

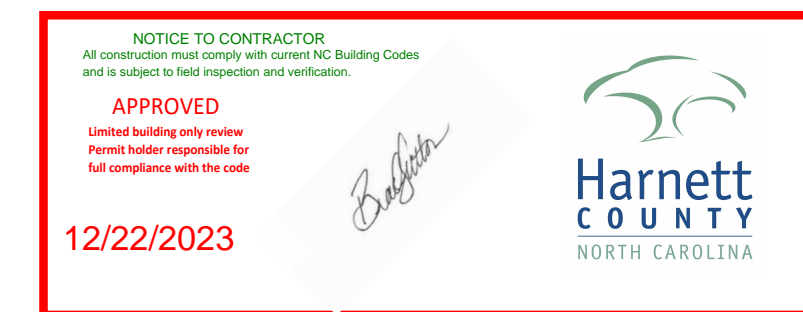


**FRONT ELEVATION**

Scale: 1/4" = 1'0"

9'0" CEILING HEIGHT FIRST FLOOR  
(HEADER HEIGHT 7'6")  
8'0" CEILING HEIGHT SECOND FLOOR  
(Frame 2nd Floor Headers directly below top plates)

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"

PLAN:  
Wyatt  
W/ Porch

SHEET TITLE:  
**ELEVATIONS**

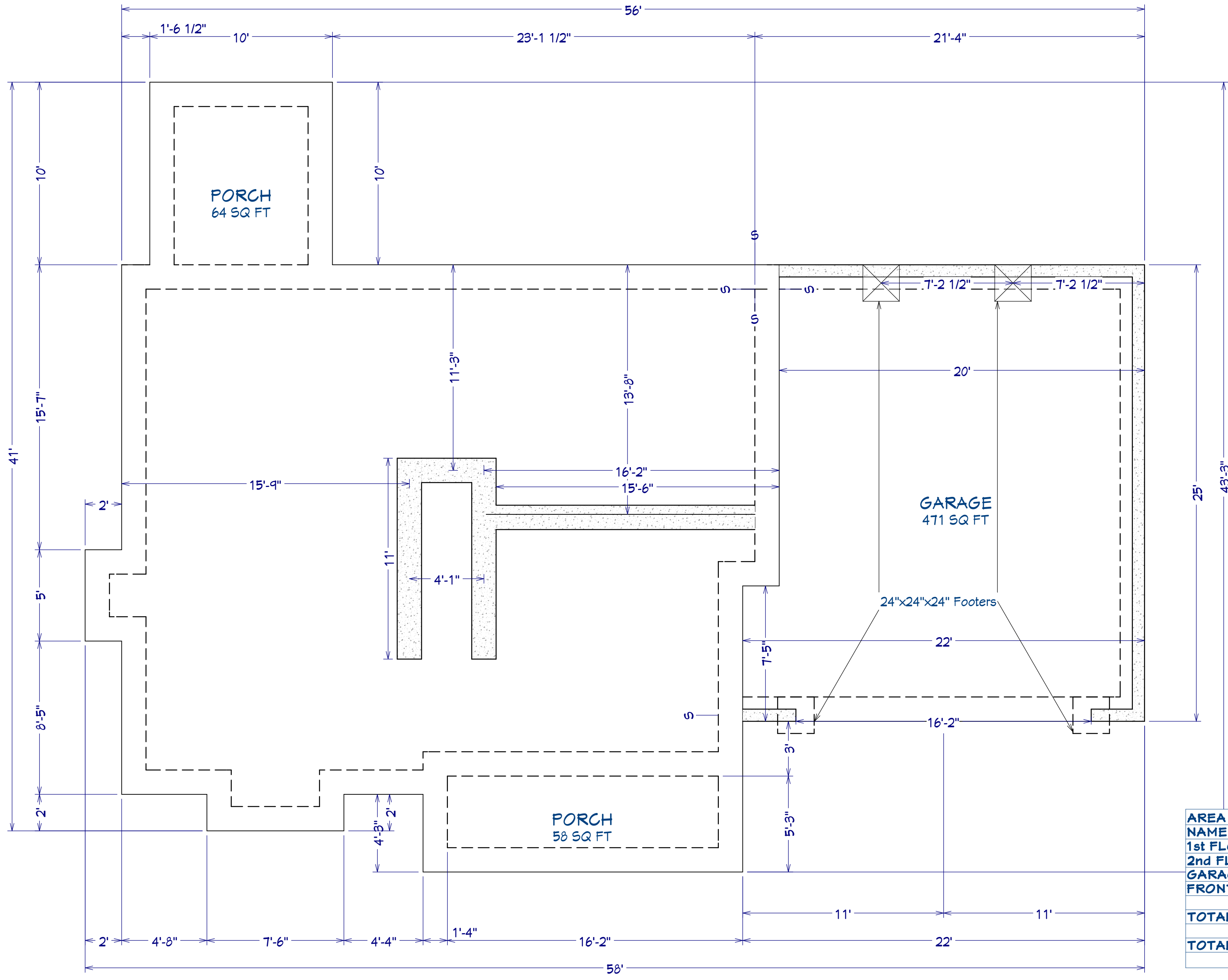
PROJECT ADDRESS:  
83 Rush Ln.  
Liberty Meadows Lot 62

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

DATE:  
12/20/23

SCALE:  
1/4" = 1'

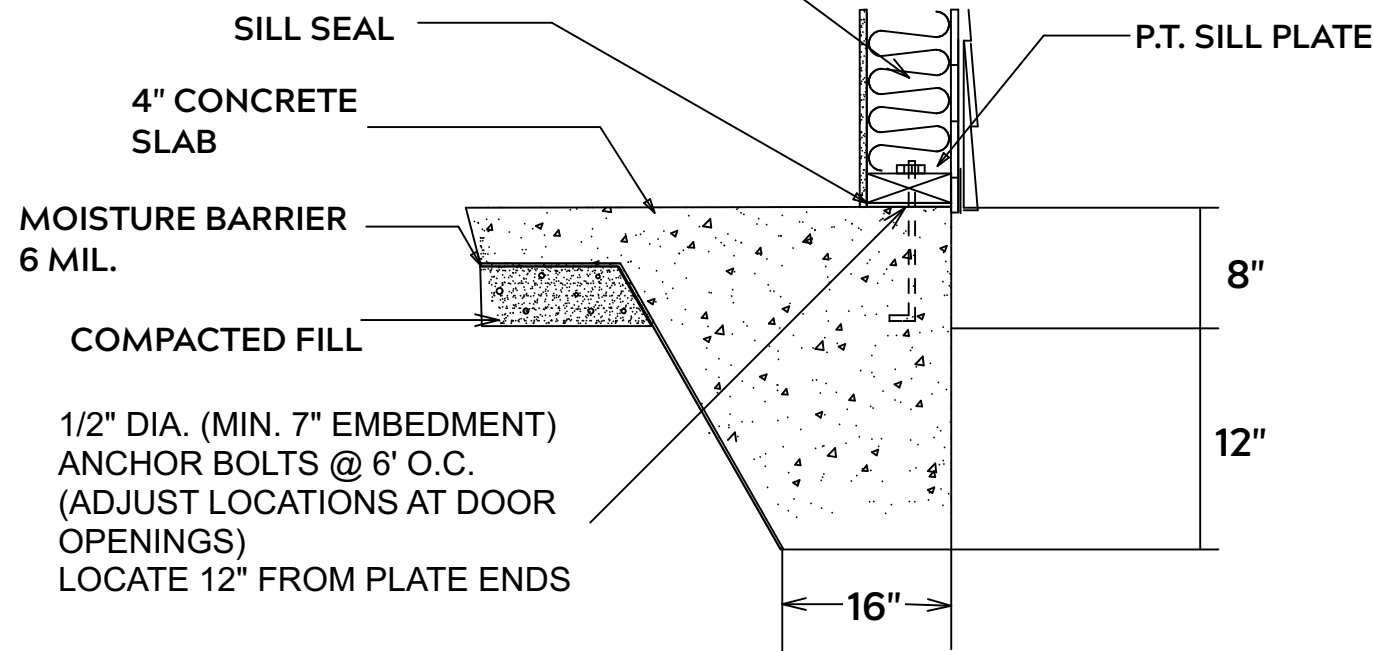
SHEET:  
**A-1**



AREA SCHEDULE	
NAME	AREA
1st FLOOR	1,031 SF
2nd FLOOR	1,197 SF
GARAGE	512 SF
FRONT PORCH	90 SF
<b>TOTAL HEATED</b>	<b>2,229 SF</b>
<b>TOTAL UNDER ROOF</b>	<b>2,831 SF</b>

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

2 X STUDS @ 16" O.C.  
INSULATION TO MEET LOCAL  
CODES



**MONOLITHIC SLAB**

**FOUNDATION NOTES:**

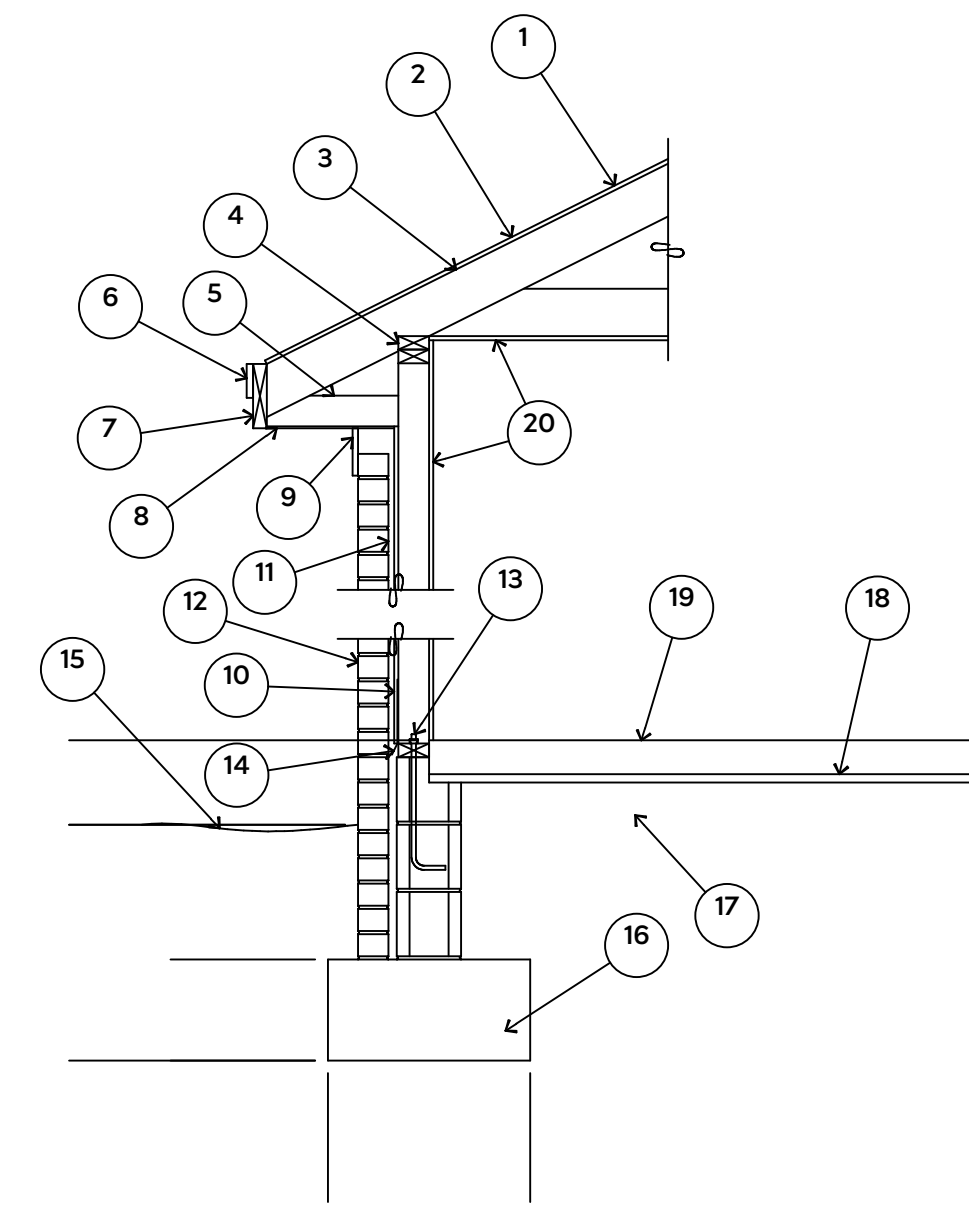
ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL  
THE 28 DAY COMPRESSIVE STRENGTH OF ALL FOOTINGS IS 3000 PSI

PROVIDE WATER PROOFING AND PERIMTER DRAINS AS REQUIRED

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

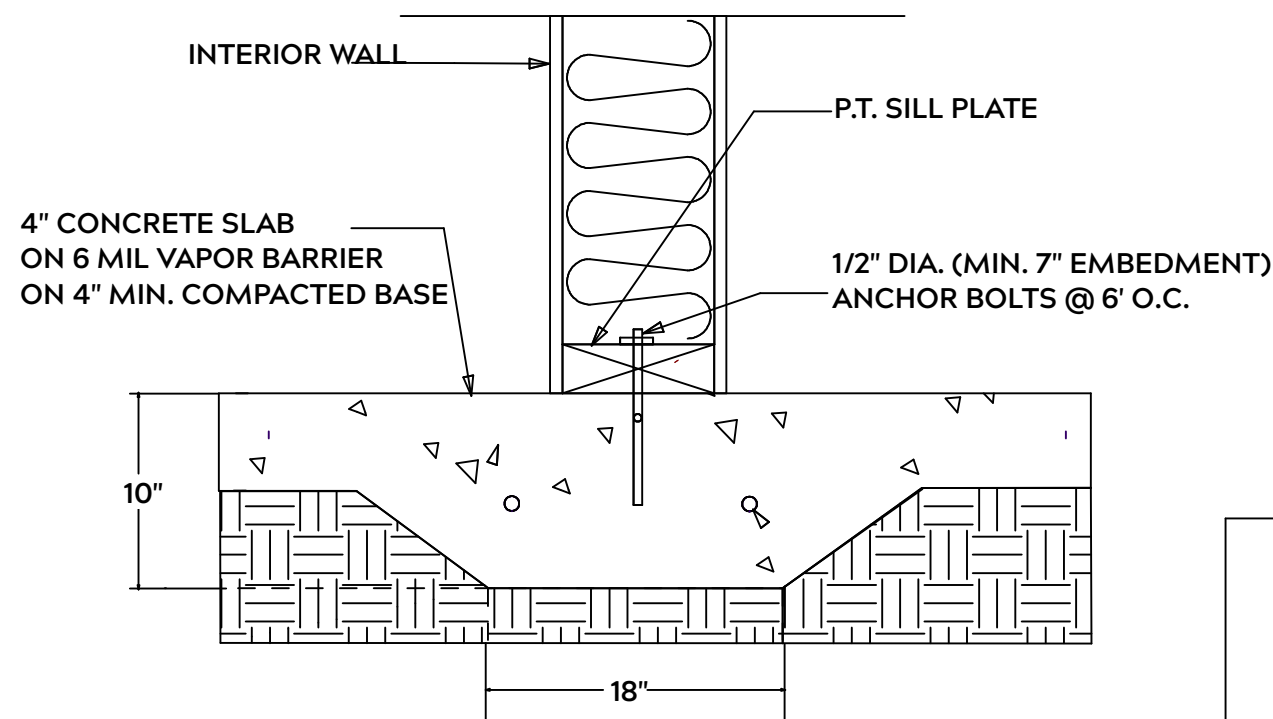
PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND IN CRAWL SPACE AND GROUND UNDER POURED CONCRETE

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



1. 15# FELT UNDERLAYMENT UNDER COMPOSITION SHINGLES.
2. ROOF DECKING.
3. 2 X RAFTERS / ENGINEERED TRUSSES
4. DOUBLE TOP PLATE.
5. 2 X 4 RETURN.
6. 3/4" FASCIA OR PVC TRIM COIL
7. 2 X FASCIA
8. 1/4" PLYWOOD OR VINYL SOFFIT
9. 1 X 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.
14. 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**



**LUG FOOTING**

**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.

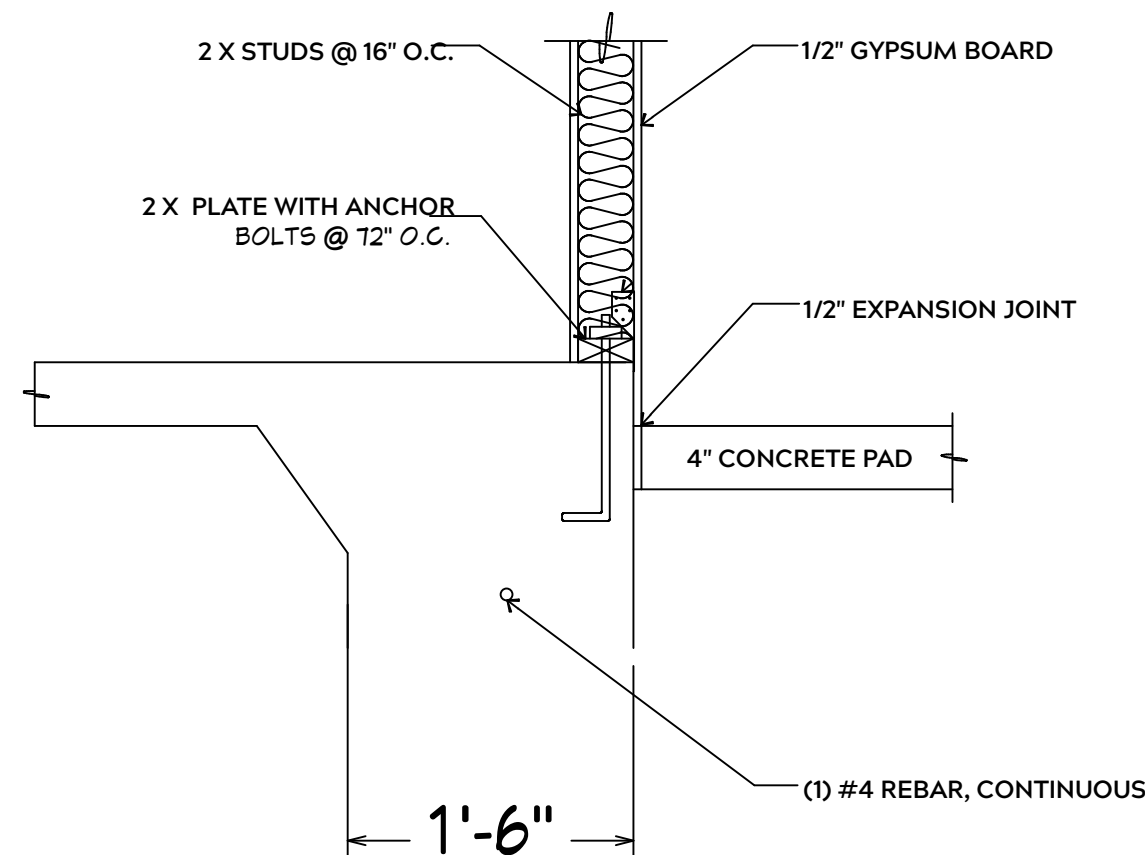
NAIL FLOOR JOISTS TO SILL PLATE WITH WITH 8d TOE NAILS

ALL EXPOSED FRAMING ON PORCHES OR DECKS SHALL BE PRESSURE TREATED

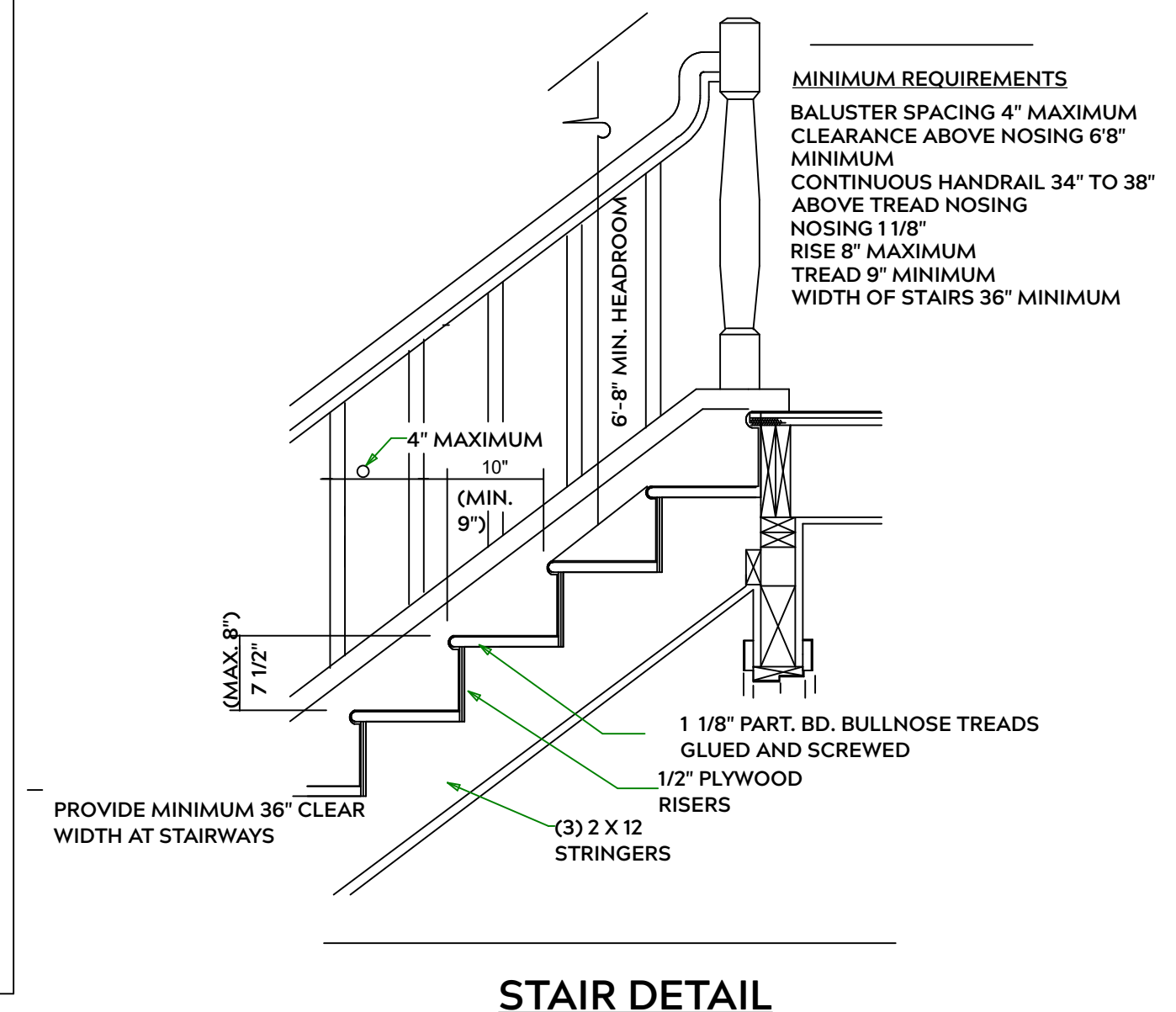
PROVIDE WATERPROOFING AND DRAINS AS REQUIRED

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**



- MINIMUM REQUIREMENTS**
- BALUSTER SPACING 4" MAXIMUM
  - CLEARANCE ABOVE NOSING 6"8"
  - MINIMUM CONTINUOUS HANDRAIL 34" TO 38" ABOVE TREAD NOSING
  - NOSING 1 1/8"
  - RISE 8" MAXIMUM
  - TREAD 9" MINIMUM
  - WIDTH OF STAIRS 36" MINIMUM

**STAIR DETAIL**

PLAN:  
Wyatt  
W/ Porch

SHEET TITLE:  
**DETAIL SHEETS**

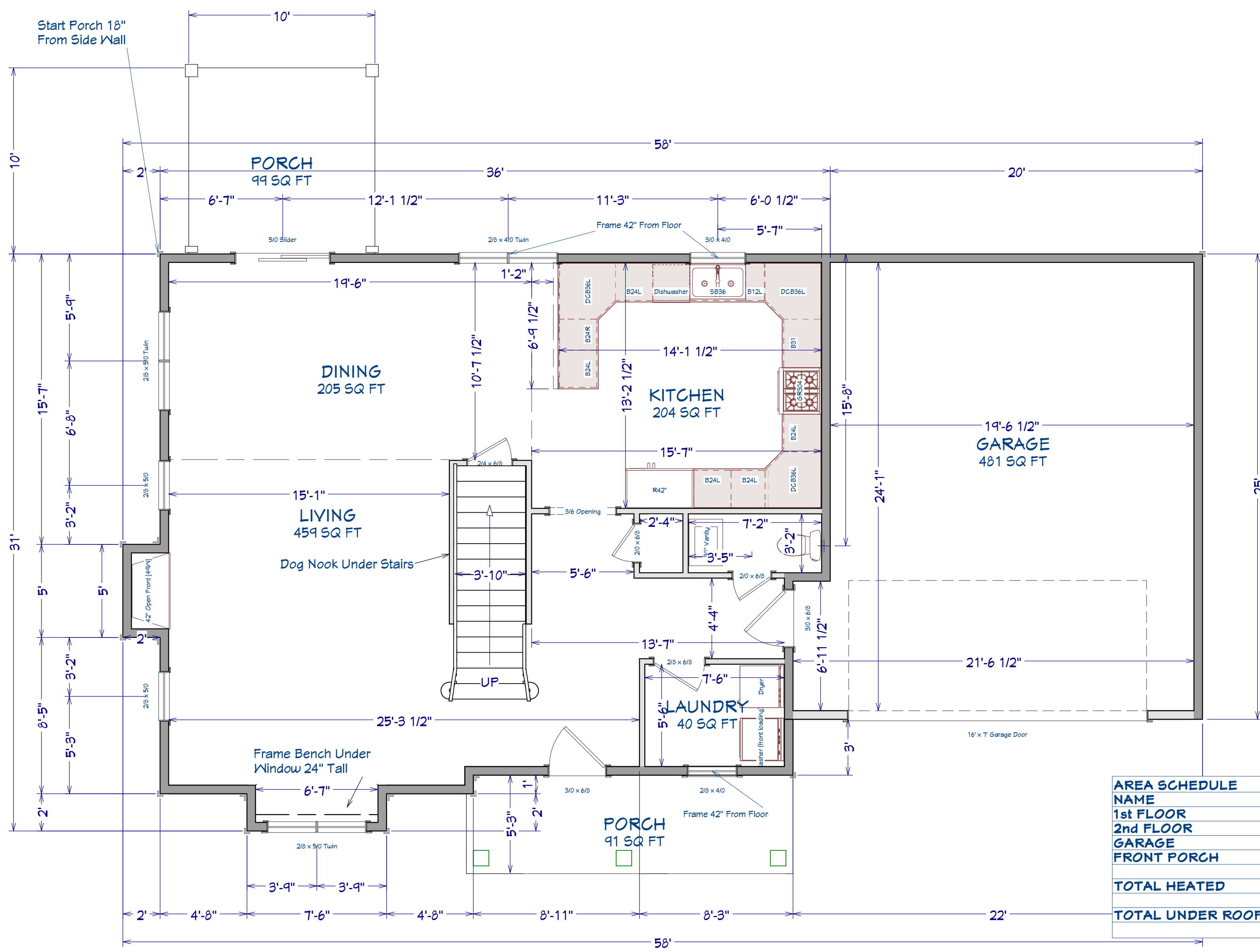
PROJECT ADDRESS:  
83 Rush Ln.  
Liberty Meadows Lot 62

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

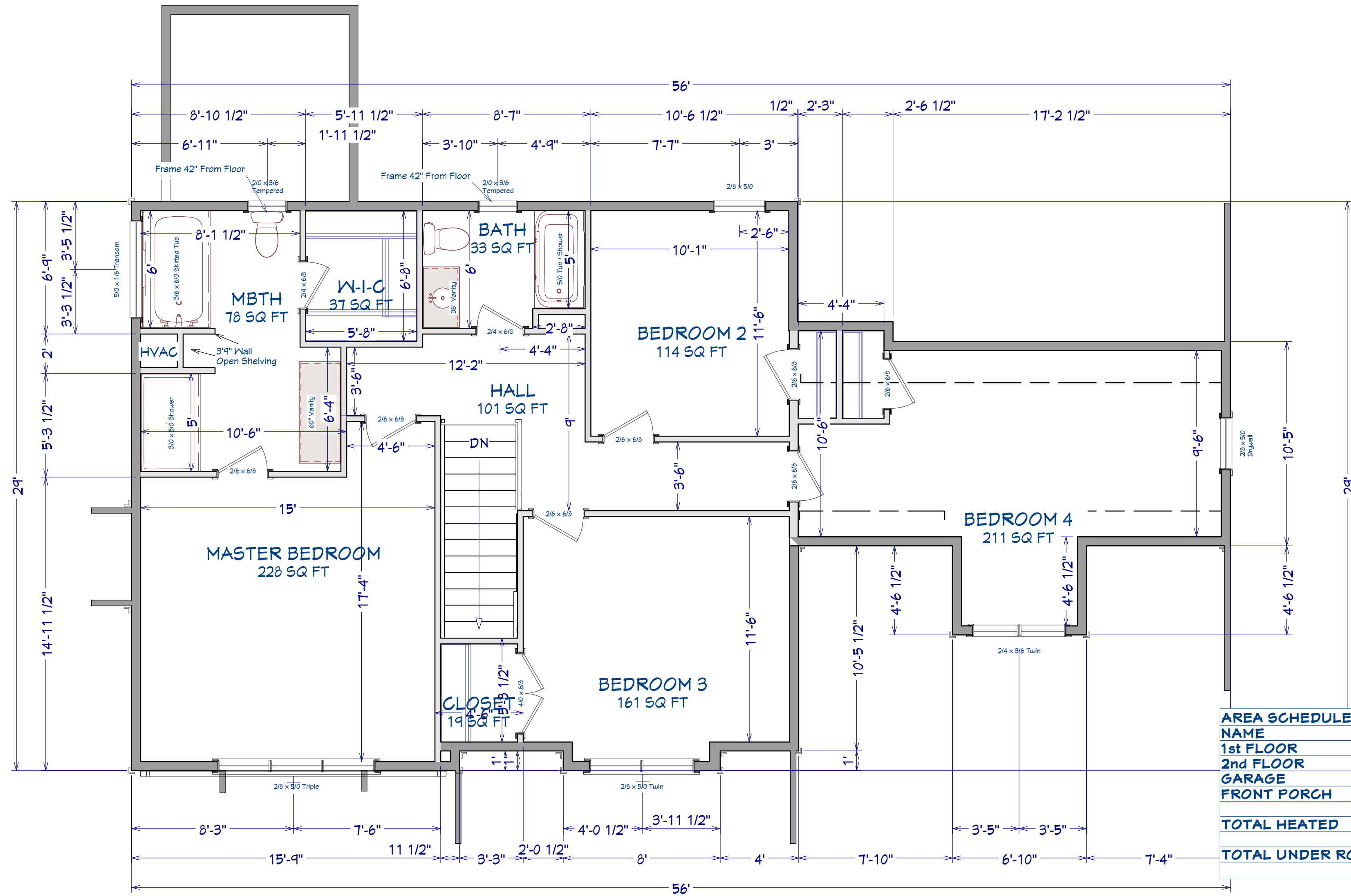
DATE:  
12/20/23

SCALE:  
1/4" = 1'

SHEET:  
**A-3**



AREA SCHEDULE	
NAME	AREA
1st FLOOR	1,031 SF
2nd FLOOR	1,197 SF
GARAGE	512 SF
FRONT PORCH	90 SF
<b>TOTAL HEATED</b>	<b>2,229 SF</b>
<b>TOTAL UNDER ROOF</b>	<b>2,831 SF</b>



AREA SCHEDULE	
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# ROOF & FLOOR TRUSSES & BEAMS

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

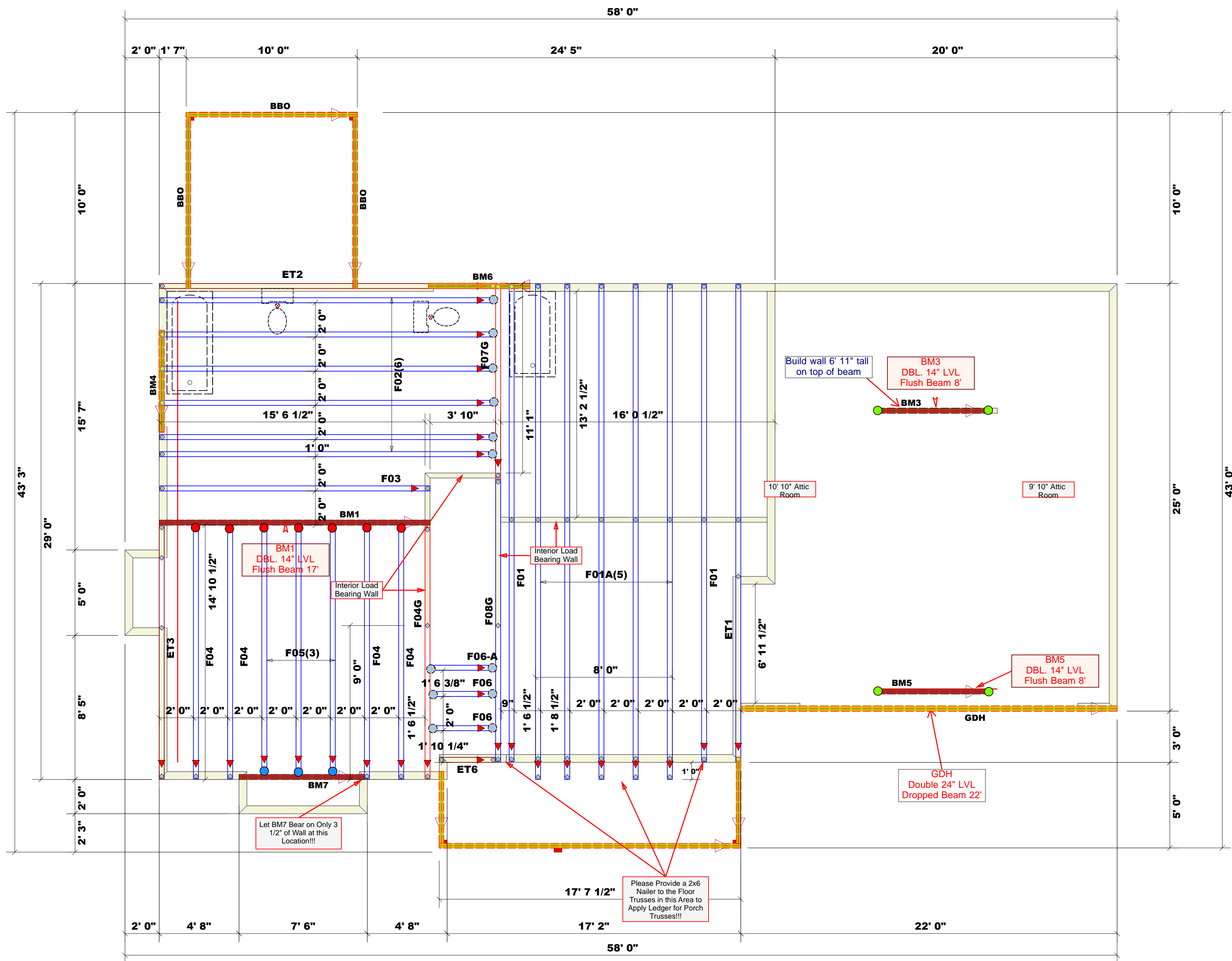
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Code requirements ) to determine the minimum foundation size and number of wood studs required to support reactions 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. STUDS FOR (1) 1" X 4" HEADER	END REACTION (UP TO)	REQ. STUDS FOR (1) 1" X 4" HEADER	END REACTION (UP TO)	REQ. STUDS FOR (1) 1" X 4" 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				



Nail Information		Connector Information				
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
10d/3"	10d/3"	Varies	12	USP	MSH422	●
16d/3-1/2"	16d/3-1/2"	NA	3	USP	HUS410	●
16d/3-1/2"	16d/3-1/2"	NA	7	USP	JUS414	●
16d/3-1/2"	16d/3-1/2"	NA	9	USP	HUS26	●
10d/3"	16d/3-1/2"	NA	4	USP	THD410	●

Products						
Fab Type	Net Qty	Piles	Product	Length	PlotID	
FF	2	2	1-3/4"x 14" LVL Kerto-S	16' 0"	BM1	
FF	2	2	1-3/4"x 14" LVL Kerto-S	7' 0"	BM3	
FF	2	2	1-3/4"x 9-1/4" LVL Kerto-S	6' 0"	BM4	
FF	2	2	1-3/4"x 14" LVL Kerto-S	7' 0"	BM5	
FF	2	2	1-3/4"x 9-1/4" LVL Kerto-S	6' 0"	BM6	
FF	2	2	1-3/4"x 14" LVL Kerto-S	8' 0"	BM7	
FF	2	2	1-3/4"x 23-7/8" LVL Kerto-S	22' 0"	GDH	

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

**Hatch Legend**

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

**All Walls Shown Are Considered Load Bearing**

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

**Dimension Notes**  
 1. All exterior wall to wall dimensions are to face of stud unless noted otherwise  
 2. All interior wall dimensions are to face of stud unless noted otherwise  
 3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

= 2517.84 sq.ft. Roof Area  
 = 84.8 ft. Ridge Line  
 = 0 ft. Hip Line  
 = 211.5 ft. Horiz. OH  
 = 232.42 ft. Raked OH  
 = 87 sheets Decking

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

BUILDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #
Precision Custom Homes & Renovations	Lot 62 Liberty Meadows	Wyatt 2.0 w/CP	N/A	N/A	J0923-5137
COUNTY	ADDRESS	MODEL	DATE REV.	DRAWN BY	SALESMAN
Harnett	83 Rush Lane, Cameron, NC	Floor	11/21/2023	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



# ROOF & FLOOR TRUSSES & BEAMS

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

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Signature \_\_\_\_\_  
**Neil Baggett**

### LOAD CHART FOR JACK STUDS

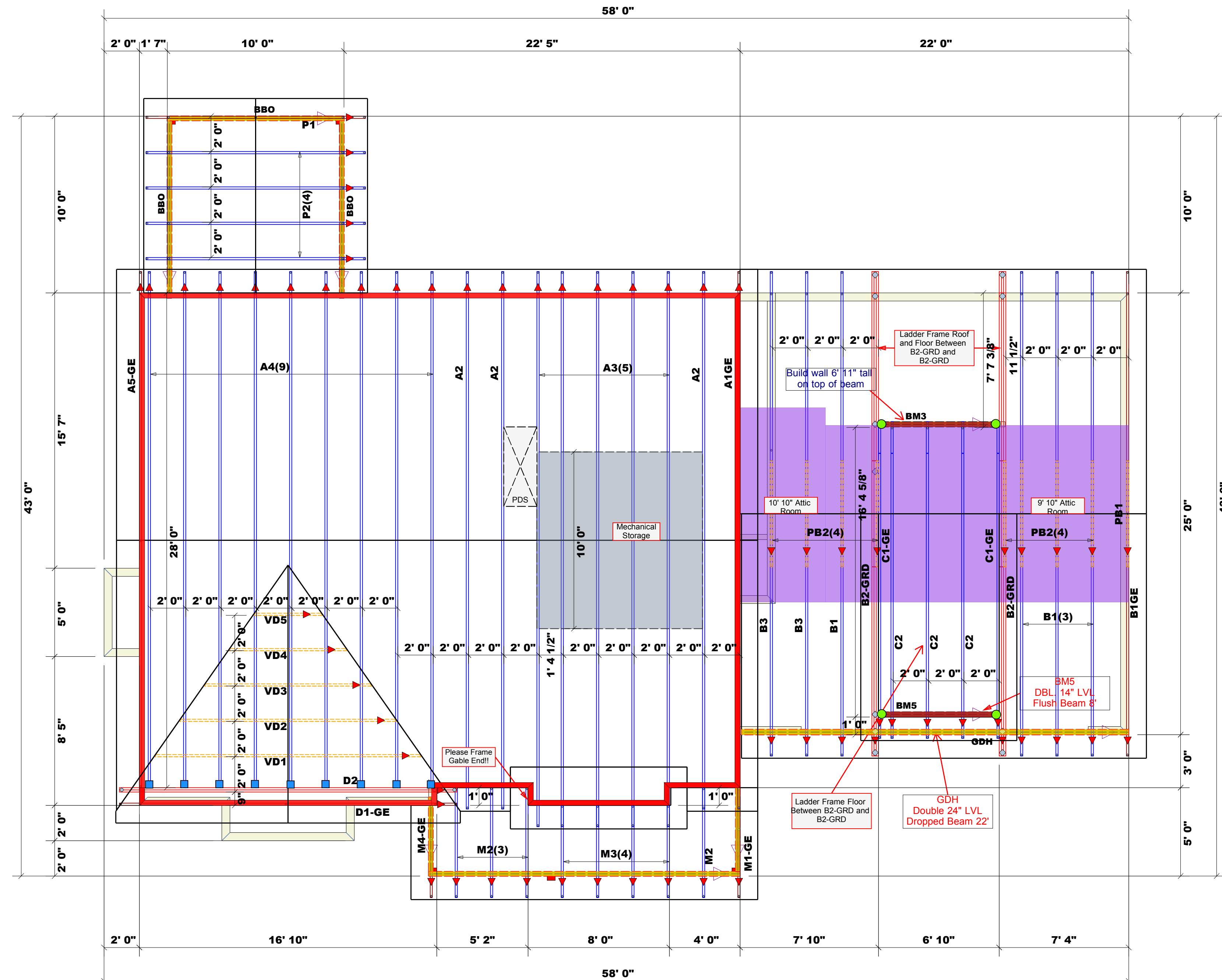
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3400	2	5100	2	6800	2
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6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

PRECISION CUSTOM HOMES & RENOVATIONS	Harnett
Lot 62 Liberty Meadows	83 Rush Lane, Cameron, NC
Wyatt 2.0 w/CP	Roof
N/A	11/21/2023
N/A	Neil Baggett
J0923-5136	Neil Baggett

PRECISION CUSTOM HOMES & RENOVATIONS	83 RUSH LANE, CAMERON, NC
Lot 62 Liberty Meadows	Roof
Wyatt 2.0 w/CP	11/21/2023
N/A	Neil Baggett
N/A	Neil Baggett
J0923-5136	

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Nail Information		Connector Information				
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
10d/3"	10d/3"	Varies	12	USP	MSH422	⊙
16d/3-1/2"	16d/3-1/2"	NA	3	USP	HUS410	⊙
16d/3-1/2"	16d/3-1/2"	NA	7	USP	JUS414	⊙
16d/3-1/2"	16d/3-1/2"	NA	9	USP	HUS26	⊙
10d/3"	16d/3-1/2"	NA	4	USP	THD410	⊙

Products						
Fab Type	Net Qty	Piles	Product	Length	PlotID	
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FF	2	2	1-3/4"x 14" LVL Kerto-S	7' 0"	BM3	
FF	2	2	1-3/4"x 9-1/4" LVL Kerto-S	6' 0"	BM4	
FF	2	2	1-3/4"x 14" LVL Kerto-S	7' 0"	BM5	
FF	2	2	1-3/4"x 9-1/4" LVL Kerto-S	6' 0"	BM6	
FF	2	2	1-3/4"x 14" LVL Kerto-S	8' 0"	BM7	
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- Drop Beam
- Mechanical & Light Box Storage
- 2nd Floor Walls @ 8' 1 1/2" UNO

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

**Dimension Notes**

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- 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.

2517.84 sq.ft. Roof Area  
84.8 ft. Ridge Line  
0 ft. Hip Line  
211.5 ft. Horiz. OH  
232.42 ft. Raked OH  
87 sheets Decking

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

# North Carolina 2018 - R402.1.5 Total UA



## Property

83 Rush Ln  
Cameron, NC 28326  
Model: Wyatt  
Community: Liberty Meadows

## Organization

Southern Energy Manager  
Justin Smith

## Inspection Status

Results are projected

## Builder

SMG Precision Properties

Template - SMG Precision - Liberty  
Meadows Lot 62 - CZ 4 slab -  
Liberty Meadows Lot 62

**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	39.2	35.3
Above-Grade Walls	178.3	132.3
Windows, Doors and Skylights	115.8	104.0
Slab Floor:	64.4	83.8
Framed Floors	13.0	14.1
Foundation Walls	0.0	0.0
Rim Joists	7.4	6.0
<b>Overall UA (Design must be equal or lower):</b>	<b>418.1</b>	<b>375.5</b>

## Requirements

✓	R402.1.5	Total UA alternative compliance passes by 10.2%. The proposed home meets the UA requirement by 10.2%
✓	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 4.80 ACH at 50 Pa. It must not exceed 5.00 ACH at 50 Pa.
✓	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 90.0% 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 10.2%.**

Name: Justin Smith  
Organization: Southern Energy Management

Signature: Justin Smith  
Digitally signed: 11/17/23 at 11:33 AM

## Ekotrope RATER - Version 4.1.2.3282

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**  
 83 Rush Ln  
 Cameron, NC 28326  
 Model: Wyatt  
 Community: Liberty Meadows

**Organization**  
 Southern Energy Management  
 Justin Smith

**Inspection Status**  
 Results are projected

**Builder**  
 SMG Precision Properties

Template - SMG Precision - Liberty Meadows Lot 62  
 - CZ 4 slab - ecoSelect  
 Liberty Meadows Lot 62

## General Building Information

Number Of Bedrooms	4
Number Of Floors	2
Conditioned Floor Area [sq. ft.]	2,228
Has Electric Vehicle Ready Space	No
Unconditioned, attached garage?	Yes
Conditioned Volume [cu. ft.]	19,886
Total Units in Building	1
Residence Type	Single family detached
Number of Floors in Building	-
Floor Number	-
Model	Wyatt
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

Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
slab	Uninsulated	134	On Grade	1	0	1,031.0 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	Perimeter Insulation Is Exterior	Thermal Break	Effective R-value
Uninsulated	Wood Frame / Other	No	0	0	0	Yes	No	0.00

# Building Summary



**Property**  
 83 Rush Ln  
 Cameron, NC 28326  
 Model: Wyatt  
 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 62  
 - CZ 4 slab - ecoSelect  
 Liberty Meadows Lot 62

**Builder**  
 SMG Precision Properties

## Framed Floor

Name	Library Type	Carpet R	Floor Grade	Surface Area	Location
over ambient	R 19, 16"OC G1 Carpet	0	Above Grade	8.0 ft <sup>2</sup>	Exposed Exterior
over garage	R 19, 16"OC G1 Carpet	0	Above Grade	268.0 ft <sup>2</sup>	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	107.0 ft <sup>2</sup>	Exposed Exterior
1st floor garage	R 19 G1, 16"OC	27.0 ft <sup>2</sup>	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	963.0 ft <sup>2</sup>	Exposed Exterior
1st floor garage	R 19 Adv. Framing G1 16" O.C	Medium	243.0 ft <sup>2</sup>	Unconditioned, attached garage
2nd floor ambient	R 19 Adv. Framing G1 16" O.C	Medium	933.0 ft <sup>2</sup>	Exposed Exterior
2nd floor attic	R 19 Adv. Framing G1 16" O.C	Medium	507.0 ft <sup>2</sup>	Attic

# Building Summary



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 83 Rush Ln  
 Cameron, NC 28326  
 Model: Wyatt  
 Community: Liberty Meadows

**Organization**  
 Southern Energy Management  
 Justin Smith

**Inspection Status**  
 Results are projected

**Builder**  
 SMG Precision Properties

Template - SMG Precision - Liberty Meadows Lot 62  
 - CZ 4 slab - ecoSelect  
 Liberty Meadows Lot 62

## 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	83.6 ft²
front shaded	33/28	1st floor ambient		Yes	5	1	5	West	10.8 ft²
front unshaded	33/28	1st floor ambient		Yes	0	0	0	West	27.0 ft²
left 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	North	7.5 ft²
left unshaded	33/28	1st floor ambient		Yes	0	0	0	North	54.0 ft²
rear 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	East	27.5 ft²
rear shaded	33/28	1st floor ambient		Yes	10	2	9	East	33.5 ft²
rear unshaded	33/28	1st floor ambient		Yes	0	0	0	East	33.6 ft²
right 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	South	13.5 ft²

## Glazing Library List

Name	Shgc	U-factor
33/28	0.28	0.330

## Skylight

None Present

# Building Summary



**Property**  
 83 Rush Ln  
 Cameron, NC 28326  
 Model: Wyatt  
 Community: Liberty Meadows

**Organization**  
 Southern Energy Management  
 Justin Smith

**Inspection Status**  
 Results are projected

**Builder**  
 SMG Precision Properties

Template - SMG Precision - Liberty Meadows Lot 62  
 - CZ 4 slab - ecoSelect  
 Liberty Meadows Lot 62

## 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 ft <sup>2</sup>	Exposed Exterior
garage entry	Fiberglass R-5	1st floor garage		0.9	0.75	Medium	20.0 ft <sup>2</sup>	Unconditioned, attached garage

## Opaque Door Library List

Name	Effective U-factor
Fiberglass R-5	0.200

## Roof Insulation

Name	Library Type	Attic Exterior Area [ft <sup>2</sup> ]	Clay or Concrete Roof Tiles	Surface Color	Surface Area	Location
attic	R 38 Attic BLOWN FG G1 2x10 24"OC NO Radiant Barrier	1,921.29	No	Dark	1,307.0 ft <sup>2</sup>	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	37.074

## Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
1590 CFM at 50 Pa	Blower-door tested	4

# Building Summary



**Property**  
83 Rush Ln  
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**Organization**  
Southern Energy Management  
Justin Smith

**Inspection Status**  
Results are projected

Template - SMG Precision - Liberty Meadows Lot 62  
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Liberty Meadows Lot 62

**Builder**  
SMG Precision Properties

## Mechanical Ventilation

None Present

## Lighting

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

## Onsite Generation

None Present

## Onsite Generation Library List

None Present

## Solar Generation

None Present

## Dehumidifier

None Present

## Dehumidifier Library List

None Present

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 SMG Precision Properties

## 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 8.0hspf		48%	48%	0%	Attic
2nd floor heat pump	z 24k 14 SEER 8.0hspf		52%	52%	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)
Heat Pump System Type	Unspecified
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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**Builder**  
SMG Precision Properties

## 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)
Heat Pump System Type	Unspecified
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 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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**Builder**  
 SMG Precision Properties

## Distribution System

Distribution Type	Forced Air
Heating Equipment	1st floor heat pump
Cooling Equipment	1st floor heat pump
Sq. Feet Served	1,031
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft <sup>2</sup> ]	278.37
Return Duct Area [ft <sup>2</sup> ]	103.1
Leakage to Outdoors	41 CFM @ 25Pa (3.98 / 100 ft <sup>2</sup> )
Total Leakage	41 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Attic (well vented)
Percent Supply Area	60
Percent Return Area	60
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	40
Percent Return Area	40
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



# Building Summary



**SOUTHERN ENERGY**  
MANAGEMENT  
ENERGY EFFICIENCY & SOLAR POWER

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**Builder**  
SMG Precision Properties

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Liberty Meadows Lot 62

## Distribution System

Distribution Type	Forced Air
Heating Equipment	2nd floor heat pump
Cooling Equipment	2nd floor heat pump
Sq. Feet Served	1,197
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft <sup>2</sup> ]	323.19
Return Duct Area [ft <sup>2</sup> ]	119.7
Leakage to Outdoors	47 CFM @ 25Pa (3.93 / 100 ft <sup>2</sup> )
Total Leakage	47 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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**Builder**  
SMG Precision Properties

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	87
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 Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

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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 11/17/23 \_\_\_\_\_

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