

PLAN:
Rothbard



FRONT ELEVATION

Scale: 1/4" = 1'0"

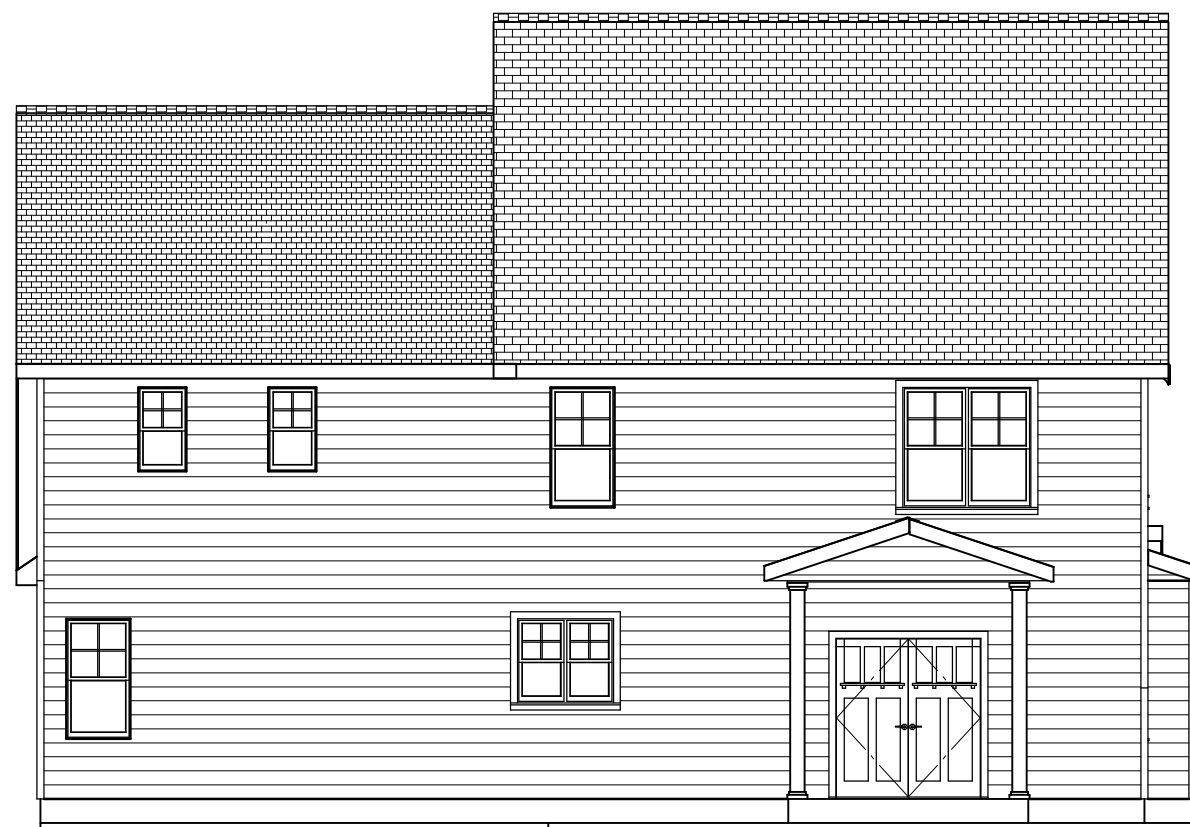
9'0" CEILING HEIGHT FIRST FLOOR
(HEADER HEIGHT 7'6")
8'0" CEILING HEIGHT SECOND FLOOR
(HEADER HEIGHT 7')

FRAME WINDOWS TO HEADER HEIGHT



LEFT ELEVATION

Scale: 1/8" = 1'0"



REAR ELEVATION

Scale: 1/8" = 1'0"



RIGHT ELEVATION

Scale: 1/8" = 1'0"



No slab insulation required

SHEET TITLE:

ELEVATIONS

PROJECT ADDRESS:
18 Edes Ct. Cameron, NC
Liberty Meadows Lot 12

DESIGNED BY:
Precision Custom Homes
Raeford, NC
Shaun@PrecisionCustomHomesNC.com

DATE:

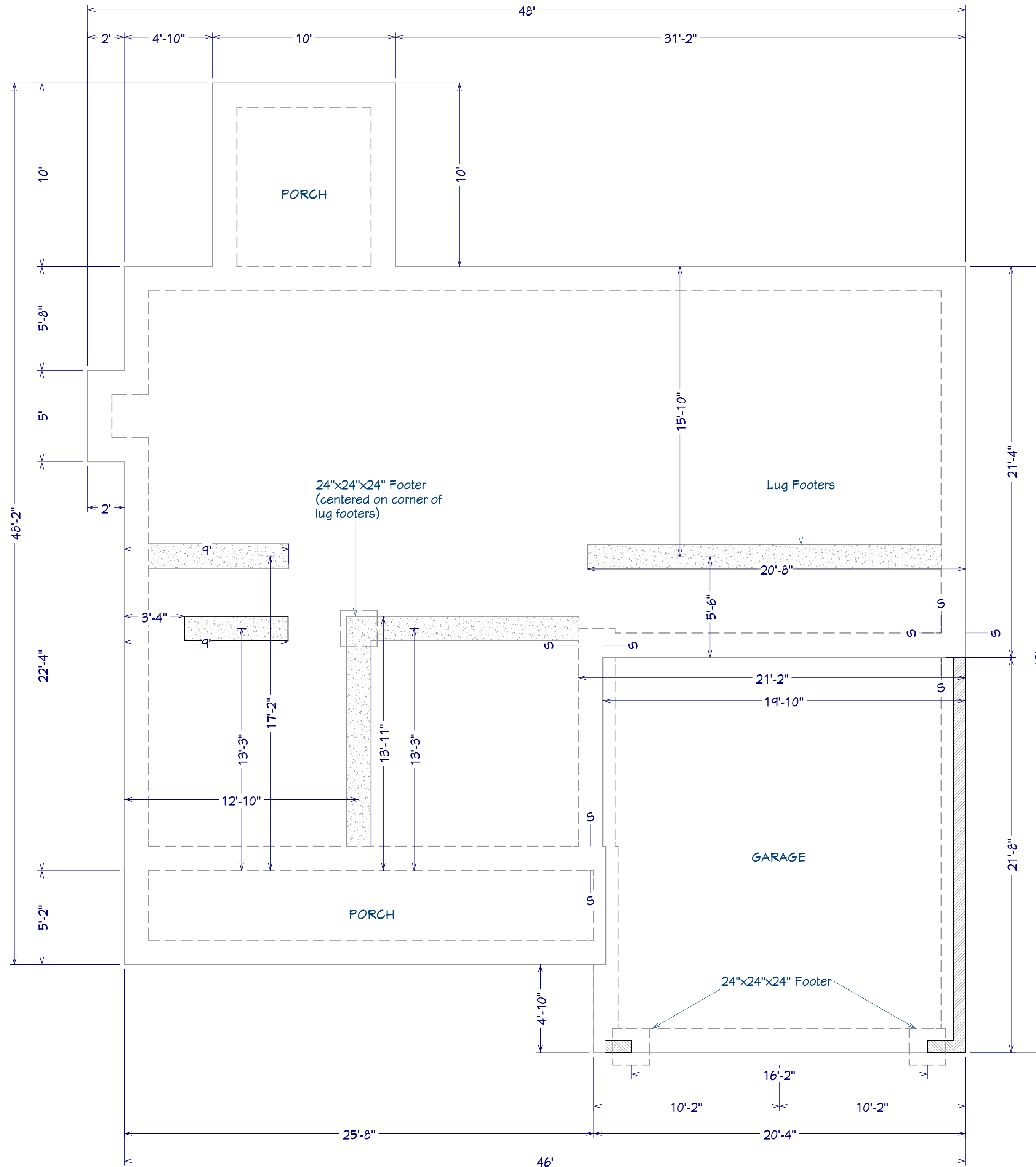
9/7/22

SCALE:

1/4" = 1'

SHEET:

A-1



FOUNDATION PLAN
Scale: 1/4" = 1'0"

AREA SCHEDULE NAME	AREA
1st FLOOR AREA	1,290 SF
2nd FLOOR AREA	1,165 SF
GARAGE	438 SF
FRONT PORCH	127 SF
COVERED REAR POCH	120 SF
TOTAL HEATED	2,455 SF
TOTAL UNDER ROOF	3,140 SF

PLAN:
Rothbard

SHEET TITLE:
FOUNDATION

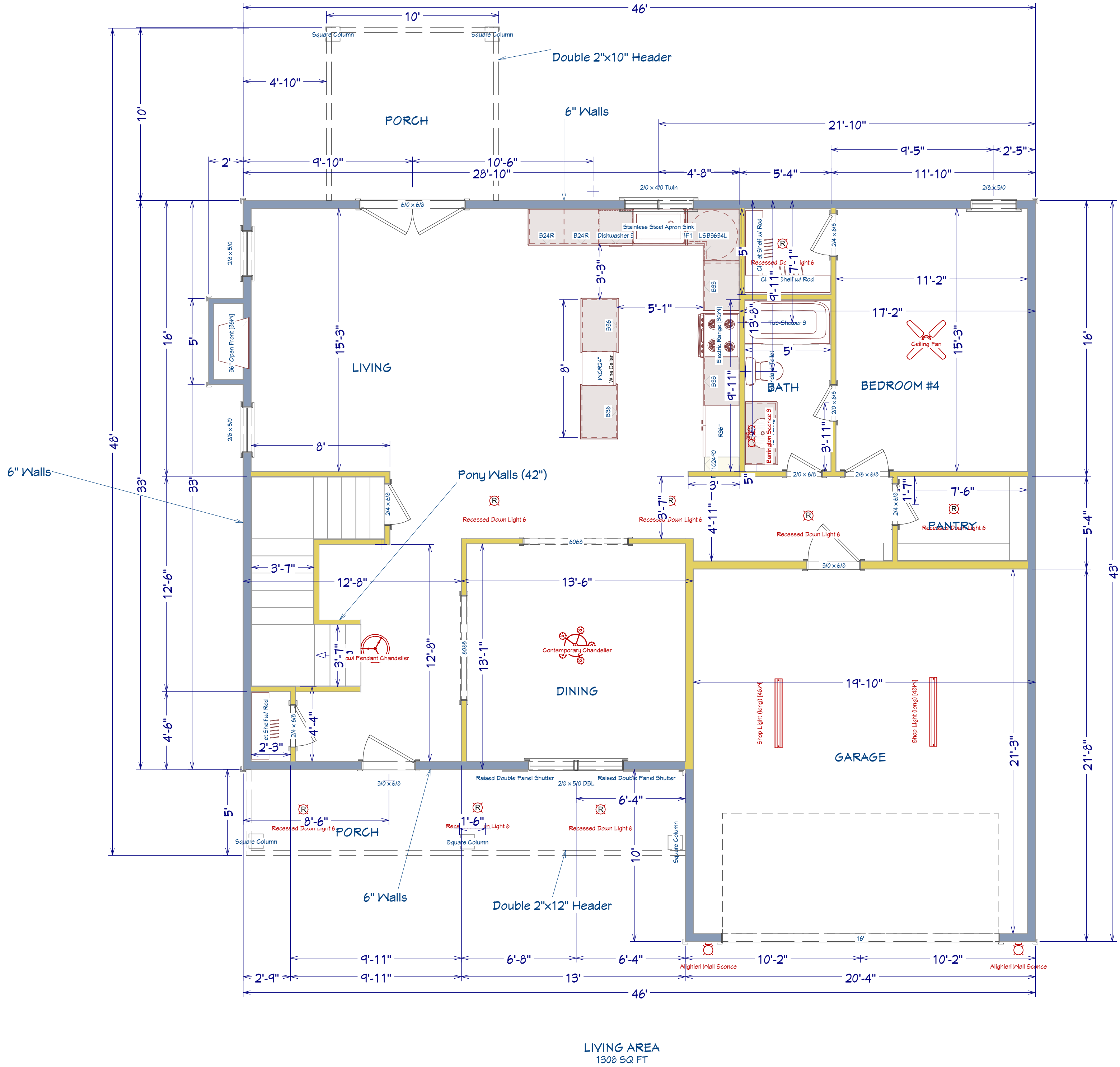
PROJECT ADDRESS:
18 Edes Ct. Cameron, NC
Liberty Meadows Lot 12

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Precision Custom Homes
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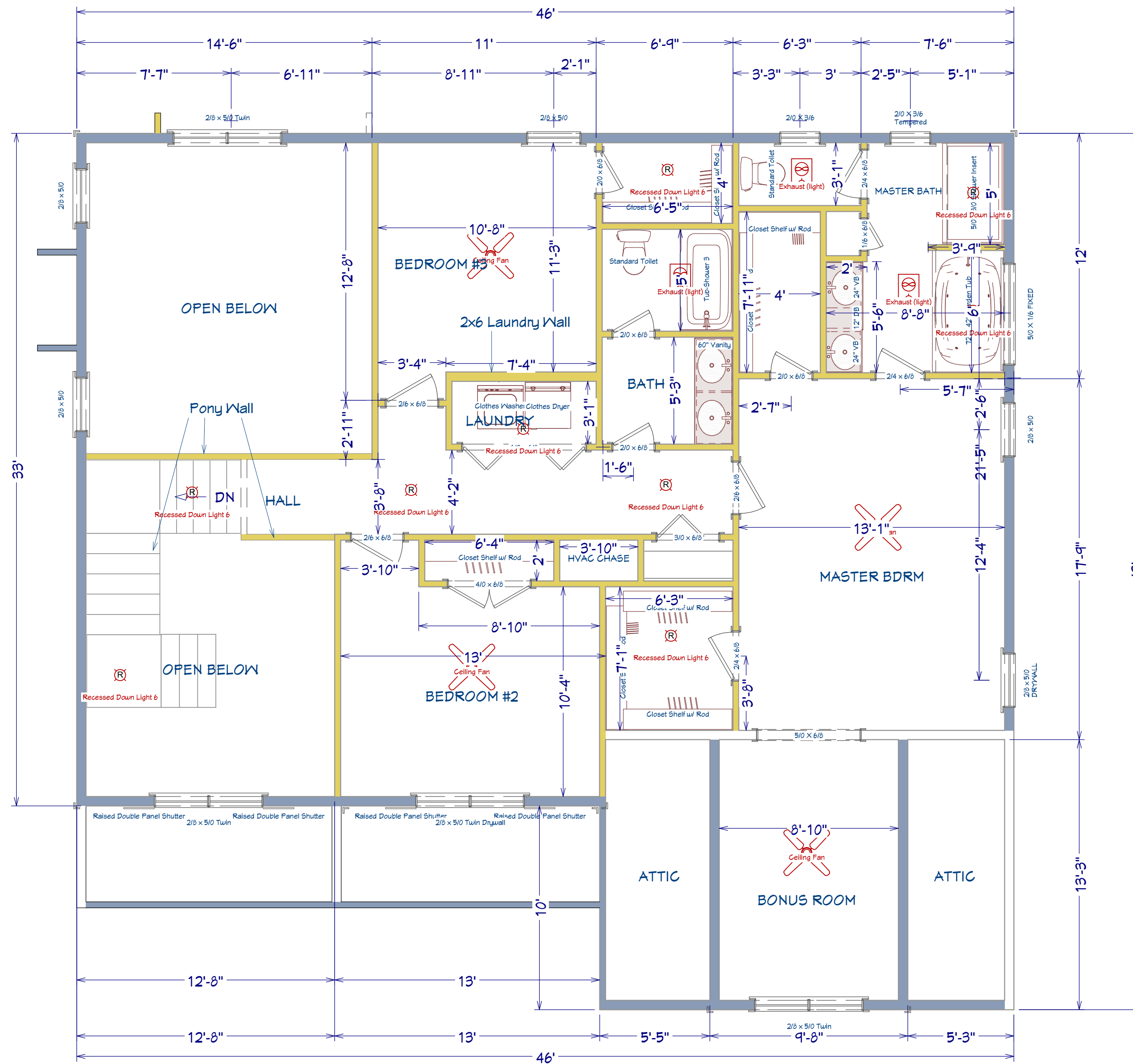
SCALE:
1/4" = 1'

SHEET:
A-2



AREA SCHEDULE	
NAME	AREA
1st FLOOR AREA	1,290 SF
2nd FLOOR AREA	1,165 SF
GARAGE	438 SF
FRONT PORCH	127 SF
COVERED REAR POCH	120 SF
TOTAL HEATED	2,455 SF
TOTAL UNDER ROOF	3,140 SF

LIVING AREA
1308 SQ FT



LIVING AREA
1165 SQ FT

AREA SCHEDULE	
NAME	AREA
1st FLOOR AREA	1,240 SF
2nd FLOOR AREA	1,165 SF
GARAGE	438 SF
FRONT PORCH	127 SF
COVERED REAR POCH	120 SF
TOTAL HEATED	2,455 SF
TOTAL UNDER ROOF	3,140 SF

SHEET TITLE:

2nd FLOOR

PROJECT ADDRESS:
18 Edes Ct. Cameron, NC
Liberty Meadows Lot 12

DESIGNED BY:
Precision Custom Homes
RaeFord, NC
Shaun@PrecisionCustomHomesNC.com

DATE:

9/7/22

SCALE:

1/4" = 1'

SHEET:

A-5



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 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 _____
Neil Baggett

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 (1) X HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) X HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) X 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				

Dimension Notes

- All exterior wall to wall dimensions are to face of stud unless noted otherwise
- All interior wall dimensions are to face of stud unless noted otherwise
- All exterior wall to truss dimensions are to face of stud unless noted otherwise

Roof Area = 2630.09 sq.ft.
Ridge Line = 59.33 ft.
Hip Line = 0 ft.
Horiz. OH = 182 ft.
Raked OH = 315.12 ft.
Decking = 90 sheets

All Walls Shown Are Considered Load Bearing

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

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

Plumbing Drop Notes

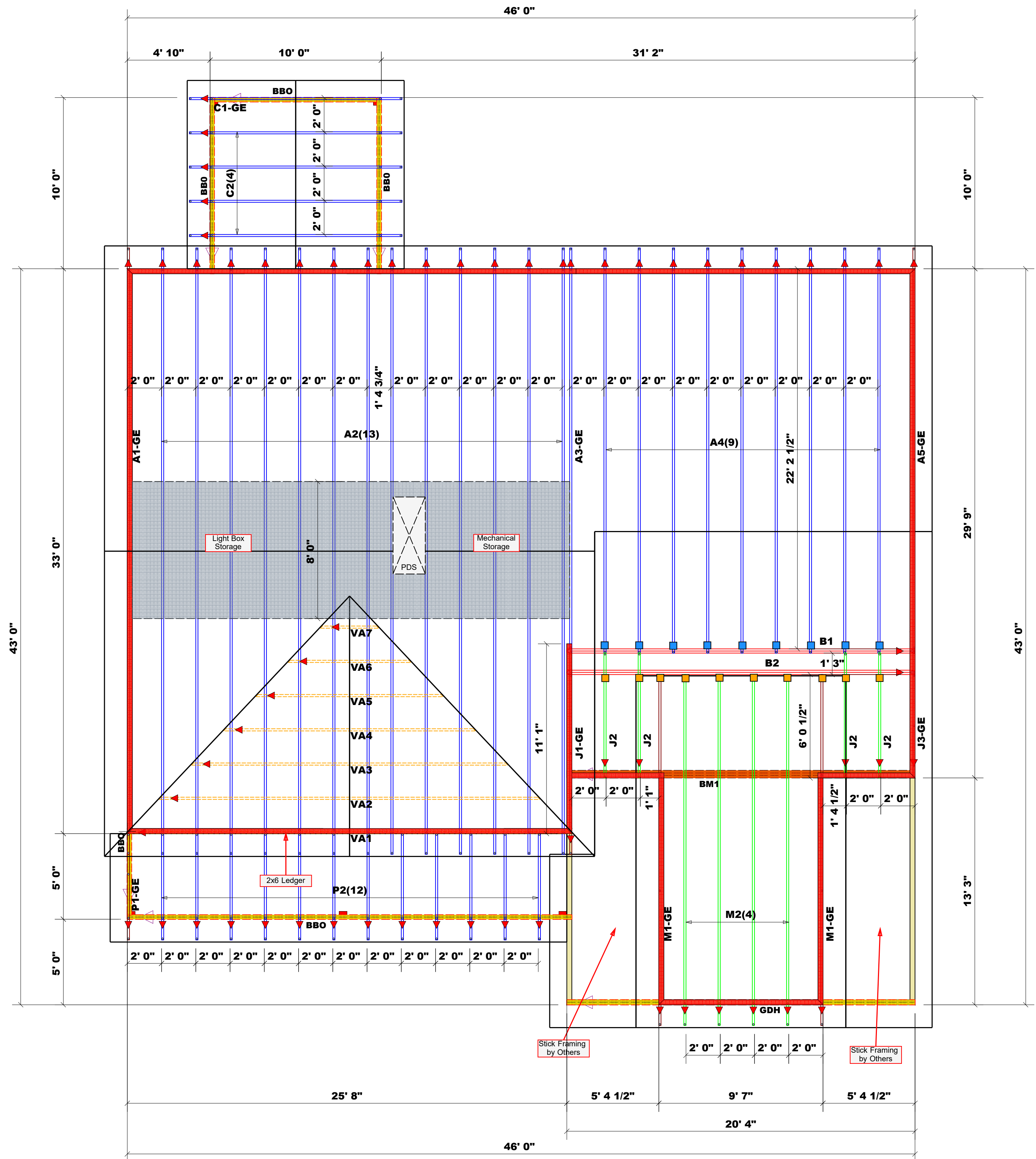
- Plumbing drop locations shown are NOT exact.
- Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
- Adjust spacing as needed not to exceed 24"oc.

Connector Information				Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header / Truss
●	MSH422	USP	9	Varies	10d/3" / 10d/3"
■	JUS26	USP	10	Varies	10d/3" / 10d/3"
■	HUS26	USP	9	Varies	16d/3-1/2" / 16d/3-1/2"

PlotID	Length	Product	Plies	Net Qty	Fab Type
BM2	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
BM4	6' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
BM1	21' 0"	1-3/4"x 14" LVL Kerto-S	3	3	FF
GDH	21' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF

Hatch Legend

- Mechanical & Light Storage
- 2nd Floor Walls @ 8' 1 1/2" UNO
- Flush Beam
- Drop Beam



BUILDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #
Precision Custom Homes & Renovations	Lot 12 Liberty Meadows	Rothbard 1.0 w/CP	9/5/2022	N/A	J0322-1312
HARNETT COUNTY	18 Eades Ct. Cameron, NC	Roof	9/6/2022	Neil Baggett	Neil Baggett

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 @ sbciindustry.com



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END REACTION (UP TO)	REQ'D STUDS FOR (1)PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (2)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				
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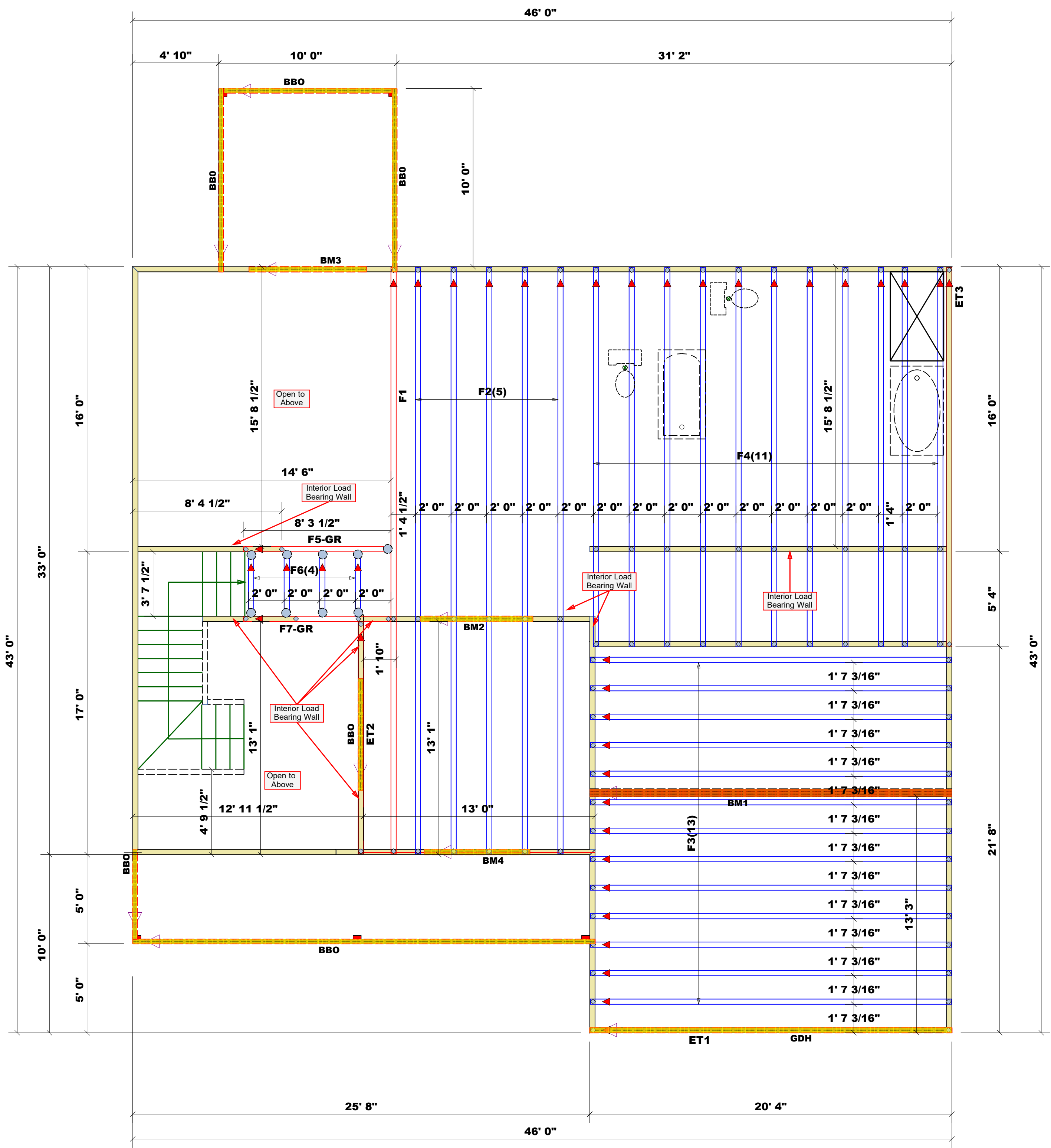
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BM4	6' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
BM1	21' 0"	1-3/4"x 14" LVL Kerto-S	3	3	FF
GDH	21' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF

Hatch Legend

- Mechanical & Light Storage
- 2nd Floor Walls @ 8' 1 1/2" UNO
- Flush Beam
- Drop Beam



BUILDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #
Precision Custom Homes & Renovations	Lot 12 Liberty Meadows	Rothbard 1.0 w/CP	9/5/2022	N/A	J0322-1313
COUNTY	ADDRESS	MODEL	DATE REV.	DRAWN BY	SALESMAN
Harnett	18 Eades Ct. Cameron, NC	Floor	9/6/2022	Neil Baggett	Neil Baggett

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North Carolina 2018 - R402.1.5 Total UA



Property

168 Edes Ct.
Cameron, NC 28326
Model: Rothbard
Community: Liberty Meadows

Organization

Southern Energy Manager
Justin Smith

Inspection Status

Results are projected

Builder

SMG Precision Properties

Template - SMG Precision - Liberty
Meadows Lot 20 - CZ 4 slab -
Liberty Meadows Lot 20

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

Building UA

Elements	NC Reference	As Designed
Ceilings	47.3	44.9
Above-Grade Walls	195.7	145.3
Windows, Doors and Skylights	126.2	113.8
Slab Floor:	76.4	99.6
Framed Floors	13.5	14.7
Foundation Walls	0.0	0.0
Rim Joists	8.8	7.1
Overall UA (Design must be equal or lower):	467.9	425.4

Requirements

✓	402.1.5	Total UA alternative compliance passes by 9.1%.
✓	402.3.2	Average SHGC: 0.28 Max SHGC: 0.30
✓	R402.4.2.2	Air Leakage Testing Air sealing is 4.80 ACH at 50 Pa. It must not exceed 5.00 ACH at 50 Pa.
✓	R402.5	Area-weighted average fenestration SHGC
✓	R402.5	Area-weighted average fenestration U-Factor
✓	R404.1	Lighting Equipment Efficiency
✓	Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.
✓	R403.3.1	Duct Insulation
✓	403.3.3	Duct Testing

Design exceeds requirements for North Carolina 2018 Prescriptive compliance by 9.1%.

Name: Justin Smith

Signature: Justin Smith

Organization: Southern Energy Management

Digitally signed: 9/2/22 at 12:56 PM

Ekotrope RATER - Version 4.0.1.2982

North Carolina 2018 Prescriptive compliance results calculated using Ekotrope RATER's energy and code compliance algorithm, including appropriate amendments. Ekotrope RATER is a RESNET Accredited HERS Rating Tool. All results are based on data entered by Ekotrope users. Ekotrope disclaims all liability for the information shown on this report.

Building Summary



Property
 168 Edes Ct.
 Cameron, NC 28326
 Model: Rothbard
 Community: Liberty Meadows

Organization
 Southern Energy Management
 Justin Smith

Inspection Status
 Results are projected

Builder
 SMG Precision Properties

Template - SMG Precision - Liberty Meadows Lot 20
 - CZ 4 slab - ecoSelect
 Liberty Meadows Lot 20

General Building Information

Number Of Bedrooms	4
Number Of Floors	2
Conditioned Floor Area [sq. ft.]	2,455
Has Electric Vehicle Ready Space	No
Unconditioned, attached garage?	Yes
Conditioned Volume [cu. ft.]	25,604
Total Units in Building	1
Residence Type	Single family detached
Number of Floors in Building	-
Floor Number	-
Model	Rothbard
Community	Liberty Meadows
RESNET/IECC 2006 Climate Zone	4A
IECC 2021 Climate Zone	3A

Foundation Wall

None Present

Foundation Wall Library List

None Present

Slab

Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
slab	Uninsulated	158	On Grade	1	0	1,290.0 ft²	Exposed Exterior	Conditioned Space

Slab Library List

Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Thermal Break	Effective R-value
Uninsulated	Wood Frame / Other	No	0	0	0	No	0.00

Building Summary



Property
 168 Edes Ct.
 Cameron, NC 28326
 Model: Rothbard
 Community: Liberty Meadows

Organization
 Southern Energy Management
 Justin Smith

Inspection Status
 Results are projected

SOUTHERN ENERGY MANAGEMENT
 ENERGY EFFICIENCY & SOLAR POWER

Template - SMG Precision - Liberty Meadows Lot 20
 - CZ 4 slab - ecoSelect
 Liberty Meadows Lot 20

Builder
 SMG Precision Properties

Framed Floor

Name	Library Type	Carpet R	Floor Grade	Surface Area	Location
over garage	R 19, 16"OC G1 Carpet	0	Above Grade	287.0 ft²	Unconditioned, attached garage

Framed Floor Library List

Name	Effective R-value
R 19, 16"OC G1 Carpet	19.566

Rim Joist

Name	Library Type	Surface Area	Location
1st floor ambient	R 19 G1, 16"OC	126.0 ft²	Exposed Exterior
1st floor garage	R 19 G1, 16"OC	32.0 ft²	Unconditioned, attached garage

Rim Joist Library List

Name	Effective Insulation R-value
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	1,135.0 ft²	Exposed Exterior
1st floor garage	R 19 Adv. Framing G1 16" O.C	Medium	287.0 ft²	Unconditioned, attached garage
2nd floor ambient	R 19 Adv. Framing G1 16" O.C	Medium	1,158.0 ft²	Exposed Exterior
2nd floor attic	R 19 Adv. Framing G1 16" O.C	Medium	322.0 ft²	Attic

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SOUTHERN ENERGY MANAGEMENT
 ENERGY EFFICIENCY & SOLAR POWER

Template - SMG Precision - Liberty Meadows Lot 20
 - CZ 4 slab - ecoSelect
 Liberty Meadows Lot 20

Builder
 SMG Precision Properties

Wall Library List

Name	Effective R-value
R 19 Adv. Framing G1 16" O.C	17.492

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	West	81.0 ft ²
front shaded	33/28	1st floor ambient		Yes	5	1	6	West	27.0 ft ²
left 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	North	27.0 ft ²
left unshaded	33/28	1st floor ambient		Yes	0	0	0	North	27.0 ft ²
rear 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	East	54.5 ft ²
rear shaded	33/28	1st floor ambient		Yes	10	2	9	East	40.2 ft ²
rear unshaded	33/28	1st floor ambient		Yes	0	0	0	East	29.5 ft ²
right 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	South	34.5 ft ²

Glazing Library List

Name	Shgc	U-factor
33/28	0.28	0.330

Skylight

None Present

Skylight Library List

None Present

Building Summary



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 Cameron, NC 28326
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Builder
 SMG Precision Properties

Template - SMG Precision - Liberty Meadows Lot 20
 - CZ 4 slab - ecoSelect
 Liberty Meadows Lot 20

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	20.0 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 Color	Surface Area	Location
attic	R 38 Attic BLOWN FG G1 2x10 24"OC NO Radiant Barrier	2,318.19	No	Dark	1,577.0 ft²	Attic

Roof Insulation Library List

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

Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
2048 CFM at 50 Pa	Blower-door tested	4

Mechanical Ventilation

None Present

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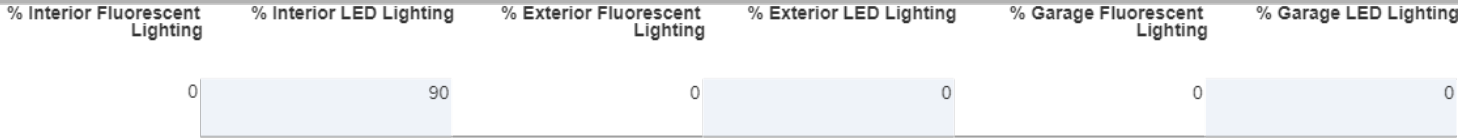
Organization
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Inspection Status
Results are projected

Builder
SMG Precision Properties

Template - SMG Precision - Liberty Meadows Lot 20
- CZ 4 slab - ecoSelect
Liberty Meadows Lot 20

Lighting



Onsite Generation

None Present

Onsite Generation Library List

None Present

Solar Generation

None Present

Dehumidifier

None Present

Dehumidifier Library List

None Present

Whole House Fan

None Present

Building Summary



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Builder
 SMG Precision Properties

Template - SMG Precision - Liberty Meadows Lot 20
 - CZ 4 slab - ecoSelect
 Liberty Meadows Lot 20

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 8.0hspf		52%	52%	0%	Attic
2nd floor heat pump	z 24k 14 SEER 8.0hspf		48%	48%	0%	Attic
Water Heating	z 50 gal. 0.95 EF Elec		0%	0%	100%	Unconditioned Garage

Equipment Type: z 24k 14 SEER 8.0hspf

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heating Efficiency	8 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

Equipment Type: z 24k 14 SEER 8.0hspf

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heating Efficiency	8 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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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

Distribution System

Distribution Type	Forced Air
Heating Equipment	1st floor heat pump
Cooling Equipment	1st floor heat pump
Sq. Feet Served	1,290
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft ²]	348.3
Return Duct Area [ft ²]	129
Leakage to Outdoors	51 CFM @ 25Pa (3.95 / 100 ft ²)
Total Leakage	51 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Attic (well vented)
Percent Supply Area	70
Percent Return Area	70
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	30
Percent Return Area	30
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
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Distribution System

Distribution Type	Forced Air
Heating Equipment	2nd floor heat pump
Cooling Equipment	2nd floor heat pump
Sq. Feet Served	1,165
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft ²]	314.55
Return Duct Area [ft ²]	116.5
Leakage to Outdoors	46 CFM @ 25Pa (3.95 / 100 ft ²)
Total Leakage	46 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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Liberty Meadows Lot 20

Builder

SMG Precision Properties

Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	79
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

Building Summary



Property

168 Edes Ct.
Cameron, NC 28326
Model: Rothbard
Community: Liberty Meadows

Organization

Southern Energy Management
Justin Smith

Inspection Status

Results are projected

Builder

SMG Precision Properties

Template - SMG Precision - Liberty Meadows Lot 20
- CZ 4 slab - ecoSelect
Liberty Meadows Lot 20

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 09/02/22_____

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