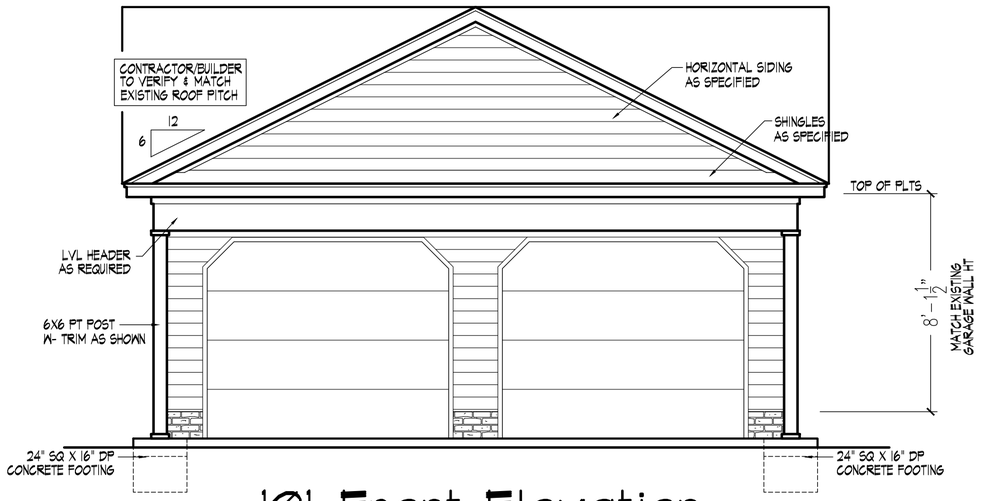
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

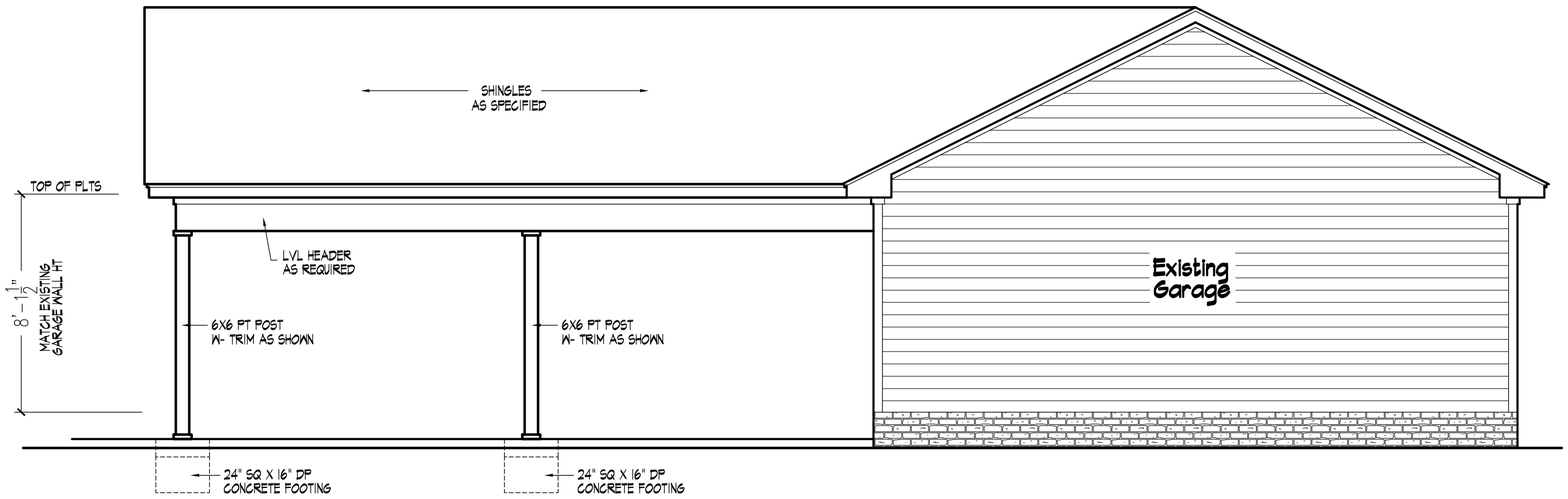
11/05/2025

Harnett COUNTY NORTH CAROLINA



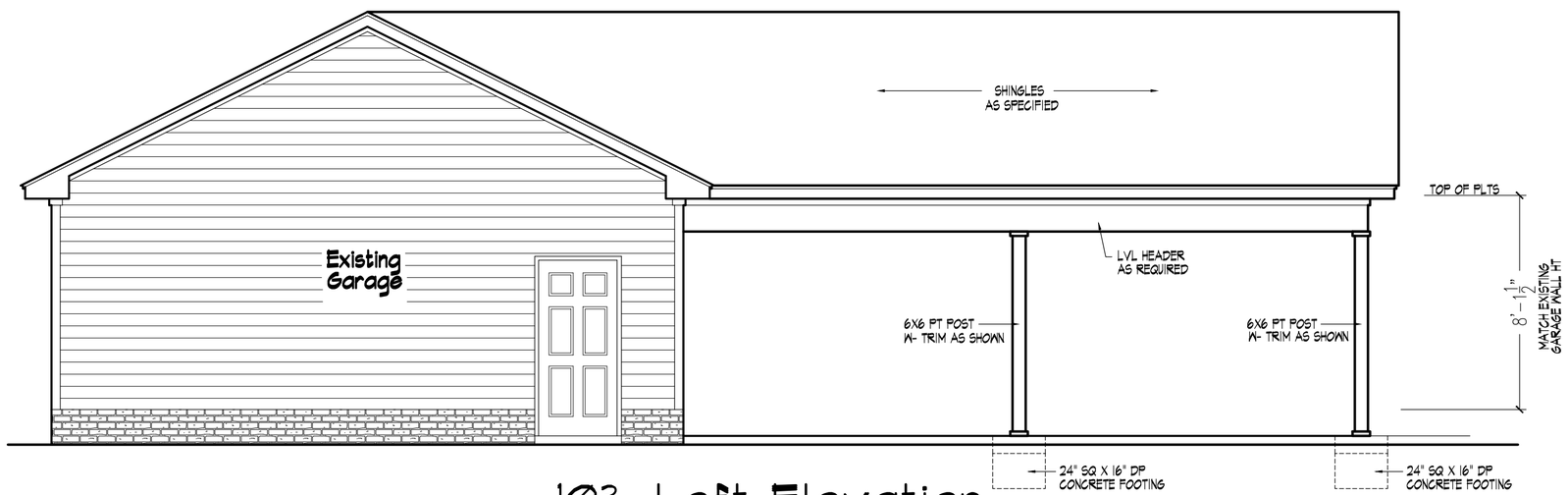
101 Front Elevation

Scale 1/4" = 1'-0"



102 Right Elevation

Scale 1/4" = 1'-0"

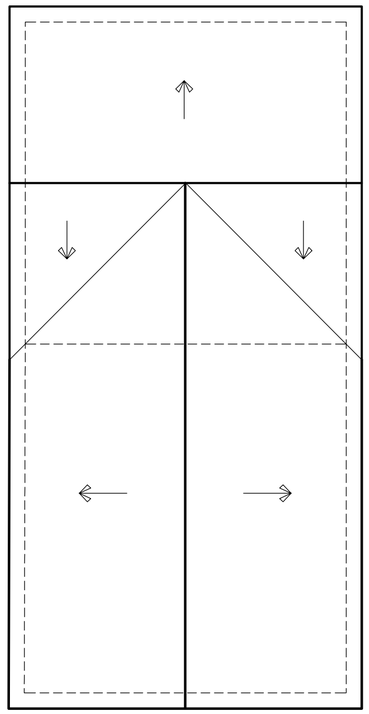


103 Left Elevation

Scale 1/4" = 1'-0"

Area Tabulations

Carport Addition	624 SQ. FT.



104 Roof Plan

Scale 1/8" = 1'-0"

John E Carroll
Residential Design
746 palestine road, linden nc 28356
johnecarroll.design@gmail.com
910.850.9408

135 Country Meadow Lane

An Addition to
Coats NC 27521

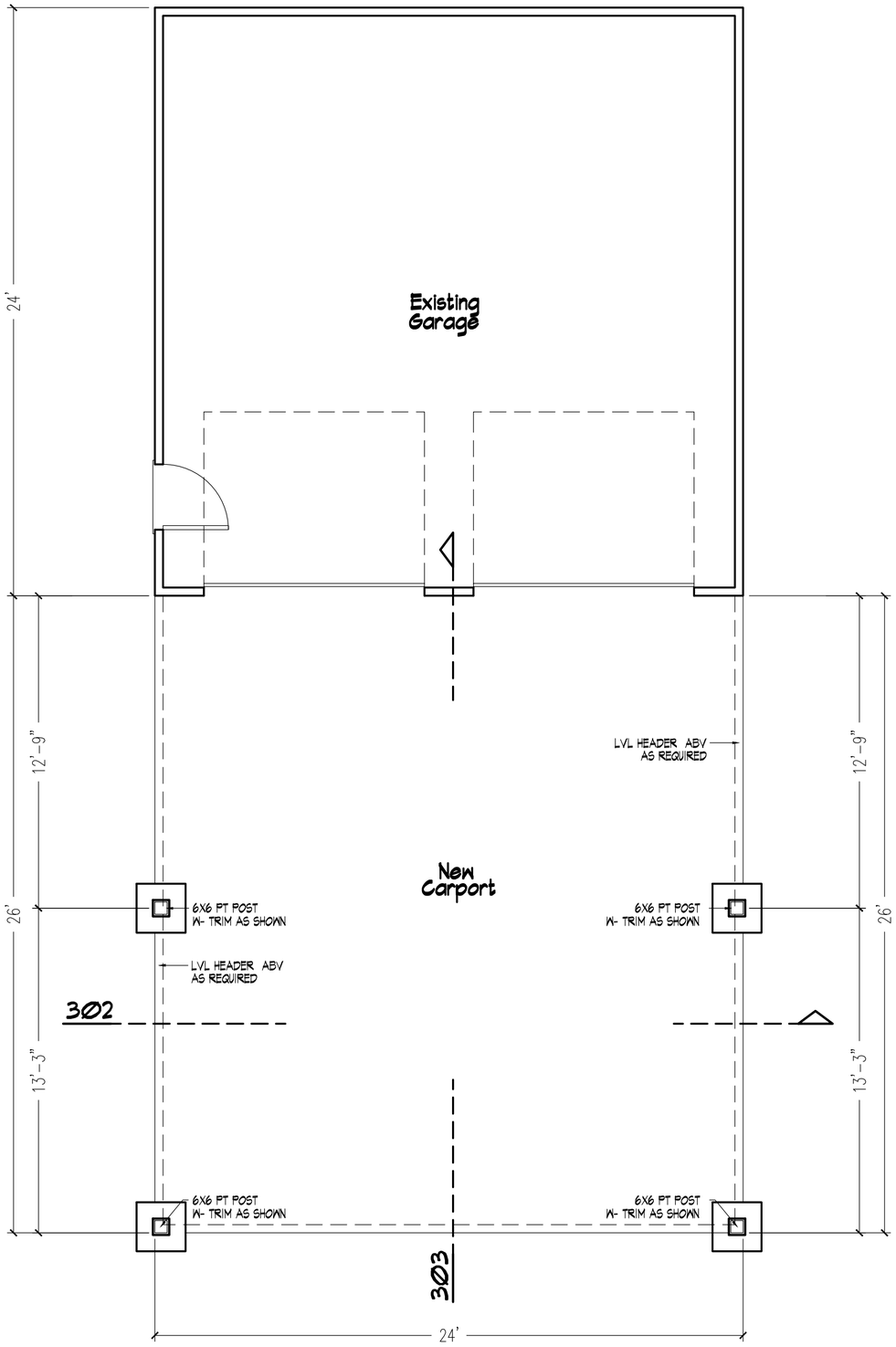
Sheet Title

Exterior Elevations/Roof Plan

Revisions

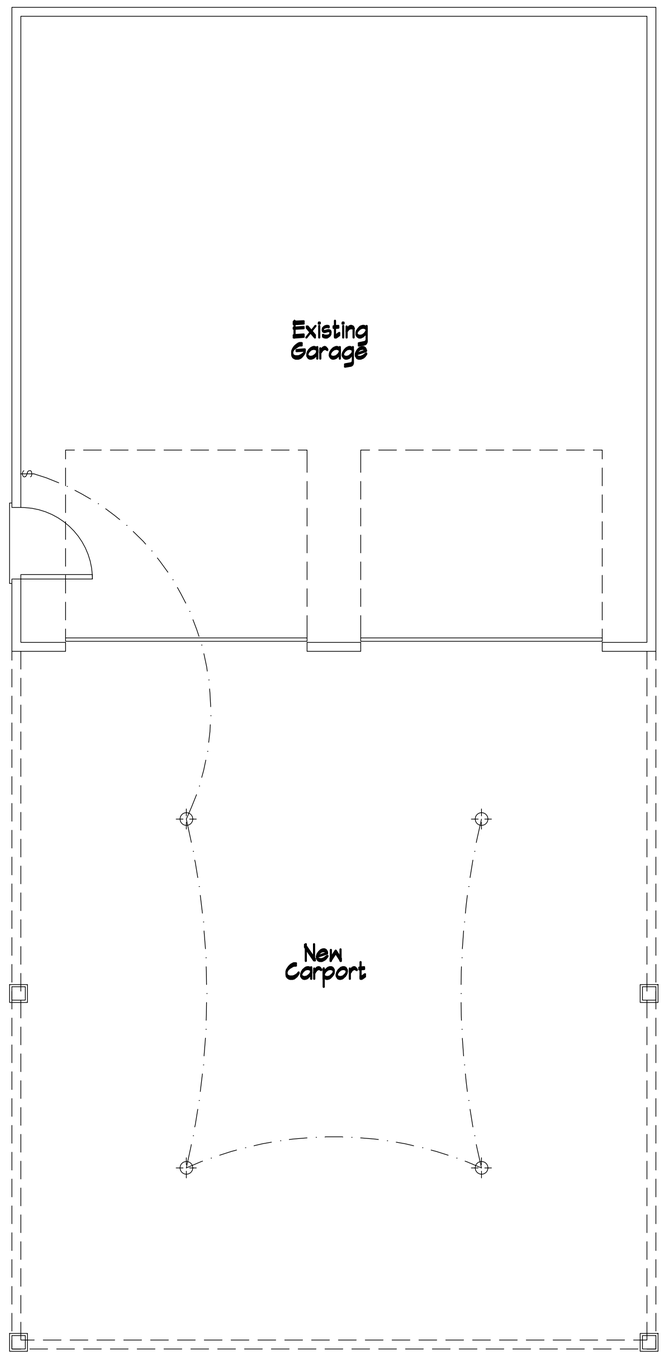
Scale:
AS SHOWN
Date:
November 3, 2025

Sheet No.



201 Floor Plan

Scale 1/4" = 1'-0"



202 Electrical Floor Plan

Scale 1/4" = 1'-0"

John E Carroll
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746 palestine road, linden nc 28356
johnecarroll.design@gmail.com
910.850.9408

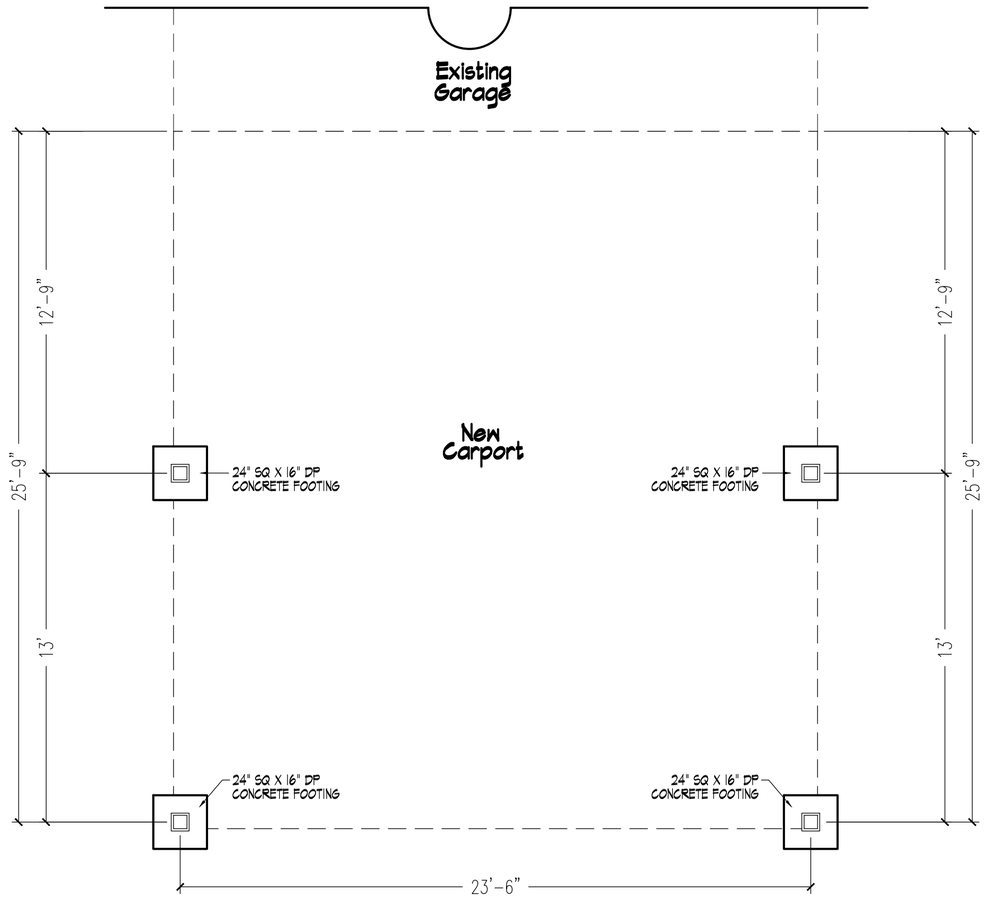
An Addition to
135 Country Meadow Lane
Coats NC 27521

Sheet Title
Floor Plan/Electrical Floor Plan

Revisions

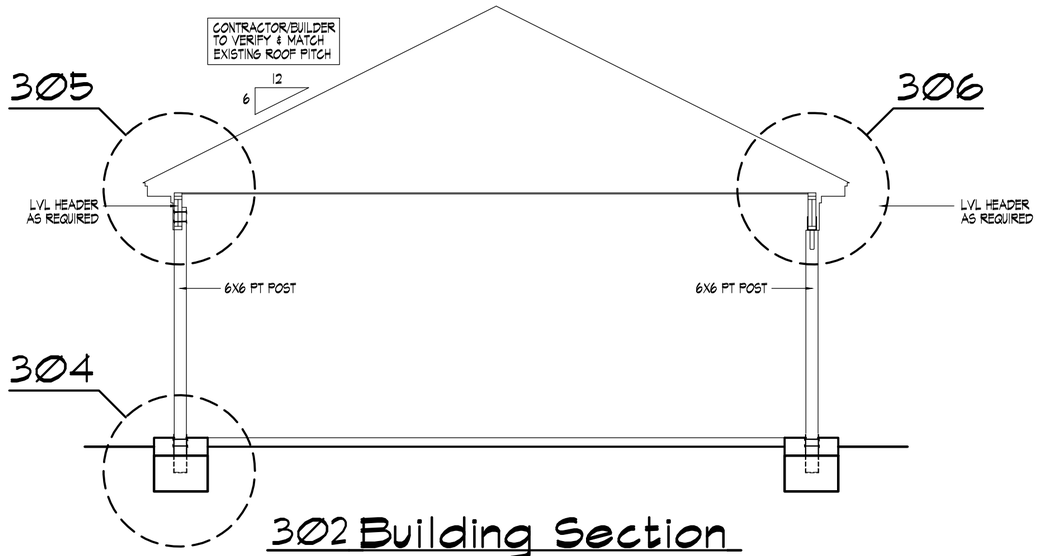
Scale:
AS SHOWN
Date:
November 3, 2025

Sheet No.
2



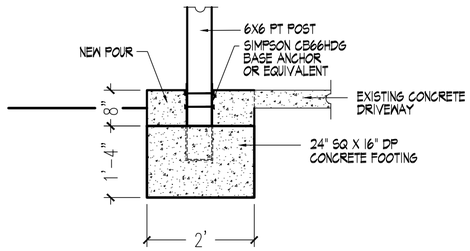
301 Foundation Plan

Scale 1/4" = 1'-0"



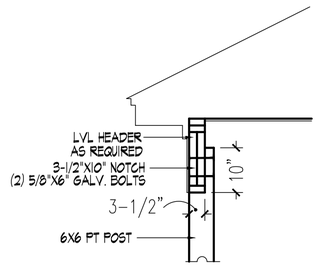
302 Building Section

Scale 1/4" = 1'-0"



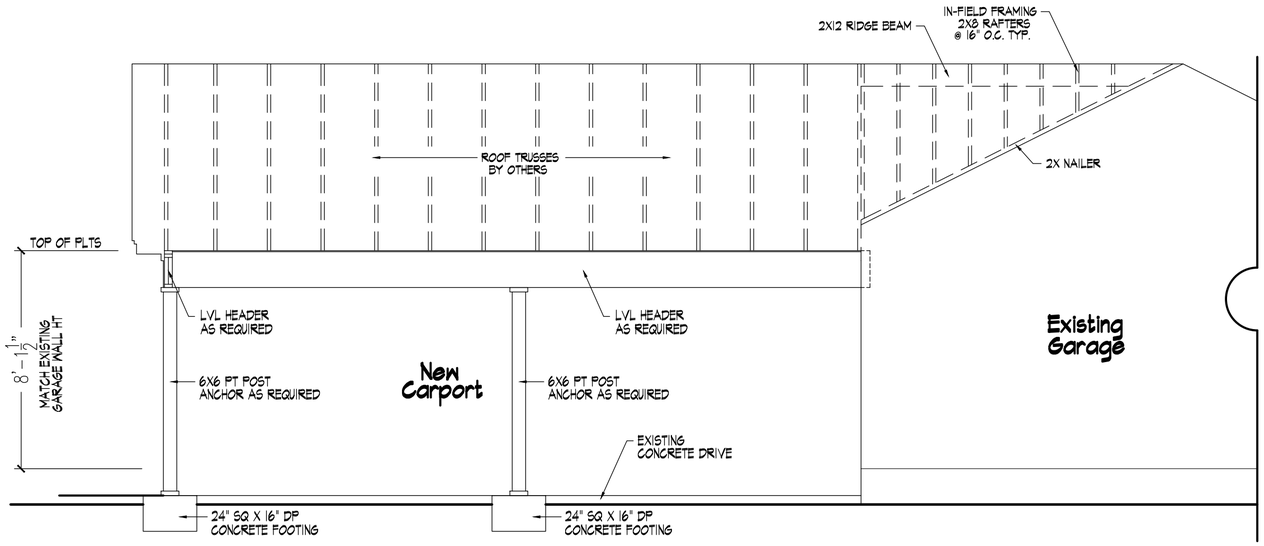
304 Detail

Scale 1/2" = 1'-0"



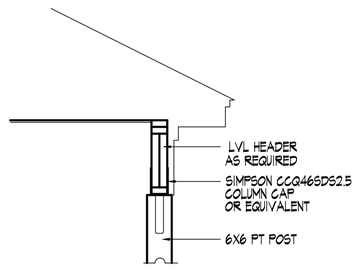
305 Detail

Scale 1/2" = 1'-0"



303 Building Section

Scale 1/4" = 1'-0"



306 Detail

Scale 1/2" = 1'-0"

"Optional"

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746 palestine road, linden nc 28356
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910.850.9408

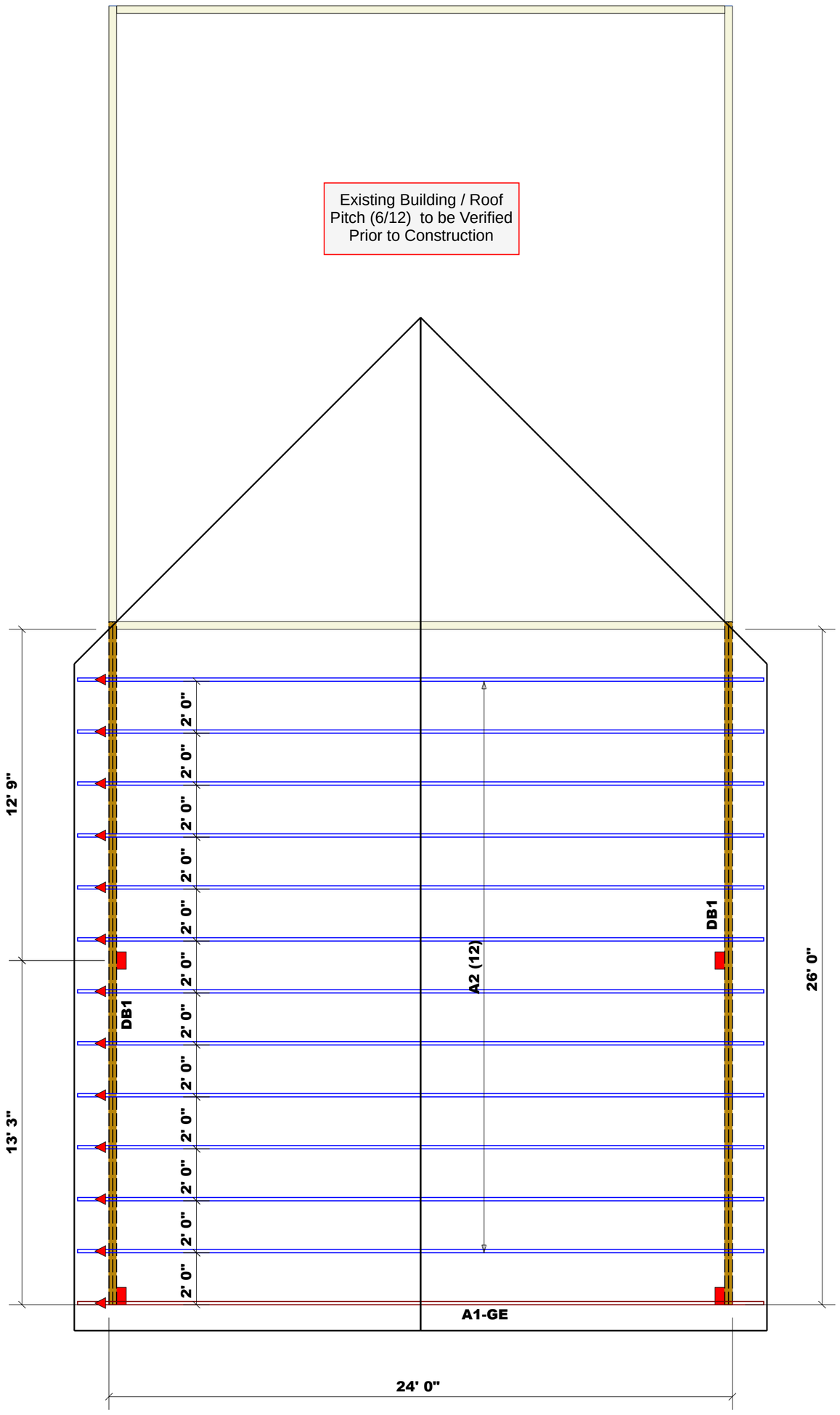
An Addition to
135 Country Meadow Lane
Coats NC 27521

Sheet Title
Foundation Plan/Building Sections

Revisions

Scale:
AS SHOWN
Date:
November 3, 2025

Sheet No.
3



Beam Schedule					
PlotID	Length	Product	Plies	Net Qty	Fab Type
DB1	27' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	4	FF

Truss Placement Plan

SCALE: N.T.S.

PLEASE NOTE:

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#.

COMTECH

ROOF & FLOOR TRUSSES & BEAMS

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

CUSTOMER (ACCOUNT)	Cash	STREET	135 Country Meadow Lane
(BUILDER)		CITY	Coats, NC 27521
JOB NAME - LEVEL	Carport Addition - Roof	TAX AUTH.	NC - Harnett
PLAN NAME	Carport Addition	SALES REP.	Anthony Williams ( )
PLAN SEAL DATE (EOR)	10/1/2025	DESIGNER (& ASST.)	Anthony Williams ( )
JOB # (OT REF)	251937 - A	PLAN REV. DATE	10/21/2025

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 BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

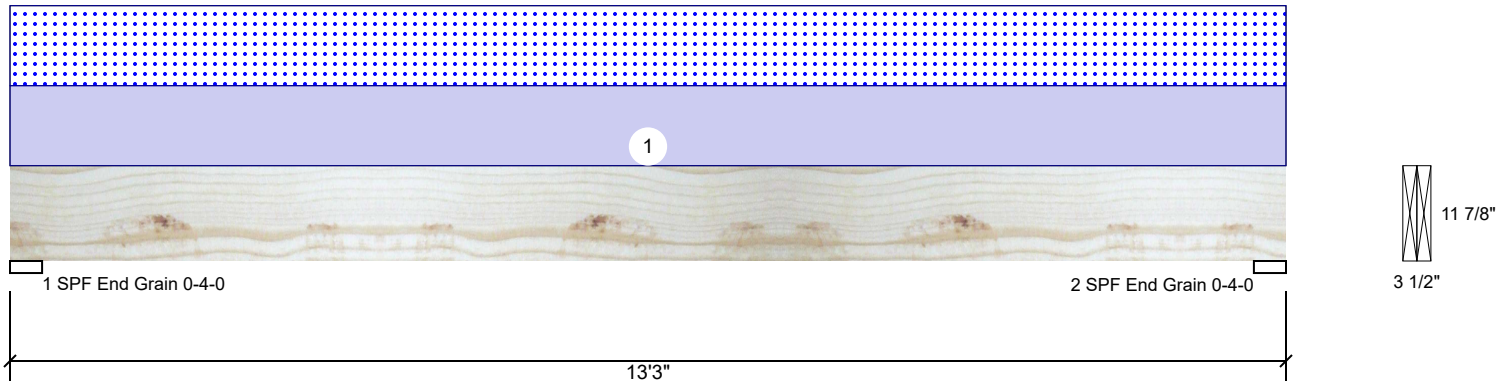
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

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 (4) PLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

Client:	STE General Contractors	Date:	10/21/2025
Project:		Input by:	Anthony Williams
Address:		Job Name:	Carport Addition
		Project #:	

DB1 Kerto-S LVL 1.750" X 11.875" 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 - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1910	1848	0	0
2	Vertical	0	1910	1848	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.000"	Vert	32%	1910 / 1848	3758	L	D+S
2 - SPF End Grain	4.000"	Vert	32%	1910 / 1848	3758	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11451 ft-lb	6'7 1/2"	22897 ft-lb	50%	D+S	L
Unbraced	11451 ft-lb	6'7 1/2"	11461 ft-lb	100%	D+S	L
Shear	3008 lb	11'11 1/8"	10197 lb	29%	D+S	L
LL Defl inch	0.183 (L/832)	6'7 1/2"	0.318 (L/480)	58%	S	L
TL Defl inch	0.373 (L/409)	6'7 1/2"	0.635 (L/240)	59%	D+S	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings.
2 Girders are designed to be supported on bottom edge only and across their full width.
3 Multiple plies must be fastened together as per manufacturer's details.
4 Top loads must be supported equally by all plies.
5 Top must be laterally braced at a maximum of 7'8 5/16" o.c.
6 Bottom must be laterally braced at end bearings.
7 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	279 PLF	0 PLF	279 PLF	0 PLF	0 PLF	A1
	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.

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 2/28/2028

Manufacturer Info

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