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

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

06/28/2023

Harnett
C 0 U N T Y
NORTH CAROLINA

See foundation page

FRONT ELEVATION

Scale: 1/4" = 1'0"

9'0" CEILING HEIGHT FIRST FLOOR (HEADER HEIGHT 7'6") 8'0" CEILING HEIGHT SECOND FLOOR Frame Headers (2x10's) to top plates FRAME WINDOWS TO HEADER HEIGHT





REAR ELEVATION

Scale: 1/8" = 1'0"



ELEVATIONS

SHEET TITLE:

PROJECT ADDRESS: 100 Sears Dr. Liberty Meadows Lot 23

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

RIGHT ELEVATION

Scale: 1/8" = 1'0"

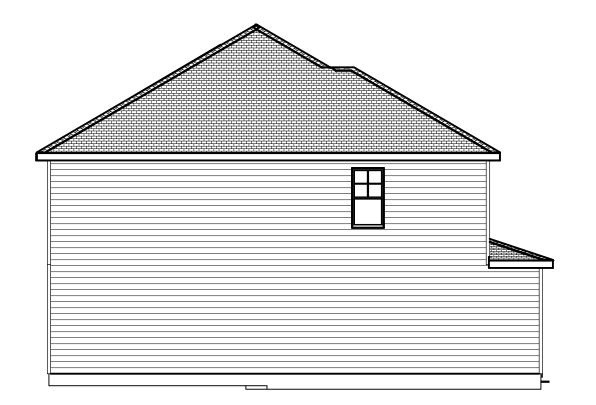
DATE:

5/23/23 SCALE:

1/4" = 1'

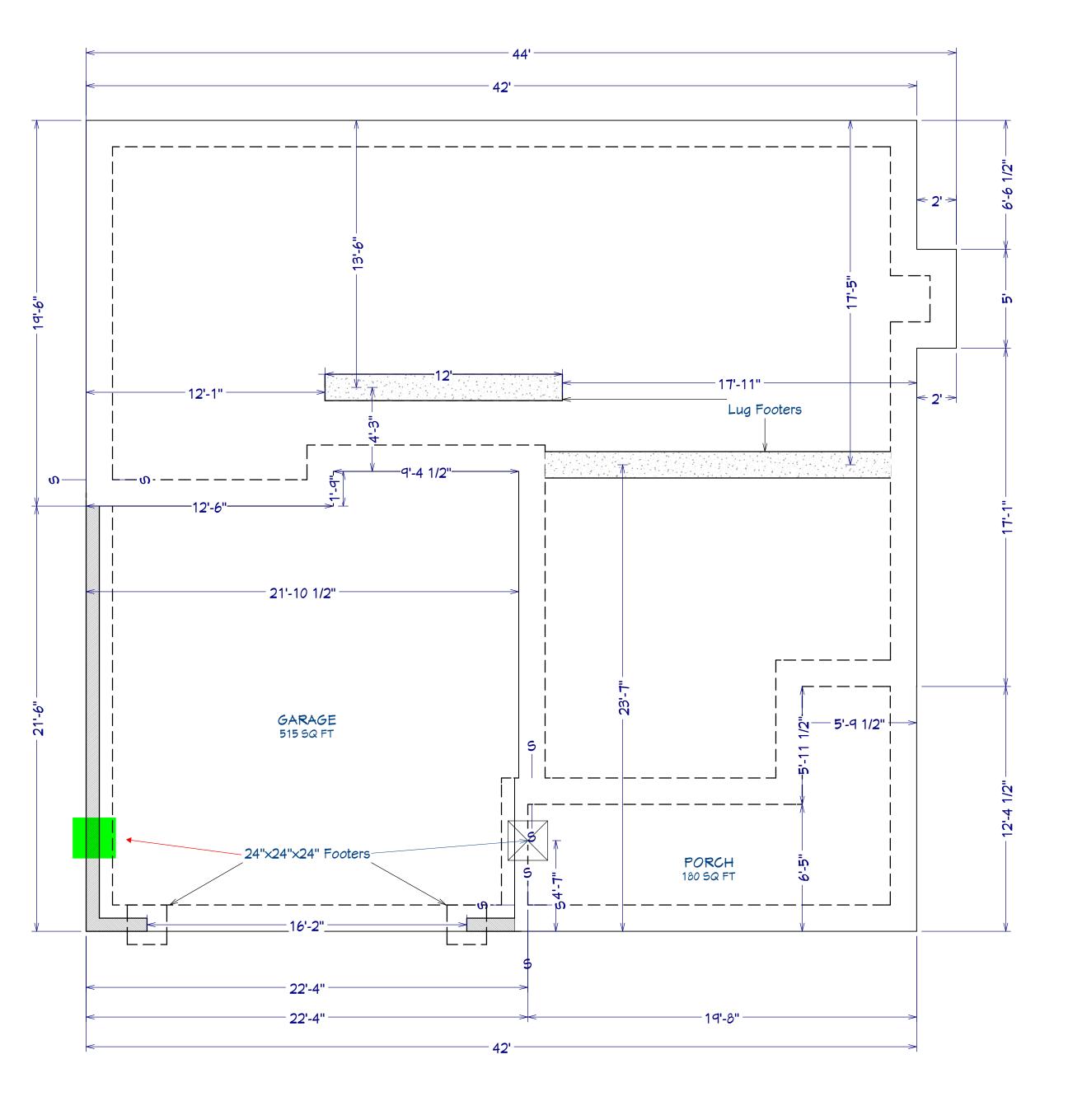
SHEET:

A-1



LEFT ELEVATION

Scale: 1/8" = 1'0"



AREA SCHEDULE

NAME

1st FLOOR

2nd FLOOR

1,410 SF

GARAGE

COVERED FRONT PORCH 164 SF

TOTAL HEATED

2,480 SF

TOTAL UNDER ROOF

3,133 SF

FOUNDATION PLAN

Scale: 1/4" = 1'0"

PLAN: Hayek

FOUNDATION

SHEET TITLE:

PROJECT ADDRESS: 100 Sears Dr. Liberty Meadows Lot 23

DESIGNED BY:
recision Custom Homes
Raeford, NC

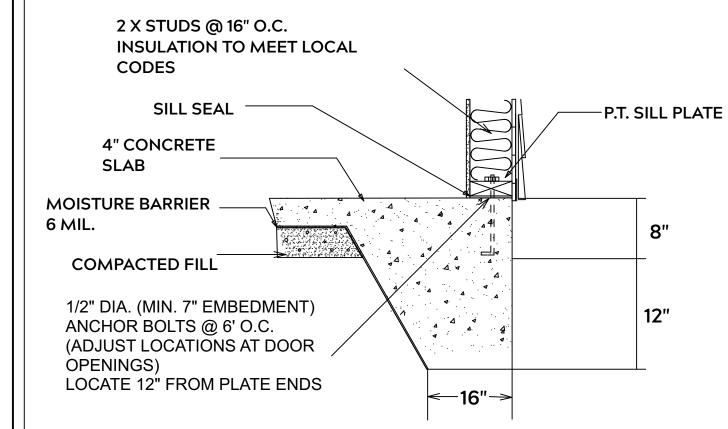
DATE:

5/23/23

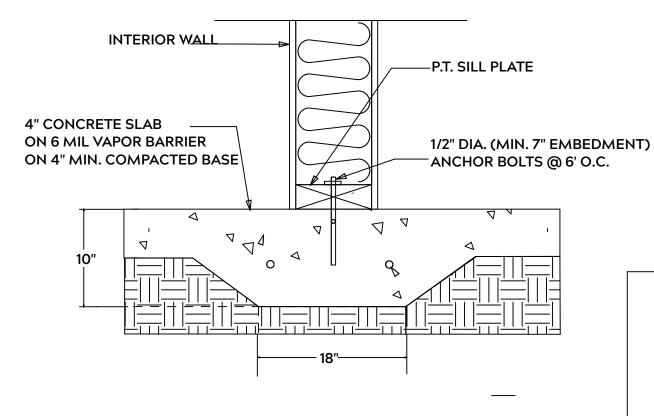
SCALE:

1/4" = 1'

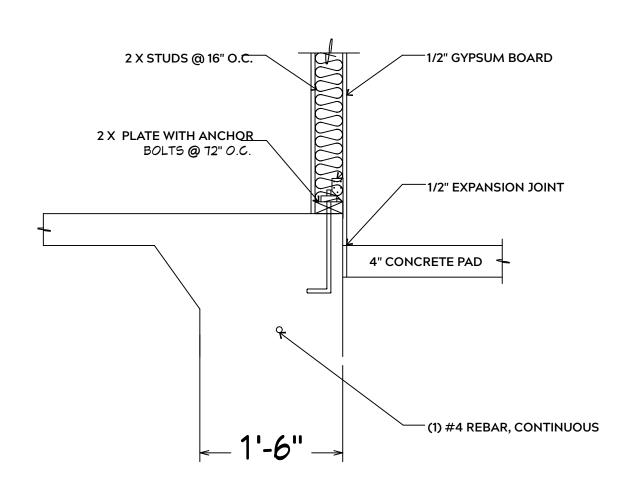
SHEET:



MONOLITHIC SLAB



LUG FOOTING



FOUNDATION NOTES:

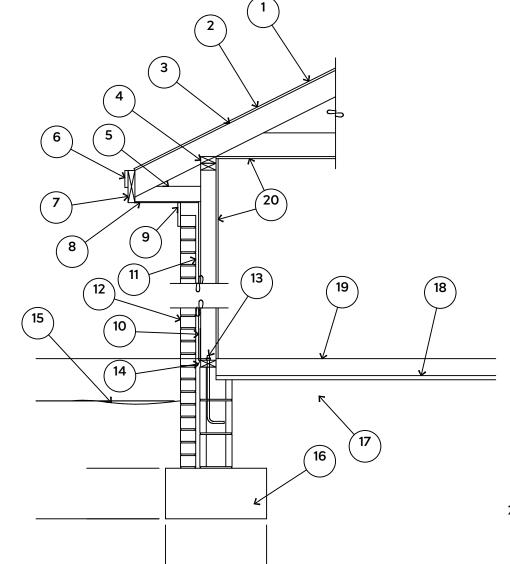
ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL THE 28 DAY COMPRESSIVE STRENGTH OF ALL **FOOTINGS IS 3000 PSI**

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

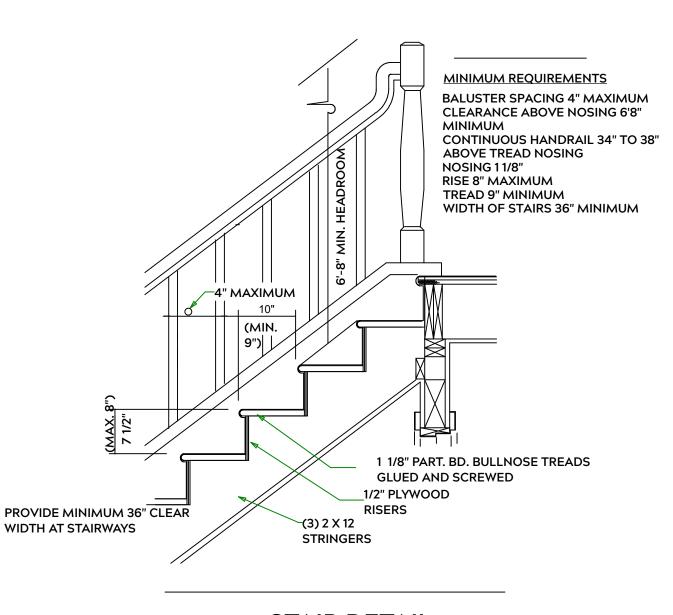
17. COMPACTED EARTH FILL

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: Hayek

> SHEETS AIL

ET

23 Lot PROJECT ADDRES 100 Sears Dr Liberty Meadows

Precision Custom Hor Raeford, NC @PrecisionCustomHor

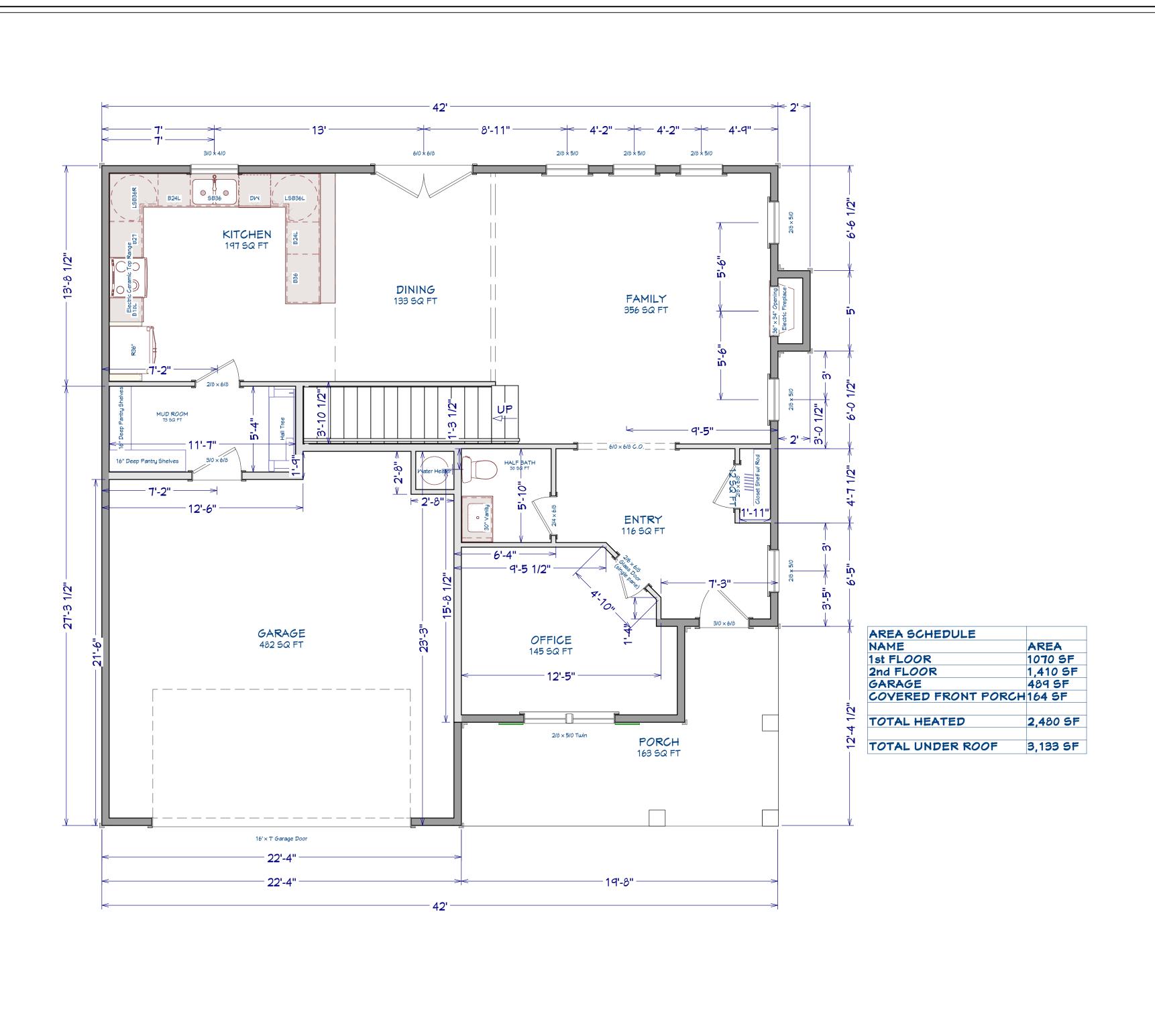
DATE:

SCALE:

1/4" = 1'

5/23/23

SHEET:



PLAN: Hayek

1st FLOOR

PROJECT ADDRESS: 100 Sears Dr. Liberty Meadows Lot 23

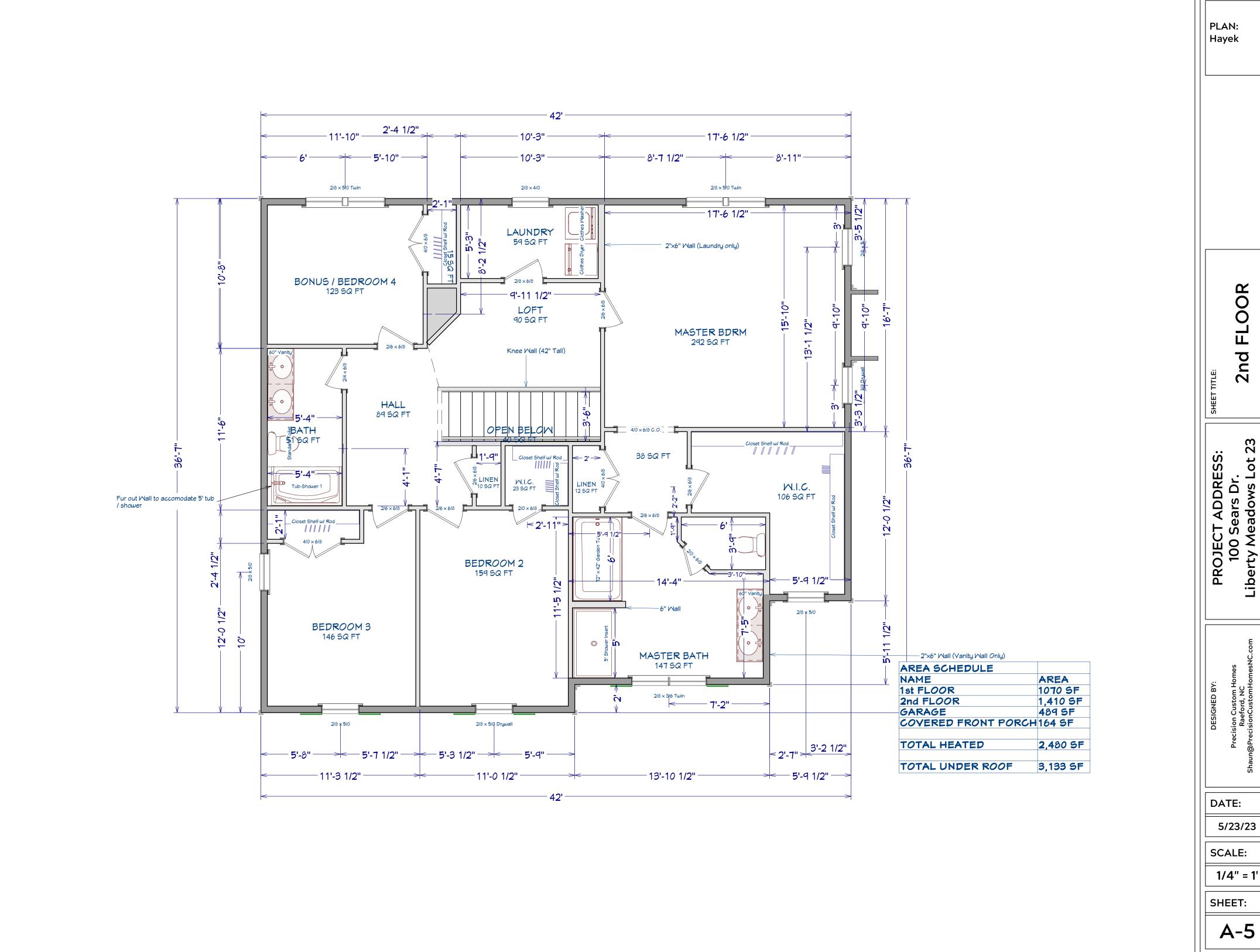
stom Homes rd, NC istomHomesNC.com

DATE:

5/23/23

SCALE: 1/4" = 1'

SHEET:



PLAN: Hayek

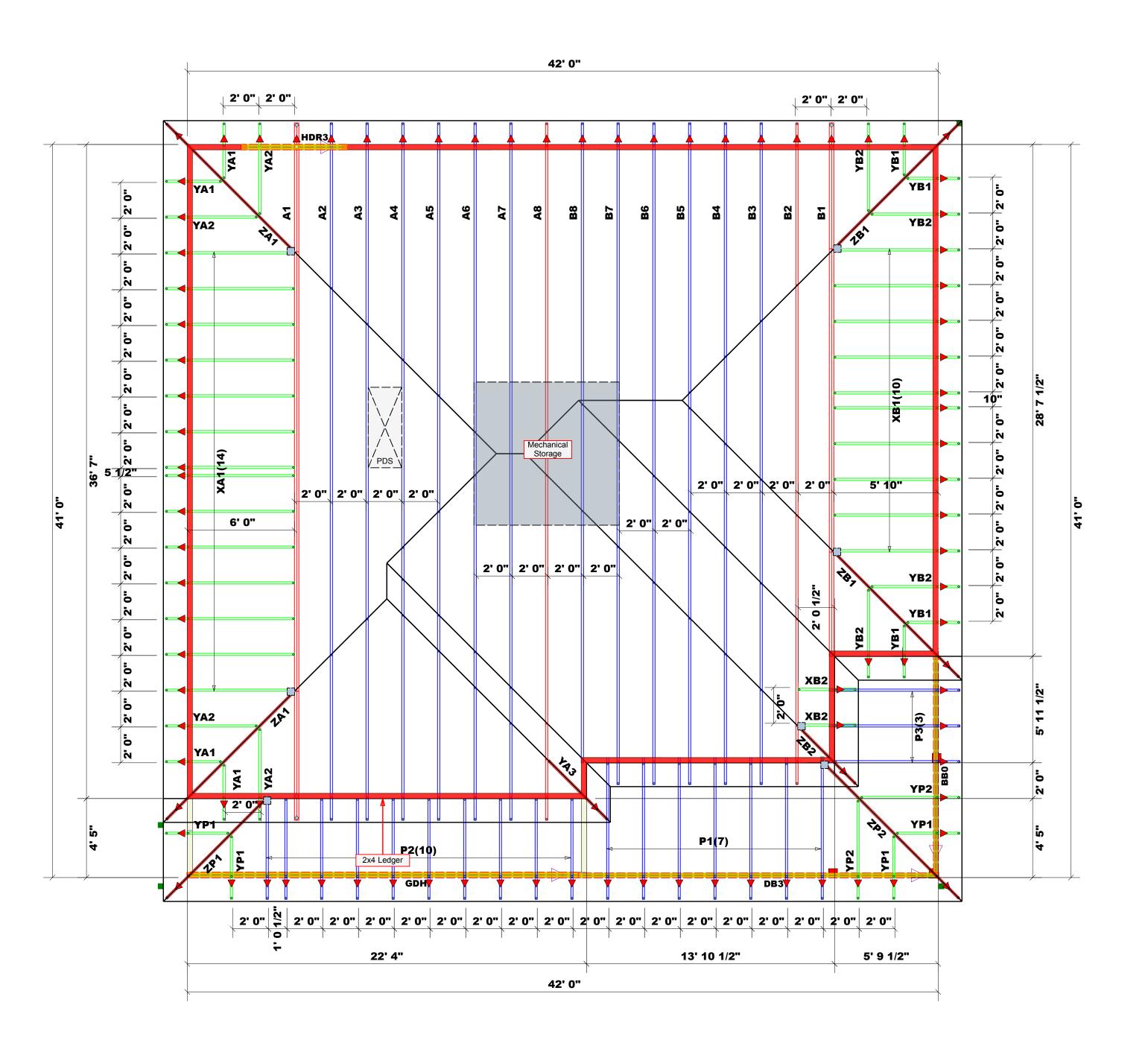
2nd FLOOR

23 PROJECT ADDRESS: 100 Sears Dr. Liberty Meadows Lot 23

Precision Custom Hom Raeford, NC n@PrecisionCustomHom

DATE:

SCALE:



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

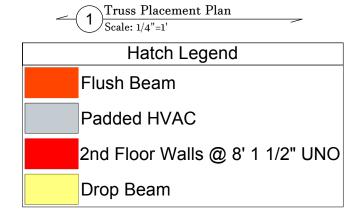
Plumbing Drop Notes

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.

Roof Area = 2533.62 sq.ft.
Ridge Line = 20.42 ft.
Hip Line = 180.1 ft.
Horiz. OH = 254.58 ft.
Raked OH = 26 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



	Conne	INAII IIIIC	Jillation			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HJC26	USP	7	Varies	16d/3-1/2"	10d/3"
\bigcirc	MSH422	USP	3	Varies	10d/3"	10d/3"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
DB2	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
HDR2	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
HDR1	6' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
FB1	23' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF
DB3	22' 0"	2x12 SP No.2	2	2	FF

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
HDR3	6' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF

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



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#.

No:I Da

Neil Baggett

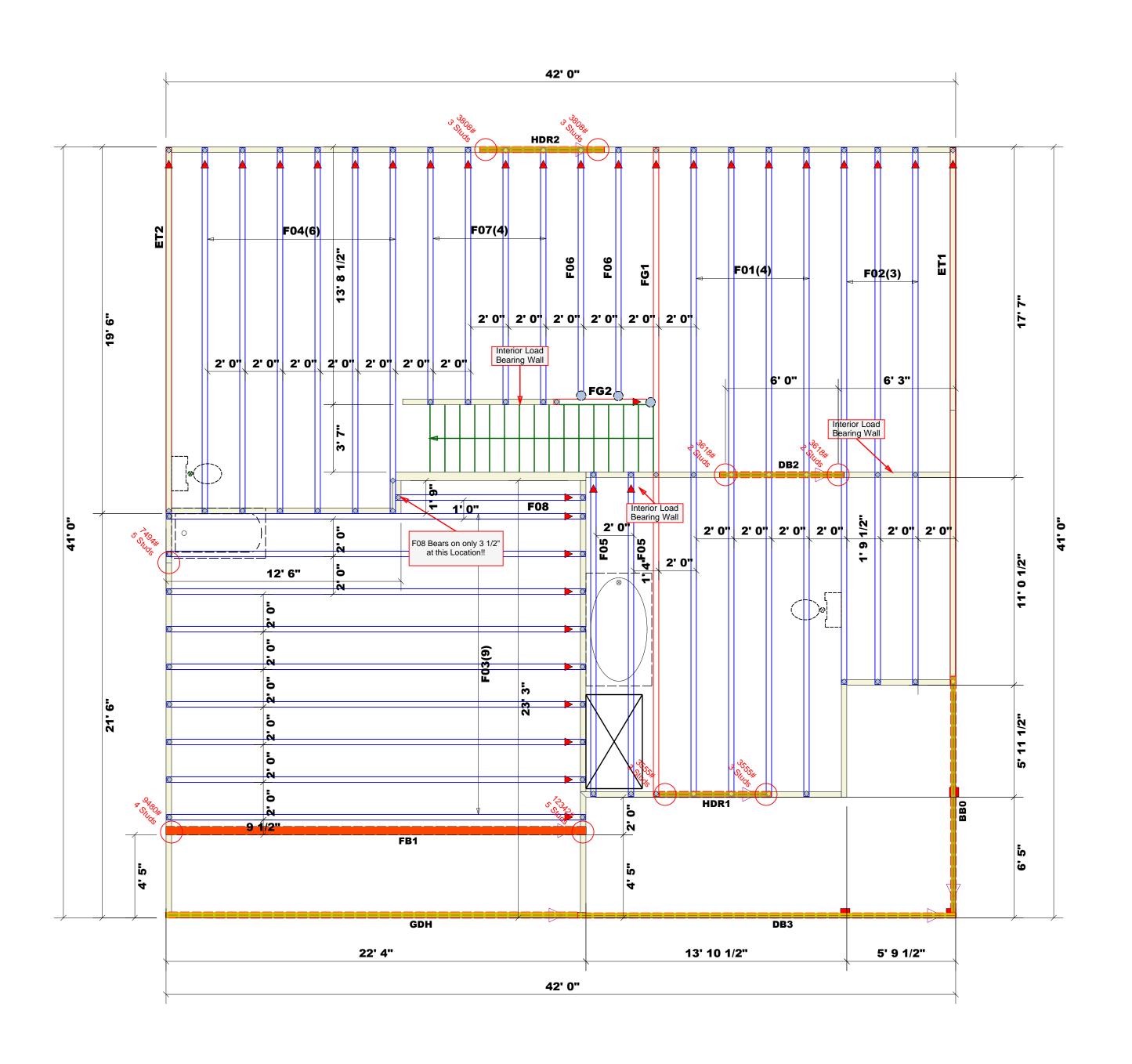
LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

NUI	MREK C)F JAC	HEADER/		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					

COUNTY	Harnett
ADDRESS	100 Sears Dr.
MODEL	Roof
DATE REV.	6/14/2023
DRAWN BY	Neil Baggett
SALESMAN	SALESMAN Neil Baggett

BUILDERPrecision Custom HomesCOUNTYHoJOB NAMELot 23 Liberty MeadowsADDRESS10PLANHayekMODELRoSEAL DATE5/23/2023DATE REV.6/QUOTE #N/ADRAWN BYNeJOB #JO623-3078Ne

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 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 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

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 Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
 Adjust spacing as needed not to exceed 24"oc.

Roof Area = 2533.62 sq.ft. Ridge Line = 20.42 ft. Hip Line = 180.1 ft. Horiz. OH = 254.58 ft. Raked OH = 26 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

 $- \underbrace{ 1 \frac{Truss\ Placement\ Plan}{Scale:\ 1/4"=1'} }$ Hatch Legend Flush Beam Padded HVAC 2nd Floor Walls @ 8' 1 1/2" UNO Drop Beam

	Conne	Nail Info	rmation			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HJC26	USP	7	Varies	16d/3-1/2"	10d/3"
	MSH422	USP	3	Varies	10d/3"	10d/3"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
DB2	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
HDR2	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
HDR1	6' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
FB1	23' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF
DB3	22' 0"	2x12 SP No.2	2	2	FF

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
HDR3	6' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF

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



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



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

Neil Baggett

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

	(B	ASED O	N TABLES	5 R502.	.5(1) å (l	((د	
NUA	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		

Precision Custom Homes	COUNTY	Harnett	13600 15300
Lot 23 Liberty Meadow	ADDRESS	100 Sears Dr.	9
Науек	WODEL	Floor	
5/23/2023	DATE REV.	6/14/2023	
N/A	DRAWN BY	DRAWN BY Neil Baggett	
J0623-3079	SALESMAN Neil Baggett	Neil Baggett	

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

JOB NAME

BUILDER

SEAL DATE

QUOTE#

North Carolina 2018 - R402.1.5 Total UA

Property Sears Dr Cameron, NC 28326 Model: Hayek

Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab -Liberty Meadows Lot 27 Organization Southern Energy M

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	42.3	40.2
Above-Grade Walls	177.3	131.7
Windows, Doors and Skylights	127.7	115.2
Slab Floor:	74.0	95.9
Framed Floors	16.0	17.4
Foundation Walls	0.0	0.0
Rim Joists	8.7	7.0
Overall UA (Design must be equal or lower):	446.0	407.4

Requirements

R402.1.5	Total UA alternative compliance passes by 8.7%.	The proposed home meets the UA requirement by 8.7%
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 8.7%.

Name:	Justin Smith	Signature:	Justin Smith
Organization:	Southern Energy Management	Digitally signed:	3/30/23 at 11:56 AM

Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect Liberty Meadows Lot 27

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties





General Building Information	n
Number Of Bedrooms	4
Number Of Floors	2
Conditioned Floor Area [sq. ft.]	2,480
Has Electric Vehicle Ready Space	No
Unconditioned, attached garage?	Yes
Conditioned Volume [cu. ft.]	21,980
Total Units in Building	1
Residence Type	Single family detached
Number of Floors in Building	-
Floor Number	-
Model	Hayek
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	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
	slab	Uninsulated	156	On Grade	1	0	1,070.0 ft²	Exposed Exterior	Conditioned Space

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

Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect Liberty Meadows Lot 27

Organization Southern Energy Management Justin Smith

Builder SMG Precision Properties Inspection Status Results are projected



Framed Floo	r				
Name	e Library Type	Carpet R	Floor Grade	Surface Area	Location
over ambient	R 19, 16"OC G1 Carpet	0	Above Grade	89.0 ft²	Exposed Exterior
over garage	R 19, 16"OC G1 Carpet	0	Above Grade	251.0 ft²	Unconditioned, attached garage

Frame	ed Floor Library List	
	Name	Effective R-value
R	R 19, 16"OC G1 Carpet	19.566

Rim Joist			
Name	Library Type	Surface Area	Location
1st floor ambient	R 19 G1, 16"OC	116.0 ft²	Exposed Exterior
1st floor garage	R 19 G1, 16"OC	40.0 ft²	Unconditioned, attached garage

Rim Joist Library List			
Name	Effective Insulation R-value		
R 19 G1, 16"OC	17.30		

Nall				
Name	Library Type	Surface Color	Surface Area	Locatio
1st floor ambient	R 19 Adv. Framing G1 16" O.C	Medium	1,044.0 ft²	Exposed Exterio
1st floor garage	R 19 Adv. Framing G1 16" O.C	Medium	360.0 ft²	Unconditioned, attached garag
2nd floor ambient	R 19 Adv. Framing G1 16" O.C	Medium	1,264.0 ft²	Exposed Exterio

Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect

Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Liberty Meadows Lot 27

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



Wall Library List	
Name	Effective R-value
P 19 ∆dy Framing G1 16" ∩ C	17 492

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	ls Operable	Overhang Depth	Overhang Ft To Ov Top	erhang Ft To Bottom	Orientation	Surface Area
front 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	Southeast	59.4 ft²
front shaded	33/28	1st floor ambient		Yes	6	1	6	Southeast	27.0 ft²
left 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	Southwest	13.5 ft²
rear 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	Northwest	64.8 ft²
rear shaded	33/28	1st floor ambient		Yes	10	2	9	Northwest	40.2 ft²
rear unshaded	33/28	1st floor ambient		Yes	0	0	0	Northwest	52.5 ft²
right 2nd unshaded	33/28	2nd floor ambient		Yes	0	0	0	Northeast	27.0 ft²
right unshaded	33/28	1st floor ambient		Yes	0	0	0	Northeast	40.5 ft²

Shgc	U-factor	
0.28	0.330	
	Shgc 0.28	

Skyli	ght			
		None Present		

Skylight Library List

None Present

Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Organization Southern Energy Management Justin Smith

Builder SMG Precision Properties Inspection Status Results are projected



Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect Liberty Meadows Lot 27

Opaque Door								
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	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	20.0 ft²	Unconditioned, attached garage

Opaque [Door Library List	
	Name	Effective U-factor
	Fiberglass R-5	0.200

Roof Insulat	ion					
Name	e 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	2,072.7	No	Dark	1,410.0 ft²	Attic

Roof Insulation	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
1758 CFM at 50 Pa	Blower-door tested	4

Mechanical Ventilation

None Present

Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Justin Smith Builder SMG Precision Properties

Organization Southern Energy Management

Inspection Status Results are projected



Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect Liberty Meadows Lot 27

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 Genera	tion				
	No	one Present			
Onsite Genera	tion Library List	one Present			
l	No	one Present			
Solar Generati		one Present			
l					
Dalamai diffan	_	_	_	_	
Dehumidifier	No	one Present			
l .					
Dehumidifier L		one Present			
1	NO	one Fresent			
Whole House F					
	No	one Present			

Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect Liberty Meadows Lot 27

Organization

Southern Energy Management Justin Smith

Builder

SMG Precision Properties



Whole House Fan Library List

None Present

Conditioning	Equipment					
Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	
1st floor heat pump	z 24k 14 SEER 8.0hspf		43%	43%	0%	Attic
2nd floor heat pump	z 24k 14 SEER 8.0hspf		57%	57%	0%	Attic
Water Heating	z 50 gal. 0.95 EF Elec		0%	0%	100%	Unconditioned Garage

Inspection Status

Results are projected

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				

Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Organization Southern Energy Management Justin Smith

Inspection Status

Results are projected

Builder

SMG Precision Properties



Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect Liberty Meadows Lot 27

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	1,070
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	288.9
Return Duct Area [ft²]	107
Leakage to Outdoors	42 CFM @ 25Pa (3.93 / 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	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	v
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	v
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	ū
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Supply Area Percent Return Area	0
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Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect Liberty Meadows Lot 27

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Builder

SMG Precision Properties



Distribution System	
	5 14:
Distribution Type	Forced Air
Heating Equipment	2nd floor heat pump
Cooling Equipment	2nd floor heat pump
Sq. Feet Served	1,410
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	380.7
Return Duct Area [ft²]	141
Leakage to Outdoors	56 CFM @ 25Pa (3.97 / 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	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Supply Area Percent Return Area	0
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HVAC	: Grading

HVAC Grading Not Conducted

Ceiling Fan		
Has Ceiling Fan	No	
Cfm Per Watt	100	

Property Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Liberty Meadows Lot 27

Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect

Organization

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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]	78
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 Sears Dr Cameron, NC 28326 Model: Hayek Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 27 - CZ 4 slab - ecoSelect Liberty Meadows Lot 27

Organization

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Builder

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 03/30/23_

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

