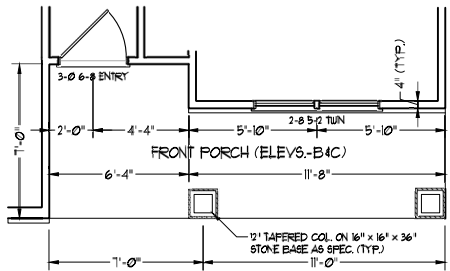
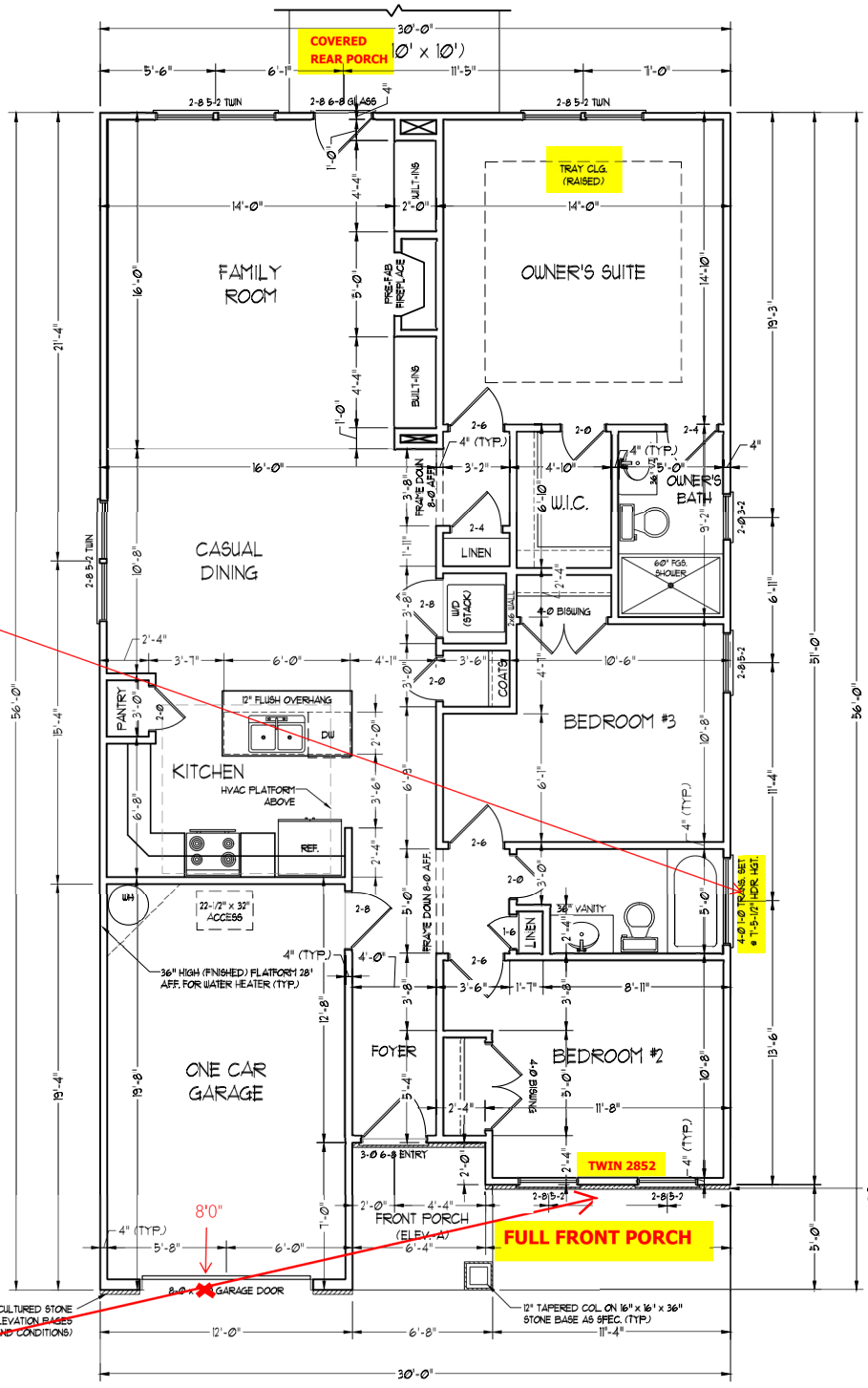


SQUARE FOOTAGE (I.F.S.)	
1st FLOOR:	1295 SQ. FT.
TOTAL:	1295 SQ. FT.
GARAGE:	215 SQ. FT.
FRONT PORCH (ELEV.-A):	46 SQ. FT.
FRONT PORCH (ELEV.-B/C):	102 SQ. FT.
REAR PATIO:	100 SQ. FT.

RAISE HEADER TO TOP PLATE



FRONT PORCH AND BEDROOM #2 WINDOW



OPTIONAL CULTURED STONE VENEER (SEE ELEVATION PAGES FOR LOCATIONS AND CONDITIONS)

SCALE NOTE: 18x24 PRINTS ARE TO SCALE AS NOTED.
11x17 PRINTS ARE NOT TO SCALE



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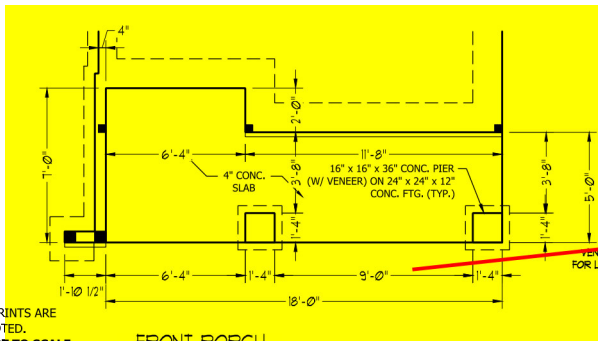
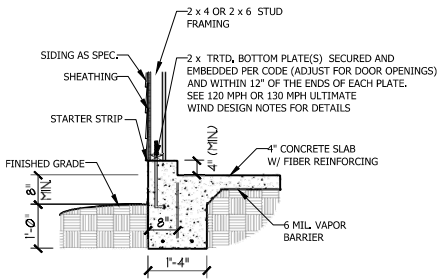
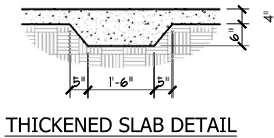
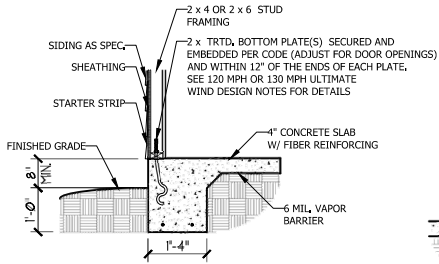
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CAROLINA COLLECTION
LEYLAND DRIVE LEFT

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ENGINEERED BY: _____
REVIEWED BY: _____

FIRST FLOOR PLAN
A-4

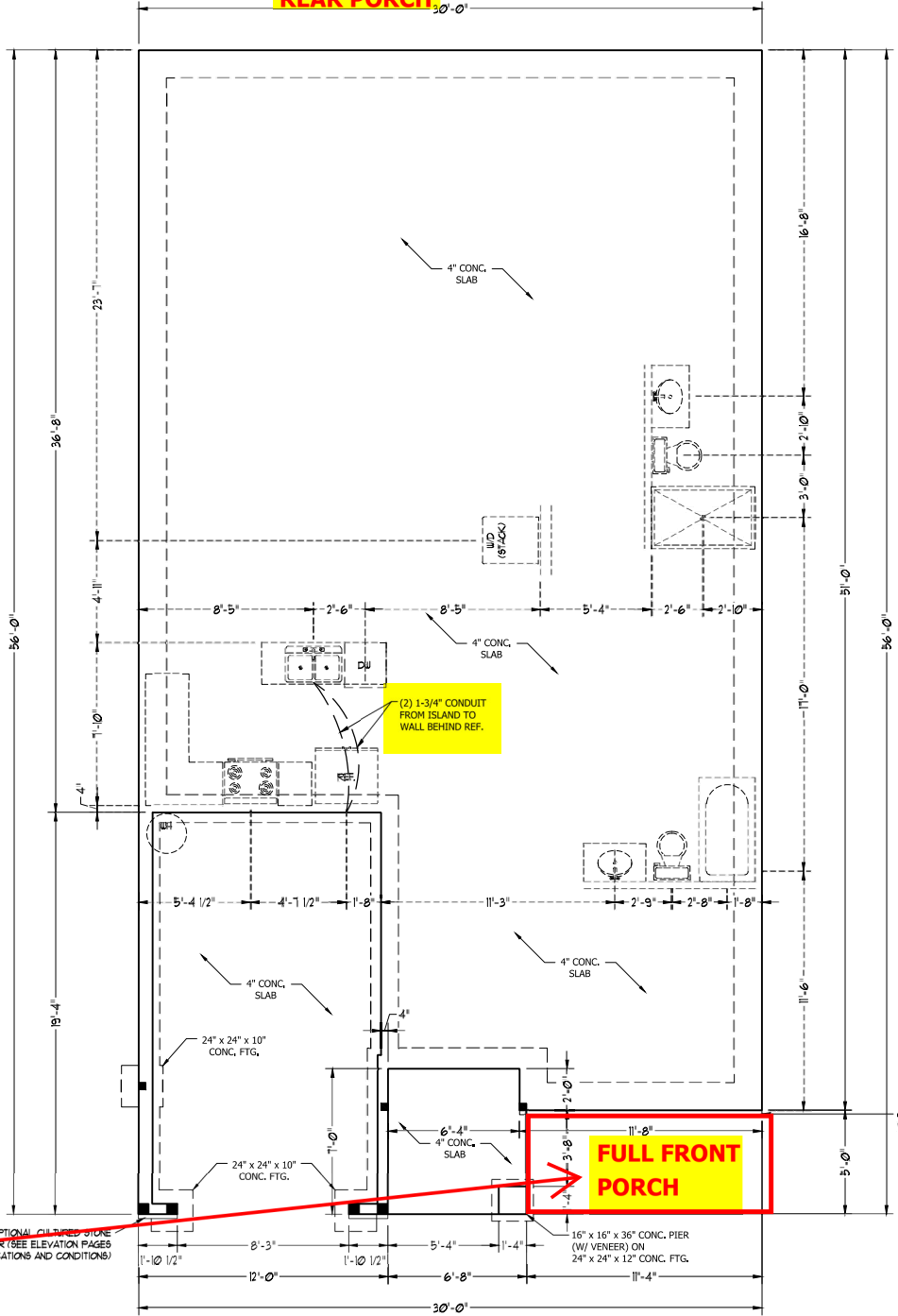
ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

1. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
2. FOR 120 MPH WIND ZONES INSTALL 1/2" ANCHOR BOLTS 6-4" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO CONCRETE OR 15" INTO MASONRY. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
3. FOR 130 MPH WIND ZONES INSTALL 1/2" ANCHOR BOLTS 4-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO CONCRETE OR 15" INTO MASONRY. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
5. EXTERIOR WALLS DESIGNED FOR 120 OR 130 MPH WINDS.
6. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCR, 2018 EDITION.
7. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCR, 2018 EDITION.



SCALE NOTE: 18x24 PRINTS ARE TO SCALE AS NOTED.
11x17 PRINTS ARE NOT TO SCALE

COVERED REAR PORCH



FULL FRONT PORCH

OPTIONAL CULTURED STONE VENEER (SEE ELEVATION PAGES FOR LOCATIONS AND CONDITIONS)



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WEAVER HOMES CAROLINA COLLECTION
LEYLAND DRIVE LEFT

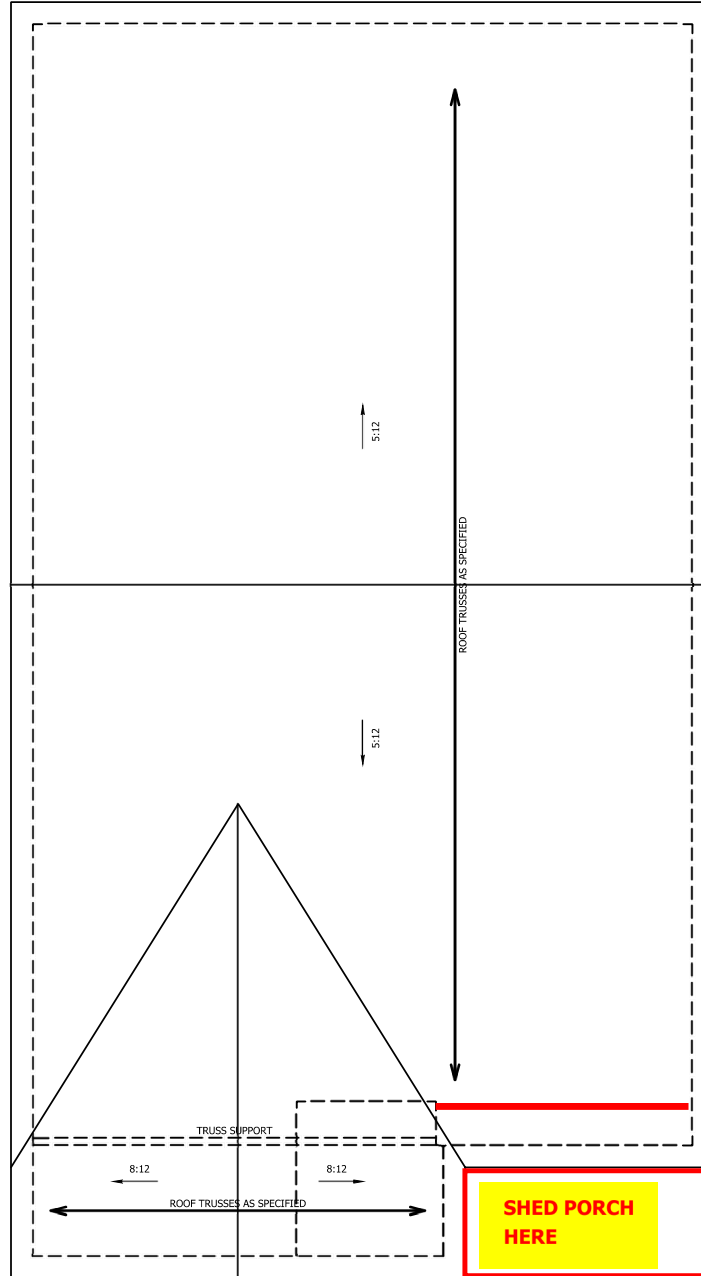
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SCALE: 1/4" = 1'-0"
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ENGINEERED BY: _____
REVIEWED BY: _____
MONO SLAB FOUNDATION PLAN
S-1

ATTIC VENT CALCULATION:

1756 SQ. FT. OF ATTIC DIVIDED BY
150 REQUIRES 11.7 SQ. FT. OF NET
FREE VENTILATING AREA (MIN.).

STRUCTURAL NOTES:

1. ALL FRAMING LUMBER TO BE #2 SPF (LINO).
2. HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0", FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS @ 16" O.C. (TYP.)
3. STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
4. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
5. REFER TO SECTION R802.11 OF THE 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.



ELEVATION A

SCALE NOTE: 18x24 PRINTS ARE
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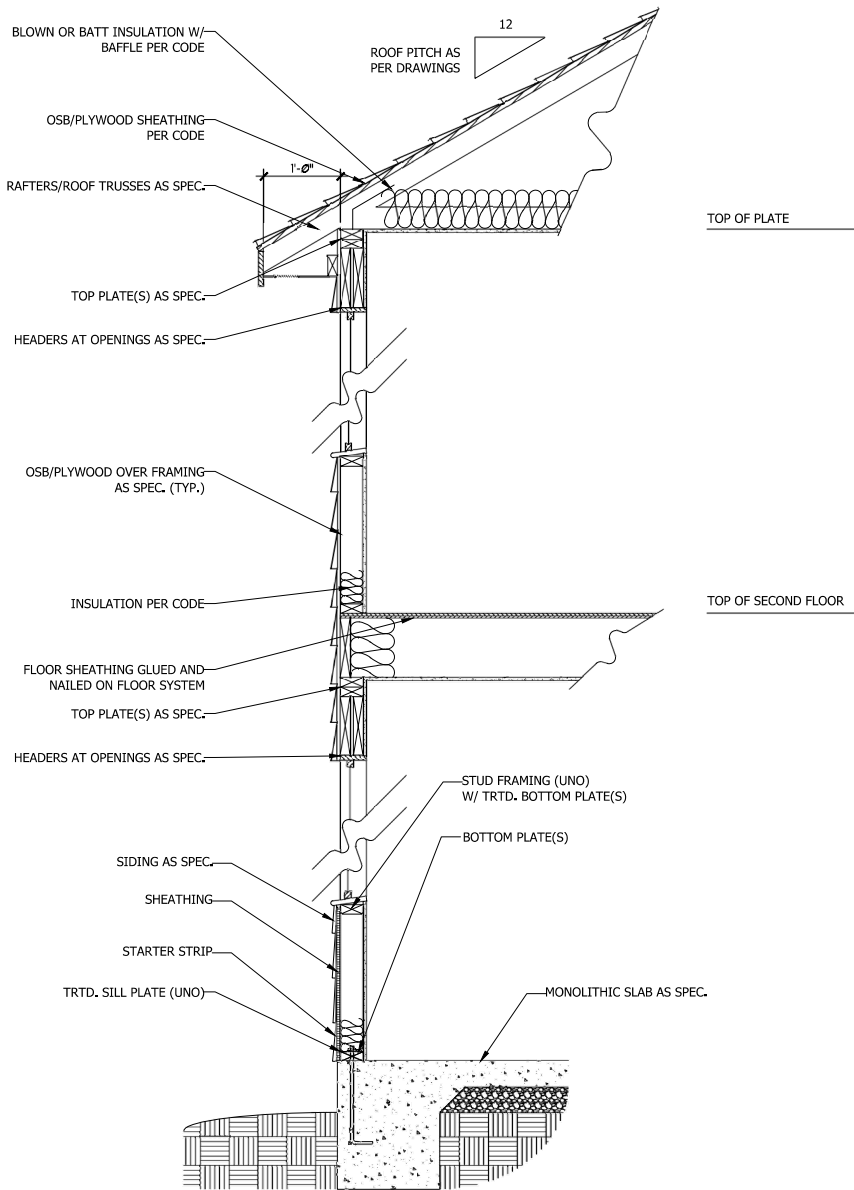
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CAROLINA COLLECTION
LEYLAND DRIVE LEFT

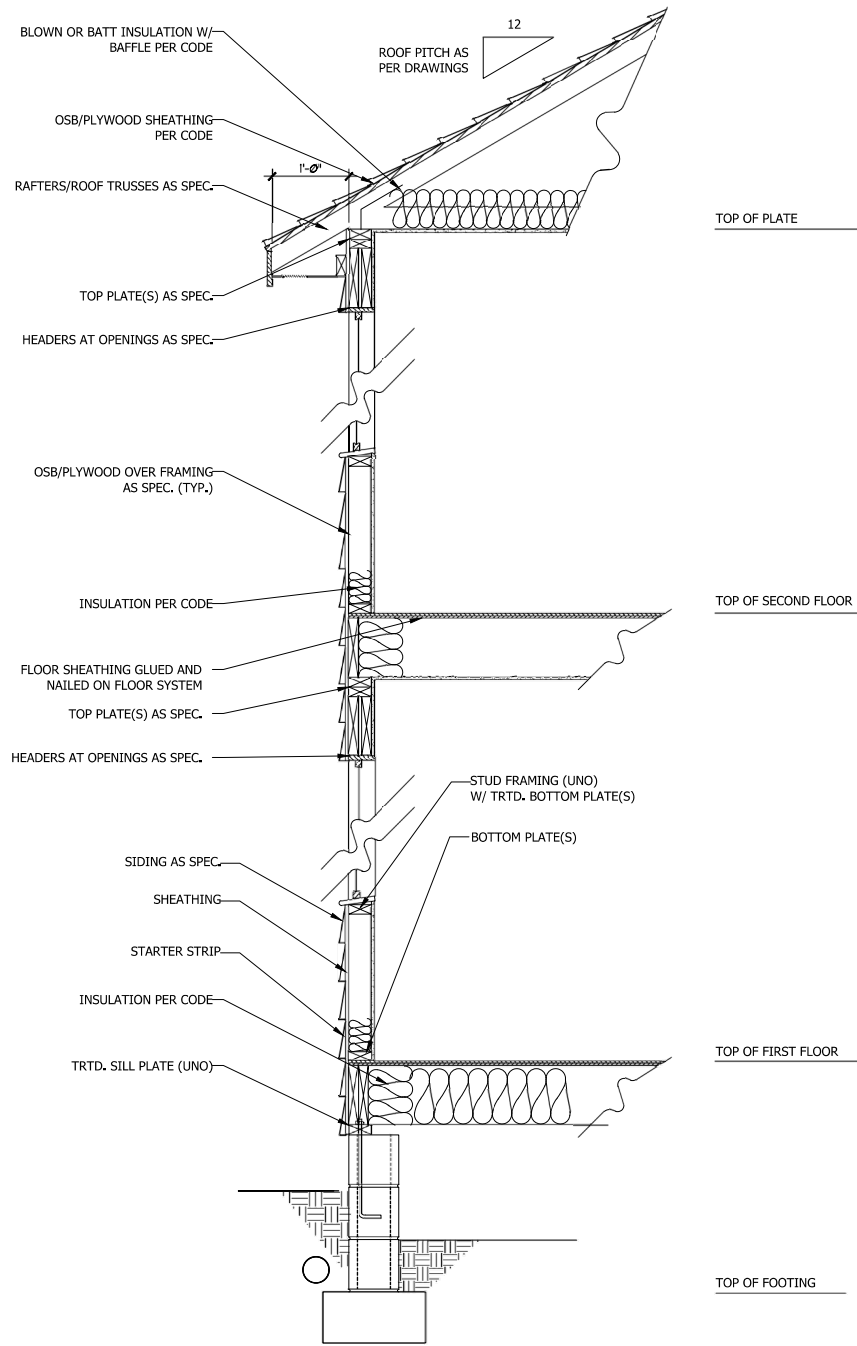
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SCALE: 1/4" = 1'-0"
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REVIEWED BY: _____

ROOF PLAN
ELEVATION A

S-3



WALL SECTION W/ SLAB
W/ STD. SIDING SHOWN (NTS)



WALL SECTION W/ CRAWL SPACE
W/ STD. SIDING SHOWN (NTS)



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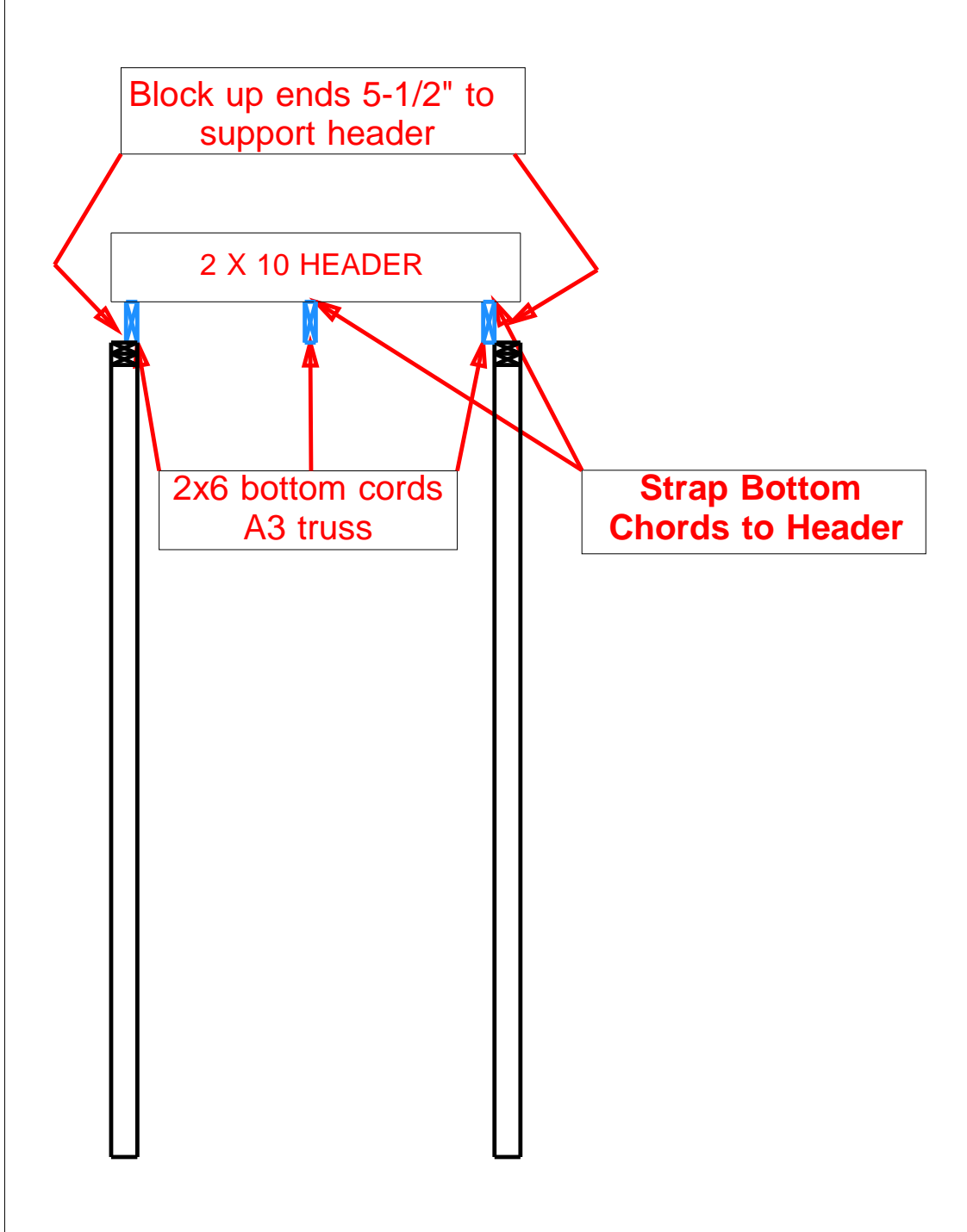
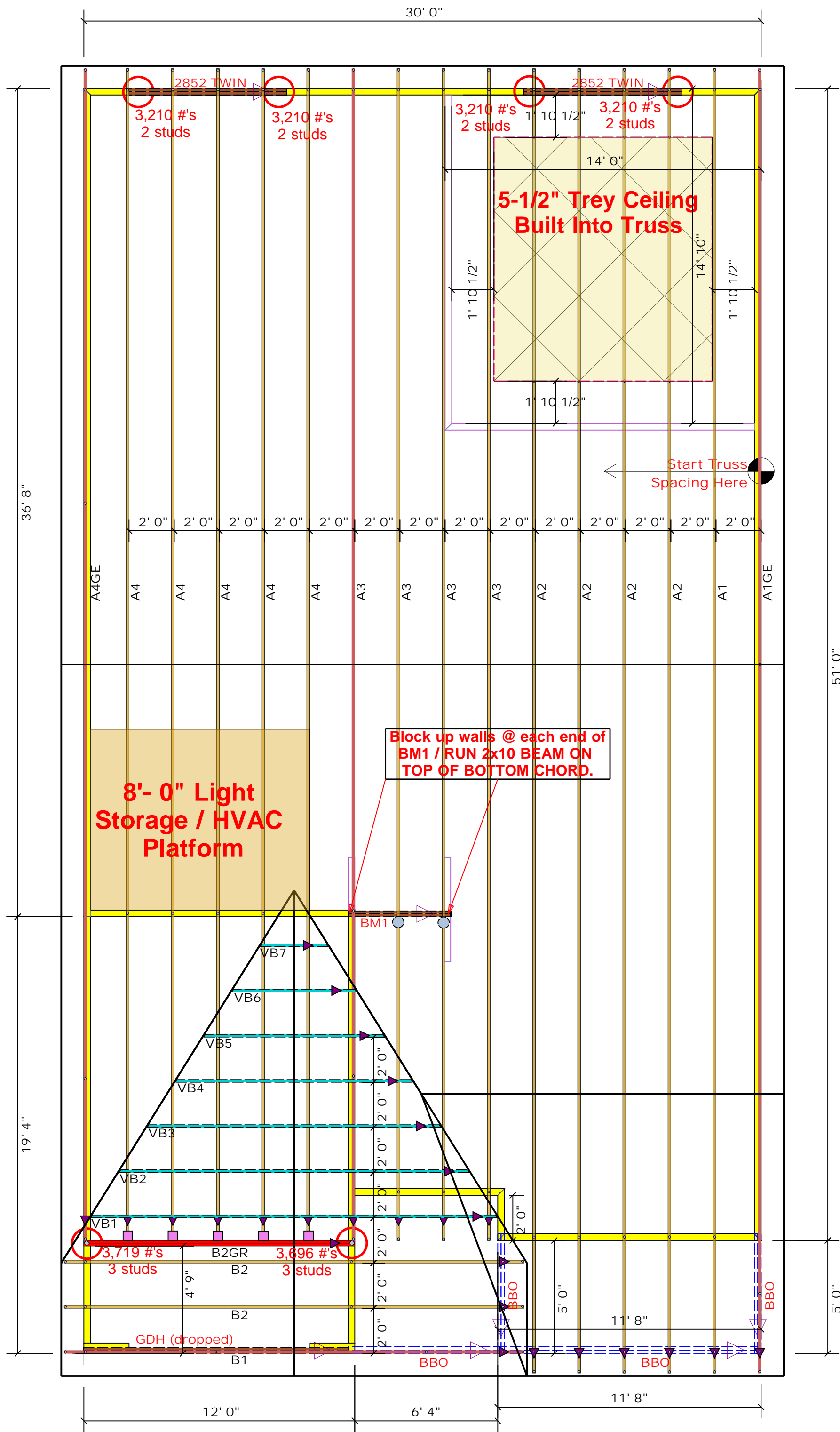
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PLEASE PROVIDE THE FOLLOWING FEATURES: OPTIONS: 1. WEATHER RESISTIVE BARRIER: 2. INSULATION: 3. SHEATHING: 4. SIDING: 5. TRIM: 6. FINISHES: 7. PAINTS: 8. FLOORING: 9. LIGHTING: 10. FIXTURES: 11. APPLIANCES: 12. MECHANICAL: 13. ELECTRICAL: 14. PLUMBING: 15. ROOFING: 16. EXTERIOR FINISHES: 17. INTERIOR FINISHES: 18. LANDSCAPE: 19. POOL: 20. OTHER: 21. SEE PERMITS AND LOCAL LAWS FOR COMPLETE LIST OF REQUIREMENTS AND REGULATIONS.

WEAVER HOMES
CAROLINA COLLECTION
LEYLAND DRIVE LEFT

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TYPICAL WALL SECTIONS



Truss Placement Plan
SCALE: 1/4" = 1'-0"

▲ = Denotes Left End of Truss
 (Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

○ -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Stud

■	HUS28	USP	5		16d/3-1/2	16d/3-1/2"
●	MSH422	USP	2	Varies	10d/3"	10d/3"

Estimation			
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	2046.74
Roof Decking	1st Floor	Roof Decking	70

BEAM LEGEND					
PlotID	Length	Product	Plies	Net Qty	Fab Type
2852 TWIN	7' 0"	1-3/4" x 9-1/4" LVL Kerto-S	2	4	FF
GDH (dropped)	12' 0"	2x12 SPF No.2	2	2	FF

LOAD CHART FOR JACK STUDS			
IRG JACKS (Up To 1000 LBS)	IRG JACKS (Up To 2000 LBS)	IRG JACKS (Up To 3000 LBS)	IRG JACKS (Up To 4000 LBS)
1700	1	2550	1
3400	2	5100	2
5100	3	7650	3
6800	4	10200	4
8500	5	12750	5
10200	6	15300	6
11900	7		
13600	8		
15300	9		

BUILDER	Weaver Development	CITY / CO.	Lillington / Harnett
JOB NAME	Sinawa Job	ADDRESS	Manor Hill Rd.
PLAN	Leyland "A"	MODEL	ROOF
SEAL DATE	Seal Date	DATE REV.	/ /
QUOTE #	Quote #	DRAWN BY	Lenny Norris
JOB #	J0522-2818	SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSH-B1 and BCSH-B3 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: Lenny Norris
 Lenny Norris

ROOF & FLOOR TRUSSES & BEAMS
 Reilly Road Industrial Park
 Fayetteville, N.C. 28309
 Phone: (910) 864-8787
 Fax: (910) 864-4444

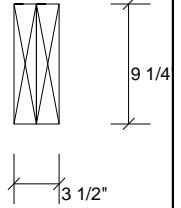
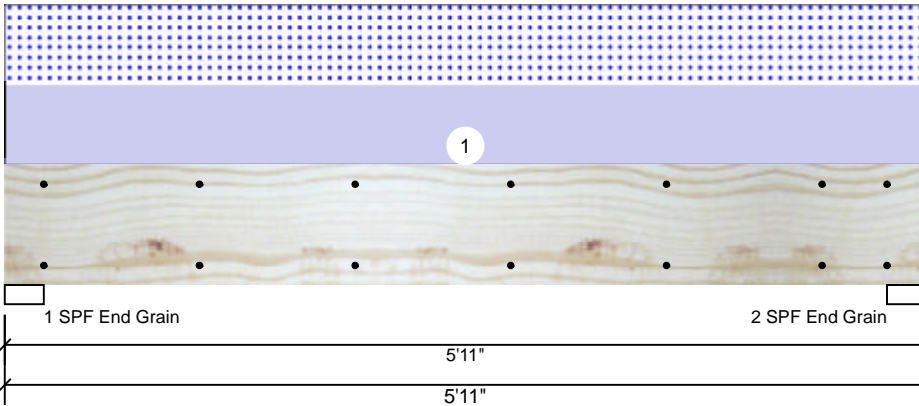


Client:
Project:
Address:

Date: 6/6/2022
Input by: Lenny Norris
Job Name: LEYLAND A
Project #:

2852 TWIN Kerto-S LVL 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:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1616	1595	0	0
2	Vertical	0	1616	1595	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	36%	1616 / 1595	3210	L	D+S
2 - SPF End Grain	3.000"	Vert	36%	1616 / 1595	3210	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4166 ft-lb	2'11 1/2"	14423 ft-lb	0.289 (29%)	D+S	L
Unbraced	4166 ft-lb	2'11 1/2"	11027 ft-lb	0.378 (38%)	D+S	L
Shear	2108 lb	4'10 3/4"	7943 lb	0.265 (27%)	D+S	L
LL Defl inch	0.032 (L/2069)	2'11 1/2"	0.139 (L/480)	0.232 (23%)	S	L
TL Defl inch	0.065 (L/1028)	2'11 1/2"	0.185 (L/360)	0.350 (35%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

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	539 PLF	0 PLF	539 PLF	0 PLF	0 PLF	TRUSSES A2,A4
	Self Weight				7 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

Metsä Wood
301 Merritt 7 Building, 2nd Floor
Norwalk, CT 06851
(800) 622-5850
www.metsawood.com/us

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

