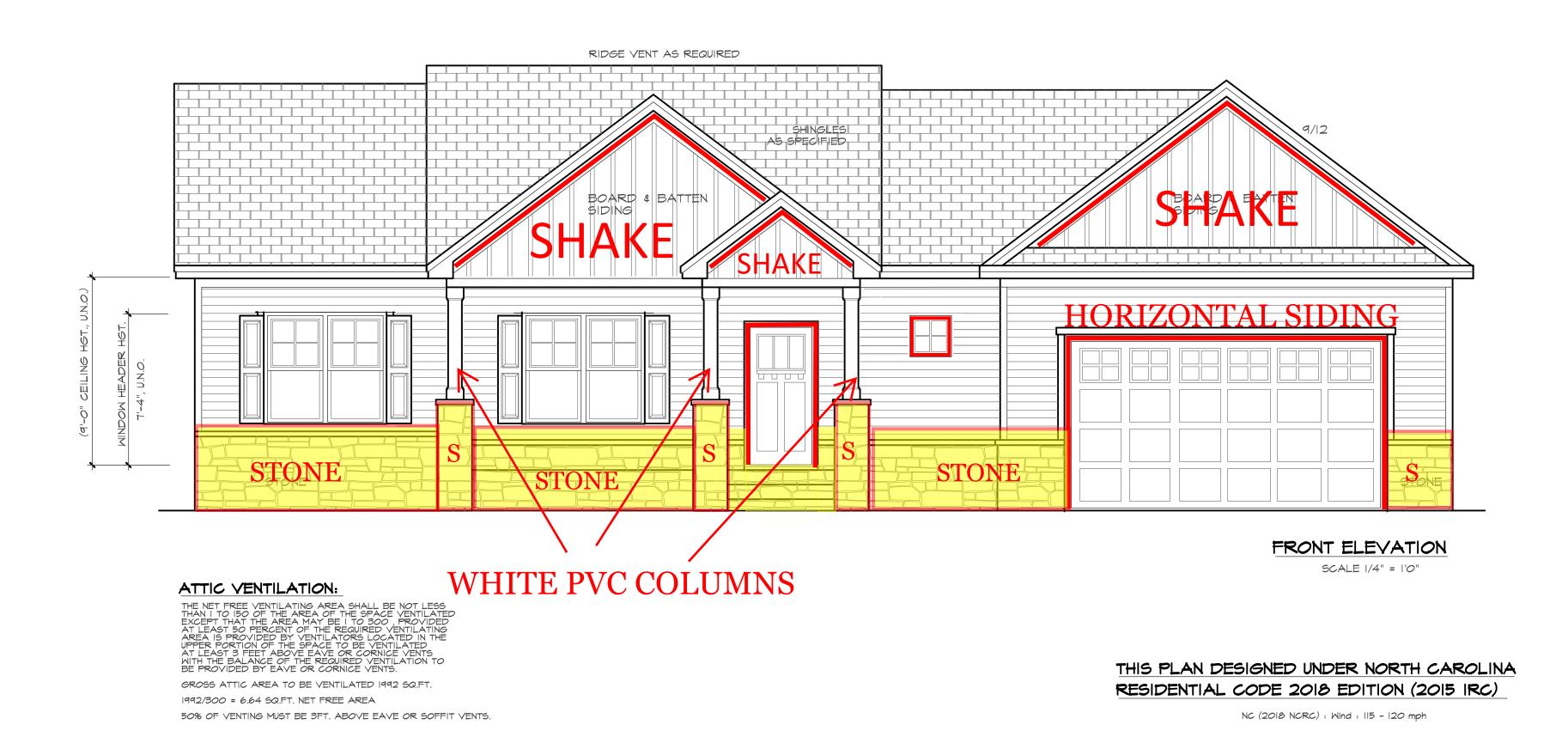
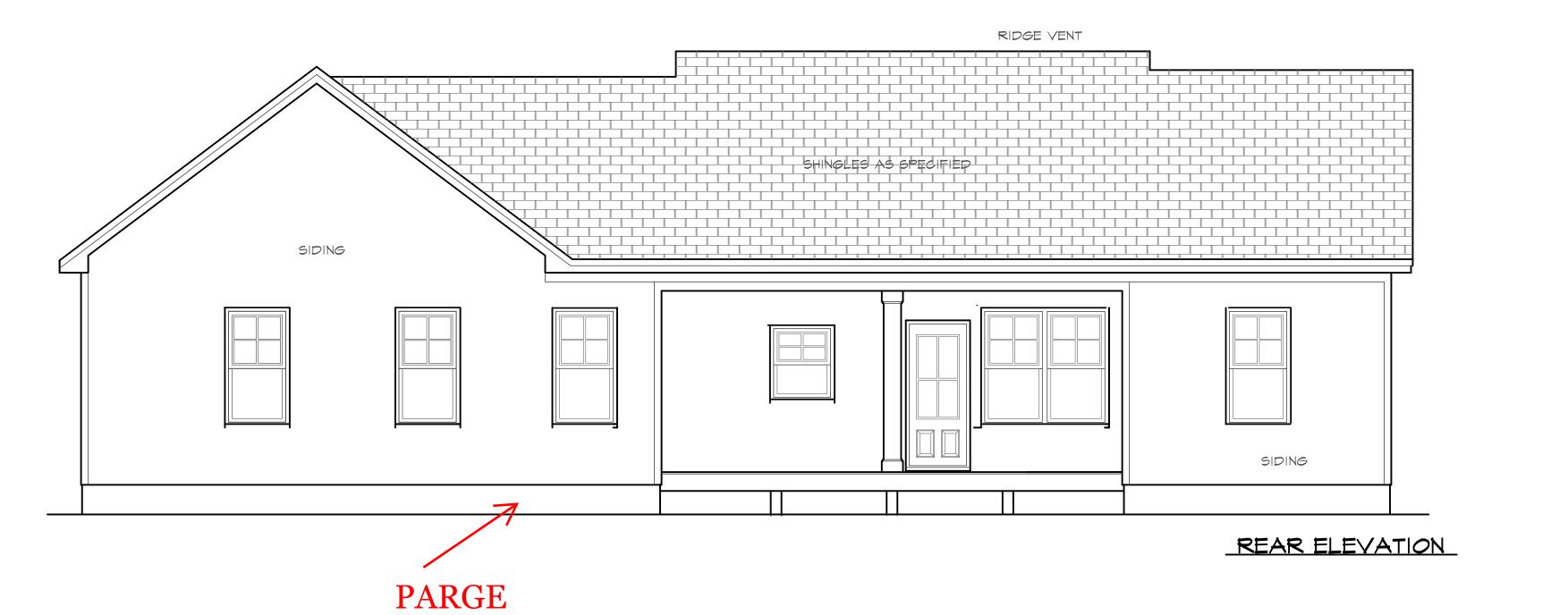
# WEST PRESERVE - LOT 11 275 THISTLE COURT SANFORD, NC 27332 3 CAR GARAGE









Purchaser must verify all dimensions and conditions before beginning construction.

MidTown Designs Inc. assumes no liability for contractors practices and

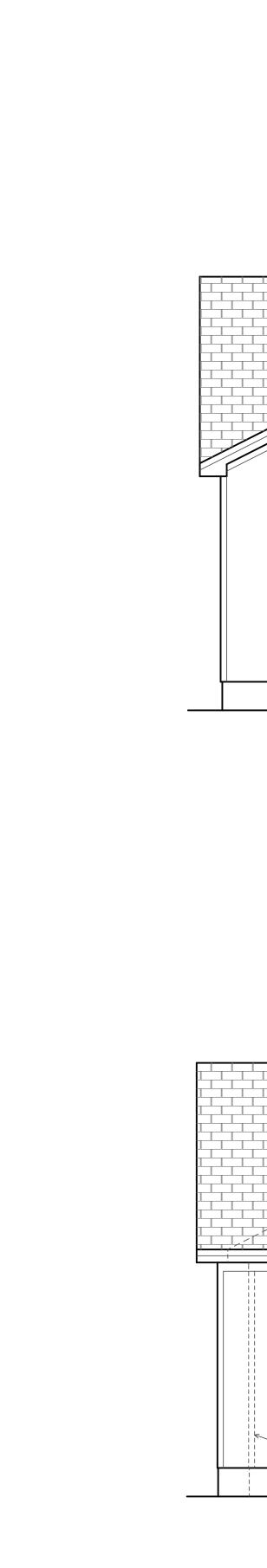
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RIDGE VENT

VINYL SIDING AS SPECIFIED

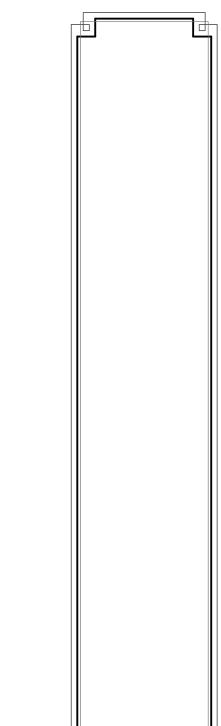
LEFT SIDE ELEVATION

RIGHT SIDE ELEVATION

SEE PLA FOR 3rd CAR OPTION

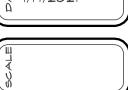
SHINGLES

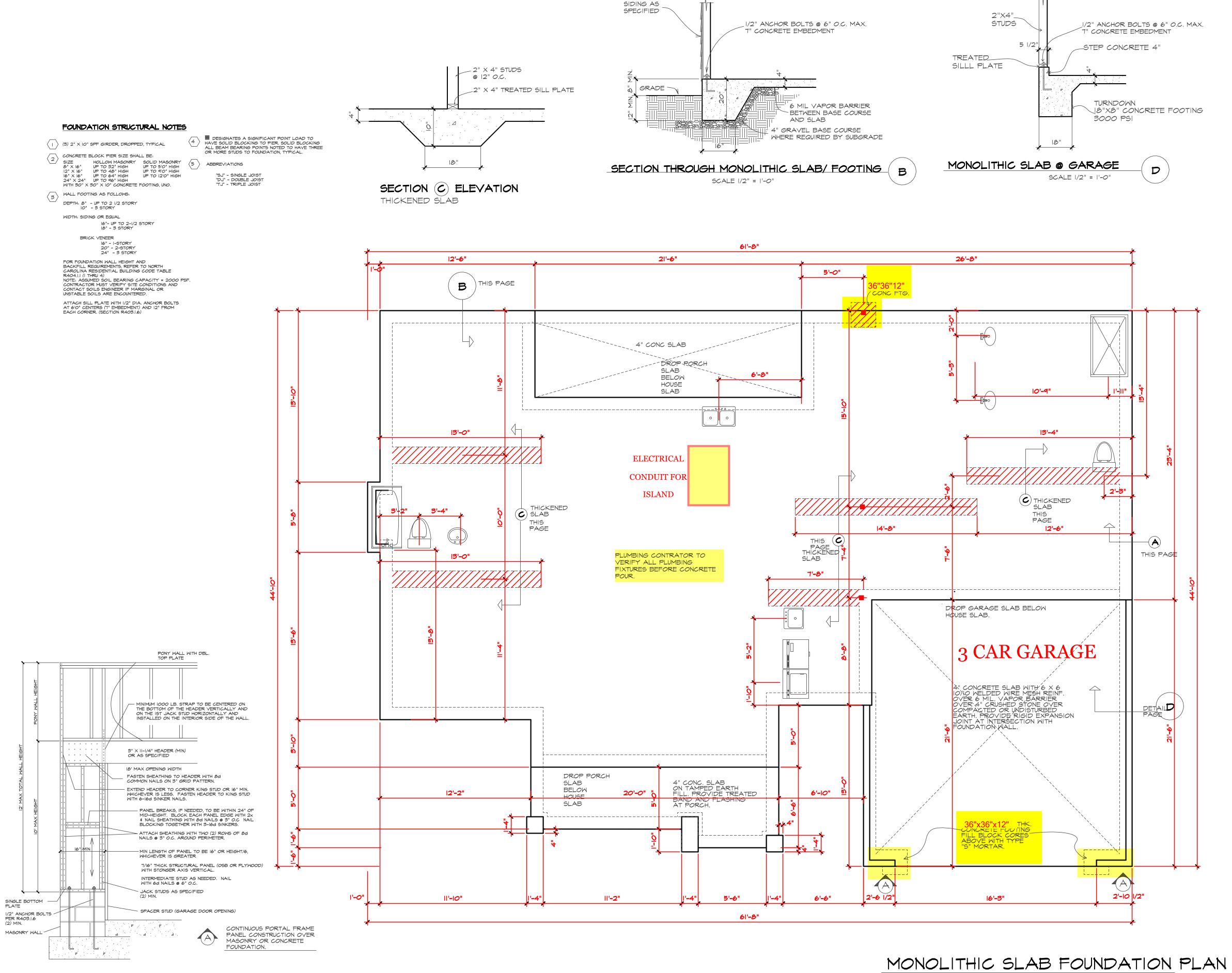
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contractors practices and procedures These drawings are instruments of service and as such shall

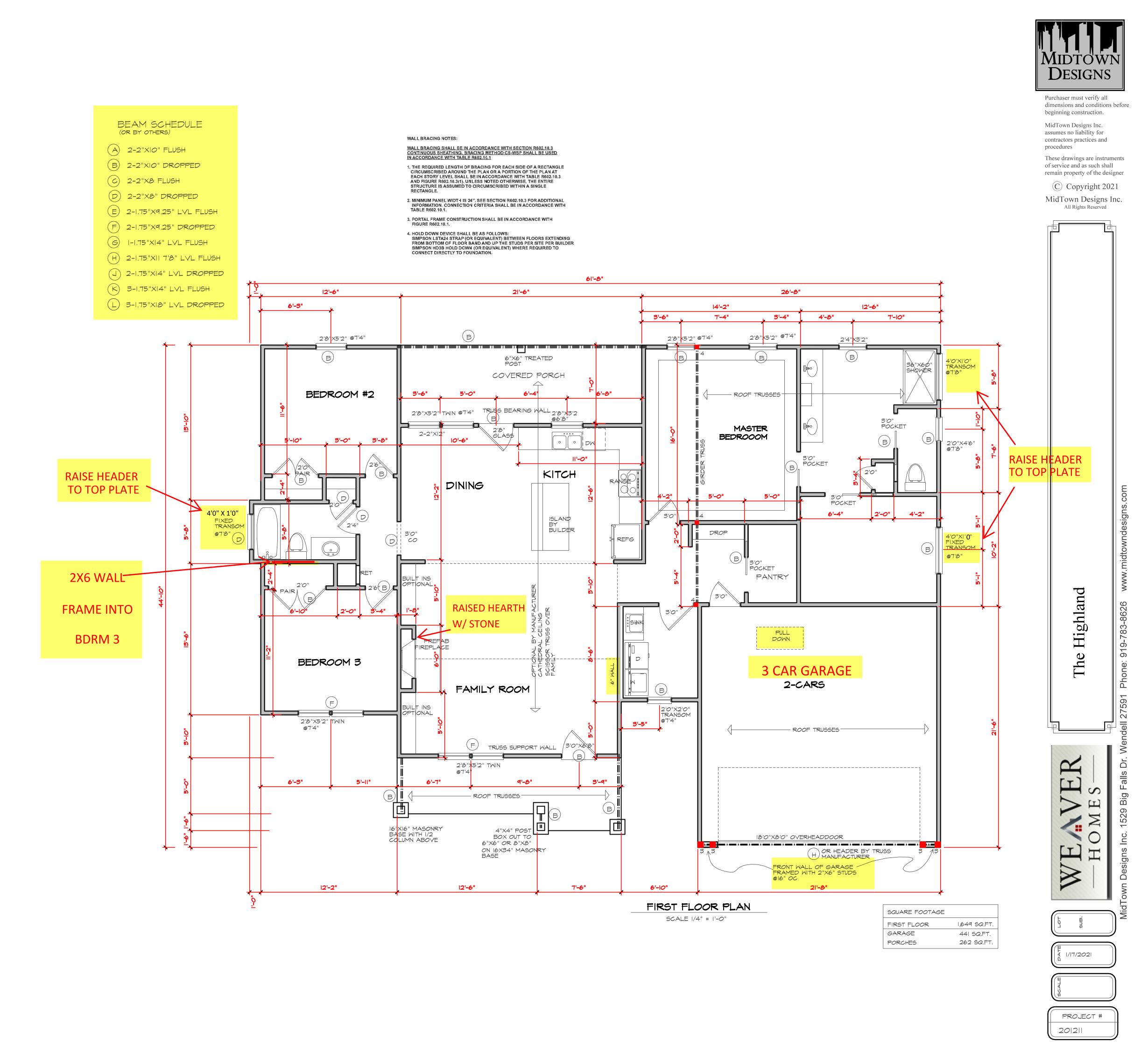
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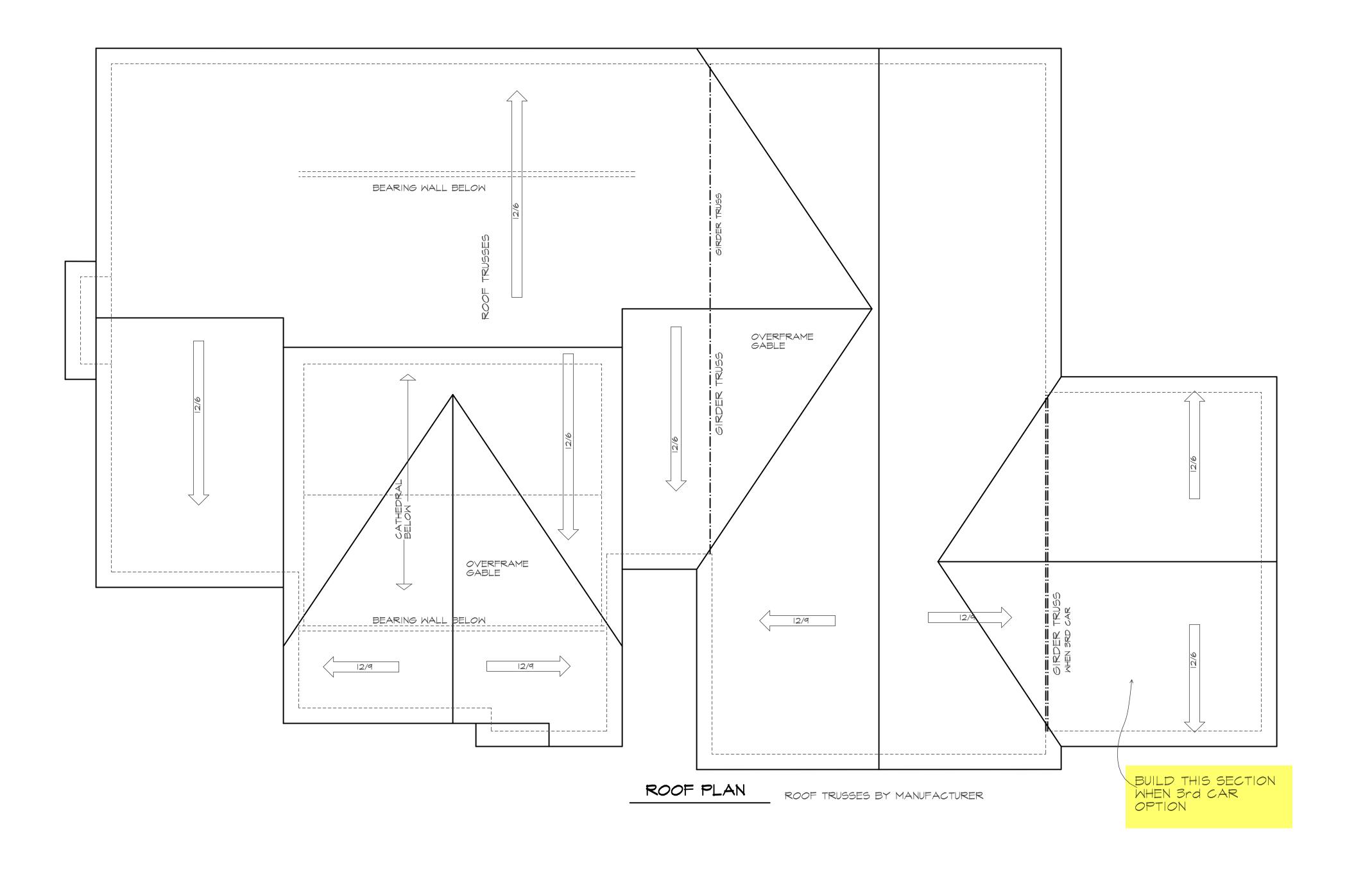
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( 1/17/2021

SCALE 1/4" = 1'-0"







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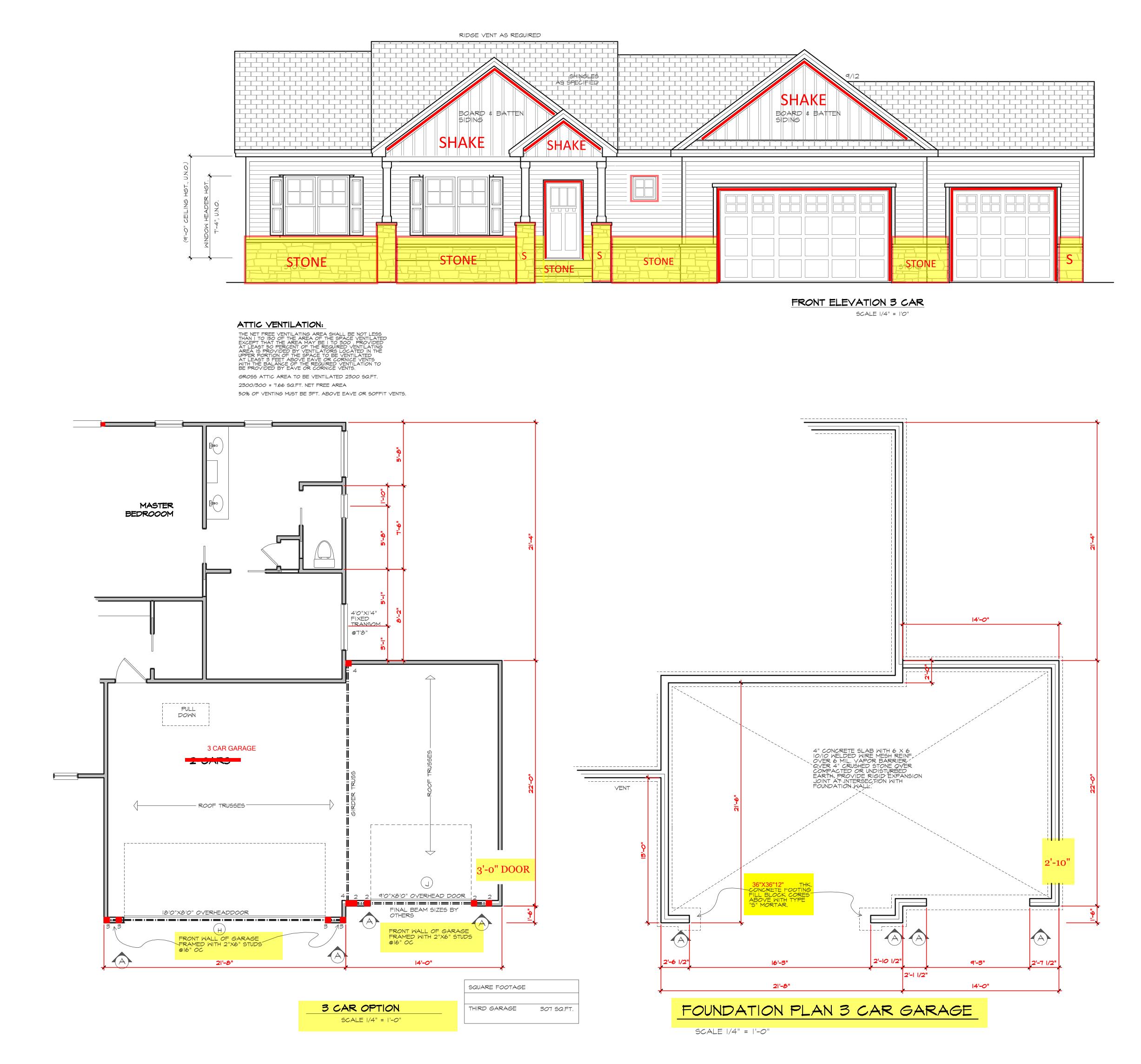
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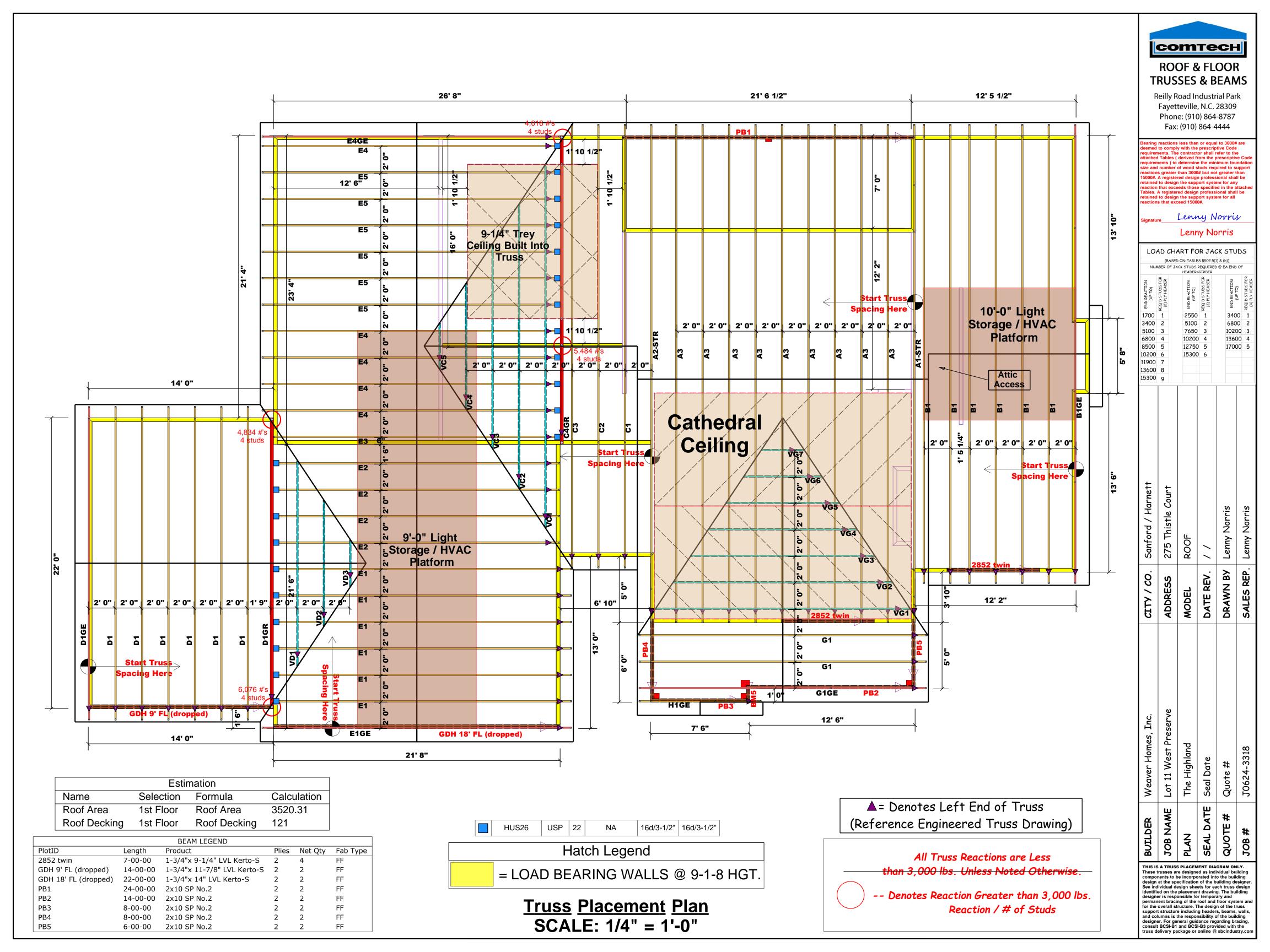
These drawings are instruments of service and as such shall remain property of the designer

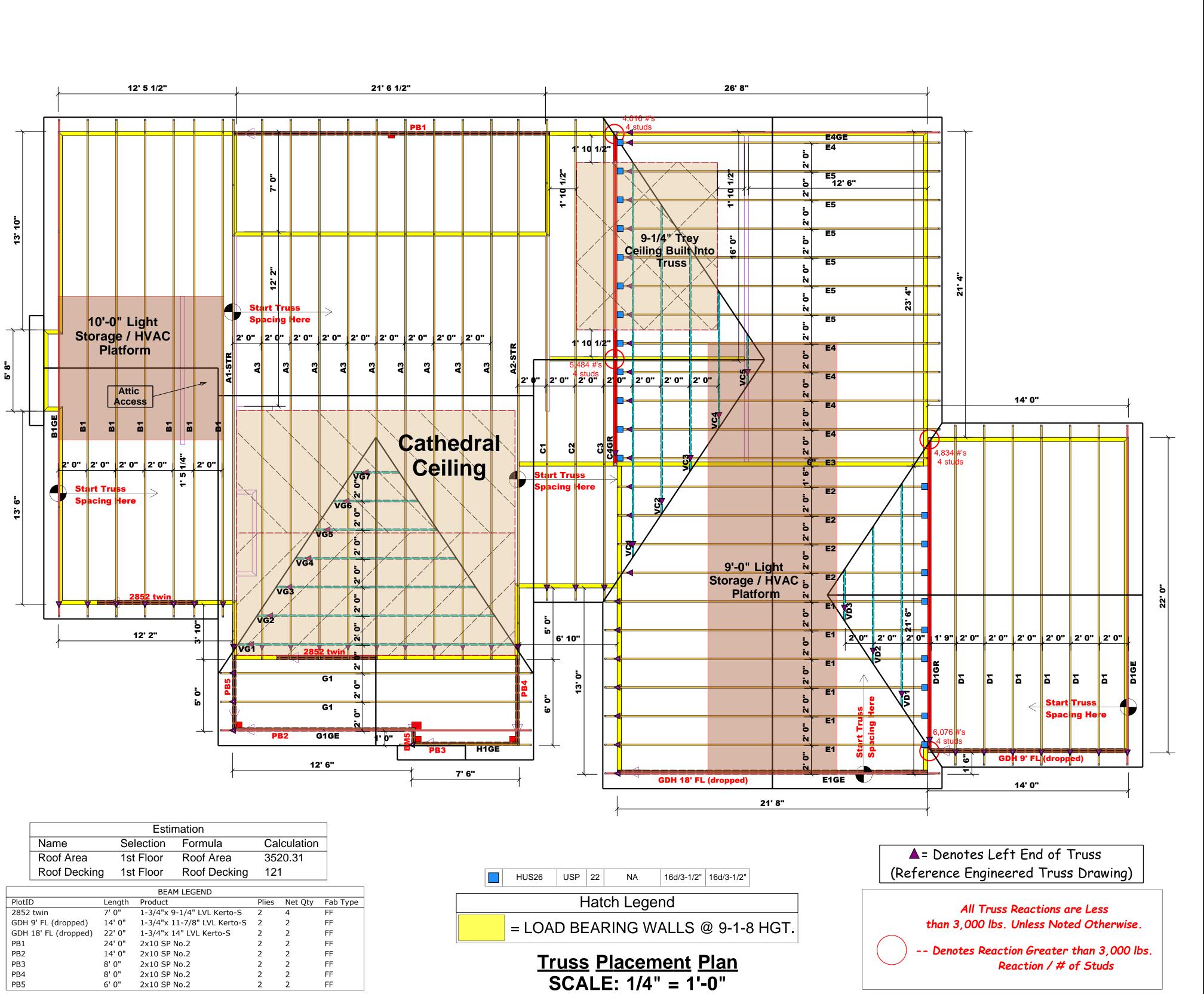
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[ 1/17/2021





COMTECH **ROOF & FLOOR** 

## **TRUSSES & BEAMS**

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

ring reactions less than or equal to 3000# are ned to comply with the prescriptive Code

Lenny Norris

Lenny Norris

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

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NUA	MBER C		STUDS R			A END OF	•
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR
1700	1		2550	1		3400	1
3400	2		5100	2		6800	3 4
5100	3		7650	3		10200	3
6800	4		10200	4		13600	4
8500	5		12750	5		17000	5
0200	6		15300	6			
1900	7						
3600	8						
5300	9						

IC.	CITY / CO.	CITY / CO. Sanford / Harnett
rve	ADDRESS	275 Thistle Court
	MODEL	ROOF
	DATE REV. //	//
	DRAWN BY	DRAWN BY Lenny Norris
	SALES REP.	SALES REP. Lenny Norris

JOB NAME SEAL DATE BUILDER QUOTE; THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. This is a trous placement blackam only.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designe 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 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 BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.cor

Quote#

Weaver Homes, In



Client: WEAVER HOMES

Project: Address: Date: 6/20/2024

Input by: LENNY NORRIS Job Name: HIGHLAND

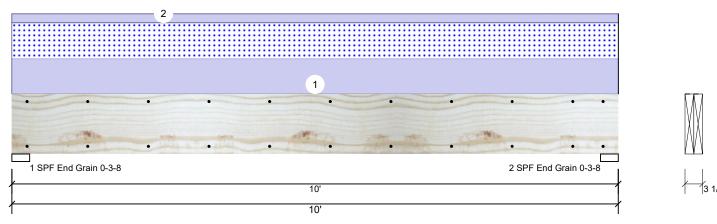
Project #:

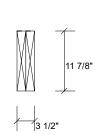
GDH 9' FL **Kerto-S LVL** 

1.750" X 11.875"

2-Ply - PASSED

Level: Level





Page 1 of 1

#### Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II Temperature: Temp <= 100°F

Application: Floor Design Method: ASD **Building Code:** IRC 2018 Load Sharing: No Deck: Not Checked Reactions UNPATTERNED Ib (Uplift) Direction Live Wind Const Brg Dead Snow Vertical 0 1511 1165 0 0 1 O 1511 1165 O 0 2 Vertical

## **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6091 ft-lb	5'	22897 ft-lb	0.266 (27%)	D+S	L
Unbraced	6091 ft-lb	5'	9721 ft-lb	0.627 (63%)	D+S	L
Shear	2000 lb	1'3 3/8"	10197 lb	0.196 (20%)	D+S	L
LL Defl inch	0.052 (L/2209)	5'	0.239 (L/480)	0.217 (22%)	S	L
TL Defl inch	0.119 (L/962)	5'	0.318 (L/360)	0.374 (37%)	D+S	L

## **Bearings**

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" D+S Vert 1511 / 1165 2676 I End Grain 2 - SPF 3.500" 1511 / 1165 D+S Vert 2676 L End Grain

## **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			Тор	233 PLF	0 PLF	233 PLF	0 PLF	0 PLF	D1 TRUSS
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	DEAD WALL
	Self Weight				9 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.

- Dry service conditions, unless noted otherwise
   LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used
- Design assumes top edge is laterally restrained
  Provide lateral support at bearing points to avoid
  lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info



This design is valid until 6/28/2026



WEAVER HOMES Client:

Project: Address: Date: 6/20/2024

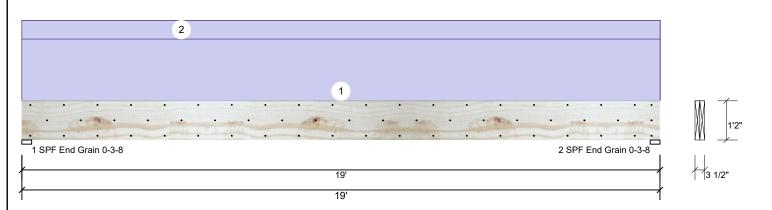
Input by: LENNY NORRIS Job Name: HIGHLAND

Page 1 of 1

Project #:

1.750" X 14.000" Kerto-S LVL GDH 18' FL 2-Ply - PASSED

Level: Level



Member In	Member Information						Reactions UNPATTERNED lb (Uplift)								
Type:	Girder		Applicat	ion: F	loor		Brg	Dire	ction	Live	)	Dead	Snow	Wind	Cons
Plies:	2		Design	Method: A	ASD		1	Verti	cal	C	)	2573	0	0	(
Moisture Cond	dition: Dry		Building	Code: I	RC 2018		2	Verti	cal	C	)	2573	0	0	(
Deflection LL:	480		Load Sh	naring: N	No										
Deflection TL:	360		Deck:	١	Not Checked										
Importance:	Normal - I	II													
Temperature:	Temp <=	100°F													
							Bear	ings							
							Bea	ring	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
									3.500"	Vert	25%	2573 / 0	2573	Uniform	D
							End								
Analysis Re	sults						Grai								
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2-5		3.500"	Vert	25%	2573 / 0	2573	Uniform	D
Moment	11641 ft-lb	9'6"	24299 ft-lb	0.479 (48%	%) D	Uniform	End Grai								
Unbraced	11641 ft-lb	9'6"	11659 ft-lb	0.999	D	Uniform									

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11641 ft-lb	9'6"	24299 ft-lb	0.479 (48%)	D	Uniform
Unbraced	11641 ft-lb	9'6"	11659 ft-lb	0.999 (100%)	D	Uniform
Shear	2191 lb	17'6 1/2"	9408 lb	0.233 (23%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.477 (L/466)	9'6 1/16"	0.618 (L/360)	0.772 (77%)	D	Uniform

#### **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 3 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 a maximum of 8'11 5/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

o Eatoral oloi	radifiedd fallo badda eir dirigi	io pry Wiatri.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	GABLE END	
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	DEAD WALL	
	Self Weight				11 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.

- Dry service conditions, unless noted otherwise
   LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- Handling & Installation

  1. UVI 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

- For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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Manufacturer Info





Client: WEAVER HOMES

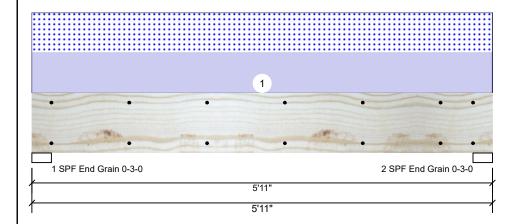
Project: Address: Date: 6/20/2024 Input by:

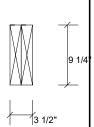
LENNY NORRIS Job Name: HIGHLAND

Project #:

**Kerto-S LVL** 1.750" X 9.250" 2-Ply - PASSED **2852 TWIN** 

Level: Level





Page 1 of 1

#### Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II Application: Floor Design Method: ASD **Building Code:** IRC 2018 Load Sharing: No Deck: Not Checked Reactions UNPATTERNED Ib (Uplift) Live Wind Brg Direction Dead Snow Const Vertical 0 1403 1382 0 0 1 O 1403 1382 O 0 2 Vertical

#### **Analysis Results**

Temperature:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3613 ft-lb	2'11 1/2"	14423 ft-lb	0.251 (25%)	D+S	L
Unbraced	3613 ft-lb	2'11 1/2"	11027 ft-lb	0.328 (33%)	D+S	L
Shear	1829 lb	4'10 3/4"	7943 lb	0.230 (23%)	D+S	L
LL Defl inch	0.028 (L/2388)	2'11 1/2"	0.139 (L/480)	0.201 (20%)	S	L
TL Defl inch	0.056 (L/1185)	2'11 1/2"	0.185 (L/360)	0.304 (30%)	D+S	L

## **Bearings**

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 1403 / 1382 D+S Vert 2784 I End Grain 2 - SPF 3.000" 1403 / 1382 2784 L D+S Vert End Grain

#### **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.

Temp <= 100°F

- 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			Тор	467 PLF	0 PLF	467 PLF	0 PLF	0 PLF	A3 & B1 TRUSS
	Self Weight				7 PI F					

#### 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.

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- Handling & Installation
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