

**REAR ELEVATION** 

Scale: 1/8" = 1'0"

PLAN: Anconia

**ELEVATIONS** 

PROJECT ADDRESS: 54 Alder Dr. Magnolia Hills Lot 66

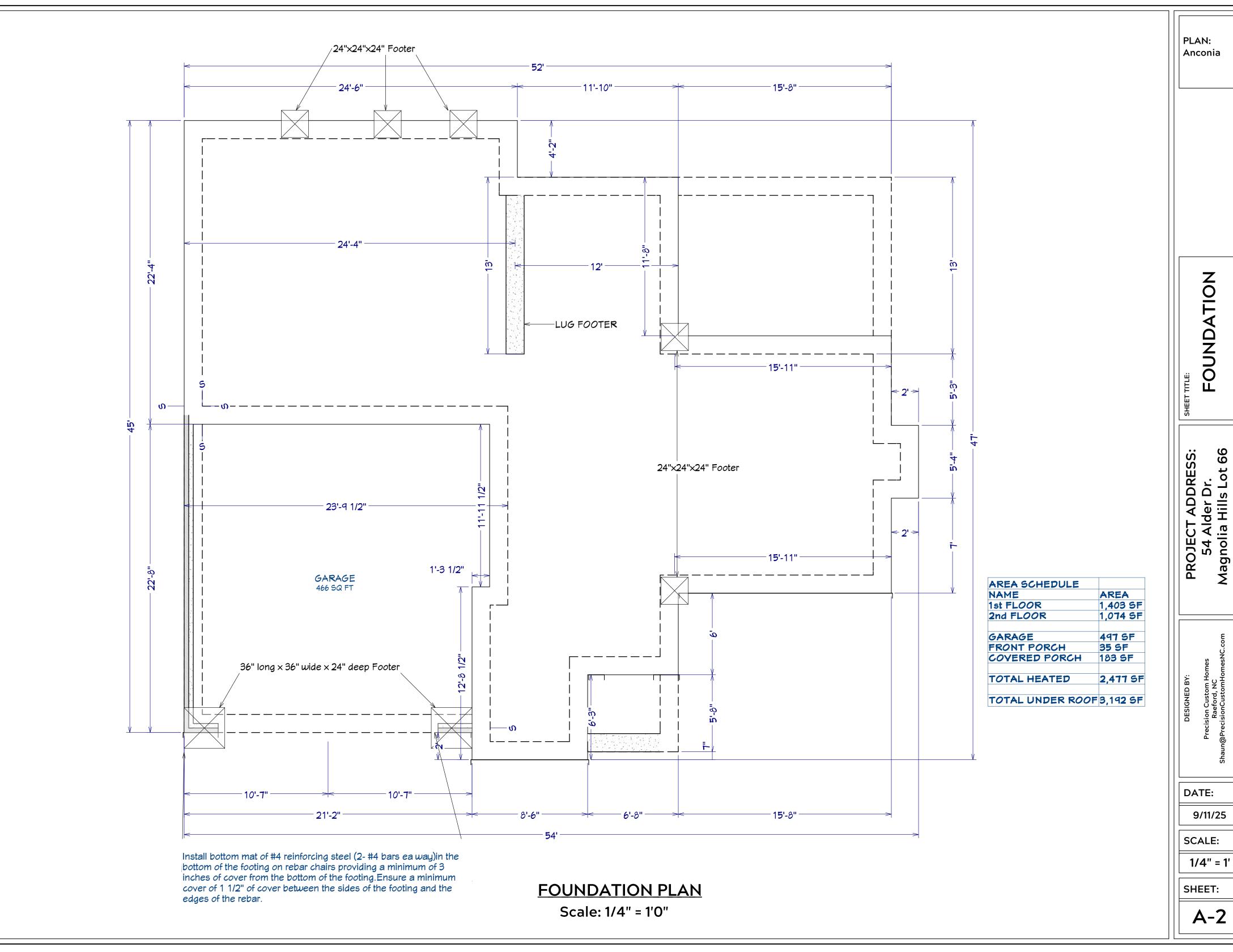
9/11/25

SCALE:

1/4" = 1'

SHEET:

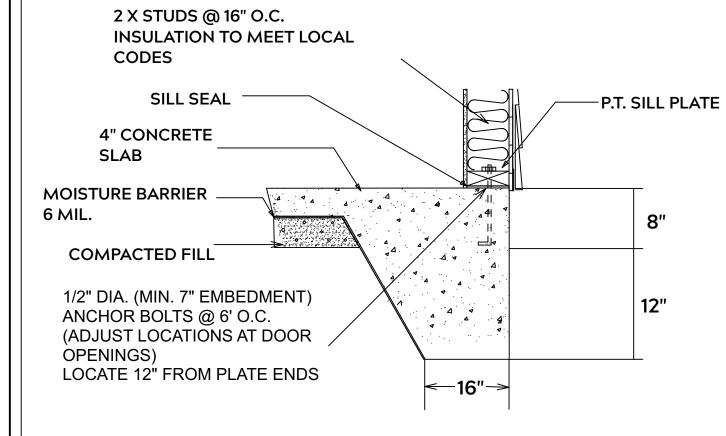
A-1



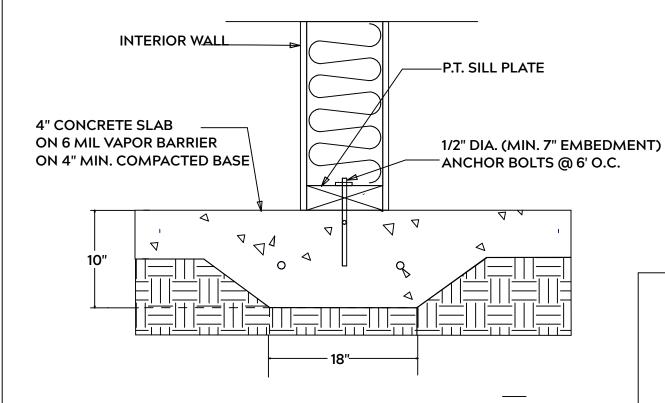
Anconia

Precision Custom Hor Raeford, NC n@PrecisionCustomHom

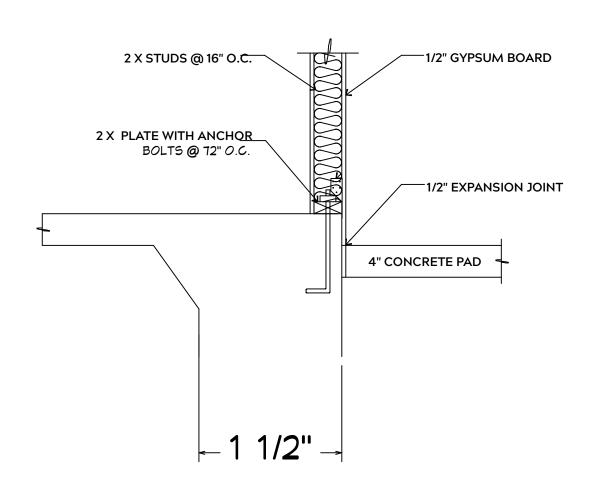
1/4" = 1'



### **MONOLITHIC SLAB**



### **LUG FOOTING**



#### **FOUNDATION NOTES:**

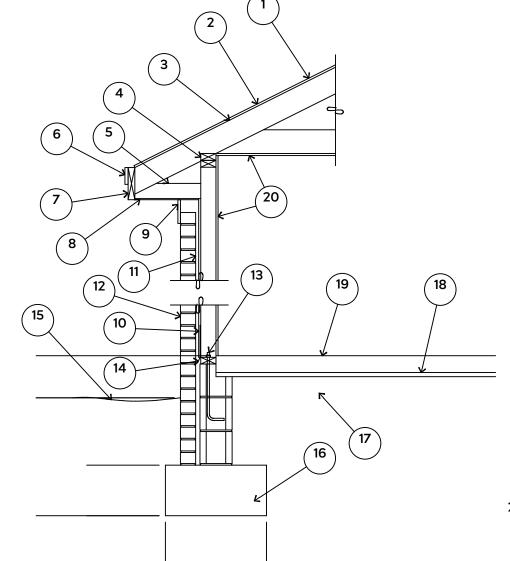
ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL THE 28 DAY COMPRESSIVE STRENGTH OF ALL **FOOTINGS IS 3000 PSI** 

PROVIDE WATER PROOFING AND PERIMTER **DRAINS AS REQUIRED** 

FOOTING WIDTHS ARE BASED ON A LOAD BEARING SOIL CAPACITY OF 2000 PSI

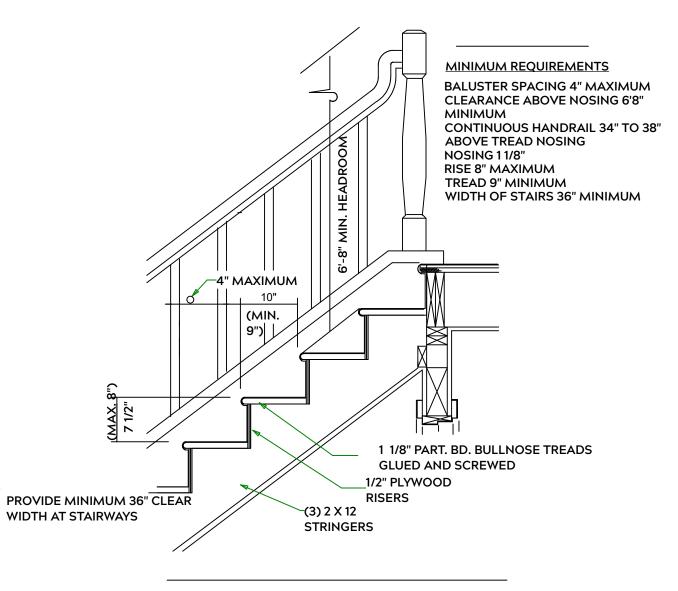
PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND IN CRAWL SPACE AND **GROUND UNDER POURED CONCRETE** 

ALL ANCHOR BOLTS TO BE 1/2" X 12" LONG. ANCHOR BOLTS SHALL BE SPACED AT A MAXIMUM OF 6' ON CENTER AND NO MORE THEN 1' FROM EACH CORNER



- 15# FELT UNDERLAYMENT UNDER COMPOSITION SHINGLES.
- 2. ROOF DECKING.
- 3. 2 X RAFTERS / ENGINEERED TRUSSES
- DOUBLE TOP PLATE.
- 5. 2 X 4 RETURN. 6. 3/4" FASCIA OR PVC TRIM COIL
- 7. 2 X FASCIA
- 1/4" PLYWOOD OR VINYL SOFFIT
- 9. 1X FREIZE BOARD (TO BE USED WITH **BRICK VENEERS)**
- 10. INSULATION BOARD OR HOUSE WRAP
- 11. AIR SPACE.
- 12 BRICK WITH BRICK TIES PER MANUFACTURER'S SPECIFICATIONS.
- 13. 1/2" X 12" ANCHOR BOLTS, 6'-0" O.C., 12" FROM CORNERS.
- 4. FLASHING WITH WEEP HOLES @ 48" O.C.
- 15. FINISHED GRADE.
- 16. FOOTING 17. COMPACTED EARTH FILL
- 18. 6 MIL. VAPOR BARRIER
- 19. 4" CONCRETE SLAB, 3,000 P.S.I.
- WITH 6" X 6" 10 GA. X 10 GA. WELDED WIRE FABRIC.
- 20. 1/2" GYPSUM BOARD.

## **EXTERIOR WALL SECTION**



**STAIR DETAIL** 

**GENERAL FRAMING NOTES:** 

ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALLE BE PRESSURE TREATED

FRAMING LUMBER SHALL BE SYP #2 GRADE AND / OR SPRUCE PINE FIR #1 AND / OR KILN DRIED

WHERE PRE-ENGINEERED JOISTS AND TRUSSES ARE USED, MANUFACTURER SHALL PROVIDE DRAWINGS / SCHEMATICS, WHICH SHALL BEAR OF A N.C. **ENGINEER** 

STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN MEMBER TO ITS ORIGINAL CAPACITY

NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16d NAILS STAGGERED 32" O.C. AND USE 3 X 16d NAILS 2" IN AT EACH END.

NAIL FLOOR JOISTS TO SILL PLATE WITH WITH 8d TOE NAILS

ALL EXPOSED FRAMING ON PORCHES OR DECKS SHALL BE PRESSURE **TREATED** 

PROVIDE WATERPROOFING AND DRAINS AS REQUIRED

ALL FRAMING TO BE 16" O.C. WALL FRAMING DIMENSIONS ARE BASED ON 2X4 OR 2X6 EXTERIOR WALLS AND 2X4 INTERIOR WALLS. DOULBE / TRIPLE JACK STUDS AS NECESSARY UNDER HEADERS AS REQUIRED

LVL'S TO BE SIZED BY OTHERS (TRUSS MANUFACTURER)

INTERIOR WALL @ GARAGE STEP DOWN

PLAN: Anconia

> SHEETS AIL

ET 

Magnolia Hills Lot 66 PROJECT ADDRESS: der

DATE:

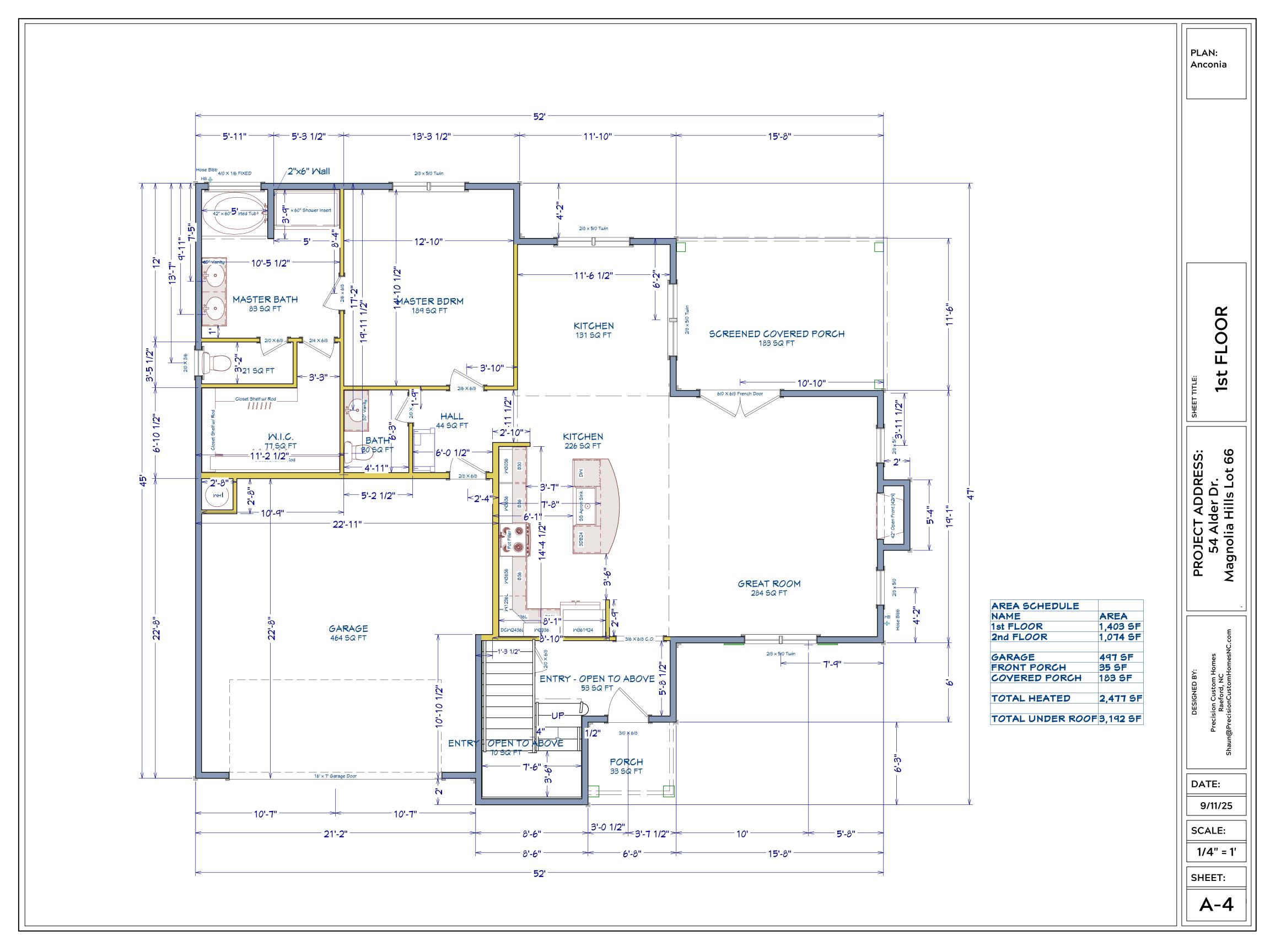
9/11/25

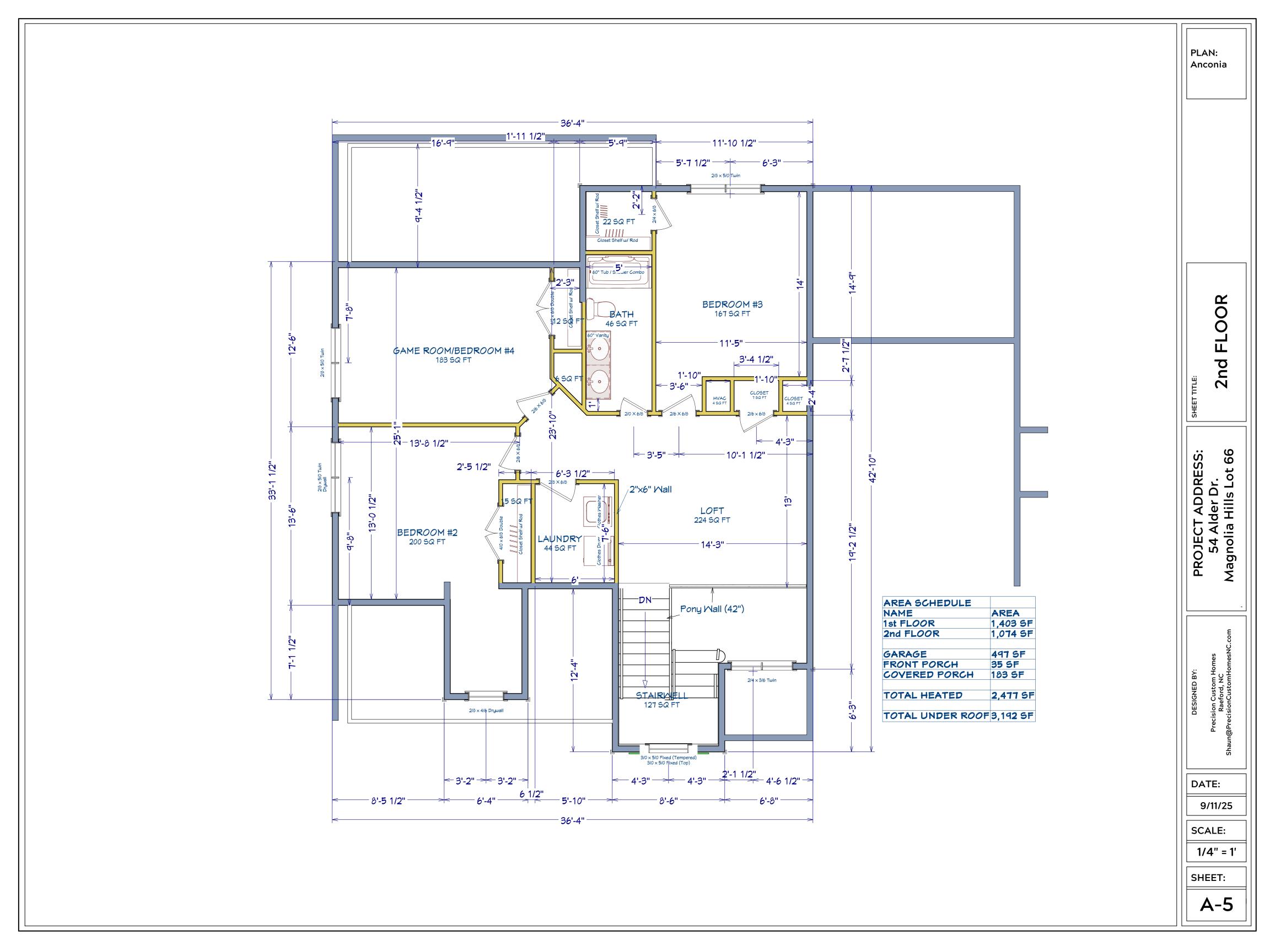
SCALE:

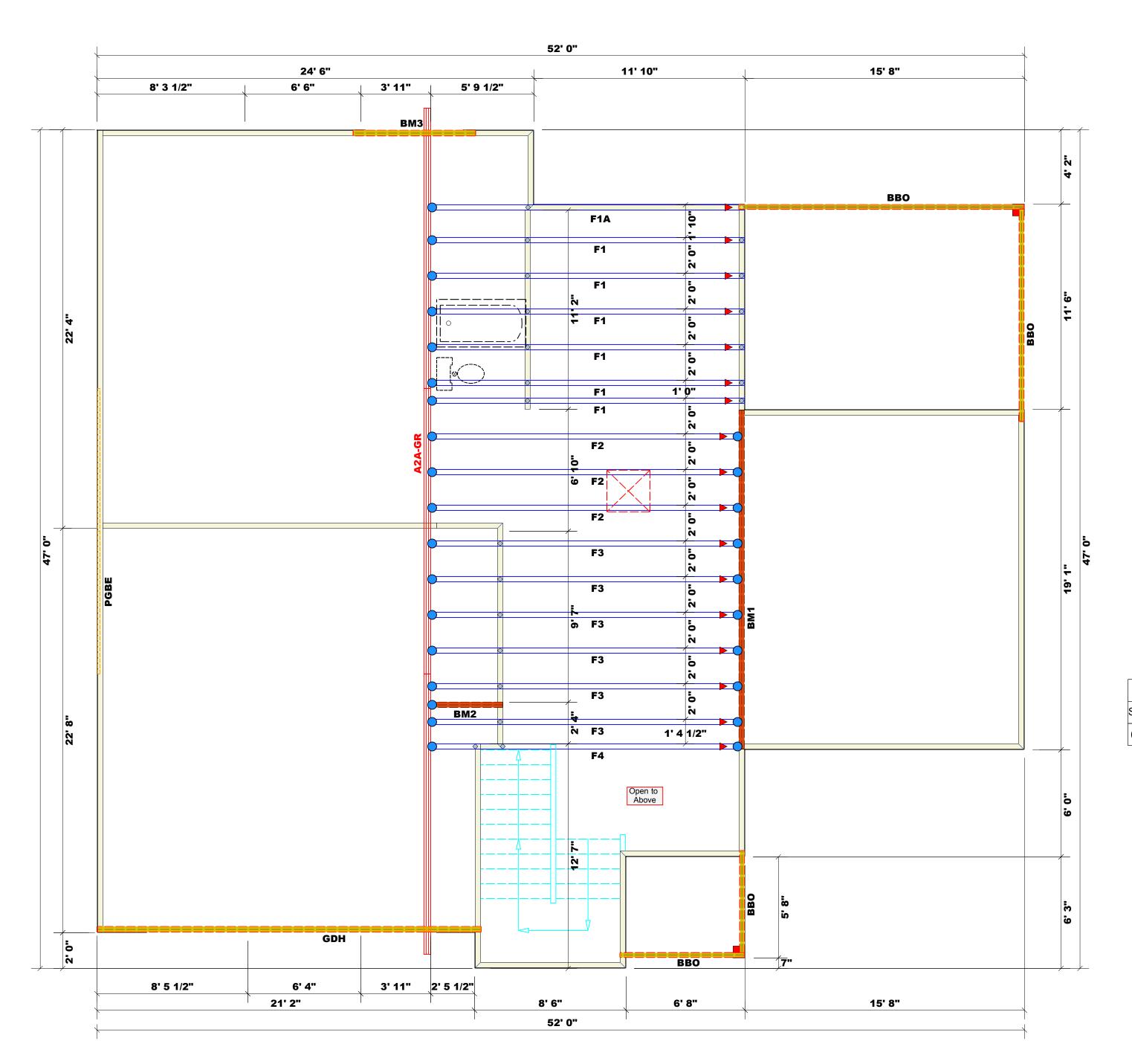
1/4" = 1'

SHEET:

**A-3** 







Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to

## All Walls Shown Are Considered Load Bearing

face of frame wall unless noted otherwise

Plumbing Drop Notes	
1. Plumbing drop locations shown are NOT exact.	
Contractor to verify ALL plumbing drop	
locations prior to setting Floor Trusses.	
3. Adjust spacing as needed not to exceed 24"oc.	

Connector Information Nail Information

Sym Product Manuf Qty Supported Member Header Truss

16d/3-1/2" | 16d/3-1/2"

USP 28

HUS410

		Products - Field Framed		
PlotID	Length	Product	Plies	Net Qty
BM1	19' 0"	1-3/4"x 18" LVL Kerto-S	2	2
BM2	5' 0"	1-3/4"x 14" LVL Kerto-S	2	2
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2
GDH	22' 0"	1-3/4"x 18" LVL Kerto-S	2	2

Truss Placement Plan
Scale: 1/4"=1'

ROOF & FLOOR TRUSSES & BEAMS

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

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 Codrequirements) to determine the minimum foundatio 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 attache Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature\_\_\_\_\_

Sales Area
Sales Area

LOAD CHART FOR JACK STUDS

ADDRESS 54 Alder Dr.

MODEL Floor

DATE REV. 9/15/2025

DRAWN BY Neil Baggett

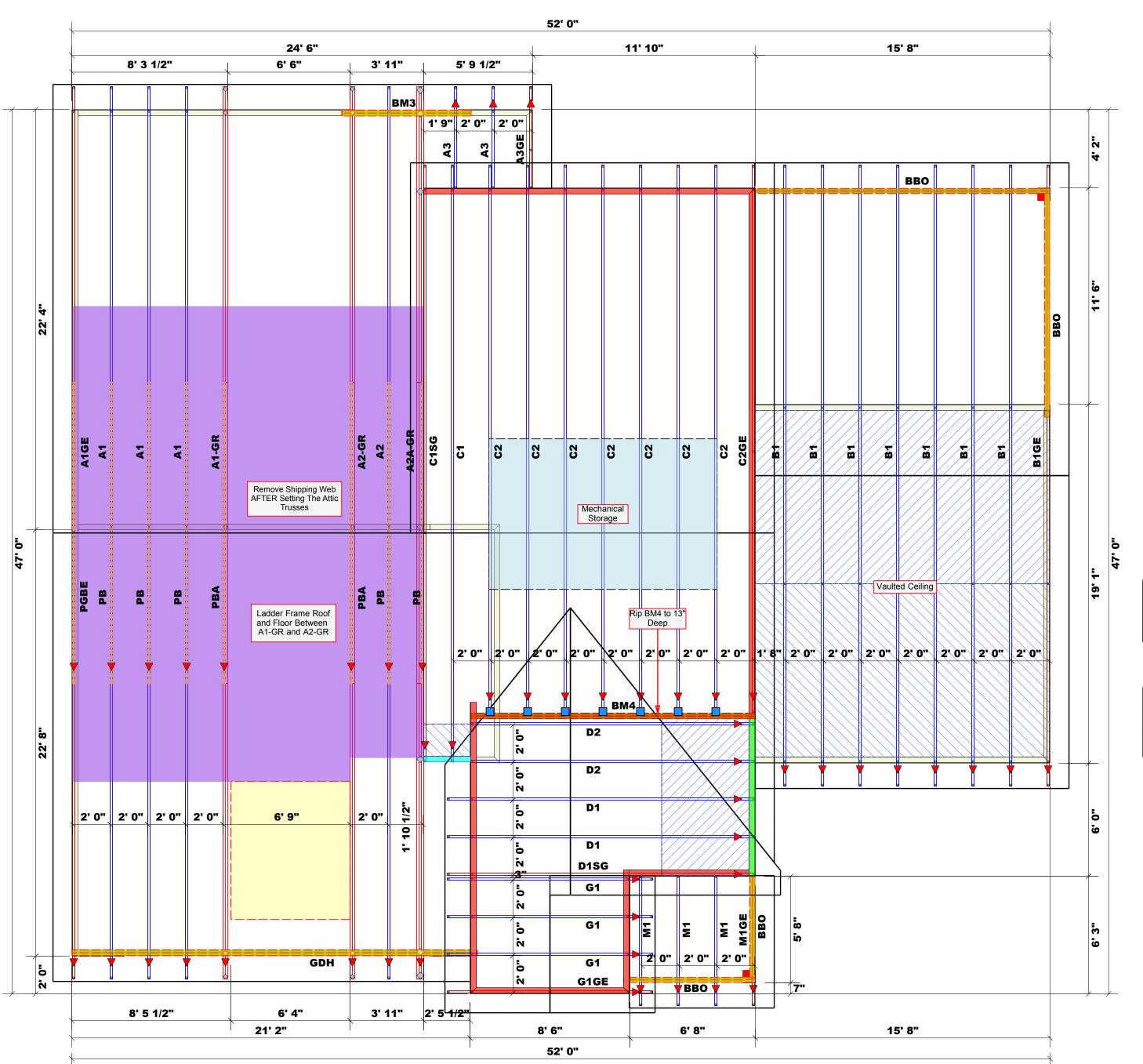
SALES REP. Neil Baggett

BUILDERPrecision Custom HomesJOB NAMELot 66 Magnolia HillsPLANAnconia w/2x6 WallsSEAL DATE9/11/2025

251265-B

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



Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

# All Walls Shown Are Considered Load Bearing

Roof Area = 2878.47 sq.ft.
Ridge Line = 77.6 ft.
Hip Line = 0 ft.
Horiz. OH = 131.95 ft.
Raked OH = 228.03 ft.
Decking = 99 sheets

Ha	atch Legend
	Box Storage
	6' 11-3/4" Walls
	14' 7-1/4" Walls
	2nd Floor Walls
	Vaulted Ceiling
	Drop Beam

		Conne	Nail Information					
,	Sym	Product	Manuf	Qty	Supported Member	Header	Truss	
		HUS26	USP	7	NA	16d/3-1/2"	16d/3-1/2"	

Products - Field Framed											
PlotID	Length	Product	Plies	Net Qty							
BM1	19' 0"	1-3/4"x 18" LVL Kerto-S	2	2							
BM2	5' 0"	1-3/4"x 14" LVL Kerto-S	2	2							
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2							
GDH	22' 0"	1-3/4"x 18" LVL Kerto-S	2	2							
		Products - Field Framed									
PlotID	Length	Product	Plies	Net Qty							
BM4	16' 0"	1-3/4"x 14" LVL Kerto-S	2	2							

Truss Placement Plan
Scale: 1/4"=1'

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

## ROOF & FLOOR TRUSSES & BEAMS

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

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Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

	(B	ASED O	N TABLES	5 R502.	5(1) & (l	o))	
NUI	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	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						
	1				1		

CTIA		<b>CLIY/CO</b> .   Cameron/Harnett
ADDRESS	55	54 Alder Dr.
WODEL		Roof
DATE REV.	REV.	9/15/2025
DRAWI	V BY	DRAWN BY Neil Baggett
SALES	REP.	SALES REP. Neil Baggett

BUILDERPrecision Custom HomesJOB NAMELot 66 Magnolia HillsPLANAnconia w/2x6 WallsSEAL DATE9/11/2025QUOTE #251265-AJOB #251265-A

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



#### Comtech

Reilly Road Industrial Park, PO Box 40408 Fayetteville, NC 28309 Phone: (910) 864-8787

**Reaction Summary** Job #: 251265-A

**Product: Roof** 

Sch Del On: 10/17/2025

ustomer Information		Job Information							
Precision Custom Homes an	d Renovations	Lot 66 Magnolia Hills							
ddress & Phone	Builder	Address	Lot	Sub-Division					
206 Shoreline Drive		Lot 66 Magnolia Hills	66	Magnolia Hills					
Raeford NC 28376	Contact	54 Alder Dr.	Sales Perso		Customer P.O. No.				
Phone: (910) 988-8172		Cameron NC	Neil Ba	aggett					
Filone. (910) 900-0172	Allen Peterson	Cameron NC	Estimator		Designer				
	(704) 451-4444		Nail Ra	aggett	Neil Bargett				

Delivery Notes:		Loa	ding	
Notes:	TCLL	TCDL	BCLL	BCDL
INOIGS.	20	10	0	10
	Spacing: 2-00-00 O.C.			

	Load	ding		D:	lalia a Ca	<b>.</b>	Wind Design Method							Exp Cat	Wind	Max
TCLL	TCDL	BCLL	BCDL	Bui	lding Co	ae		wind	Design	wethod			Velocity	Occ Cat	TCDL	BCDL
20	10	0	10	IRC2	021/TPI2	014	MWFRS (	(Envelope	e)/C-C hy	/brid Win	d ASCE 7	7-16	130 mph	C	6	6
Roof T	russe	:S														
					Qty	Span	TC Pitch	TC								
Label		Pr	ofile		Ply	Height	BC Pitch	ВС				Rea	actions			
<b>A</b> 1		/=			3	44-11-00	8 /12	2 x 8	Joint 16 2234	Joint 20 1817	Joint 24 2157					
	4	<u> </u>		<u> </u>	1-ply	11-08-10		2 x 10	0	0	0					
A1-GR		/=			1	44-11-00	8 /12	2 x 8	Joint 16 5742	Joint 20 3642	Joint 24 4452					
	4	<u> </u>		<u> </u>	2-ply	11-08-10		2 x 10	0	0	0					
A1GE		A		<b>N</b>	1	44-11-00	8 /12	2 x 8	Joint 26 2252	Joint 31 1780	Joint 37 2176					
	4	<u> </u>			1-ply	11-08-10		2 x 10	-89	0	-93					
A2		<b>/=</b>			1	44-11-00	8 /12	2 x 8	Joint 16 2179	Joint 20 1721	Joint 24 2174					
		<u> </u>			1-ply	11-08-10		2 x 10	0	0	0					
A2-GR		<b>/=</b>			1	44-11-00	8 /12	2 x 8	Joint 16 5786	Joint 20 3460	Joint 24 4525					
		<u> </u>			2-ply	11-08-10		2 x 10	0	0	0					
A2A-					1	44-11-00	8 /12	2 x 8	Joint 16 4364	Joint 20 5113	Joint 24 6289					
GR	4	<u> </u>		<u> </u>	3-ply	11-08-10		2 x 10	0	0	0					
А3					2	4-02-00	8 /12	2 x 6	Joint 4 241	Joint 5 167						
		4			1-ply	4-09-04		2 x 6	0	-81						
A3GE					1	4-02-00	8 /12	2 x 6	Joint 5 241	Joint 7 175						
		4			1-ply	4-09-04		2 x 6	0	-132						
В1					7	30-06-00	8 /12	2 x 6	Joint 2 801	Joint 14 1793	Joint 11 636					
			<u> 11</u>	<u> </u>	1-ply	11-04-00	5 /12	2 x 6	-94	-70	-374					
B1GE		1			1	30-06-00	8 /12	2 x 6				Contin	uous Support			
				<u> </u>	1-ply	11-04-00	5 /12	2 x 6					иоиз оирроге			
C1			<b>&gt;</b>		1	30-05-08	8 /12	2 x 6	Joint 1 1210	Joint 7 1278						
					1-ply	8-10-02		2 x 6	-48	-104						
C1SG					1	30-05-08	8 /12	2 x 6	Joint 1 1210	Joint 7 1278						
					1-ply	8-10-02		2 x 6	-208	-307						
C2					7	27-10-08	8 /12	2 x 6	Joint 1 1108	Joint 10 1180						
		<u></u>		<u> </u>	1-ply	7-09-14		2 x 6	-37	-104						
C2GE					1	27-10-08	8 /12	2 x 6				Contin	uous Support			
		ШЦ	Ш		1-ply	7-09-14		2 x 6					cappoil			
D1		/			2	15-01-00	10 /12	2 x 10	Joint 1 610	Joint 4 674						
					1-ply	8-11-00		2 x 6	-6	-46						
D1SG		/			1	15-01-00	10 /12	2 x 10	Joint 1 610	Joint 4 674						
					1-ply	8-11-00		2 x 6	-83	-145						
D2					2	15-01-00	10 /12	2 x 10	Joint 1 613	Joint 4 596						
					1-ply	8-11-00		2 x 6	-3	-47						



25126	55-A			S	Page: 2 of 2				
Roof Tr	usses								
		Qty	Span	TC Pitch	TC				
Label	Profile	Ply	Height	BC Pitch	ВС			Reactions	
G1		3	8-05-00	10 /12	2 x 4	Joint 2	Joint 4		
"		1-ply	4-11-02		2 x 6	409 -34	409 -34		
G1GE		1	8-05-00	10 /12	2 x 4				
GIGE		1-ply	4-11-02		2 x 6			Continuous Support	
M1		3	5-08-00	3 /12	2 x 4	Joint 2	Joint 4		
""		1-ply	2-00-00		2 x 6	306 -132	202 -82		
M1GE		1	5-08-00	3 /12	2 x 4	Joint 2	Joint 8		
WIGE		1-ply	2-00-00		2 x 6	306 -189	202 -120		
РВ		5	16-00-00	8 /12	2 x 4				
''		1-ply	5-04-00		2 x 4			Continuous Support	
РВА		2	16-00-00	8 /12	2 x 6				
FBA		1-ply	5-04-00		2 x 4			Continuous Support	
PGBE		1	16-00-00	8 /12	2 x 4				
FGBE		1-ply	5-04-00		2 x 4			Continuous Support	





#### Comtech

Reilly Road Industrial Park, PO Box 40408 Fayetteville, NC 28309 Phone: (910) 864-8787

### **Reaction Summary**

Job #: **251265-B** 

**Product: Floor** 

Sch Del On: 10/17/2025

	ustomer Information  Precision Custom Homes and Renovations									Job Information Lot 66 Magnolia Hills								
		Cust	om H	omes			S				agnolia							
Address &		e Drive			Builde	er			Addr	ress ot 66 Magr	aolio Hillo	Lot	Sub-Division Magno	<sub>on</sub> olia Hills				
	rd NC		;		Conta					1 Alder Dr.		Sales	Person		Custome	r P.O. No.		
		20370 ) 988-8	172			en Peterson				ameron N			il Baggett					
1 11011	3. (3.10)	, 500 0	112			4) 451-4444			$\Pi$	Estimator Neil Baggett					Designer	Baggett		
					(10	4) 43 1-4444			╝┖			ive	праучен		IVEIL	bayyell		
Deliver	v Note	g.													Loa	ading		
	y Hoto	J												TCLL	TCDL	BCLL	BCDL	
Notes:														0	0	0	0	
														Specip	g: 0-00 (	0.0	1	
	1			ı									1				14	
7011	Loa:	BCLL	BCDL	Buil	ding Co	de		Wind	Desig	n Method			Velocity	Occ (		Wind		
TCLL				IDOO	004/TD10		1.04/55	0 / 5 1	\/O_O_I	1 . 1 . 4 . 6	14005.7	10	400		Jal	1	BCDL	
40 10 0 5 IRC2021/TPI2014 MWFRS (Envelop								e)/C-C r	nybrid Win	d ASCE 7	-16	130 mph	C		6	6		
Floor	Trusse	es																
	Qty Span TC																	
Labe	I	Pro	ofile		Ply	Height	ВС					Reactio	ns					
F1					6	17-07-00	2 x 4	Joint 13	Joint 19	Joint 22								
"			<u> </u>		1-ply	1-02-00	2 x 4	628 0	1033 0	284 0								
-44					1	17-07-00	2 x 4	Joint 17	Joint 27	Joint 26	Joint 28	Joint 24	Joint 22 Joi	nt 21	Joint 20	Joint 19	Joint 18	
F1A				TY	1-ply	1-02-00	2 x 4	45	5	123	2701	139	151	146	147	147	148	
ļ					1 7			Joint 28	-249 Joint 28	-218 Joint 32	0	0	0	0	0	0	0	
								2701	2701	3004								
								0	0	0								
F2		<del></del>		<del>~ ~</del>	3	17-03-08	2 x 4	Joint 14 937	Joint 22 937									
			<u> </u>		1-ply	1-02-00	2 x 4	0	937									
F3					6	17-03-08	2 x 4	Joint 13	Joint 20	Joint 23								
「3					1-ply	1-02-00	2 x 4	686 0	1100 0	180 -63								
					1	17-03-08	2 x 4	Joint 14	Joint 21	Joint 24								
F4	25		Z\Z\		1-ply	1-02-00	2 x 4	700	1748	2508								
					ر.م.		_ ~ .	0	0	0								



#### North Carolina 2018 - R402.1.5 Total UA

Property

32 Brewster Ct Cameron, NC 28326 Model: Anconia

Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 33 - CZ 4 slab -Liberty Meadows Lot 33 Organization

Southern Energy Manager

Justin Smith

Builder

**SMG Precision Properties** 



This report is based on a proposed design and does not confirm field enforcement of design elements.

Inspection Status

Results are projected

#### Building UA

Elements	NC Reference	As Designed
Ceilings	52.2	49.6
Above-Grade Walls	219.5	163.0
Windows, Doors and Skylights	122.3	110.4
Slab Floor:	95.1	123.3
Framed Floors	15.8	17.2
Foundation Walls	0.0	0.0
Rim Joists	7.4	6.0
Overall UA (Design must be equal or lower):	512.3	469.5

#### Requirements

_			
	R402.1.5	Total UA alternative compliance passes by 8.4%.	The proposed home meets the UA requirement by 8.4%
$\bigcirc$	402.3.2	Average SHGC: 0.28 Max SHGC: 0.30	Average SHGC of 0.28 is greater than the maximum of 0.30.
	R402.4.2.2	Air Leakage Testing	Air sealing is 0.27 CFM50 / ft² Shell Area. It must not exceed 0.30 CFM50 / ft² Shell Area.
	R402.5	Area-weighted average fenestration SHGC	Area-weighted average fenestration SHGC is 0.28. The maximum allowed value is [No Limit].
	R402.5	Area-weighted average fenestration U-Factor	
	R404.1	Lighting Equipment	At least 75.0% of fixtures shall be high-efficacy lamps, currently 100.0% are high- efficacy.
	Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.	2015 IECC Mandatory Checklist must be checked as complete.
	R403.3.1	Duct Insulation	Duct insulation meets the requirements specified in North Carolina 2018 Code Section 403.3.1.
	403.3.3	Duct Testing	

#### Design exceeds requirements for North Carolina 2018 Prescriptive compliance by 8.4%.

Name:	Justin Smith	Signature:	Justin Smith
Organization:	Southern Energy Management	Digitally signed:	2/1/23 at 10:15 AM

Property
32 Brewster Ct
Cameron, NC 28326
Model: Anconia Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 33

- CZ 4 slab - ecoSelect Liberty Meadows Lot 33 Organization

Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



General Building Information	n
Number Of Bedrooms	4
Number Of Floors	2
Conditioned Floor Area [sq. ft.]	2,477
Has Electric Vehicle Ready Space	No
Unconditioned, attached garage?	Yes
Conditioned Volume [cu. ft.]	22,622
Total Units in Building	1
Residence Type	Single family detached
Number of Floors in Building	-
Floor Number	-
Model	Anconia
Community	Liberty Meadows
RESNET/IECC 2006-2018 Climate Zone	4A
IECC 2021 Climate Zone	3A

#### **Foundation Wall**

None Present

#### **Foundation Wall Library List**

None Present

	Slab								
ĺ	Name	Library Type	e Perimeter	r Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
	slab	Uninsulated	200	On Grade	1	0	1,403.0 ft²	Exposed Exterior	Conditioned Space

	Slab Library	List						
ı	Name	Wall Construction Type	Slab Completely Insulated?			Perimeter Insulation R Value	Thermal Break	Effective R-value
	Uninsulated	Wood Frame / Other	No	0	0	0	No	0.00

Property
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Cameron, NC 28326
Model: Anconia

Community: Liberty Meadows

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**Organization**Southern Energy Management
Justin Smith

Builder SMG Precision Properties Inspection Status Results are projected



Framed Floor	r				
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location
over garage	R 19, 16"OC G1 Carpet	0	Above Grade	337.0 ft²	Unconditioned, attached garage

Framed Floor	Library List	
	Name	Effective R-value
R 19, 16"OC G	1 Carpet	19.566

Rim Joist			
Name	Library Type	Surface Area	Location
1st floor ambient	R 19 G1, 16"OC	87.0 ft²	Exposed Exterior
1st floor garage	R 19 G1, 16"OC	47.0 ft²	Unconditioned, attached garage

Rim Joist Library I	ist
Name	Effective Insulation R-value
5 40 04 40000	
R 19 G1, 16"OC	17.30

Wall				
Name	Library Type	Surface Color	Surface Area	Location
1st floor ambient	R 19 Adv. Framing G1 16" O.C	Medium	1,381.0 ft²	Exposed Exterior
1st floor garage	R 19 Adv. Framing G1 16" O.C	Medium	419.0 ft²	Unconditioned, attached garage
2nd floor ambient	R 19 Adv. Framing G1 16" O.C	Medium	694.0 ft²	Exposed Exterio
2nd floor attic	R 19 Adv. Framing G1 16" O.C	Medium	706.0 ft²	Atti

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SMG Precision Properties



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MANAGEMENT

Wall Library List		
Na	me Effective R-val	lue
R 19 Adv. Framing G1 16" C	O.C 17.4	492

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
front 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	Southeast	42.2 ft²
front unshaded	33/28	1st floor ambient		Yes	0	0	0	Southeast	27.0 ft²
left shaded	33/28	1st floor ambient		Yes	15	1	6	Southwest	27.0 ft²
left unshaded	33/28	1st floor ambient		Yes	0	0	0	Southwest	27.0 ft²
rear 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	Northwest	27.0 ft²
rear shaded	33/28	1st floor ambient		Yes	12	2	9	Northwest	40.2 ft²
rear unshaded	33/28	1st floor ambient		Yes	0	0	0	Northwest	60.0 ft²
right 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	Northeast	54.0 ft²
right unshaded	33/28	1st floor ambient		Yes	0	0	0	Northeast	7.0 ft²

Glazing Library List			
Name	Shgc	U-factor	
33/28	0.28	0.330	

Skylight	
	None Present

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SMG Precision Properties

Inspection Status Results are projected



#### **Skylight Library List**

None Present

Opaque Door								
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location
front entry	Fiberglass R-5	1st floor ambient		0.9	0.75	Medium	20.0 ft²	Exposed Exterior
garage entry	Fiberglass R-5	1st floor garage		0.9	0.75	Medium	18.0 ft²	Unconditioned, attached garage

#### Opaque Door Library List

Name Effective U-factor

Fiberglass R-5

0.200

Roof Insulation									
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Surface Colo	r Surface Area	a Location			
attic	R 38 Attic BLOWN FG G1 2x10 24"OC NO	2,557.8	No	Dark	1,740.0 ft²	Attic			

Roof Insulation Library List							
Name	Has Radiant Barrier	Effective R-value					
R 38 Attic BLOWN FG G1 2x10 24"OC NO	No	35.115					

Whole House Infile	ration		
Infiltration	Measurement Type	Shelter Class	
1809 CFM at 50 Pa	Blower-door tested	4	

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Mechanical Ventilation	
	None Present

Inspection Status

Results are projected

	Lighting					
ı	% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
ı	10	90	0	0	0	0

1	Lighting		Lighting		Lighting			
	10	90	0	0	0	0		
	Onsite Generation							

#### **Onsite Generation Library List** None Present

None Present

Solar Generation	
N	one Present

Dehumidifier			
	None Present		

Dehumidifier Library List	
	None Present

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Inspection Status Results are projected



#### Whole House Fan

None Present

#### Whole House Fan Library List

None Present

Conditioning Equipment						
Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
1st floor heat pump	z 24k 14 SEER 8.2hspf		57%	57%	0%	Attic
2nd floor heat pump	z 30k 14 SEER 8.2hspf		43%	43%	0%	Attic
Water Heating	z 50 gal. 0.95 EF Elec		0%	0%	100%	Unconditioned Garage

Equipment Type: z 24k 14 SEER 8.2hspf		
Equipment Type	Air Source Heat Pump	
Fuel Type	Electric	
Distribution Type	Forced Air	
Motor Type	PSC (Single Speed)	
Heating Efficiency	8.2 HSPF	
Heating Capacity [kBtu/h]	24	
Backup Fuel Type	Electric	
Switchover Temperature [°F]	0	
Backup Heating Efficiency	1 COP	
Use default Supplemental Heat	Yes	
Cooling Efficiency	14 SEER	
Cooling Capacity [kBtu/h]	24	

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SMG Precision Properties

Inspection Status SOUTHERN ENERGY M A N A G E M E N T ENERGY EFFICIENCY & SOLAR POWER Results are projected

Equipment Type: z 30k 14 SEER 8.2hspf		
Equipment Type	Air Source Heat Pump	
Fuel Type	Electric	
Distribution Type	Forced Air	
Motor Type	PSC (Single Speed)	
Heating Efficiency	8.2 HSPF	
Heating Capacity [kBtu/h]	30	
Backup Fuel Type	Electric	
Switchover Temperature [°F]	0	
Backup Heating Efficiency	1 COP	
Use default Supplemental Heat	Yes	
Cooling Efficiency	14 SEER	
Cooling Capacity [kBtu/h]	30	

Equipment Type: z 50 gal. 0.95 EF Elec		
Equipment Type	Residential Water Heater	
Fuel Type	Electric	
Distribution Type	Hydronic Delivery (Radiant)	
Hot Water Efficiency	0.95 Energy Factor	
Tank Capacity (gal.)	50	
Hot Water Capacity [kBtu/h]	40	
Recovery Efficiency	0.98	

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SMG Precision Properties

Inspection Status Results are projected



Distribution System	
Distribution Type	Forced Air
Heating Equipment	1st floor heat pump
Cooling Equipment	1st floor heat pump
Sq. Feet Served	1,403
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	378.81
Return Duct Area [ft²]	140.3
Leakage to Outdoors	56 CFM @ 25Pa (3.99 / 100 ft²)
Total Leakage	56 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Attic (well vented)
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	0 177 10
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	Conditioned Conse
Duct Location	Conditioned Space
Percent Supply Area Percent Return Area	0
Percent Return Area	0

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Results are projected

Builder

SMG Precision Properties



Distribution Type	Forced Air
Heating Equipment	2nd floor heat pump
Cooling Equipment	2nd floor heat pump
Sq. Feet Served	1,074
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	289.98
Return Duct Area [ft²]	107.4
Leakage to Outdoors	42 CFM @ 25Pa (3.91 / 100 ft²)
Total Leakage	42 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Attic (well vented)
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0

#### **HVAC Grading**

HVAC Grading Not Conducted

Ceiling Fan		
Has Ceiling Fan	No	
Cfm Per Watt	100	

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Water Distribution	
Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	100
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Recirculation System Pipe Loop Length [ft]	20
Drain Water Heat Recovery?	No

Clothes Dryer	
Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Clothes Dryer Available	Yes
Defaults Type	HERS Reference

Clothes Washer		
Label Energy Rating	153 kWh/Year	
Annual Gas Cost	\$12.00	
Electric Rate	\$0.11/kWh	
Gas Rate	\$1.22/Therm	
Capacity	3.31	
Imef	2.1547	
Defaults Type	Custom	
Load Type	Front-load	
Loads Per Week	6	
Is Outside Conditioned Space	No	
Clothes Washer Available	Yes	

Dishwasher	
Dishwasher Efficiency	270 kWh
Dishwasher Size	Standard
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No

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SMG Precision Properties



Appliances and Controls	
Thermostat Cooling Setpoint	* * * * 75.0
Thermostat Heating Setpoint	* * * * 70.0
Range/Oven Fuel	Electric
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	538 kWh/Year
Refrigerator Outside Conditioned Space?	No

#### Notes

Initial Inputs \_\_\_\_\_JS 02/01/22\_\_\_\_\_

- -confirm HVAC specs
- -confirm water heater specs
- -confirm ventilation entry
- -modeled to worst case orientation
- -confirm cfl lighting %