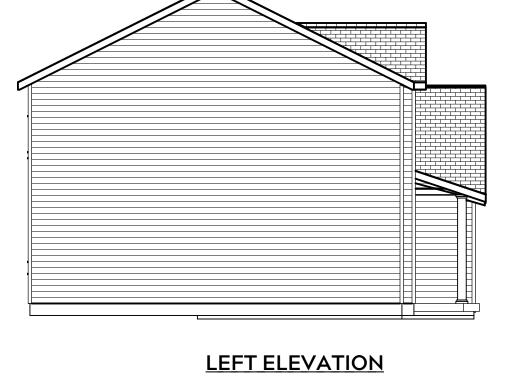


FRONT ELEVATION

Scale: 1/4" = 1'0"

9'0" CEILING HEIGHT FIRST FLOOR 7'6" Header Height 1st Floor 8'0" CEILING HEIGHT SECOND FLOOR 7'0" Header height 2nd Floor FRAME WINDOWS TO HEADER HEIGHT



Scale: 1/8" = 1'0"



REAR ELEVATION

Scale: 1/8" = 1'0"



RIGHT ELEVATION

Scale: 1/8" = 1'0"

PLAN: Roark 2.0

ELEVATIONS

SHEET TITLE:

PROJECT ADDRESS: Liberty Meadows Lot 1

Precision Custom Homes
Raeford, NC

DATE:

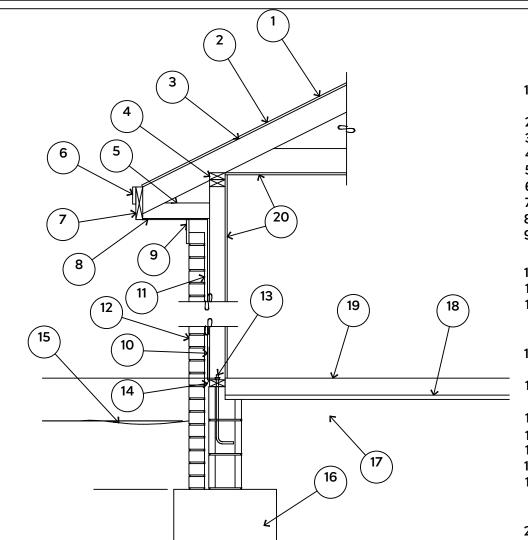
7/19/22

SCALE:

1/4" = 1'

SHEET:

A-1



15# FELT UNDERLAYMENT UNDER COMPOSITION SHINGLES.

2. ROOF DECKING.

3. 2 X RAFTERS / ENGINEERED TRUSSES

3. ZX RAFIERS / ENGII

4. DOUBLE TOP PLATE.5. 2 X 4 RETURN.

6. 3/4" FASCIA OR PVC TRIM COIL

. 2 X FASCIA

8. 1/4" PLYWOOD OR VINYL SOFFIT

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.

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

A" CONCRETE SLAB ON 6 MIL VAPOR BARRIER ON 4" MIN. COMPACTED BASE 1/2" DIA. (MIN. 7" EMBEDMENT) ANCHOR BOLTS @ 6' O.C.

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

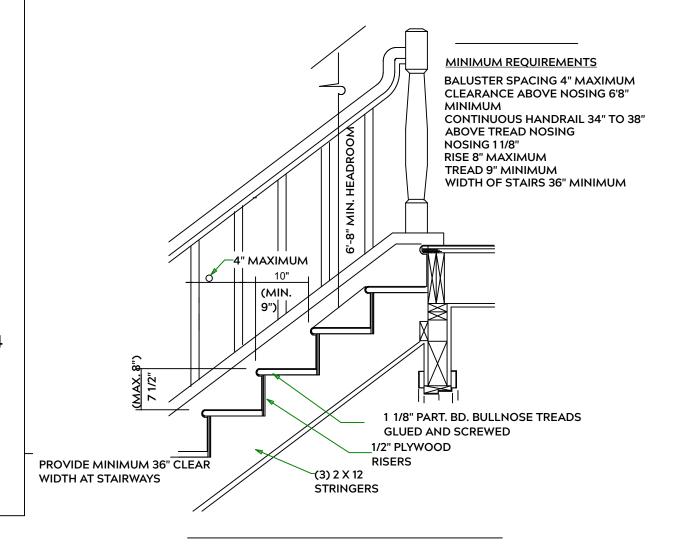
ALL EXPOSED FRAMING ON PORCHES OR DECKS SHALL BE PRESSURE TREATED

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)

EXTERIOR WALL SECTION



STAIR DETAIL

PLAN: Roark 2.0

DETAIL SHEETS

r.

PROJECT ADDRESS: Liberty Meadows Lot 1

> Precision Custom Homes Raeford, NC ®PrecisionCustomHomesNC.com

DATE:

SCALE: 1/4" = 1'

7/19/22

SHEET:

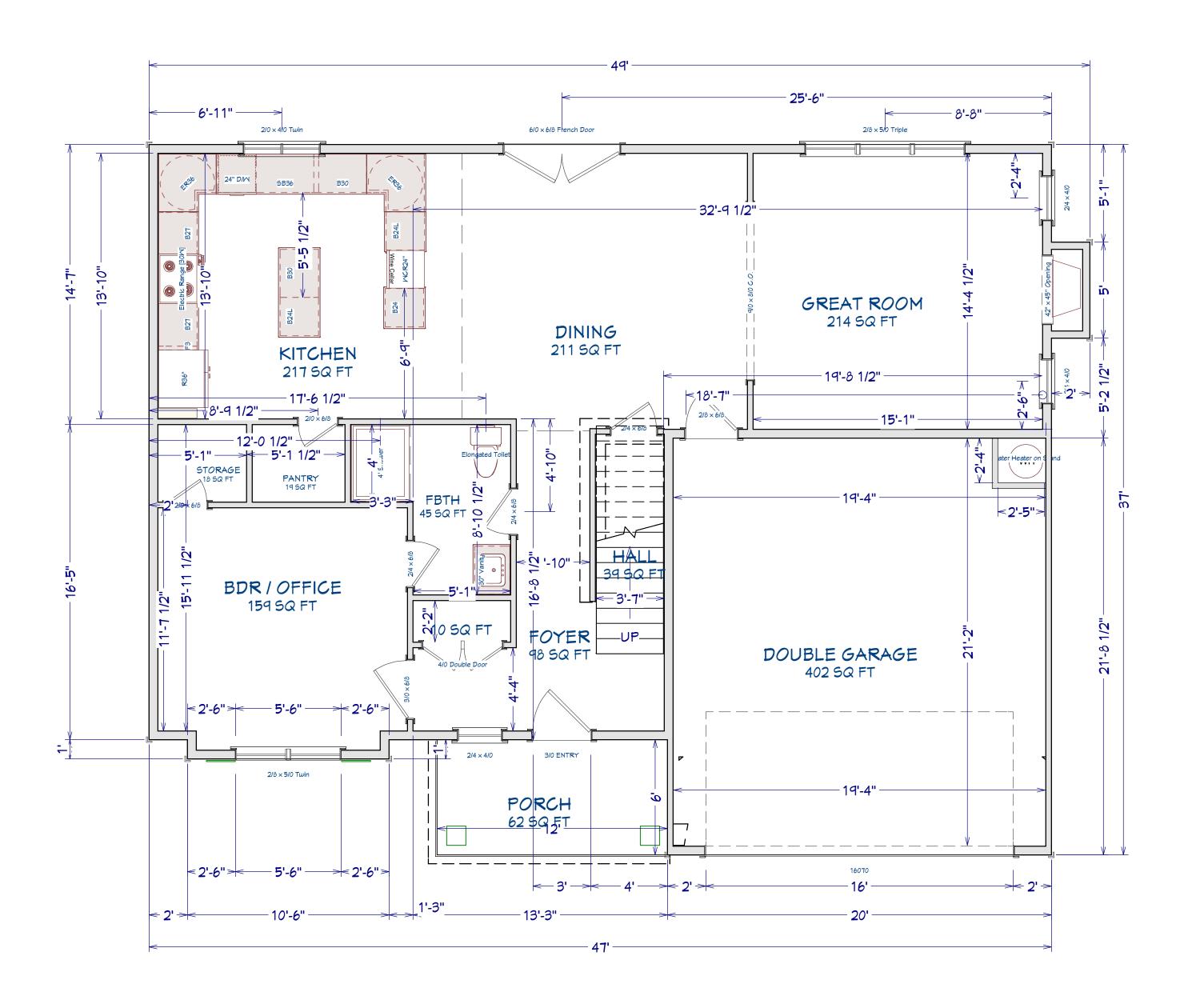
A-3

LUG FOOTING



1st FLOOR

PROJECT ADDRESS: Liberty Meadows Lot 1



AREA SCHEDULE	
NAME	AREA
1st FLOOR AREA	1,185 SF
2nd FLOOR AREA	1305 SF
GARAGE	418 SF
FRONT PORCH	75 SF
REAR PORCH	120 SF
TOTAL HEATED	2490 SF
TOTAL UNDER ROOF	3103 SF

<u>1st Floor</u> Scale: 1/4" = 1'0" DATE:

DESIGNED BY:

7/19/22

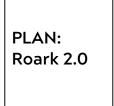
Precision Custom Horn Raeford, NC n@PrecisionCustomHom

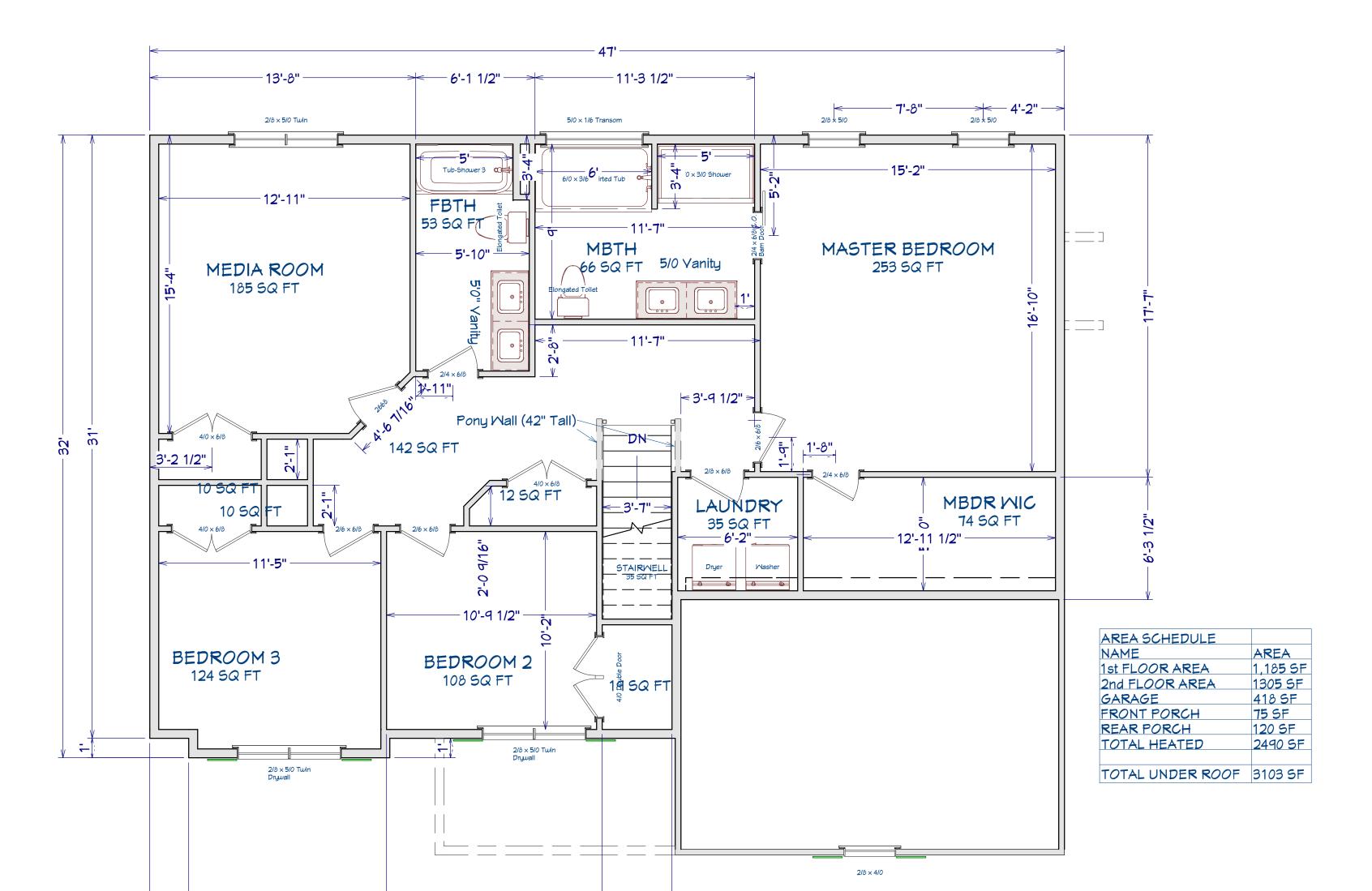
SCALE:

1/4" = 1'

SHEET:

A-4





<u>2nd Floor</u> Scale: 1/4" = 1'0"

10'-2"

2nd FLOOR

SHEET TITLE:

PROJECT ADDRESS: Liberty Meadows Lot 1

Precision Custom Homes
Raeford, NC

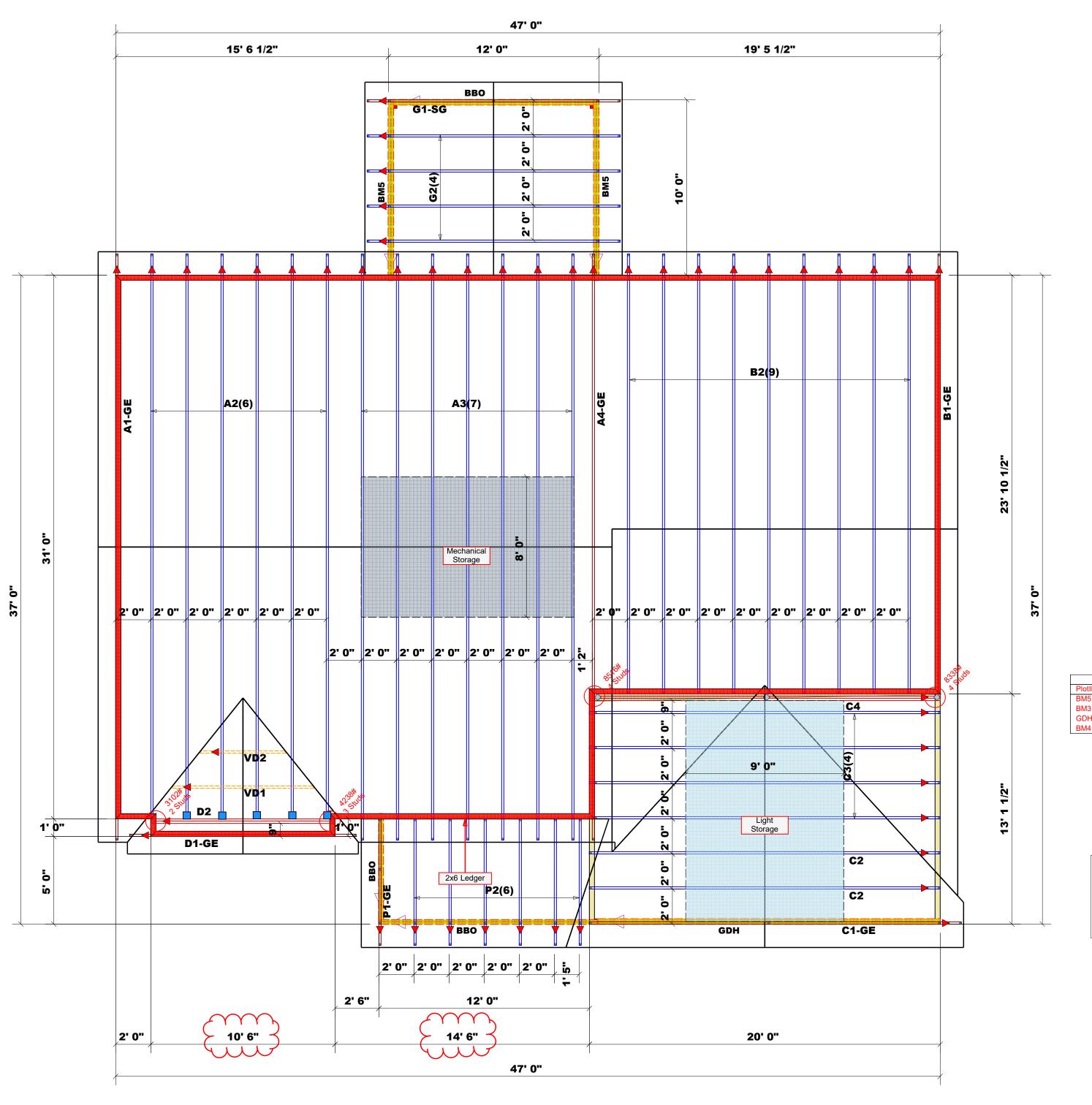
DATE:

7/19/22

SCALE: 1/4" = 1'

SHEET:

A-5





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#.

Meadows

1 Liberty

<u>Lot</u>

ADDRESS

Harnett

COUNTY

Precision Custom Homes

Lot 1 Liberty Meadows

Roark 2.0 w/CP

6/21/2022

Neil Baggett

DRAWN BY

6/28/2022

DATE REV.

Neil Baggett

SALESMAN

J0422-2178

Quote#

Neil Baggett

LOAD CHART FOR JACK STUDS

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

Considered Load Bearing

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.

Dimension Notes 1. All exterior wall to wall dimensions are to Aul 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 = 2520.35 sq.ft.

Ridge Line = 83.84 ft.

Horiz. OH = 138.55 ft.

Raked OH = 214.23 ft.

Decking = 87 sheets

All Walls Shown Are

Hip Line = 0 ft.

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

 $- \underbrace{ 1 } \frac{Truss\ Placement\ Plan}{Scale: 1/4"=1'}$ Hatch Legend

Box Storage Padded HVAC Flush Beam Drop Beam

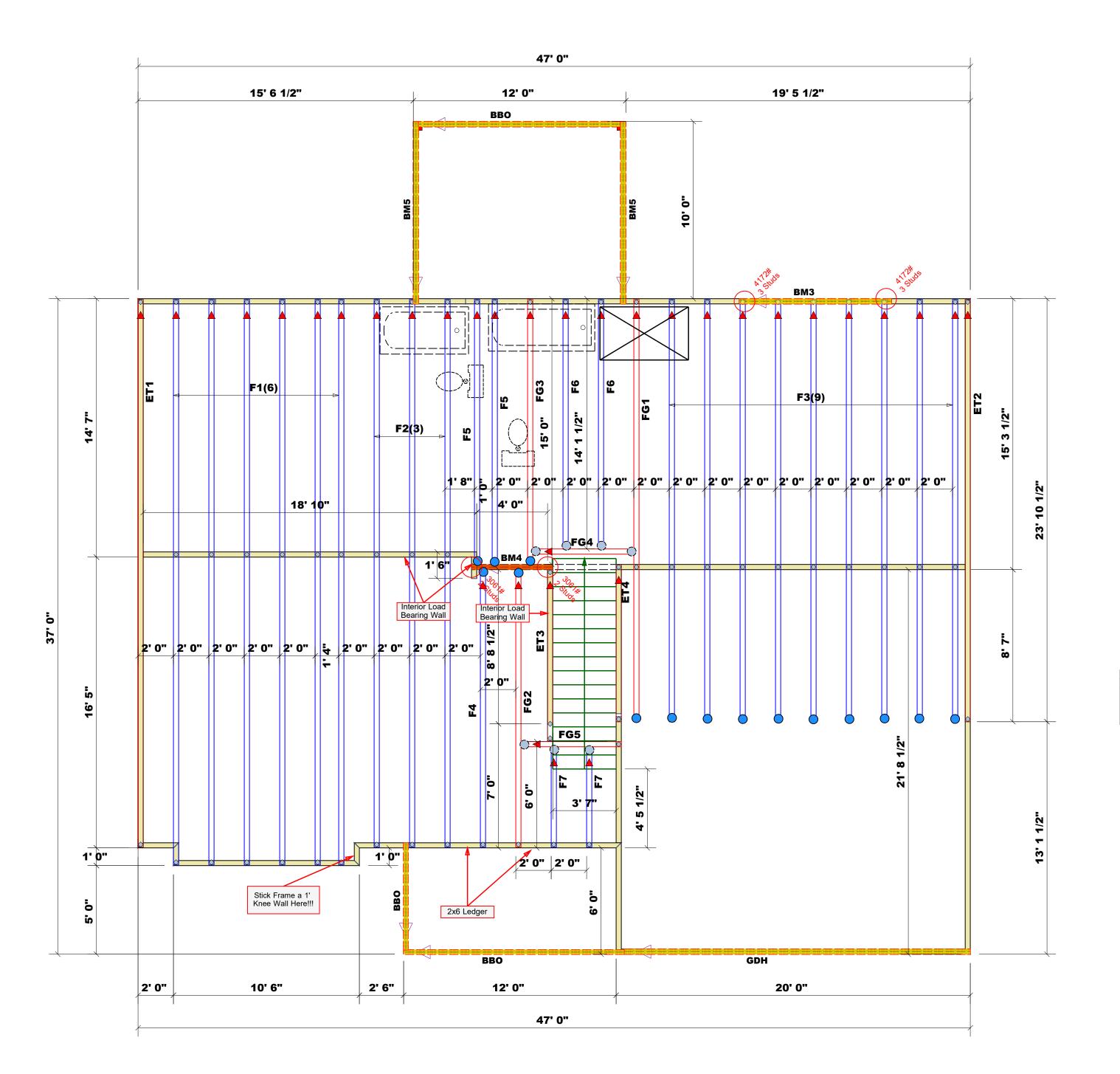
1-3/4"x 9-1/4" LVL Kerto-S BM3 9'0" 1-3/4"x 9-1/4" LVL Kerto-S 2 FF FF GDH 20' 0" 1-3/4"x 14" LVL Kerto-S 2 BM4 5' 0" 1-3/4"x 14" LVL Kerto-S

	Conne	Nail Information				
Sym	ym Product Manuf Qty Supporte				Header	Truss
	HUS410	USP	15	Varies	16d/3-1/2"	16d/3-1/2"
	MSH422	USP	7	Varies	10d/3"	10d/3"
	HUS26	USP	5	Varies	16d/3-1/2"	16d/3-1/2"

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

> JOB NAME SEAL DATE **QUOTE** # BUILDER PLAN THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. 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 russ delivery package or online @ sbcindustry.co





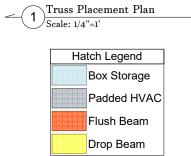
Dimension Notes

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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

Roof Area = 2520.35 sq.ft. Ridge Line = 83.84 ft. Hip Line = 0 ft. Horiz. OH = 138.55 ft. Raked OH = 214.23 ft. Decking = 87 sheets

All Walls Shown Are Considered Load Bearing

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



Products							
PlotID	Length	Product	Plies	Net Qty	Fab Type		
BM5	11' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	4	FF		
BM3	9' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF		
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF		
BM4	5' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF		

	Conne	Nail Info	ormation						
Sym	Product	Manuf Qty Supported Member		Header	Truss				
	HUS410	USP	15	Varies	16d/3-1/2"	16d/3-1/2"			
	MSH422	USP	7	Varies	10d/3"	10d/3"			
	HUS26	USP	5	Varies	16d/3-1/2"	16d/3-1/2"			

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.



COMTECH **ROOF & FLOOR** TRUSSES & BEAMS

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

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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
(4) PLY HEADER 3400 1 1700 1 2550 1 3400 2 6800 2 5100 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

Precision Custom Homes	COUNTY	Harnett	1900 3600 5300
Lot 1 Liberty Meadows	ADDRESS	Lot 1 Liberty Meadows	7 8 9
Roark 2.0 w/CP	MODEL	Floor	
6/21/2022	DATE REV.	6/28/2022	
Quote #	DRAWN BY	DRAWN BY Neil Baggett	
J0422-2179	SALESMAN	SALESMAN Neil Baggett	

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
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PLAN

SEAL DATE

QUOTE#

JOB

Precision Custor

BUILDER

JOB NAME

North Carolina 2018 - R402.1.5 Total UA

Property

Cameron, NC 28326 Model: Roark

Community: Liberty Meadows

Organization

Southern Energy Manager Justin Smith

Inspection Status
Results are projected



Builder

SMG Precision Properties

Template - SMG Precision - Liberty Meadows lot 1 - CZ 3 slab -Liberty Meadows lot 1

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	40.7	38.6
Above-Grade Walls	184.5	137.0
Windows, Doors and Skylights	101.5	90.8
Slab Floor:	75.7	98.4
Framed Floors	8.0	8.7
Foundation Walls	0.0	0.0
Rim Joists	8.4	6.8
Overall UA (Design must be equal or lower):	418.8	380.3

Requirements

	402.1.5	Total UA alternative compliance passes by 9.2%.	
	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.
\bigcirc	R402.5	Area-weighted average fenestration SHGC	
	R402.5	Area-weighted average fenestration U-Factor	
\bigcirc	R404.1	Lighting Equipment Efficiency	
	Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.	
\bigcirc	R403.3.1	Duct Insulation	
	403.3.3	Duct Testing	

Design exceeds requirements for North Carolina 2018 Prescriptive compliance by 9.2%.

Name:	Justin Smith	Signature:	Justin Smith
Organization:	Southern Energy Management	Digitally signed:	8/9/22 at 11:11 AM

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 -

CZ 3 slab - ecoSelect Liberty Meadows lot 1 Organization

Southern Energy Management

Justin Smith

Builder

SMG Precision Properties





General Building Informat	ion
Number Of Bedrooms	4
Number Of Floors	2
Conditioned Floor Area [sq. ft.]	2,490
Has Electric Vehicle Ready Space	No
Unconditioned, attached garage?	Yes
Conditioned Volume [cu. ft.]	22,290
Total Units in Building	1
Residence Type	Single family detached
Number of Floors in Building	- 1
Floor Number	-
Model	Roark
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	E Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
slab	Uninsulated	158	On Grade	1	0	1,185.0 ft²	Exposed Exterior	Conditioned Space

Slab Library	List						
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 Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 -CZ 3 slab - ecoSelect Liberty Meadows lot 1

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	170.0 ft²	Unconditioned, attached garage

Framed Flo	or Library List	
	Name	Effective R-value
R 19, 16"C	OC G1 Carpet	19.566

Rim Joist			
Name	Library Type	Surface Area	Location
1st floor ambient	R 19 G1, 16"OC	123.0 ft²	Exposed Exterior
1st floor garage	R 19 G1, 16"OC	28.0 ft²	Unconditioned, attached garage

Rim Joist Library L	List
Name	e 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	1,107.0 ft²	Exposed Exterior
1st floor garage	R 19 Adv. Framing G1 16" O.C	Medium	315.0 ft²	Unconditioned, attached garage
2nd floor ambient	R 19 Adv. Framing G1 16" O.C	Medium	1,040.0 ft²	Exposed Exterior
2nd floor attic	R 19 Adv. Framing G1 16" O.C	Medium	224.0 ft²	Attic

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 - CZ 3 slab - ecoSelect Liberty Meadows lot 1

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties



erty Meadows lot 1		

Wall Library List	
Nam	ne Effective R-value
R 19 Adv. Framing G1 16" O.0	C 17.492

Inspection Status

Results are projected

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	is Operable	Overhang Depth	Overhang Ft To Overhang Top	erhang Ft To Bottom	Orientation	Surface Area
front 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	North	53.4 ft²
front shaded	33/28	1st floor ambient		Yes	6	1	5	North	9.6 ft²
front unshaded	33/28	1st floor ambient		Yes	0	0	0	North	13.4 ft²
rear 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	South	60.9 ft²
rear unshaded	33/28	1st floor ambient		Yes	0	0	0	South	96.1 ft²
right unshaded	33/28	1st floor ambient		Yes	0	0	0	West	18.6 ft²

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

Skylight			
	None Present		

Skylight Library List	
	None Present

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 - CZ 3 slab - ecoSelect Liberty Meadows lot 1

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



Opaque Doo	r							
Name	Library Type	Wall Assignment	Foundation Wall Assignment		Solar Absorptance		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 L	ibrary List	
	Name	Effective U-factor
Fiberglas	s R-5	0.200

Roof Insulati	on					
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles		Surface Area	Location
attic	R 38 Attic BLOWN FG G1 2x10 24"OC NO Radiant Barrier	1,991.85	No	Dark	1,355.0 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	Infiltration		
Infiltration	Measurement Type	Shelter Class	ss
1783 CFM at 50 Pa	Blower-door tested	4	4

N/I	00	han	ica	1 1	lan	4il	24	ion	
IVI	ec	nan	ICA	ıν	еп	ш	al	юп	

None Present

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 - CZ 3 slab - ecoSelect Liberty Meadows lot 1

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



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

	Ligiting					
	% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
	0	90	0	0	0	0
ľ						
	Onsite Gener					
		•	lone Present			
	Onsite Gener	ation Library List				
		•	lone Present			
	Solar Genera	tion				
		h	lone Present			
	Dehumidifier					
		•	lone Present			
	Dehumidifier					
		h	lone Present			

Whole House Fan	
	None Present

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 -CZ 3 slab - ecoSelect Liberty Meadows lot 1

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



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		48%	48%	0%	Attic
2nd floor heat pump	z 24k 14 SEER 8.2hspf		52%	52%	0%	Attic
Water Heating	z 50 gal. 0.95 EF Elec		0%	0%	100%	Unconditioned Garage

Equipment Type: z 24k 14	SEER 8.2hspf
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

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			

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 - CZ 3 slab - ecoSelect Liberty Meadows lot 1

Organization Southern Energy Management

Justin Smith

Builder

SMG Precision Properties



Inspection Status

Results are projected

Distribution Type Heating Equipment	Forced Air
	1st floor heat pump
Cooling Equipment	1st floor heat pump
Sa. Feet Served	1.185
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	319.95
Return Duct Area [ft²]	118.5
_eakage to Outdoors	47 CFM @ 25Pa (3.97 / 100 ft²)
Total Leakage	47 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Jse Default Flow Rate	Yes
Ouct 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

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 -CZ 3 slab - ecoSelect Liberty Meadows lot 1

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



,	
Distribution System	
Distribution Type	Forced Air
Heating Equipment	2nd floor heat pump
Cooling Equipment	2nd floor heat pump
Sq. Feet Served	1,305
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	268.11
Return Duct Area [ft²]	99.3
Leakage to Outdoors	52 CFM @ 25Pa (3.98 / 100 ft2)
Total Leakage	52 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	

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Liberty Meadows lot 1

Template - SMG Precision - Liberty Meadows lot 1 - CZ 3 slab - ecoSelect

Organization Southern Energy Management Justin Smith

Inspection Status

Results are projected

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

Property Cameron, NC 28326 Model: Roark Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows lot 1 -CZ 3 slab - ecoSelect

Liberty Meadows lot 1

Organization

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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 _____MS 06/30/22_

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