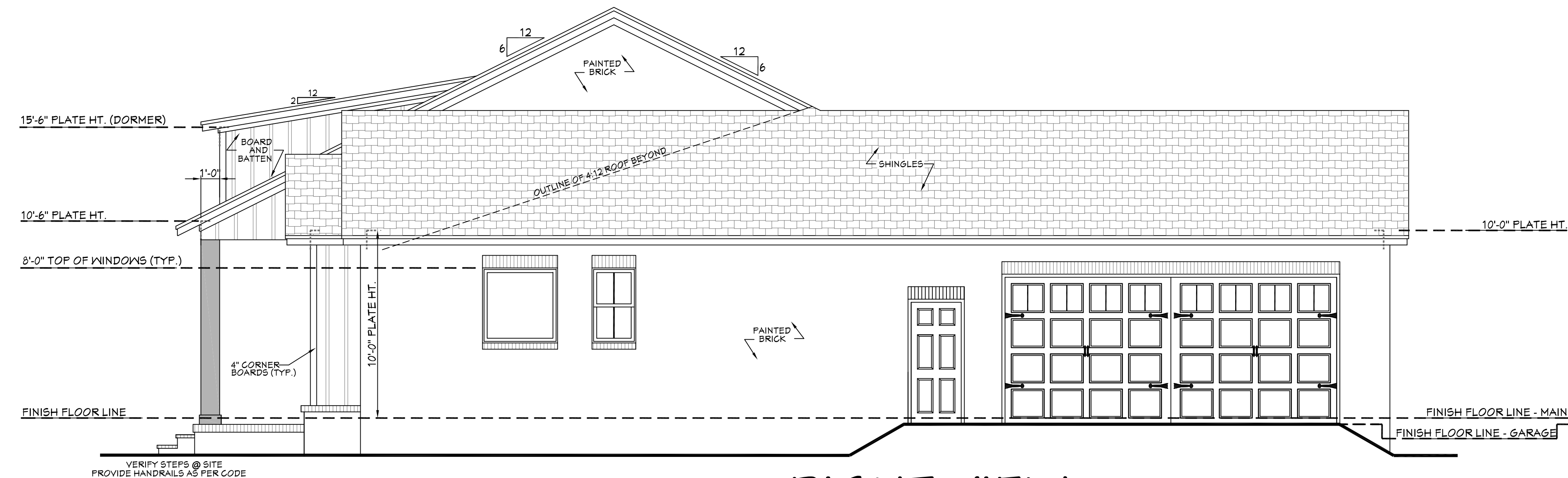
- Operable window with openings that will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening where the opening is in its largest opened position.
- Operable window that are provided with window fall prevention devices that comply with ASTM F 2090.
- Operable window that are provided with window opening control devices that comply with Section R312.2.

R312.2.2 Window opening control devices. Window opening control devices shall comply with ASTM F 2090. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the net clear opening area of the window unit to less than the area required by Section R310.2.1.

House Plan Zone, LLC has exercised great care and effort in the development of these plans and the completion of these construction documents. However, the user assumes full responsibility for any damages, including structural failures resulting from errors, omissions or deficiencies in the design. House Plan Zone, LLC highly recommends that these plans be reviewed by a licensed structural engineer in the area of construction. Other special conditions may apply to these plans. All dimensions to be verified on site prior to construction. If a foundation plan has been included in these plans, it is general in nature and shall be verified by a licensed engineer prior to construction.



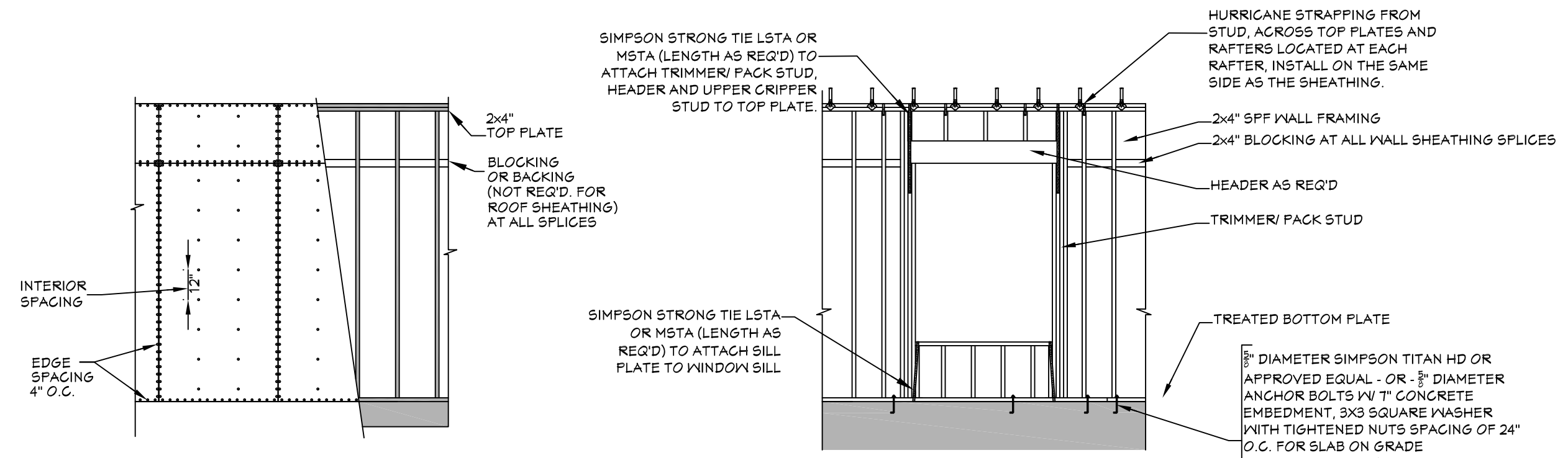
501 LEFT VIEW
SCALE----- 1/4" = 1'-0"



502 RIGHT VIEW
SCALE----- 1/4" = 1'-0"

EXTERIOR ELEVATION NOTES:

1. CONTRACTOR TO VERIFY ALL WINDOW AND DOOR STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION.
2. PROVIDE STEPS AND GUARD RAILS AS PER CODE BASED ON SITE CONDITIONS.
3. GROUND LINES SHOWN FOR REFERENCE ONLY AND VARY DEPENDING ON SITE CONDITIONS.
4. ALL FINISH MATERIALS TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
5. REFER TO TYPICAL WALL DETAIL FOR FRAMING METHODS AND OTHER MISC. INFORMATION.
6. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D BY CURRENT CODES.



503 WALL/ROOF FASTENING DETAILS
SCALE----- 1/4" = 1'-0"

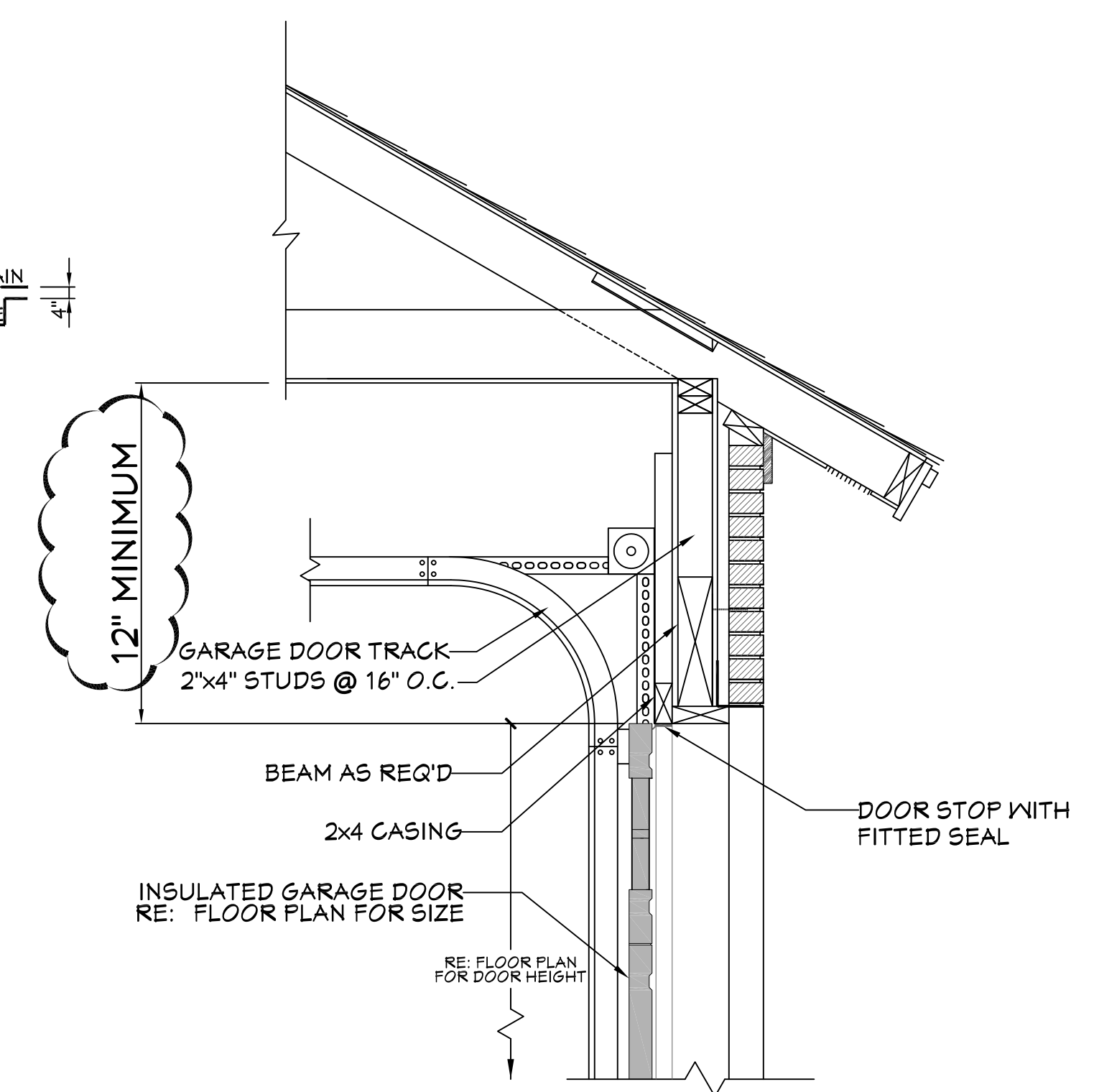
NAIL SIZE SPACING FOR WALL SHEATHING

8d NAILS
MIN. OF 7/16" O.S.B.
EDGE SPACING = 4" O.C.
INTERIOR SPACING = 12" O.C.

NAIL SIZE SPACING FOR ROOF SHEATHING

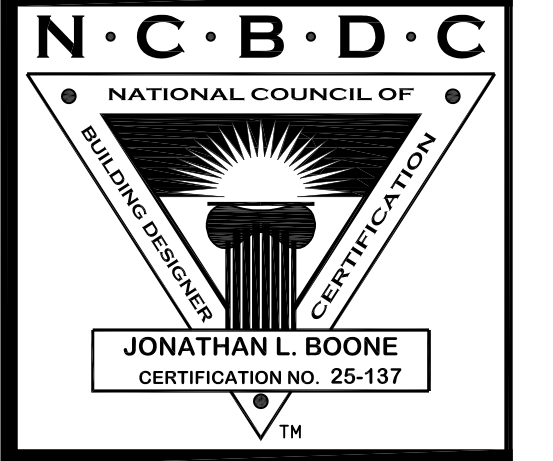
8d NAILS
MIN. OF 7/16" O.S.B.
EDGE SPACING = 4" O.C.
INTERIOR SPACING = 4" O.C.

- NOTES:
1. ALL EXTERIOR SHEATHING TO EXTEND FROM BOTTOM OF BOTTOM PLATE TO THE TOP OF THE TOP PLATES.
 2. PROVIDE 2x4 OR GREATER COLLAR TIES ON EACH RAFTER IN THE UPPER THIRD OF ATTIC AND ATTACHED TO RAFTERS WITH 5 - 10d NAILS ON EACH SIDE SHINGLES OR OTHER ROOF MATERIALS TO BE FASTENED AS PER MANUFACTURERS INSTRUCTIONS FOR HIGH WIND APPLICATIONS.
 3. EXTERIOR WALL FINISHES TO BE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS BASED ON HIGH WIND APPLICATIONS.



504 GARAGE DOOR CLEARANCE
SCALE----- N.T.S.
THE INTENT OF THIS DETAIL IS TO SHOW THE MINIMUM REQUIRED DISTANCE FROM THE TOP OF THE GARAGE DOOR OPENING TO THE CEILING OF THE GARAGE.

Website:
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601.336.3254
Fax:
1.800.574.1387



Pre-Drawn Plan ID:
BB-2044R

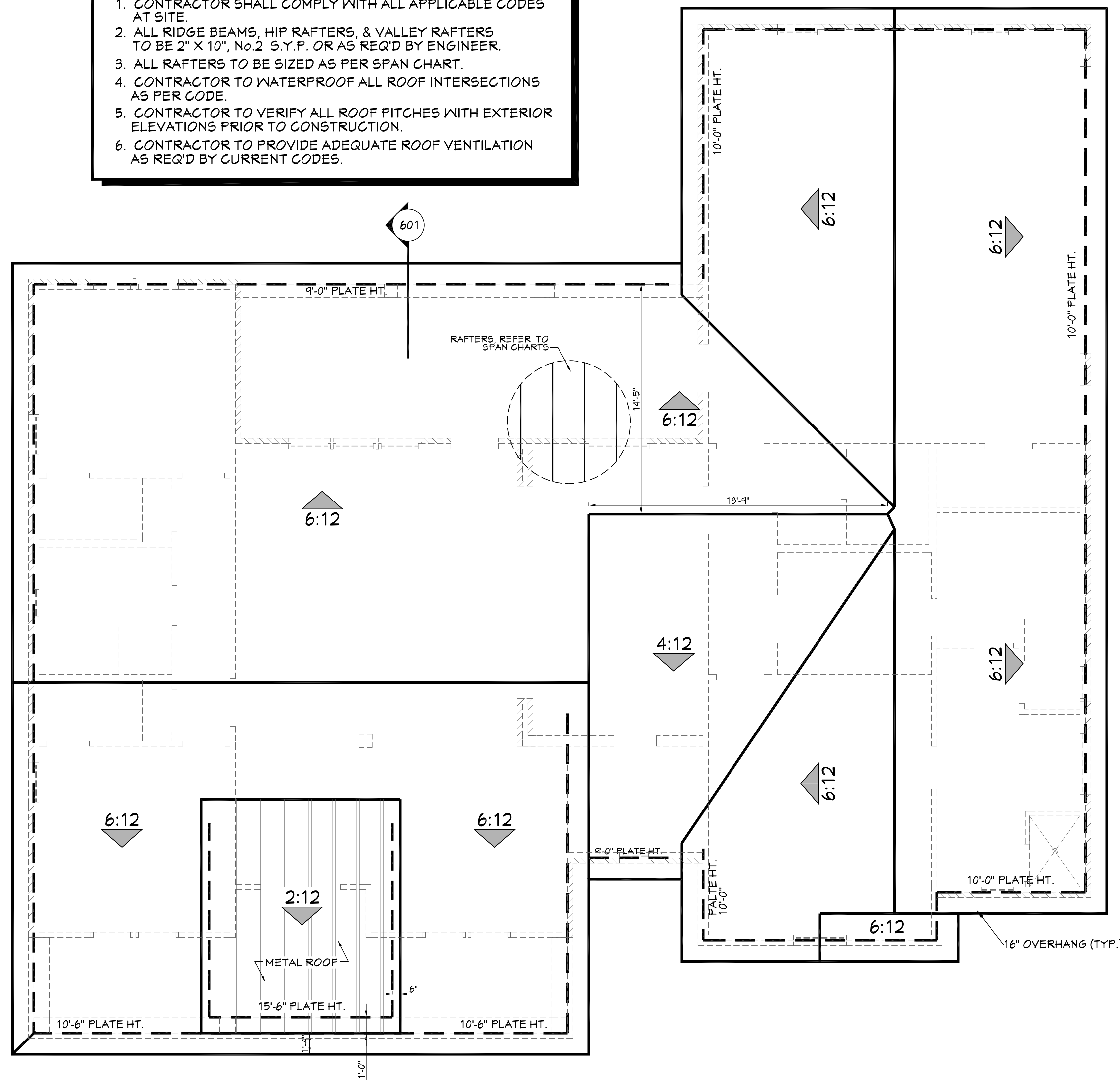
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Date:
08.29.19
Drawn By:
B.L.L.

SHEET NUMBER
5

ROOF PLAN NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AT SITE.
2. ALL RIDGE BEAMS, HIP RAFTERS, & VALLEY RAFTERS TO BE 2" X 10", No.2 S.Y.P. OR AS REQ'D BY ENGINEER.
3. ALL RAFTERS TO BE SIZED AS PER SPAN CHART.
4. CONTRACTOR TO WATERPROOF ALL ROOF INTERSECTIONS AS PER CODE.
5. CONTRACTOR TO VERIFY ALL ROOF PITCHES WITH EXTERIOR ELEVATIONS PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D BY CURRENT CODES.



701 ROOF PLAN
SCALE..... 1/4" = 1'-0"

HIP/VALLEY CONVERSION

IF COMMON RAFTER ROOF PITCH IS:			THEN HIP/VALLEY RAFTER ROOF PITCH BECOMES...		
RISE/RUN	SLOPE		RISE/RUN	SLOPE	
1/12	5°		1/11	3°	
2/12	10°		2/11	7°	
3/12	14°		3/11	10°	
4/12	18°		4/11	13°	
5/12	23°		5/11	16°	
6/12	27°		6/11	19°	
7/12	30°		7/11	22°	
8/12	34°		8/11	25°	
9/12	37°		9/11	28°	
10/12	40°		10/11	30°	
11/12	42°		11/11	33°	
12/12	45°		12/11	35°	

CONVERSION CHART FOR SIMPLE ROOFS ONLY. CHART DOES NOT APPLY FOR DUAL PITCH ROOFS.

RAFTER LENGTH CHART

ROOF PITCH	FACTOR
3/12	1.05
4/12	1.07
5/12	1.10
6/12	1.14
7/12	1.17
8/12	1.20
9/12	1.25
10/12	1.30
11/12	1.35
12/12	1.40
14/12	1.54
16/12	1.70

MULTIPLY HORIZONTAL SPAN OF MEMBER BY FACTOR. CHOOSE APPROPRIATE FACTOR BY ROOF PITCH.

CEILING JOIST SPANS

CEILING JOIST SPANS FOR SOUTHERN PINE SPECIES (UNINHABITABLE ATTICS WITH LIMITED STORAGE, LIVE LOAD = 20psf, L/Δ=240) DEAD LOAD = 10psf)

IF HABITABLE ATTIC SPACE IS DESIRED, REFER TO THE INTERNATIONAL RESIDENTIAL CODE, SPAN TABLES.

SIZE	SPACING (INCHES)	VISUALLY GRADED #2 SOUTHERN PINE (MAXIMUM CEILING JOIST SPANS) (FT. - IN.)
2 x 4	12.0	4-3
	16.0	8-0
	19.2	7-4
	24.0	6-7
2 x 6	12.0	13-11
	16.0	12-0
	19.2	11-0
	24.0	9-10
2 x 8	12.0	17-7
	16.0	15-3
	19.2	13-11
	24.0	12-6
2 x 10	12.0	20-11
	16.0	18-1
	19.2	16-6
	24.0	14-9

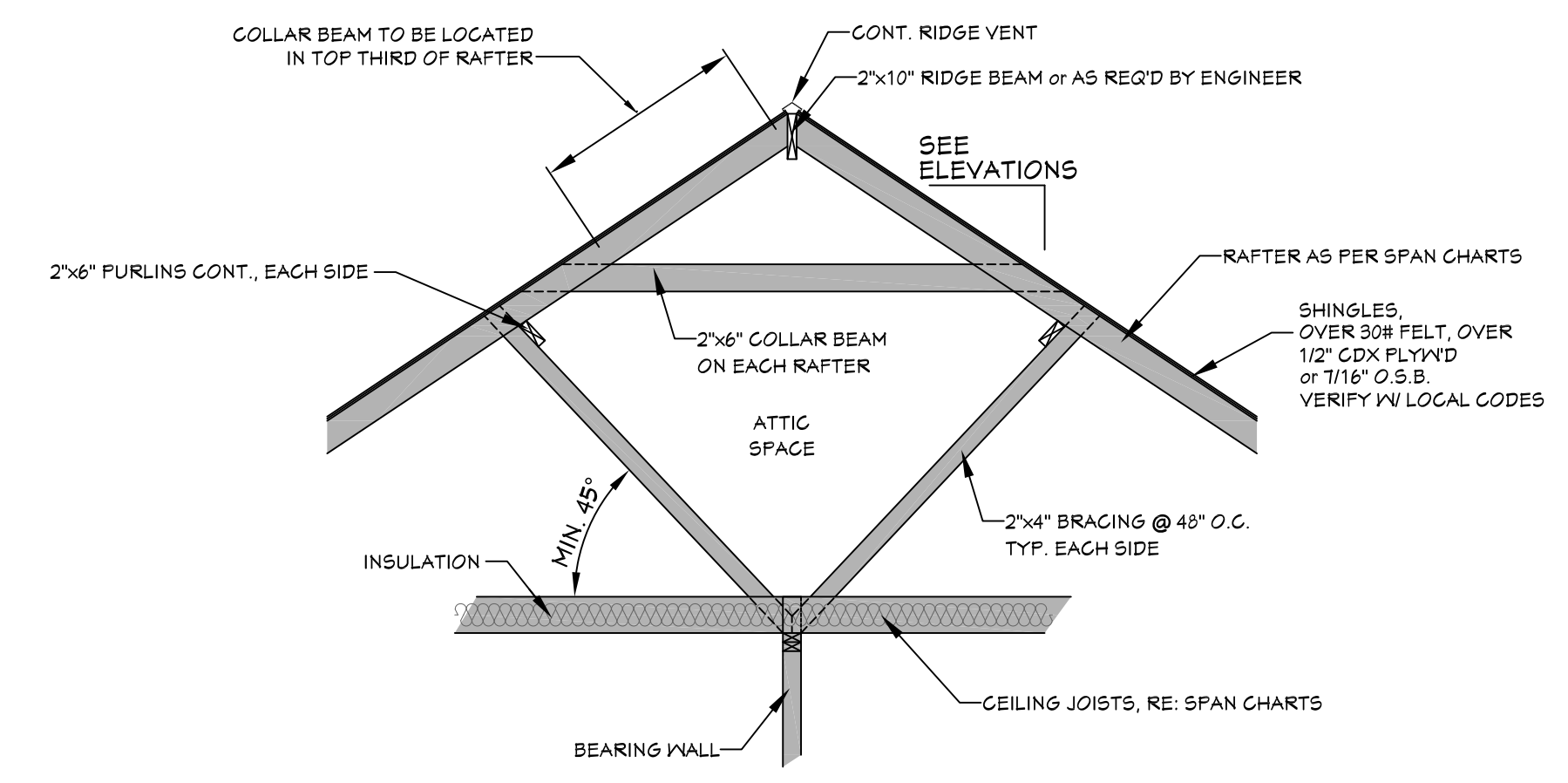
NOTES:
The above tables are based on the IRC 2018 TABLE R802.5.1(2)

RAFTER SPANS

RAFTER SPANS FOR SOUTHERN PINE SPECIES (LIVE LOAD=30psf, L/Δ=180 DEAD LOAD = 10psf)

SIZE	SPACING (INCHES)	SPANS (MAXIMUM RAFTER SPANS BETWEEN BRACING) (FT. - IN.)
2 x 6	12.0	12-11
	16.0	11-2
	19.2	10-2
	24.0	9-2
2 x 8	12.0	16-4
	16.0	14-2
	19.2	12-11
2 x 10	12.0	19-5
	16.0	16-10
	19.2	15-4
	24.0	13-9
2 x 12	12.0	22-10
	16.0	19-10
	19.2	18-1
	24.0	16-2

NOTES:
The above tables are based on the IRC 2018 TABLE R802.4.1(3)



702 TYP. ROOF BRACING
SCALE..... N.T.S.

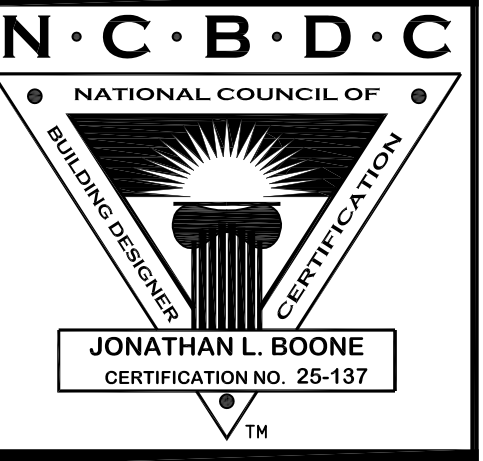
Designing Homes
HOUSE PLAN ZONE
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Pre-Drawn Plan ID:
BB-2044R

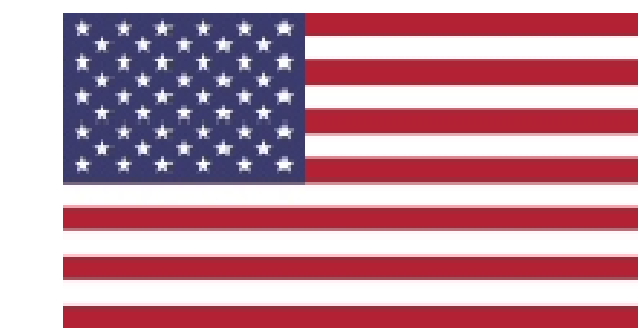
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Date:
08.29.19

Drawn By:
B.L.L.

SHEET NUMBER

7

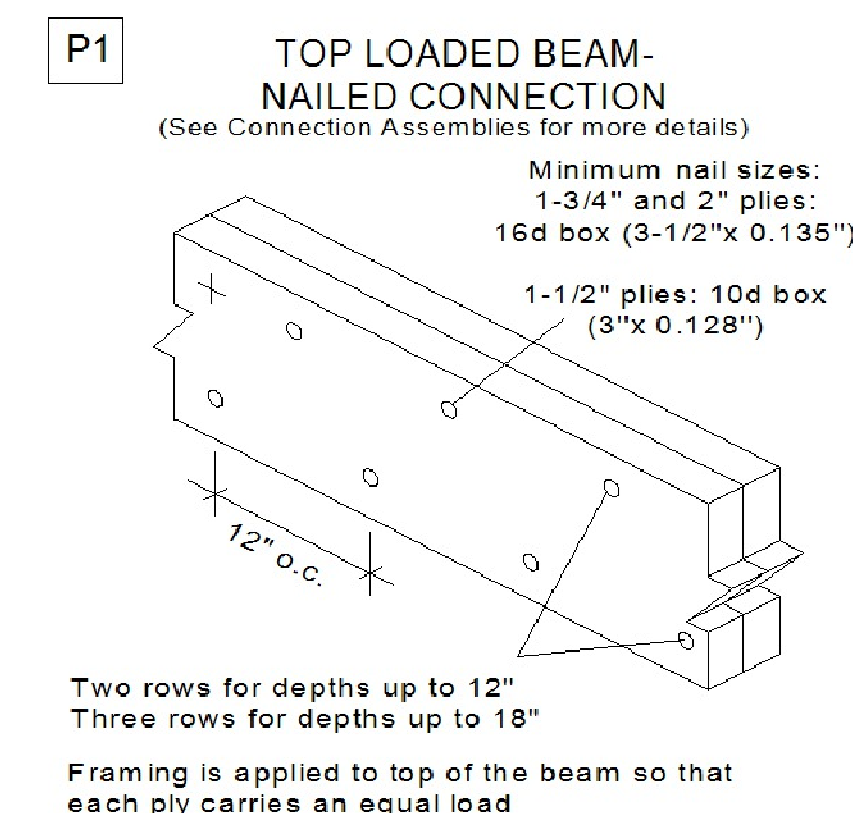


U. S. LUMBER

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%.



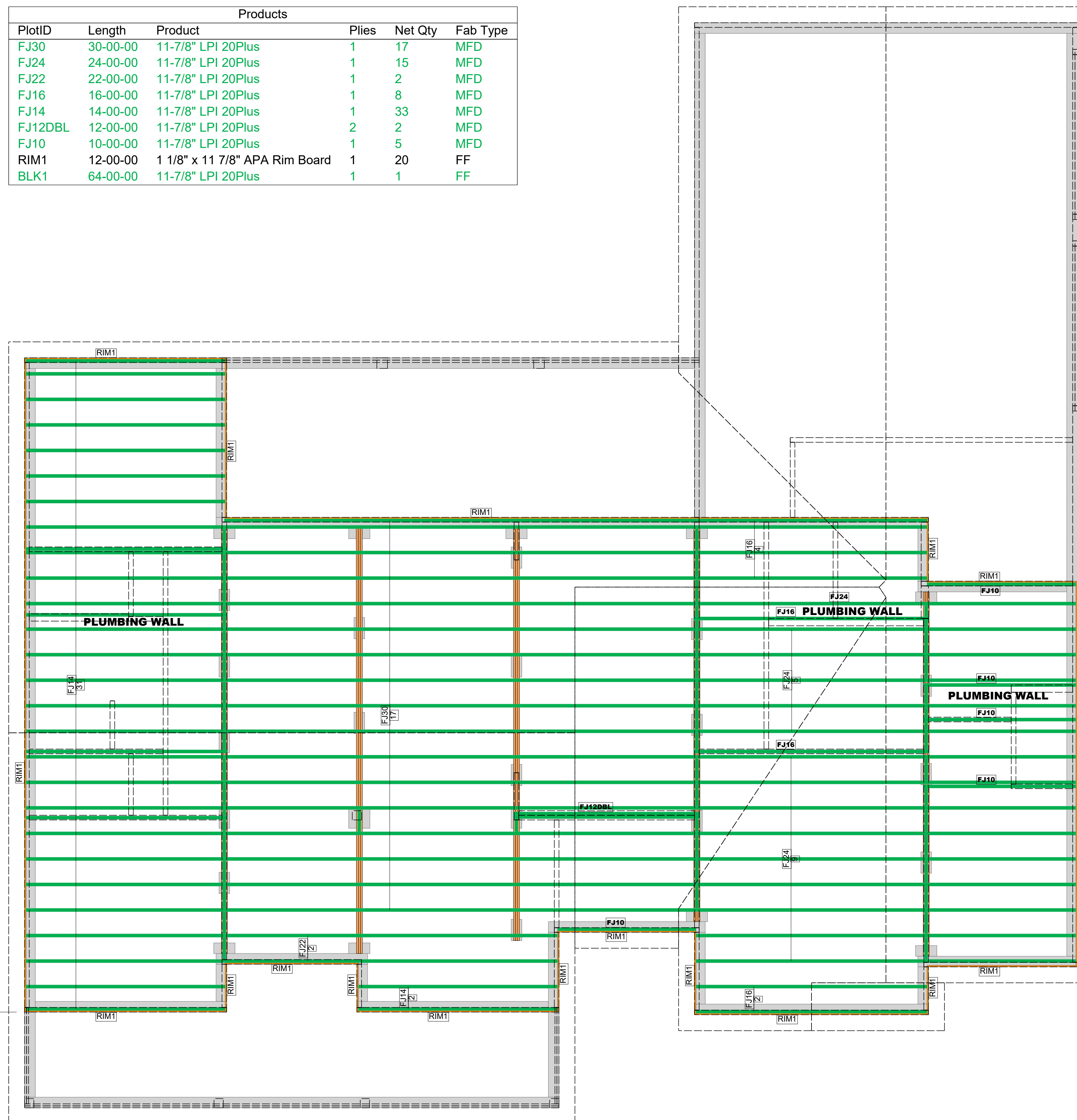
Customer Name:
BRAD CUMMINGS

Job Name:
BURGESS/SPRING HILL CHURCH RD.

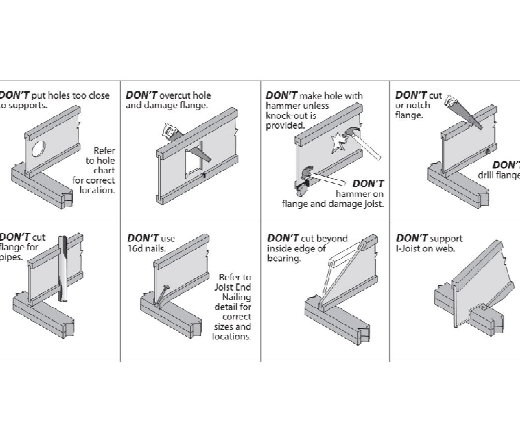
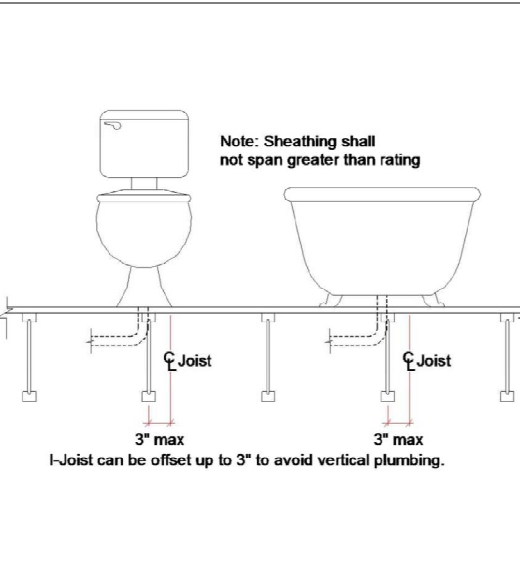
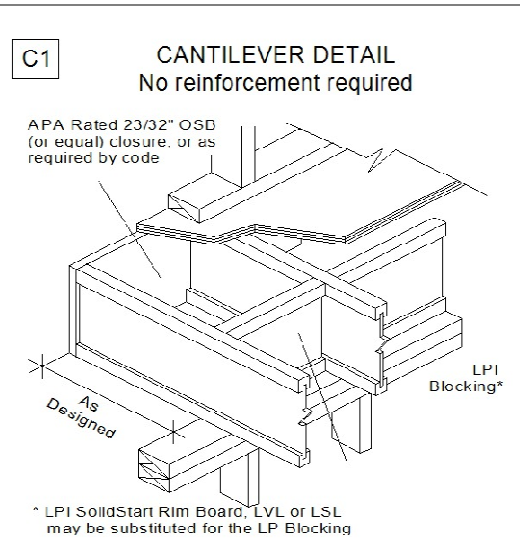
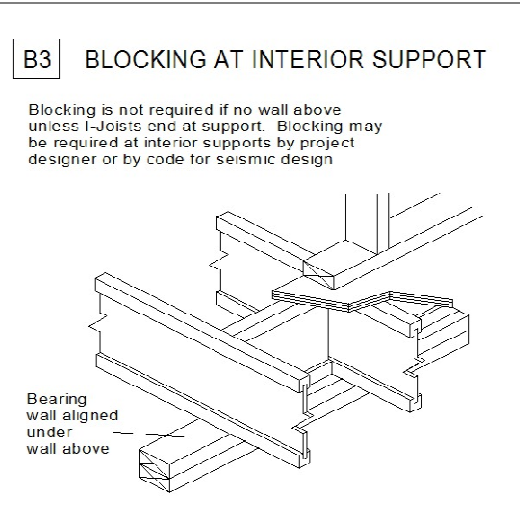
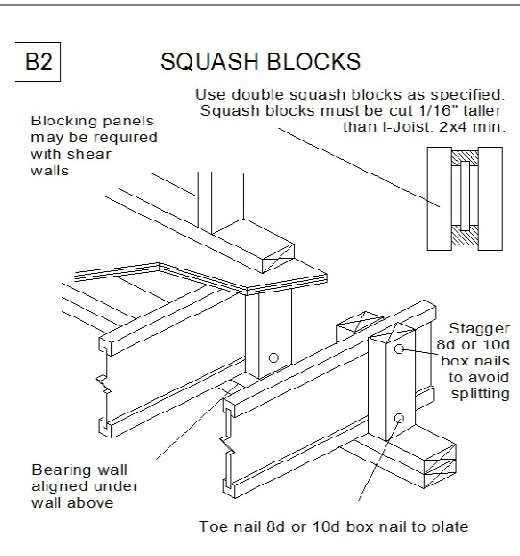
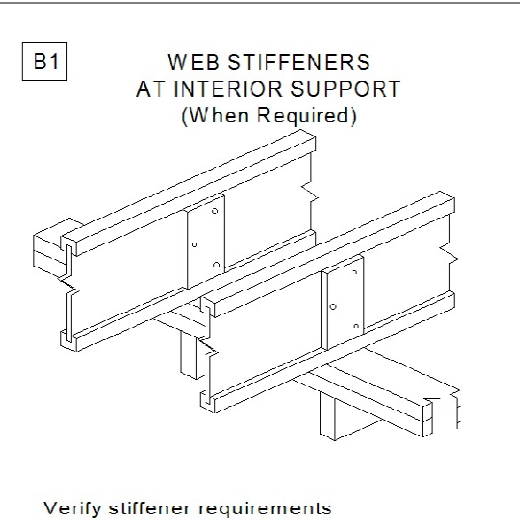
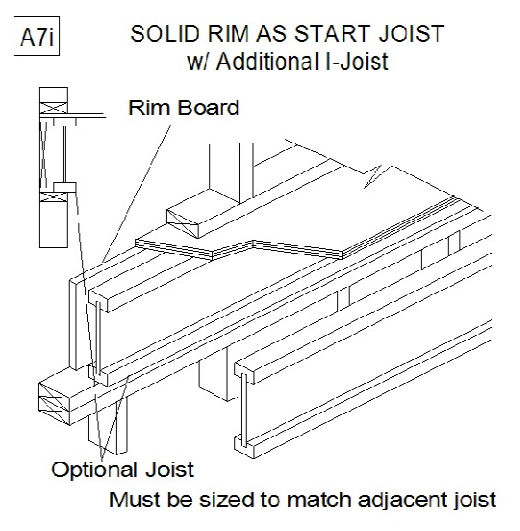
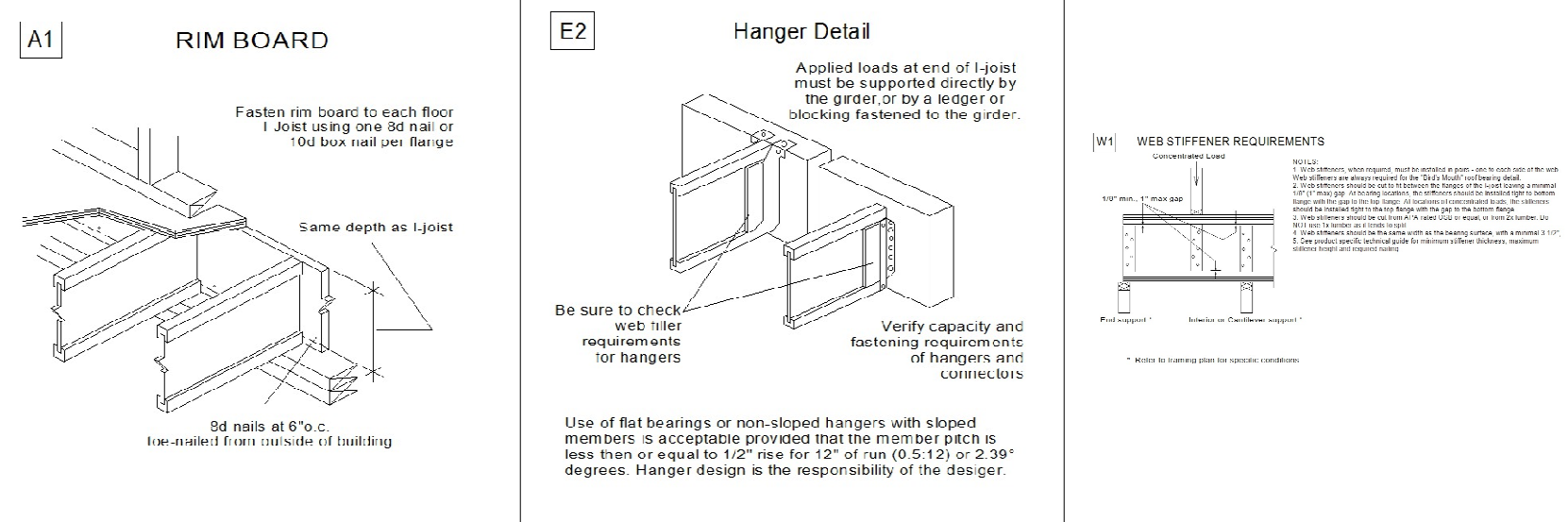
Designer:
Tony Huneycutt

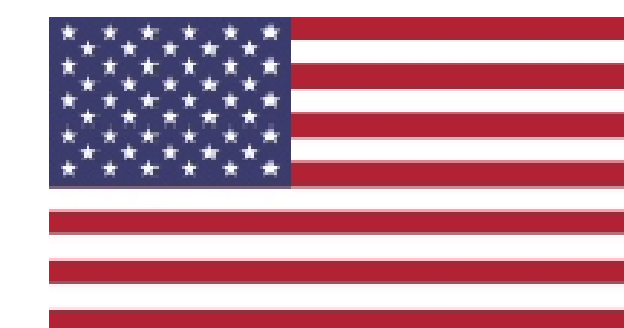
Salesman:
EDDIE BAUER

Scale: 1/4" = 1' Date: 10/13/20 1ST FLOOR



PlotID	Length	Product	Plies	Net Qty	Fab Type
FJ30	30-00-00	11-7/8" LPI 20Plus	1	17	MFD
FJ24	24-00-00	11-7/8" LPI 20Plus	1	15	MFD
FJ22	22-00-00	11-7/8" LPI 20Plus	1	2	MFD
FJ16	16-00-00	11-7/8" LPI 20Plus	1	8	MFD
FJ14	14-00-00	11-7/8" LPI 20Plus	1	33	MFD
FJ12DBL	12-00-00	11-7/8" LPI 20Plus	2	2	MFD
FJ10	10-00-00	11-7/8" LPI 20Plus	1	5	MFD
RIM1	12-00-00	1 1/8" x 11 7/8" APA Rim Board	1	20	FF
BLK1	64-00-00	11-7/8" LPI 20Plus	1	1	FF



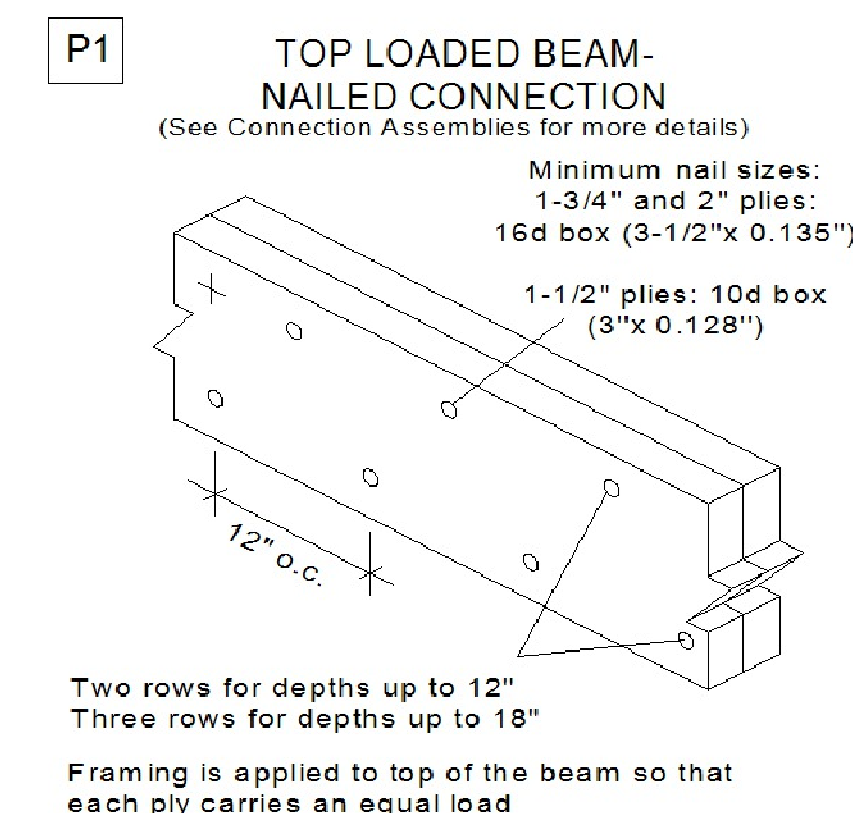


U. S. LUMBER

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- 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%.



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BRAD CUMMINGS

Job Name:
BURGESS/SPRING HILL CHURCH RD.

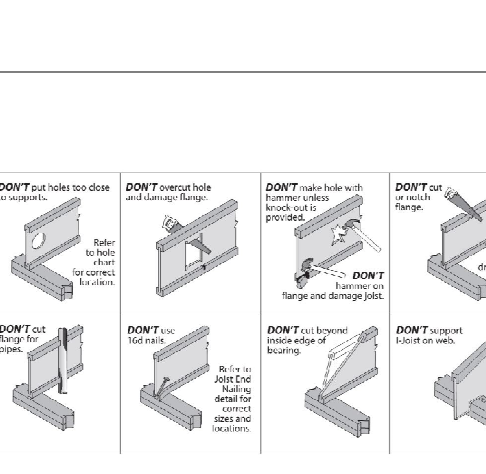
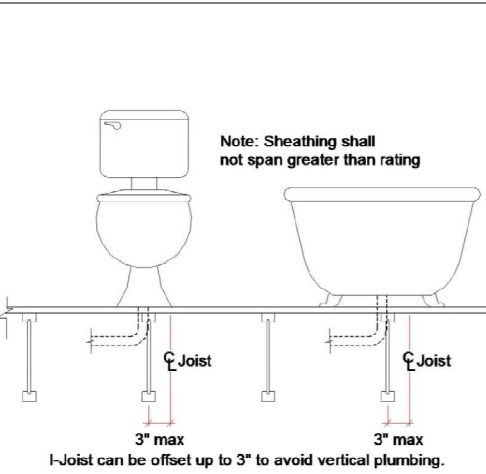
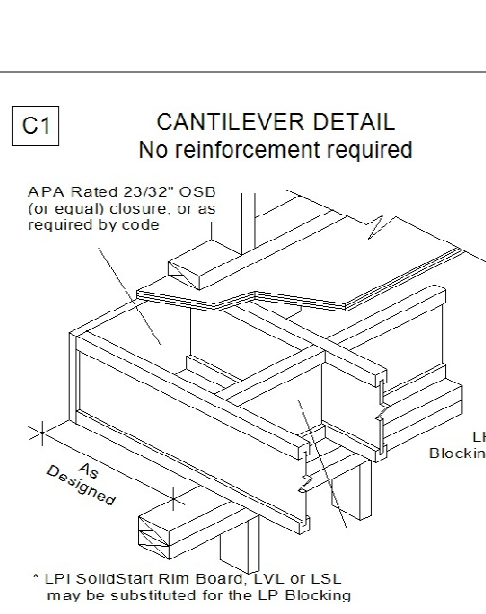
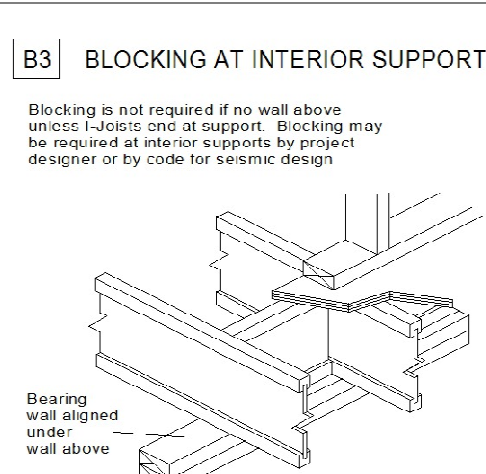
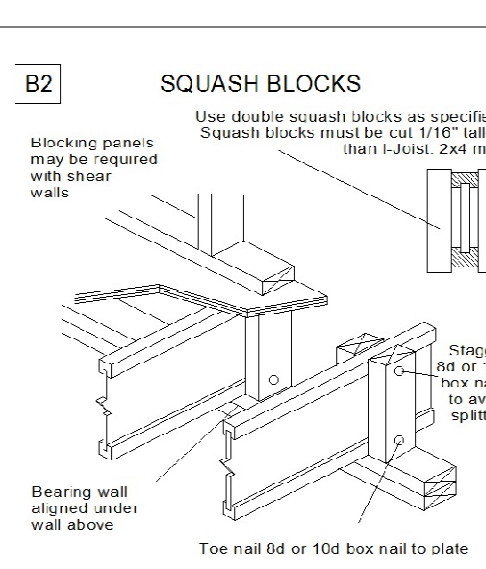
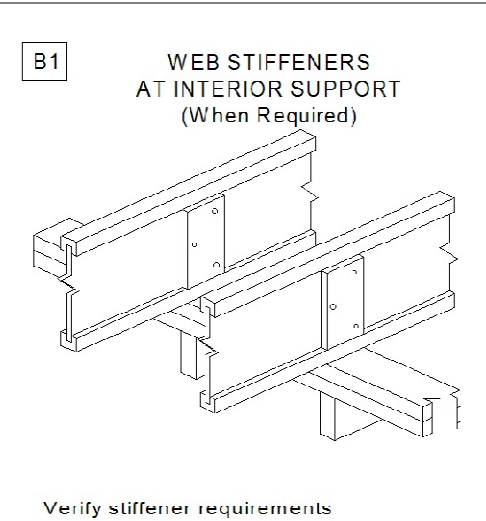
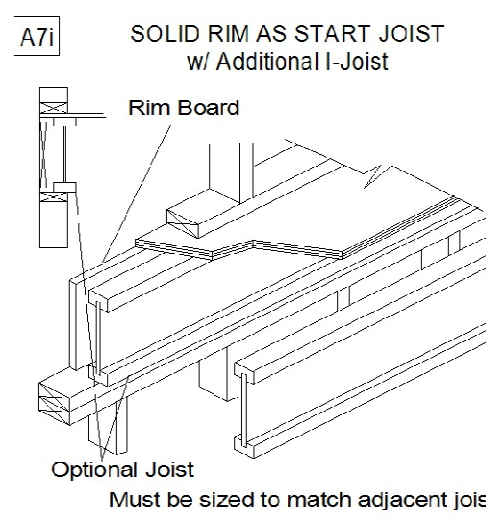
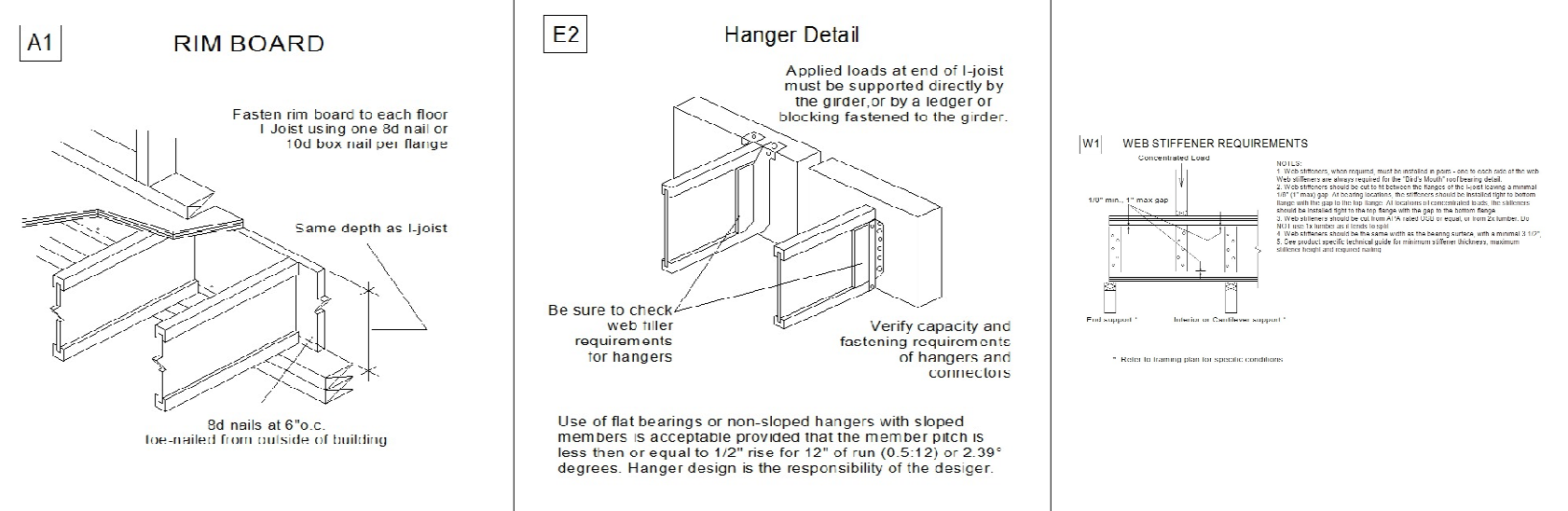
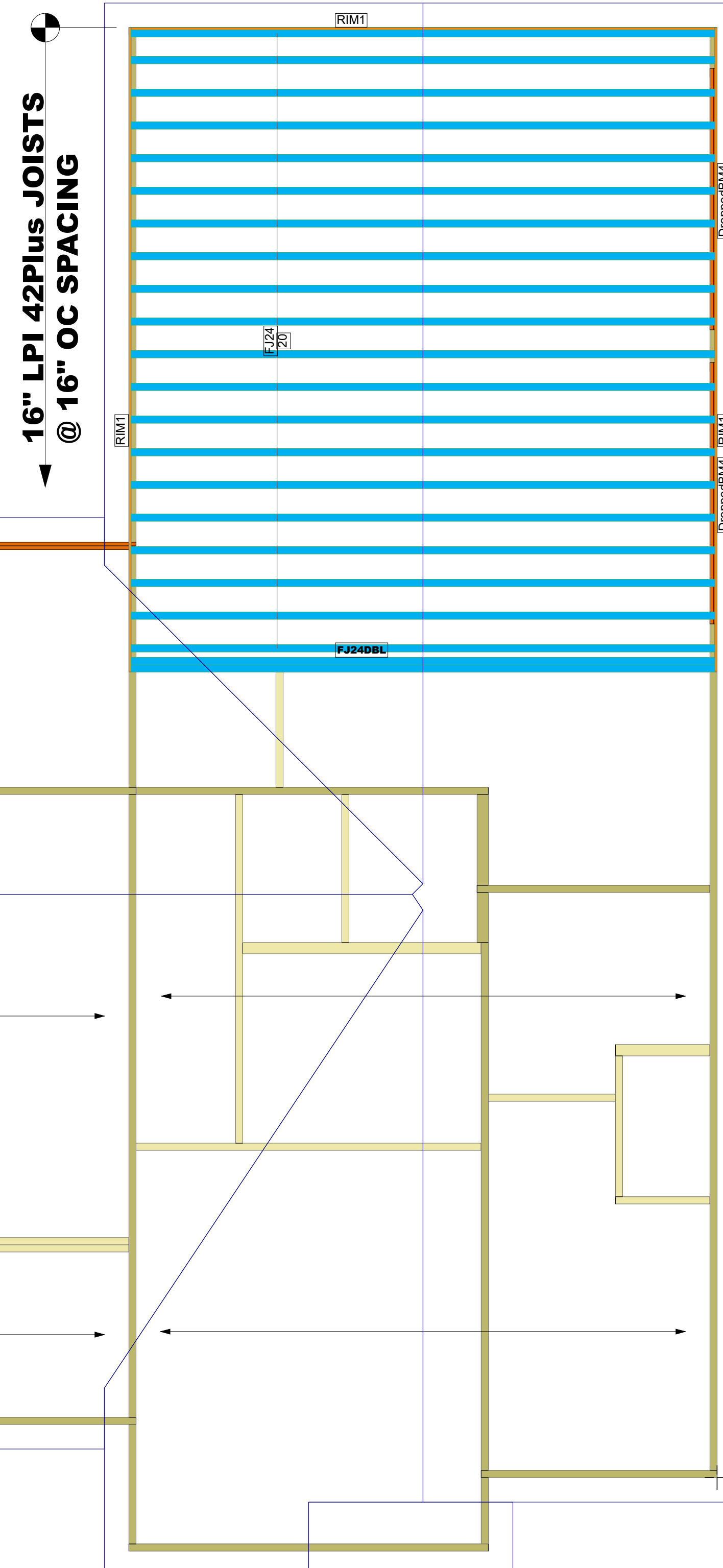
Designer:
Tony Huneycutt

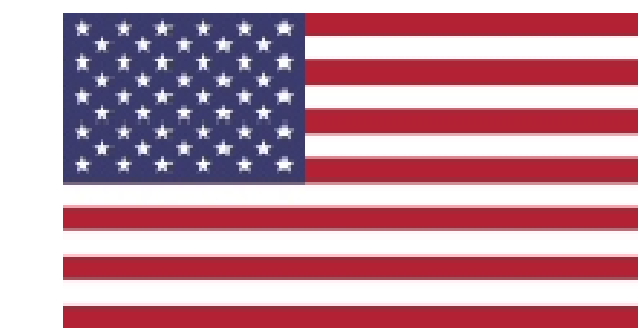
Salesman:
EDDIE BAUER

Scale: 1/4" = 1' Date: 10/13/20 2ND FLOOR



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
FJ24	24-00-00	16" LPI 42Plus	1	20	MFD
FJ24DBL	24-00-00	16" LPI 42Plus	2	2	MFD
PorchBM1	30-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2	MFD
DroppedBM1	20-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2	MFD
DroppedBM2	10-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2	MFD
FlushBM1	20-00-00	1-3/4X14 LP-LVL 2900Fb-2.0E	2	2	MFD
DroppedBM3	14-00-00	1-3/4X14 LP-LVL 2900Fb-2.0E	2	2	MFD
DroppedBM4	12-00-00	1-3/4X14 LP-LVL 2900Fb-2.0E	2	4	MFD
RIM1	12-00-00	1 1/8" x 16" APA Rim Board	1	7	FF



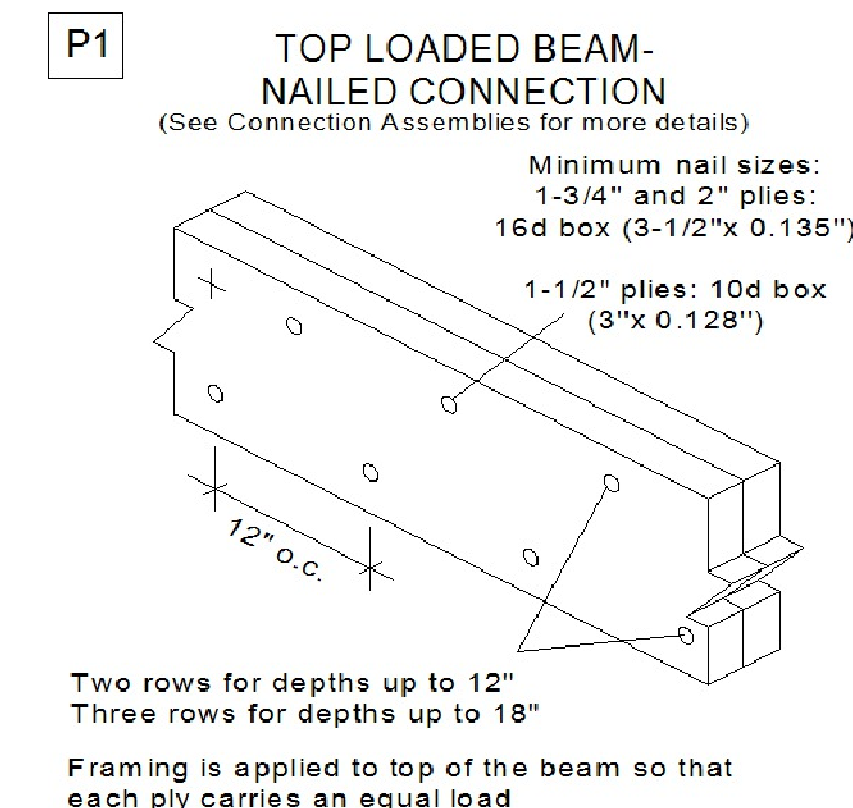


U. S. LUMBER

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

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- 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%.



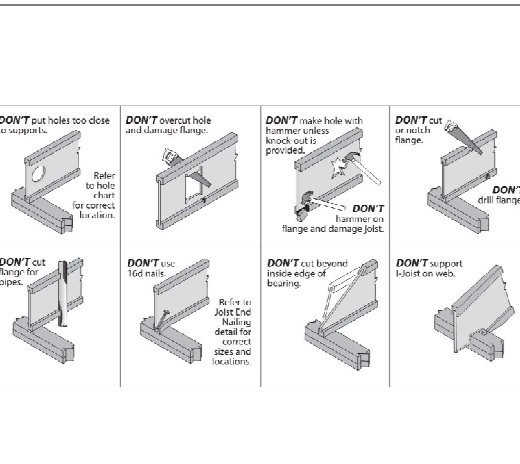
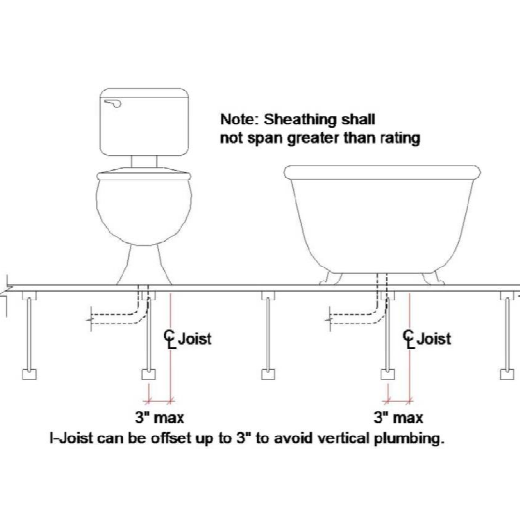
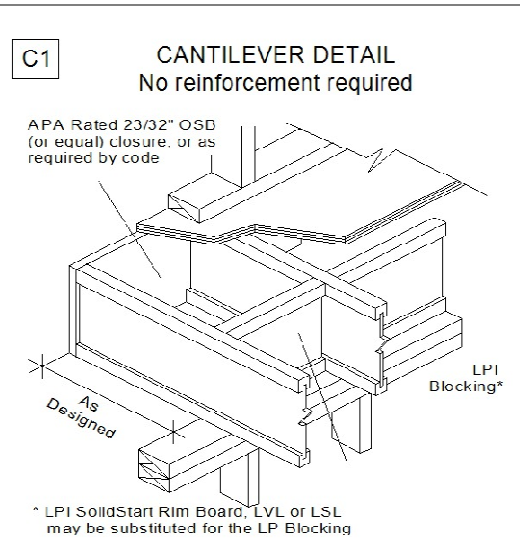
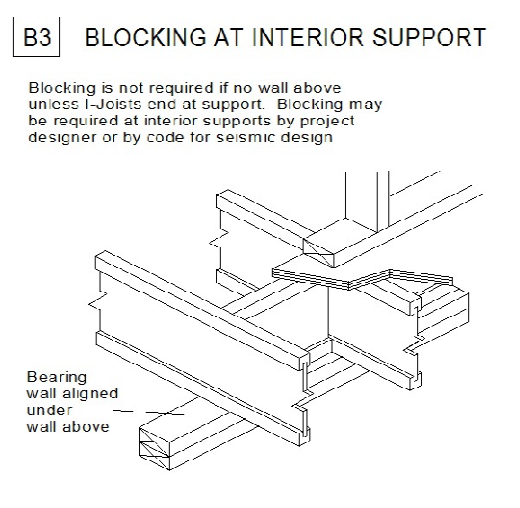
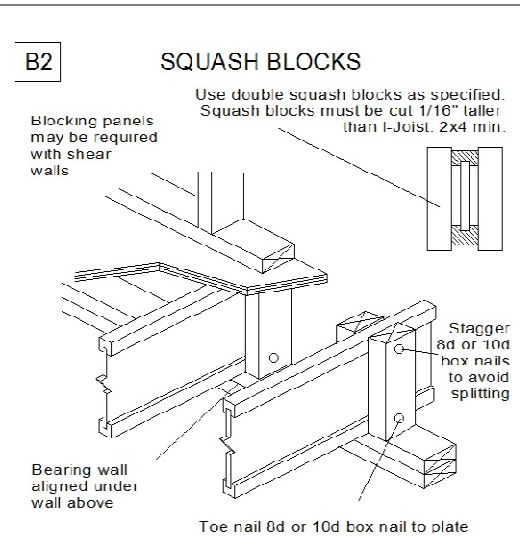
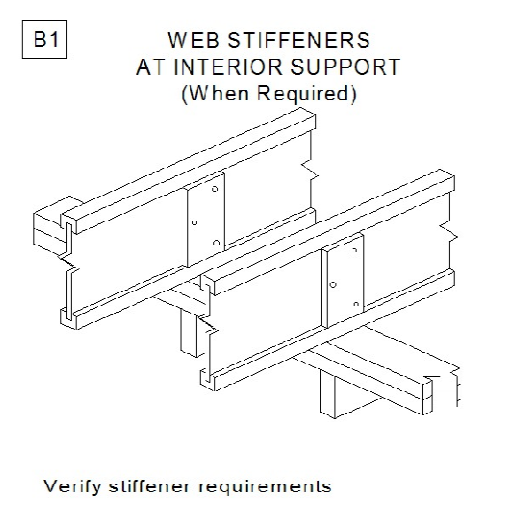
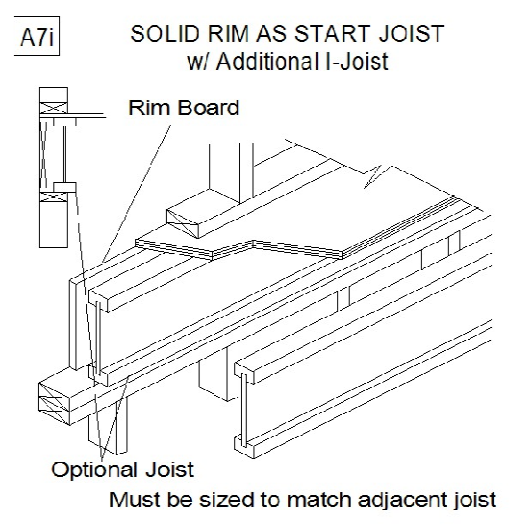
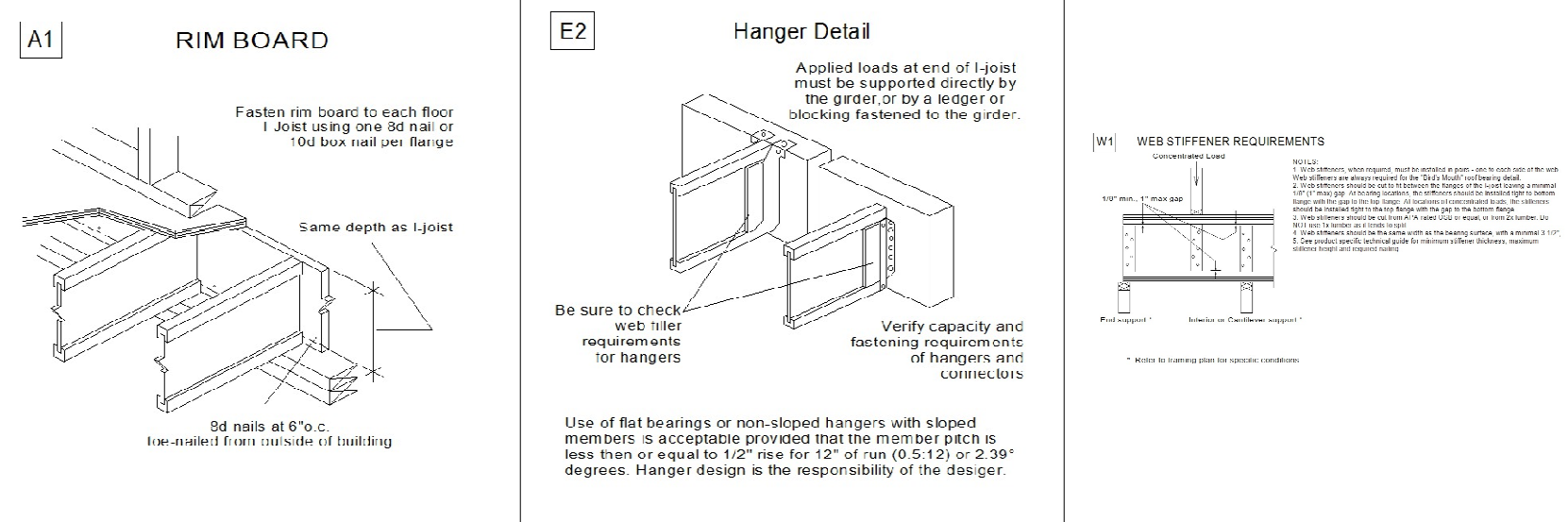
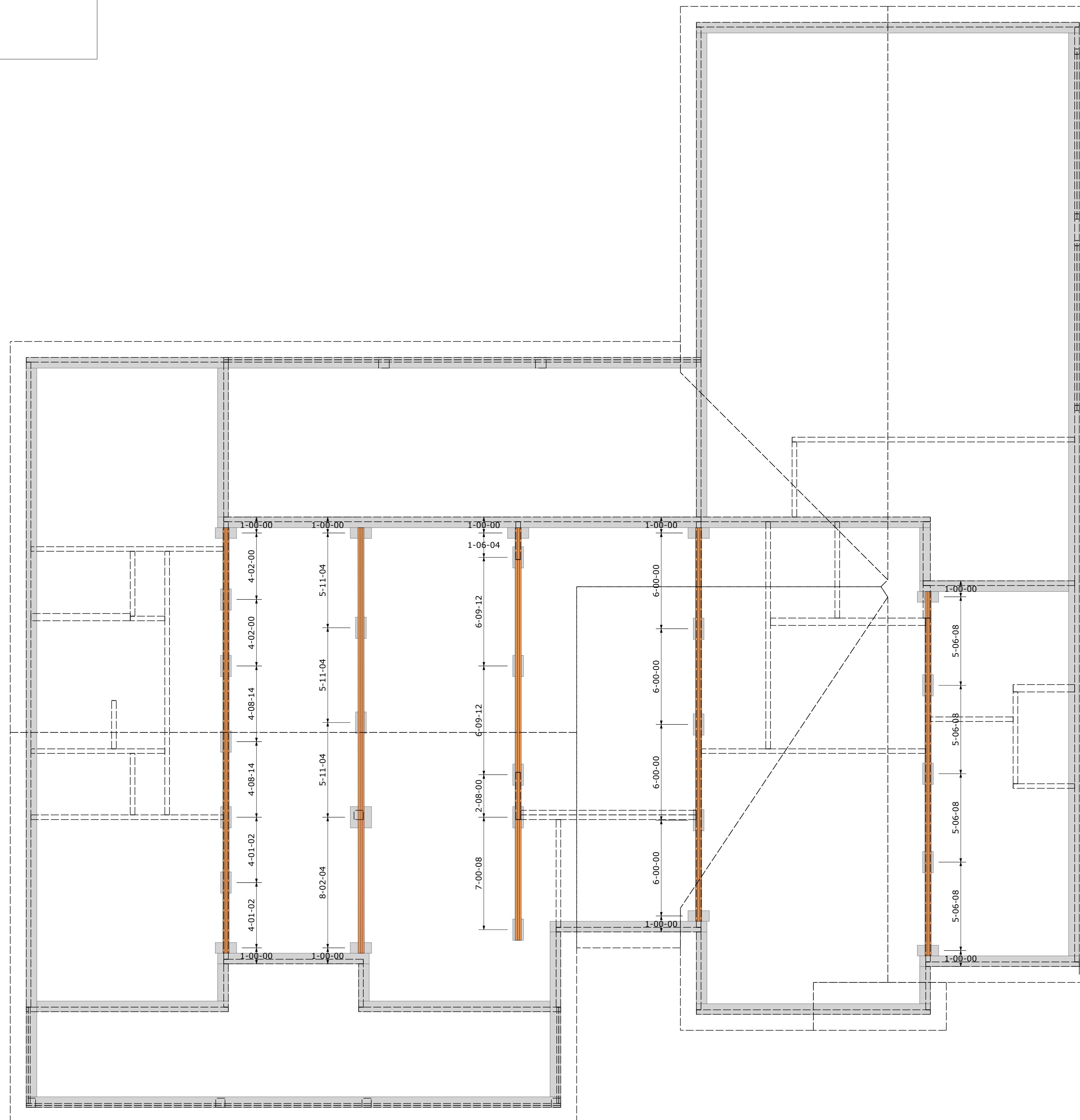
Customer Name:
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Job Name:
BURGESS/SPRING HILL CHURCH RD.

Designer:
Tony Huneycutt

Salesman:
EDDIE BAUER

Scale: 1/4" = 1' Date: 10/13/20 1ST FLOOR



FIRST FLOOR FRAMING

1642	LF	12IJ	11-7/8" LPI 20Plus JOISTS	17/30' 15/24' 2/22' 8/16'	3	4926
				33/14' 2/12' 5/10' + 64' BLKG		
20	PCS	12RIM12	1-1/8" x 11-7/8" x 12' RIM BOARD		43.3	866

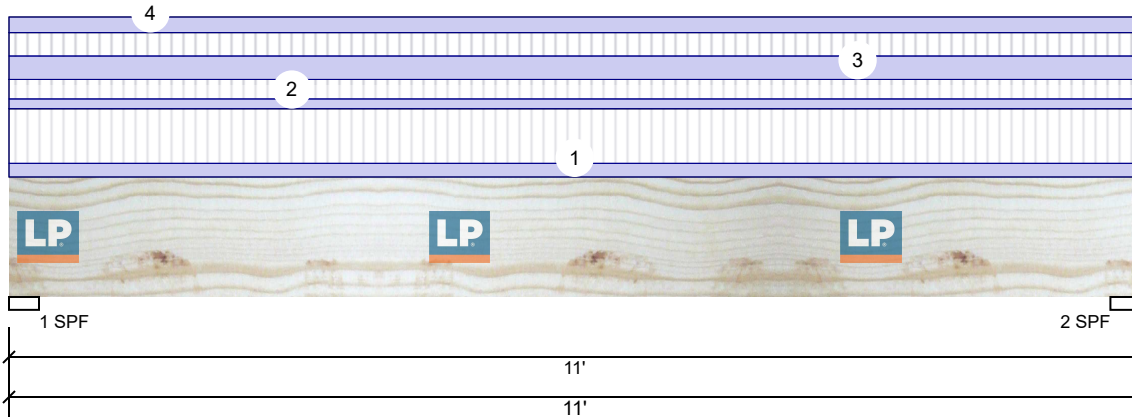
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BONUS ROOM EWP

528	LF	16IJHD	16" LPI 42Plus JOISTS	22/24'	4.5	2376
7	PCS	16RIM12	1-1/8" x 16" x 12' RIM BOARD		58.8	411.6
120	LF	9LVL	1-3/4" x 9-1/4" LVL	2/30' 2/20' 2/10'	4.2	504
116	LF	14LVL	1-3/4" x 14" LVL	2/20' 2/14' 4/12'	6.4	742.4

4034

10' Garage Door Header LP-LVL 2900Fb-2.0E 1.750" X 14.000" 2-Ply - PASSED Level: Level



Member Information

Type: Girder	Application: Floor
Plies: 2	Design Method: ASD
Moisture Condition: Dry	Building Code: IBC/IRC 2015
Deflection LL: 480	Load Sharing: No
Deflection TL: 600	Deck: Not Checked
Importance: Normal	
Temperature: Temp <= 100°F	

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	2750	1837	0	0	0
2	2750	1837	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	88%	1837 / 2750	4587	L	D+L
2 - SPF	3.500"	88%	1837 / 2750	4587	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11585 ft-lb	5'6"	27029 ft-lb	0.429 (43%)	D+L	L
Shear	3423 lb	1'4 3/4"	9310 lb	0.368 (37%)	D+L	L
LL Defl inch	0.103 (L/1227)	5'6"	0.264 (L/480)	0.390 (39%)	L	L
TL Defl inch	0.172 (L/735)	5'6"	0.211 (L/600)	0.820 (82%)	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 = 0.069", Long Term = 0.103"
- 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 continuously braced.
- 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	Uniform			Top	70 PLF	280 PLF	0 PLF	0 PLF	0 PLF	Floor Load
2	Uniform			Top	50 PLF	100 PLF	0 PLF	0 PLF	0 PLF	Attic Load
3	Uniform			Top	120 PLF	120 PLF	0 PLF	0 PLF	0 PLF	Roof Load
4	Uniform			Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Brick Load
	Self Weight				14 PLF					

Notes

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Manufacturer Info

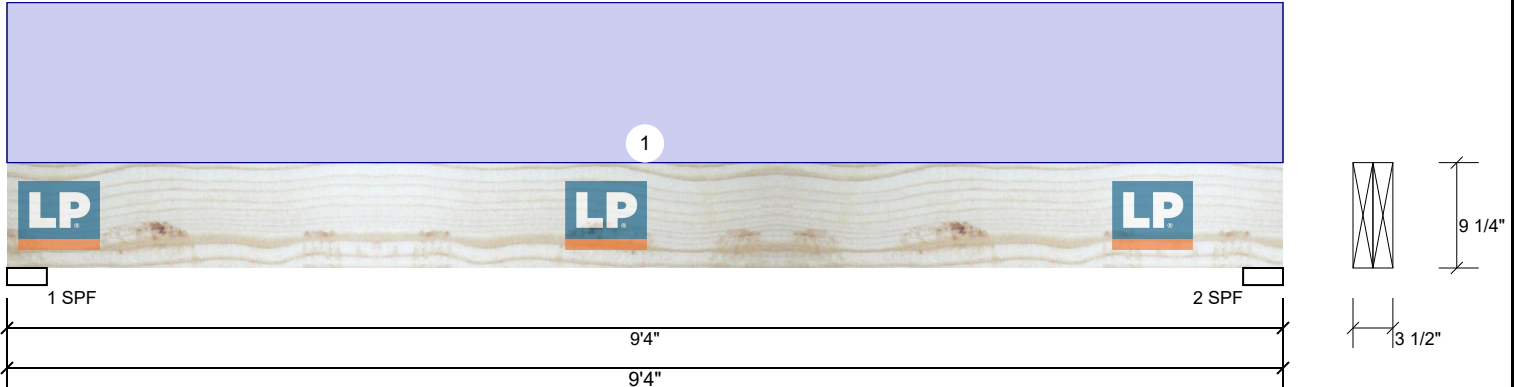
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 LADBS: RR-25783, Florida: FL15228

BMC/Locust Lumber Company
 312 E. Main Street, North Carolina
 28127
 704-888-4411



This design is valid until 10/31/2021

Dining Room Header LP-LVL 2900Fb-2.0E 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	627	0	0	0
2	0	627	0	0	0

Bearings

Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	3.500"	12% 627 / 0	627 Uniform	D
2 - SPF	3.500"	12% 627 / 0	627 Uniform	D

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1322 ft-lb	4'8"	11174 ft-lb	0.118 (12%)	D	Uniform
Shear	492 lb	1'	5536 lb	0.089 (9%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.045 (L/2351)	4'8"	0.444 (L/240)	0.100 (10%)	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 = 0.045", Long Term = 0.068"
- 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 braced at bearings.
- 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	Uniform			Top	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Ceiling Joists
	Self Weight				9 PLF					

Notes

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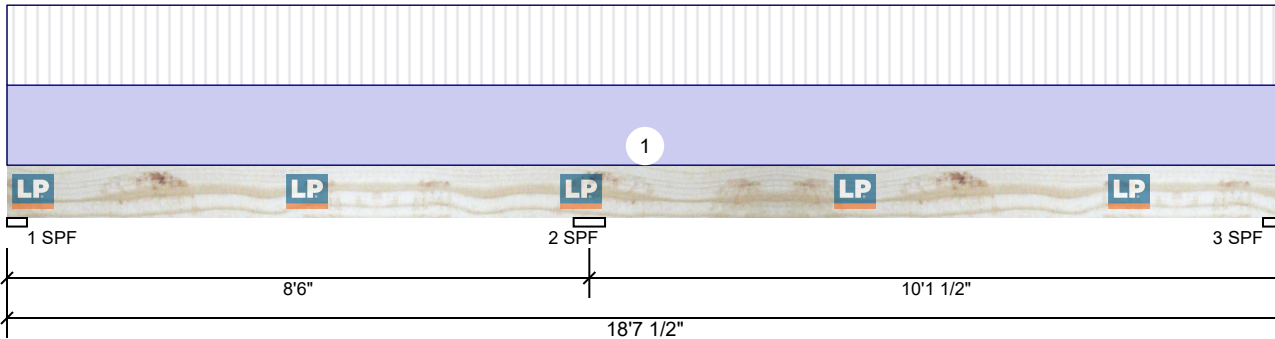
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 28127
 704-888-4411



This design is valid until
 10/31/2021

Header @ Foyer LP-LVL 2900Fb-2.0E 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	313	342	0	0	0
2	1135	1240	0	0	0
3	415	453	0	0	0

Bearings

Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	3.500"	14% 337 / 389	727 L_	D+L
2 - SPF	5.500"	29% 1249 / 1143	2391 LL	D+L
3 - SPF	3.500"	17% 449 / 450	899 _L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2210 ft-lb	8'6"	12416 ft-lb	0.178 (18%)	D+L	LL
Pos Moment	1732 ft-lb	14'3 15/16"	12416 ft-lb	0.140 (14%)	D+L	_L
Shear	1097 lb	9'3 1/4"	6151 lb	0.178 (18%)	D+L	LL
LL Defl inch	0.036 (L/3257)	13'8 9/16"	0.247 (L/480)	0.150 (15%)	L	_L
TL Defl inch	0.067 (L/1769)	13'9 15/16"	0.495 (L/240)	0.140 (14%)	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 = 0.031", Long Term = 0.046"
- 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 braced at bearings.
- 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	Uniform			Top	100 PLF	100 PLF	0 PLF	0 PLF	0 PLF	Roof/Ceiling load from Great Room
	Self Weight				9 PLF					

Notes

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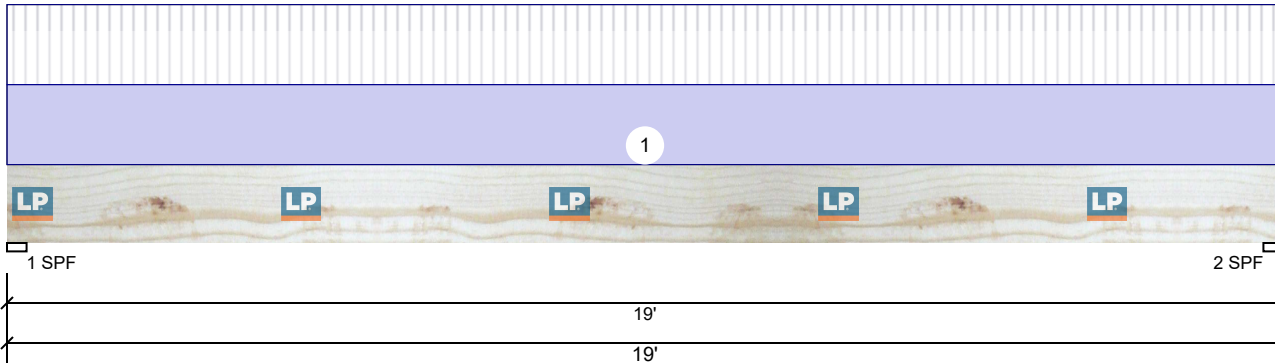
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This design is valid until
 10/31/2021

Ridge Beam in Great Room LP-LVL 2900Fb-2.0E 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Roof
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	ASD
Deflection LL:	480	Building Code:	IBC/IRC 2015
Deflection TL:	240	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1805	1938	0	0	0
2	1805	1938	0	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	72%	1938 / 1805	3743	L	D+L
2 - SPF	3.500"	72%	1938 / 1805	3743	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16933 ft-lb	9'6"	27029 ft-lb	0.626 (63%)	D+L	L
Shear	3193 lb	1'4 3/4"	9310 lb	0.343 (34%)	D+L	L
LL Defl inch	0.335 (L/664)	9'6 1/16"	0.464 (L/480)	0.720 (72%)	L	L
TL Defl inch	0.694 (L/320)	9'6 1/16"	0.927 (L/240)	0.750 (75%)	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 = 0.360", Long Term = 0.539"
- 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 7'2 5/8" 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	Uniform			Top	190 PLF	190 PLF	0 PLF	0 PLF	0 PLF	Roof Load
	Self Weight				14 PLF					

Notes

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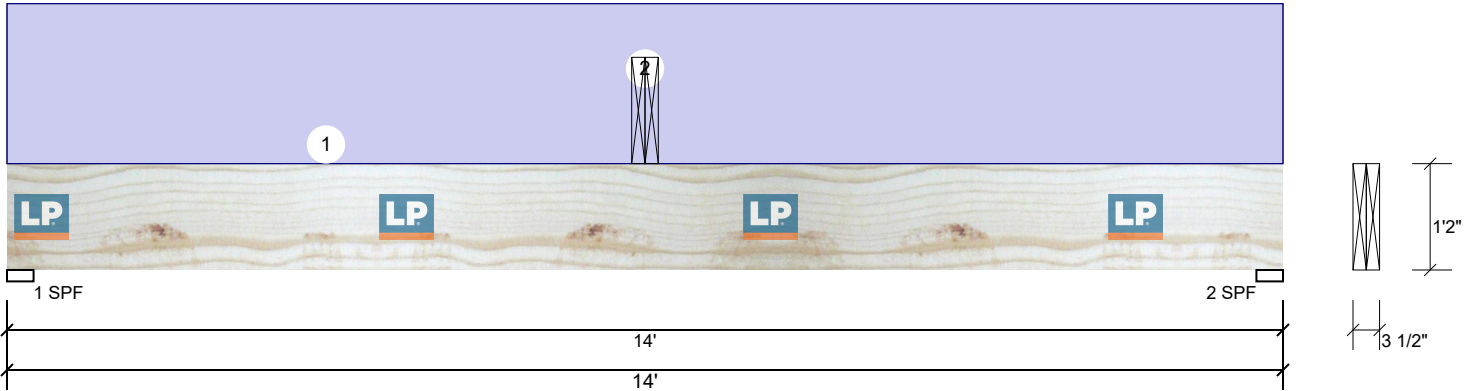
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 28127
 704-888-4411



This design is valid until 10/31/2021

Hdr. @ kit/Great Room LP-LVL 2900Fb-2.0E 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	903	1767	0	0	0
2	903	1767	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	51%	1767 / 902	2670	L	D+L
2 - SPF	3.500"	51%	1767 / 903	2670	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15286 ft-lb	7'	27029 ft-lb	0.566 (57%)	D+L	L
Shear	2511 lb	12'7 1/4"	9310 lb	0.270 (27%)	D+L	L
LL Defl inch	0.115 (L/1411)	7' 1/16"	0.339 (L/480)	0.340 (34%)	L	L
TL Defl inch	0.299 (L/544)	7' 1/16"	0.677 (L/240)	0.440 (44%)	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 = 0.184", Long Term = 0.276"
- 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 continuously braced.
- 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	Uniform			Top	100 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Ceiling joists over Kitchen
2	Point	7-0-0		Top	1938 lb	1805 lb	0 lb	0 lb	0 lb	Ridge Beam in Great Room Brg 2
	Bearing Length	0-3-8								
	Self Weight				14 PLF					

Notes

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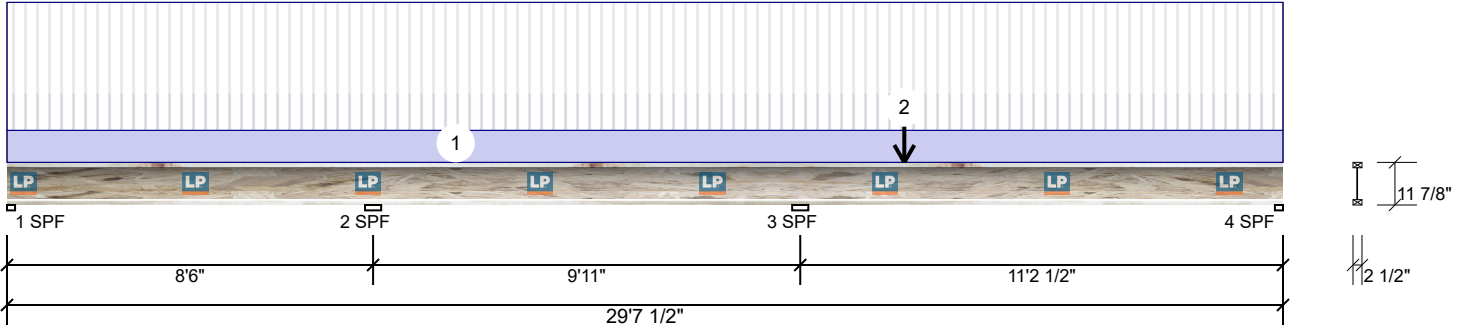
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 28127
 704-888-4411



This design is valid until
 10/31/2021

Joists under Pantry-DR wall LPI 20Plus 11.875" - PASSED

Level: Level



Member Information

Type:	Joist
Spacing:	19.2" o.c.
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	220	57	0	0	0
2	614	142	0	0	0
3	765	287	0	0	0
4	296	88	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.250"	31%	58 / 261	319	L_L	D+L
2 - SPF	4.500"	34%	137 / 700	837	LL_	D+L
3 - SPF	4.500"	45%	292 / 813	1105	_LL	D+L
4 - SPF	2.250"	39%	86 / 319	405	L_L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-1133 ft-lb	18'5"	3755 ft-lb	0.302 (30%)	D+L	_LL
Pos Moment	974 ft-lb	24'6 3/4"	3755 ft-lb	0.260 (26%)	D+L	L_L
Shear	624 lb	18'5"	1485 lb	0.420 (42%)	D+L	_LL
LL Defl inch	0.068 (L/1967)	24'2 1/16"	0.277 (L/480)	0.240 (24%)	L	L_L
TL Defl inch	0.090 (L/1485)	24'1 1/16"	0.554 (L/240)	0.160 (16%)	D+L	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 = 0.022", Long Term = 0.033"
- 3 Top flange must be laterally braced at a maximum of 9'3" o.c.
- 4 Bottom flange must be laterally braced at a maximum of 8'7" o.c.

ID	Load Type	Location	Trib Width	Dead	Live	Snow	Wind	Const.	Comments
1	Uniform		1-7-3	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor Load
2	Point	20-10-0		100 lb	0 lb	0 lb	0 lb	0 lb	Bearing Wall Above
	Bearing Length	0-3-0							

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.
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Manufacturer Info

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 (888) 820-0325
 www.lpcorp.com
 APA: PR-L238, ICC-ES: ESR-1305,
 LADBS: RR-25099, Florida: FL15401

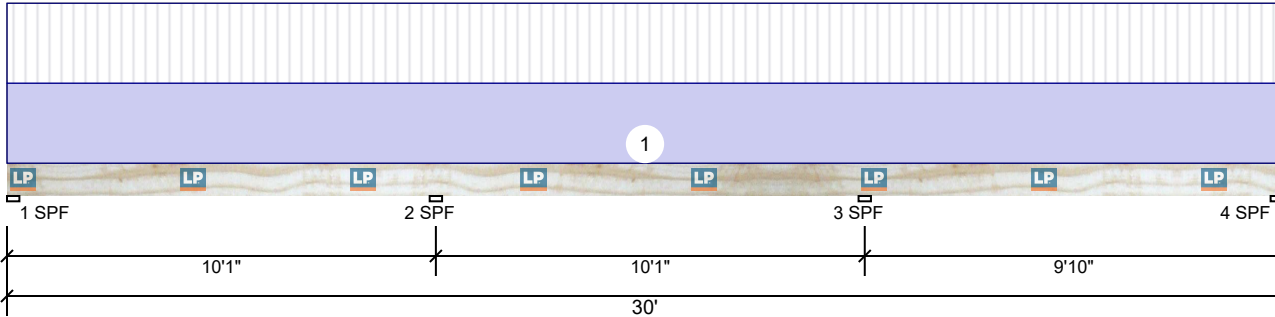
BMC/Locust Lumber Company
 312 E. Main Street, North Carolina
 28127
 704-888-4411



This design is valid until
 10/31/2021

Rear Porch Header LP-LVL 2900Fb-2.0E 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	498	537	0	0	0
2	1322	1424	0	0	0
3	1295	1394	0	0	0
4	485	523	0	0	0

Bearings

Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	3.500"	21% 535 / 559	1094 L_L	D+L
2 - SPF	3.500"	55% 1425 / 1431	2857 LL_	D+L
3 - SPF	3.500"	54% 1396 / 1412	2808 _LL	D+L
4 - SPF	3.500"	21% 522 / 549	1071 L_L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2677 ft-lb	10'1"	12416 ft-lb	0.216 (22%)	D+L	LL_
Pos Moment	2158 ft-lb	4'4 11/16"	12416 ft-lb	0.174 (17%)	D+L	L_L
Shear	1308 lb	9'3 3/4"	6151 lb	0.213 (21%)	D+L	LL_
LL Defl inch	0.047 (L/2503)	4'11 11/16"	0.246 (L/480)	0.190 (19%)	L	L_L
TL Defl inch	0.084 (L/1415)	4'10"	0.493 (L/240)	0.170 (17%)	D+L	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 = 0.036", Long Term = 0.055"
- 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 braced at bearings.
- 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	Uniform			Top	120 PLF	120 PLF	0 PLF	0 PLF	0 PLF	Roof/Ceiling Load
	Self Weight				9 PLF					

Notes

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