

FRONT ELEVATION

Scale: 1/4" = 1'0"

9'0" CEILING HEIGHT FIRST FLOOR (HEADER HEIGHT 7'6") 8'0" CEILING HEIGHT SECOND FLOOR (Frame 2x10 Headers directly below top plate)

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: Anconia

ELEVATIONS

HEET TITLE:

PROJECT ADDRESS: TBD Edes Ct. Liberty Meadows Lot 30

stom Homes d, NC stomHomesNC.com

Precision Custom Hom Raeford, NC haun@PrecisionCustomHom

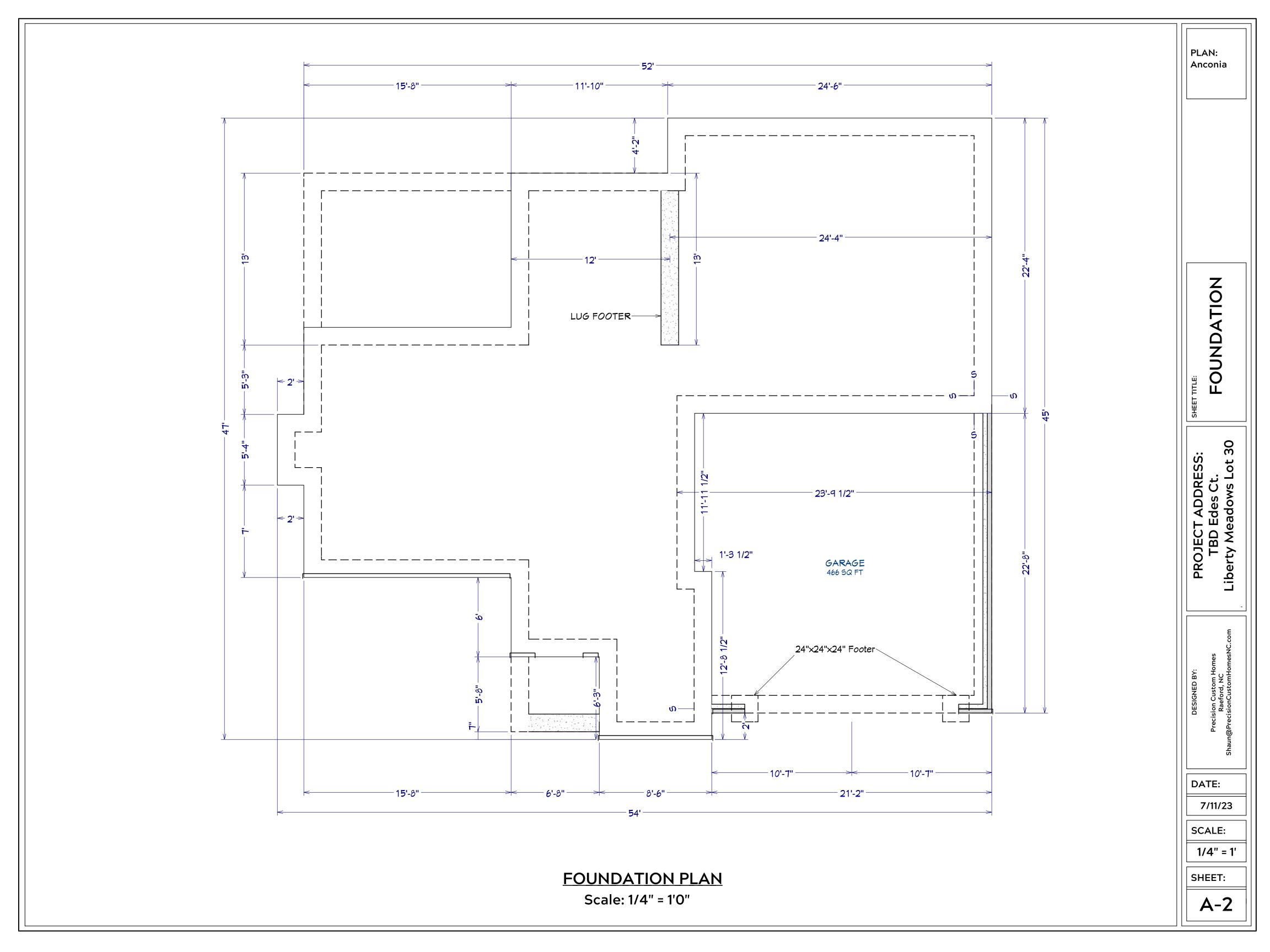
DATE:

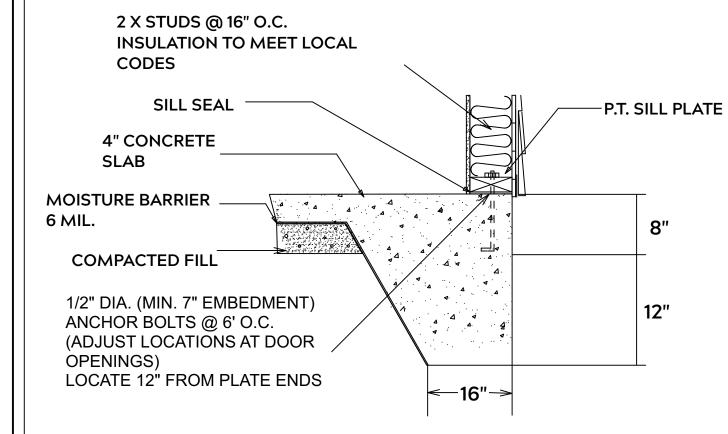
7/11/23

SCALE:

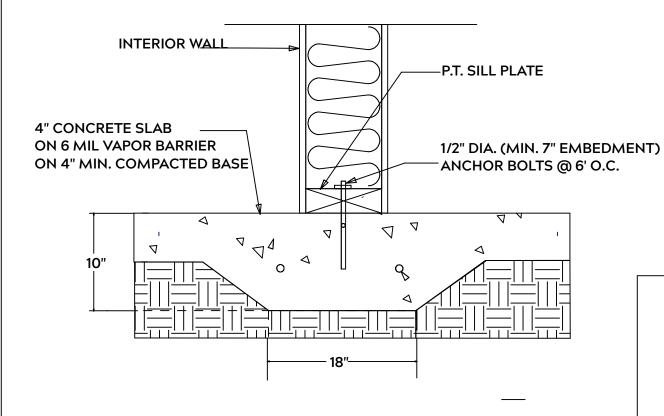
1/4" = 1'

SHEET:

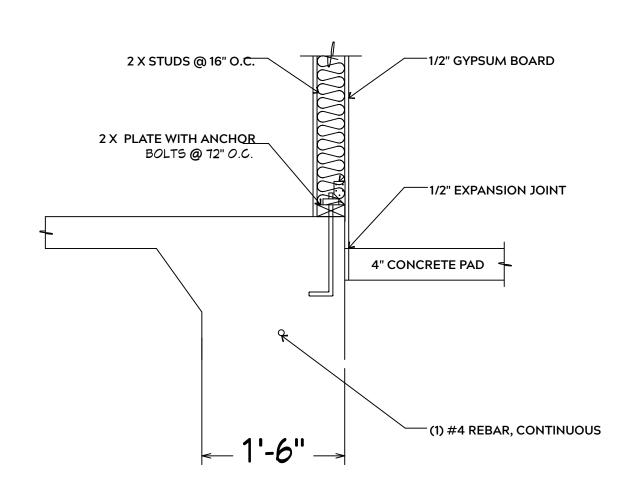




MONOLITHIC SLAB



LUG FOOTING



FOUNDATION NOTES:

GENERAL FRAMING NOTES:

TO ITS ORIGINAL CAPACITY

AND USE 3 X 16d NAILS 2" IN AT EACH END.

PRESSURE TREATED

AND / OR KILN DRIED

ENGINEER

TREATED

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

ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALLE BE

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

SHALL PROVIDE DRAWINGS / SCHEMATICS, WHICH SHALL BEAR OF A N.C.

STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING

NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16d NAILS STAGGERED 32" O.C.

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

ALL EXPOSED FRAMING ON PORCHES OR DECKS SHALL BE PRESSURE

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

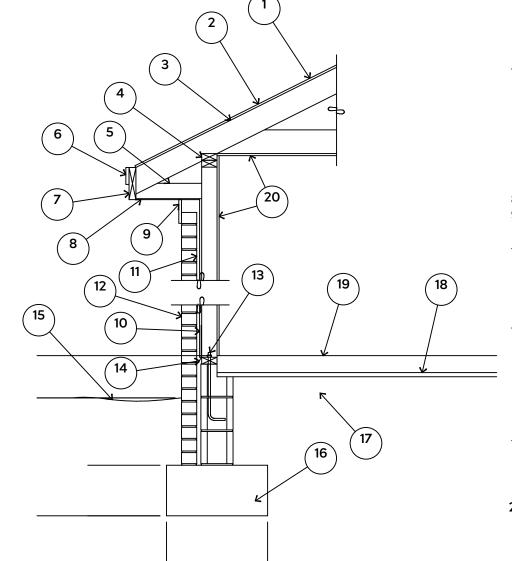
PROVIDE WATERPROOFING AND DRAINS AS REQUIRED

STUDS AS NECESSARY UNDER HEADERS AS REQUIRED

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

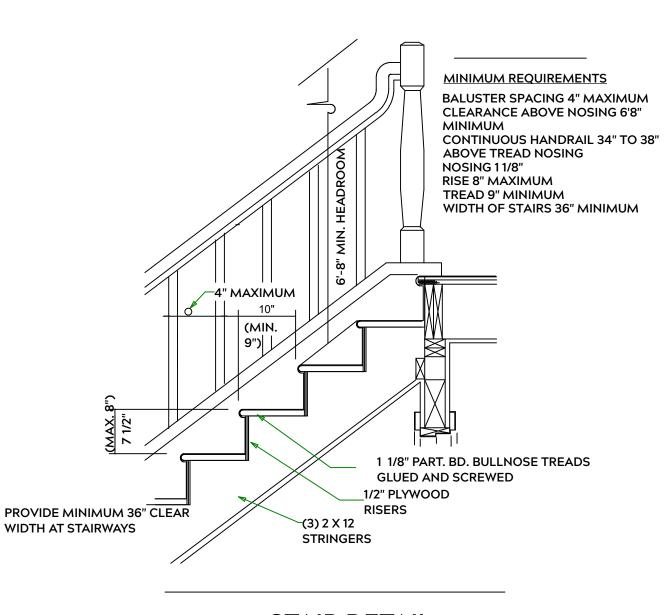
WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN MEMBER

WHERE PRE-ENGINEERED JOISTS AND TRUSSES ARE USED, MANUFACTURER



- 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 FASCIA8. 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.
- 14. FLASHING WITH WEEP HOLES @ 48" O.C.
- 15. FINISHED GRADE.
- 16. FOOTING
- 17. COMPACTED EARTH FILL
- 18. 6 MIL. VAPOR BARRIER
- 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

INTERIOR WALL @ GARAGE STEP DOWN

PLAN: Anconia

ETAIL SHEETS

PROJECT ADDRESS: TBD Edes Ct. Liberty Meadows Lot 30

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Precision Custom Homes Raeford, NC aun@PrecisionCustomHomesN

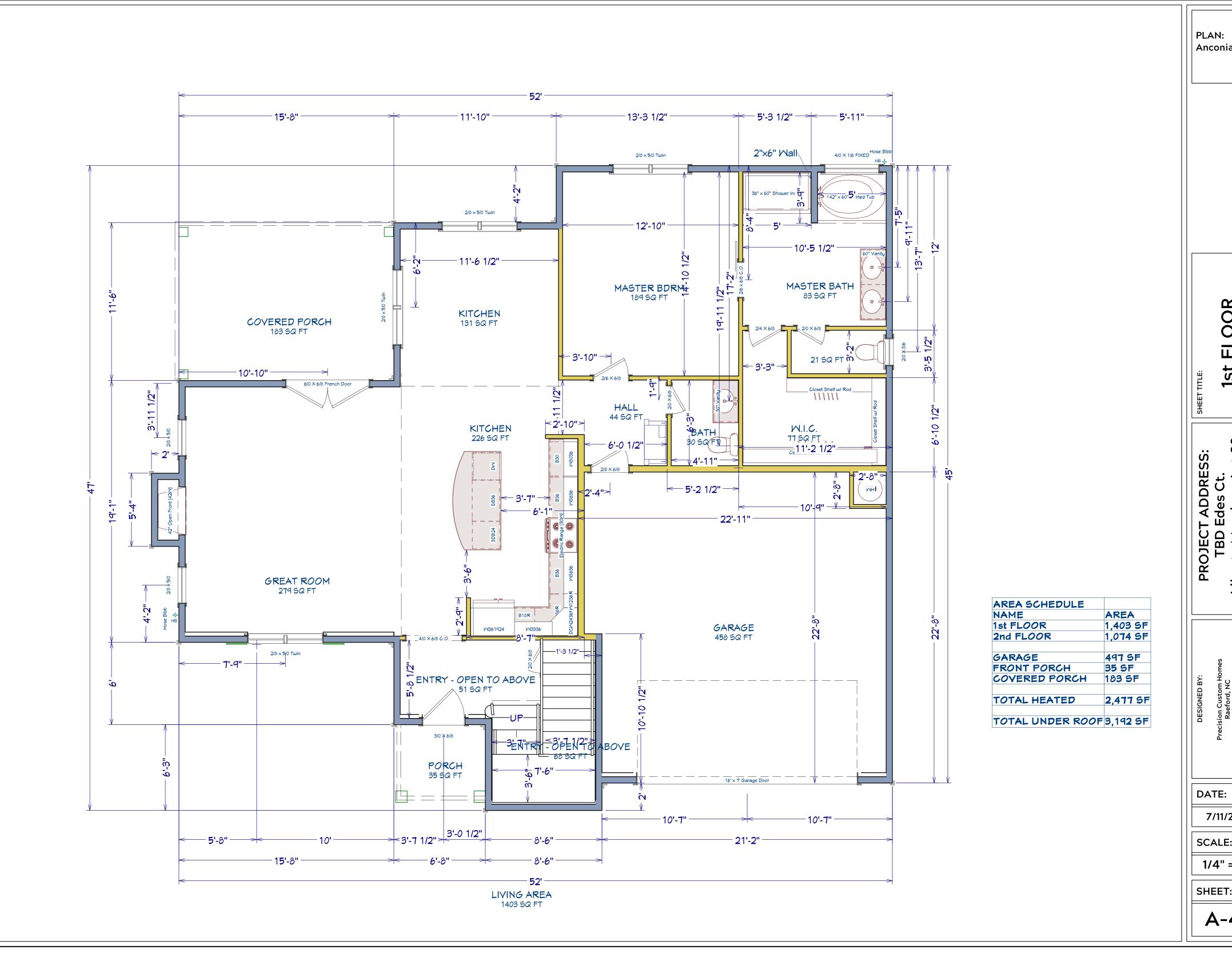
DATE:

7/11/23

SCALE:

1/4" = 1'

SHEET:



Anconia

FLOOR st

30

Liberty Meadows Lot

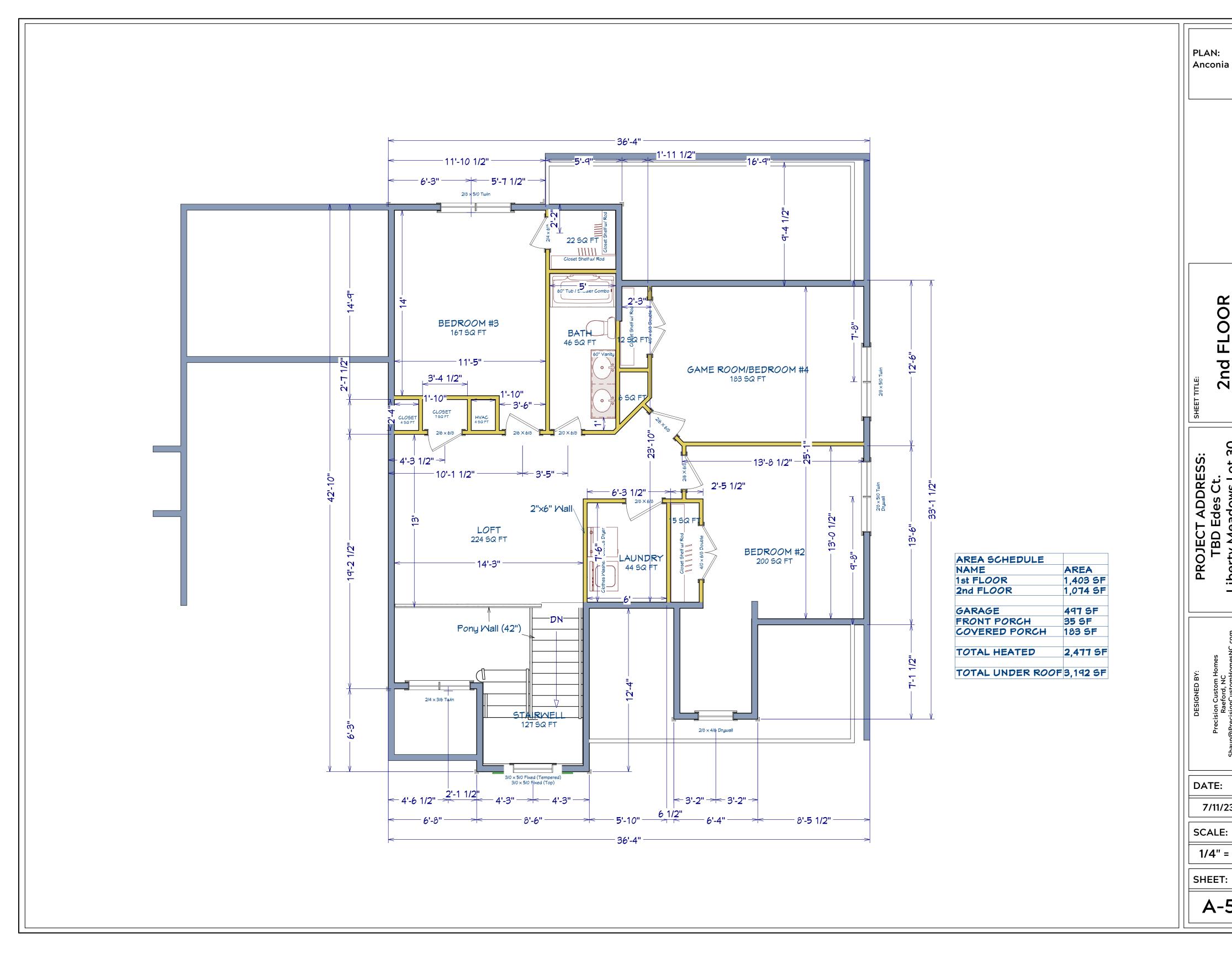
Precision Custom Hom Raeford, NC n@PrecisionCustomHom

7/11/23

SCALE:

1/4" = 1'

SHEET:



PLAN: Anconia

2nd FLOOR

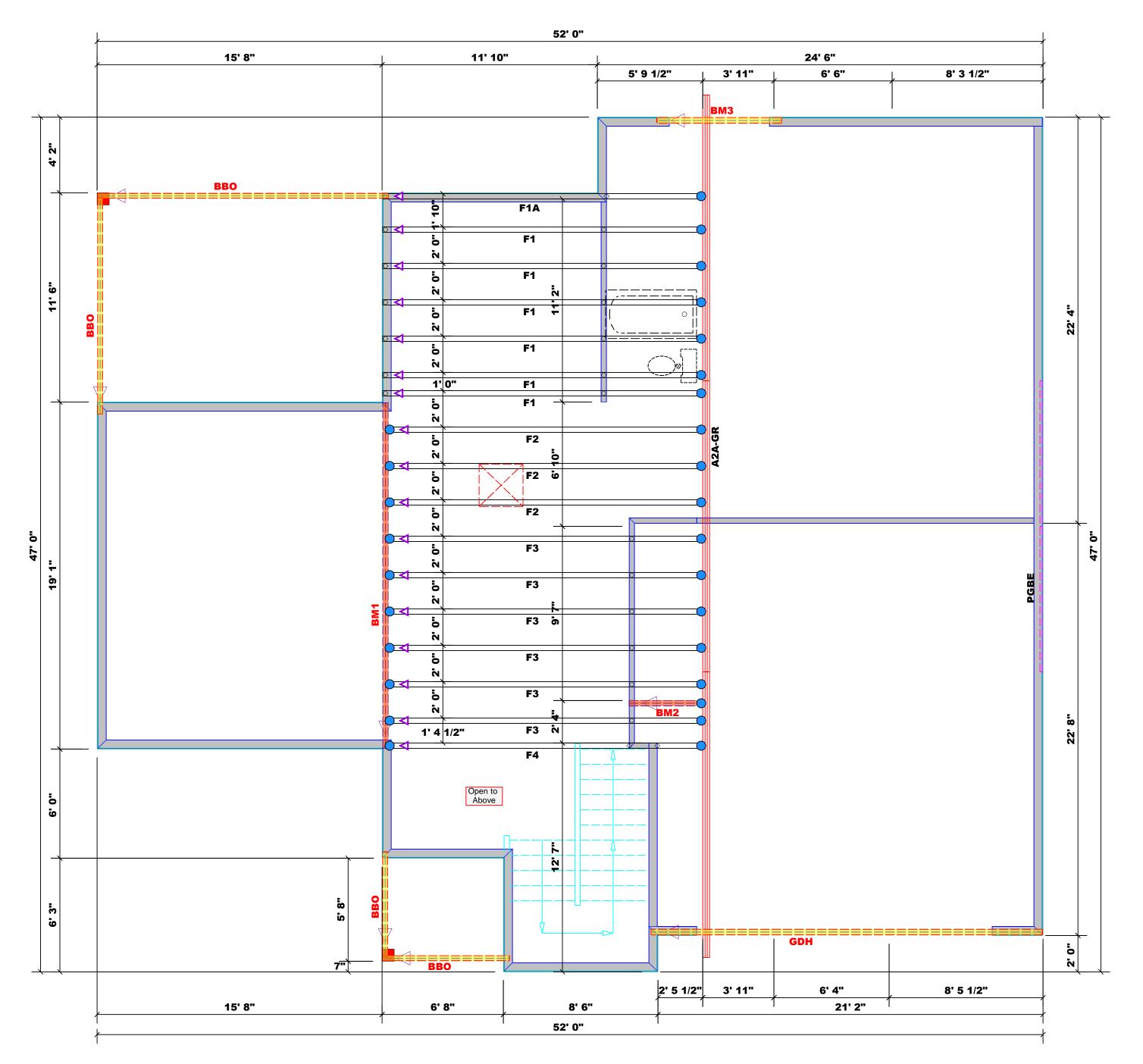
30 PROJECT ADDRESS: TBD Edes Ct. Liberty Meadows Lot

DATE:

7/11/23

1/4" = 1'

SHEET:



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

All Walls Shown Are Considered Load Bearing

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.

		Conne	Nail Information				
S	ym	Product	Manuf	Qty	Supported Member	Header	Truss
		HUS410	USP	28	NA	16d/3-1/2"	16d/3-1/2"

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

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

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

соттесн **ROOF & FLOOR TRUSSES & BEAMS**

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

earing reactions less than or equal to 3000# are seemed to comply with the prescriptive Code equirements. The contractor shall refer to the tached Tables (derived from the prescriptive Code quirements) to determine the minimum foundation are and number of wood studs required to support actions greater than 3000# but not greater than 5000#. A registered design professional shall be tained to design the support system for any faction that exceeds those specified in the attached ables. A registered design professional shall be tained to design the support system for all factions that exceed 15000#.

David Landry

David Landry

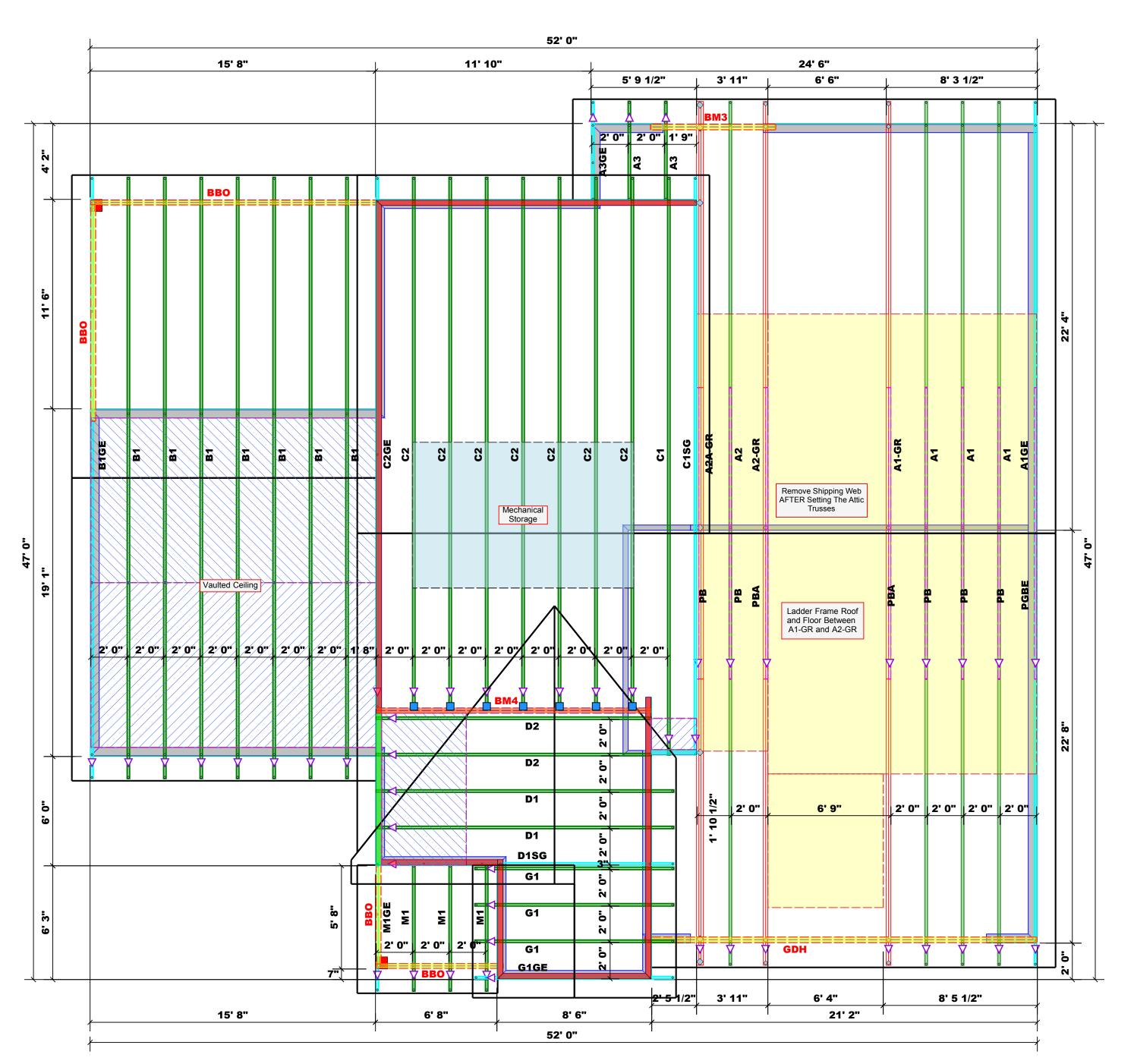
LOAD CHART FOR JACK STUDS (RASED ON TARIES 0502 5(1) & (b))

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

CITY ADD MOI DAT DRA Precision Custom Homes and Renc JOB NAME BUILDER

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



Dimension Notes

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

All Walls Shown Are Considered Load Bearing

Roof Area = 2878.47 sq.ft. Ridge Line = 77.6 ft. Hip Line = 0 ft. Horiz. OH = 131.95 ft. Raked OH = 221.96 ft. Decking = 99 sheets

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

	Conne	ctor Info	rmat	on	Nail Info	ormation
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	7	NA	16d/3-1/2"	16d/3-1/2"

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

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

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

ROOF & FLOOR TRUSSES & BEAMS

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

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, David Landry

David Landry

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

					o (-) or (-	-,,					
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER											
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)	REO'D STUDS FOR				
700	1		2550	1		3400					
3400	2		5100	2		6800	- 7				
5100	3		7650	3		10200					
800	4		10200	4		13600					
3500	5		12750	5		17000					
0020	6		15300	6							
1900	7										
3600	8										
5300	9										

AC DR AC DR	ADDRESS MODEL DATE REV. DRAWN BY	ovations CITY / CO. Cameron / Harnett ADDRESS Lot 30 Liberty Meadow MODEL Roof DATE REV. 07/24/23 DRAWN BY David Landry
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JOB NAMELot 30 Liberty MeadowPLANAnconiaSEAL DATEN/AQUOTE #J0723-3471

Precision Custom Homes and Renc

BUILDER

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



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Anconia Mod.

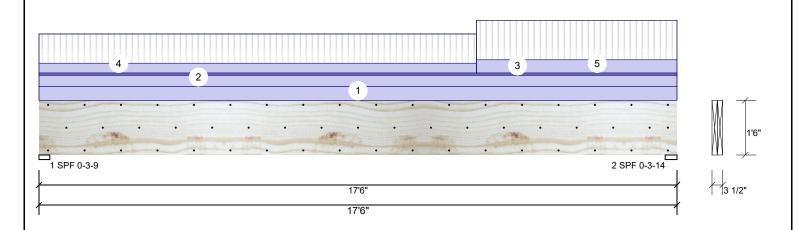
Date: 7/24/2023

Input by: David Landry Job Name: Lot 30 Liberty Meadows Page 1 of 10

Project #: J0723-3472

1.750" X 18.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

Level: Level



Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II Temp <= 100°F Temperature:

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015**

Load Sharing: No Deck:

Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2318	2907	87	0	0
2	Vertical	2674	3033	88	0	0

Bearings

Bearing Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.563"	Vert	99%	2907 / 2318	5226	L	D+L
2 - SPF 3.875"	Vert	99%	3033 / 2674	5707	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	22105 ft-lb	8'10 13/16"	42981 ft-lb	0.514 (51%)	D+L	L
Unbraced	22105 ft-lb	8'10 13/16"	42981 ft-lb	0.514 (51%)	D+L	L
Shear	4439 lb	15'8 1/8"	13440 lb	0.330 (33%)	D+L	L
LL Defl inch	0.172 (L/1190)	8'9 15/16"	0.426 (L/480)	0.403 (40%)	L	L
TL Defl inch	0.381 (L/536)	8'9 1/2"	0.568 (L/360)	0.671 (67%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at bearings.

8 Lateral sier	nderness ratio based o	on single ply width.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
2	Uniform			Тор	100 PLF	0 PLF	0 PLF	0 PLF	0 PLF	C2GE
3	Tie-In	0-0-0 to 17-6-0	0-6-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof Load
4	Part. Uniform	0-0-0 to 12-0-0		Тор	86 PLF	257 PLF	0 PLF	0 PLF	0 PLF	F3
5	Part. Uniform	12-0-0 to 17-6-0		Тор	116 PLF	347 PLF	0 PLF	0 PLF	0 PLF	F2
	Self Weight				14 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787



This design is valid until 5/29/2026

isDesign

Client: Project: Address: **Precision Custom Homes**

Anconia Mod.

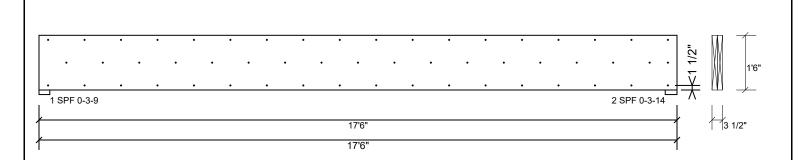
7/24/2023

Input by: David Landry Job Name: Lot 30 Liberty Meadows Page 2 of 10

Project #: J0723-3472

1.750" X 18.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	•	•
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787



This design is valid until 5/29/2026 CSD DESIGN



Precision Custom Homes

Anconia Mod.

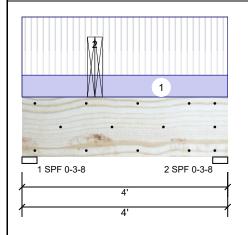
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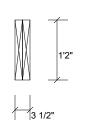
Input by: David Landry Job Name: Lot 30 Liberty Meadows

Project #: J0723-3472

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL** BM₂

Level: Level





Page 3 of 10

Member Information

Type: Plies: Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Wind Brg Direction Live Dead Snow Const 80 1806 1701 Vertical 0 0 1 2 Vertical 80 937 858 0 0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+S 1 - SPF 3.500" Vert 67% 1806 / 1701 3507 L 2 - SPF 3.500" Vert 34% 937 / 858 1795 L D+S

Analysis Results

Temperature:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4138 ft-lb	1'5"	31049 ft-lb	0.133 (13%)	D+S	L
Unbraced	4138 ft-lb	1'5"	31049 ft-lb	0.133 (13%)	D+S	L
Shear	3296 lb	1'5 1/2"	12021 lb	0.274 (27%)	D+S	L
LL Defl inch	0.007 (L/6271)	1'5"	0.089 (L/480)	0.077 (8%)	S	L
TL Defl inch	0.014 (L/3057)	1'5"	0.118 (L/360)	0.118 (12%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6"
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at bearings.

8 Lateral sienderness ratio based on single ply width.										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 4-0-0	1-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor Load
2	Point	1-5-0		Тор	2640 lb	0 lb	2559 lb	0 lb	0 lb	B3 Brg 2
	Bearing Length	0-3-8								
	Self Weight				11 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 5/29/2026

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787







Precision Custom Homes

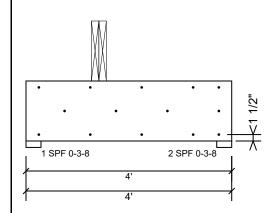
Anconia Mod.

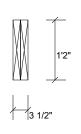
Date: 7/24/2023 Input by: David Landry

Job Name: Lot 30 Liberty Meadows Project #: J0723-3472

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL BM2**

Level: Level





Page 4 of 10

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
CM	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Informing & Installation

 I. VIL beams must not be cut or drilled

 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 Damaged Beams must not be used

 Design assumes top edge is laterally restrained

 Design assumes top edge is laterally restrained is provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

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Comtech, Inc. 1001 S Reilly Rd., NC 28314 (910) 864-8787





Precision Custom Homes

Anconia Mod.

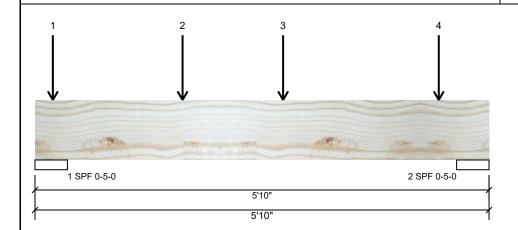
Date: 7/24/2023

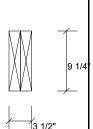
Input by: David Landry Job Name: Lot 30 Liberty Meadows

Project #: J0723-3472

1.750" X 9.250" **Kerto-S LVL** 2-Ply - PASSED BM₃

Level: Level





Page 5 of 10

Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 240 Importance: Normal - II Temp <= 100°F Temperature:

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Wind Brg Direction Live Dead Snow Const 0 3107 3086 Vertical 0 0 2 Vertical 0 2835 2814 0 0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+S 1-SPF 5.000" Vert 3107 / 3086 6193 L 2 - SPF 5.000" Vert 76% 2835 / 2814 5649 L D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9142 ft-lb	1'10 3/4"	14423 ft-lb	0.634 (63%)	D+S	L
Unbraced	9142 ft-lb	1'10 3/4"	11505 ft-lb	0.795 (79%)	D+S	L
Shear	5936 lb	1'2 1/4"	7943 lb	0.747 (75%)	D+S	L
LL Defl inch	0.058 (L/1065)	2'8 7/16"	0.128 (L/480)	0.451 (45%)	S	L
TL Defl inch	0.116 (L/531)	2'8 7/16"	0.256 (L/240)	0.452 (45%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	0-2-12		Тор	127 lb	0 lb	127 lb	0 lb	0 lb	A2
	Bearing Length	0-3-8								
2	Point	1-10-12		Тор	3363 lb	0 lb	3363 lb	0 lb	0 lb	A1-GR
	Bearing Length	0-3-8								
3	Point	3-2-4		Тор	1205 lb	0 lb	1205 lb	0 lb	0 lb	A1
	Bearing Length	0-3-8								

Continued on page 2...

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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This design is valid until 5/29/2026 CSD DESIGN

Manufacturer Info



Precision Custom Homes

Anconia Mod.

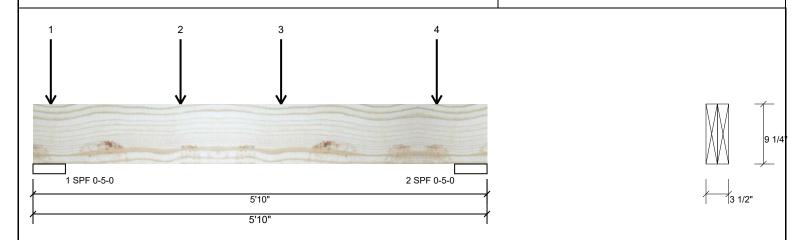
Date: 7/24/2023

Input by: David Landry Job Name: Lot 30 Liberty Meadows Page 6 of 10

Project #: J0723-3472

Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED BM₃

Level: Level



Continued	from	page	1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
4	Point	5-2-4		Тор	1205 lb	0 lb	1205 lb	0 lb	0 lb	A1	
	Bearing Length	0-3-8									
	Self Weight				7 PLF						

Notes
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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. IVI beams must not be out or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 5/29/2026

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Manufacturer Info

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Precision Custom Homes

Anconia Mod.

Date: 7/24/2023

Input by: David Landry Job Name: Lot 30 Liberty Meadows Page 7 of 10

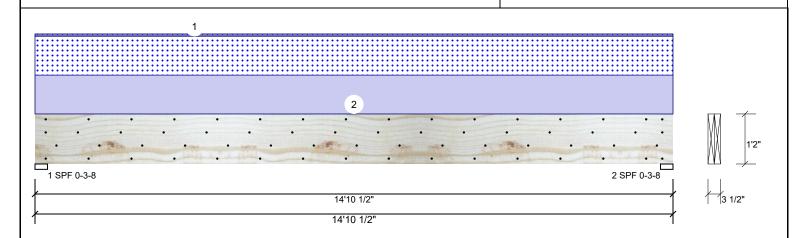
D+S

D+S

Project #: J0723-3472

1.750" X 14.000" **Kerto-S LVL** 2-Ply - PASSED BM4

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Wind Type: Application: Roof Brg Direction Live Dead Snow Const Plies: 2 Slope: 0/12 2639 2559 Vertical 0 0 0 1 Moisture Condition: Dry Design Method: ASD 2 Vertical 0 2639 2559 0 0 Deflection LL: 360 **Building Code: IBC/IRC 2015** Deflection TL: 240 Load Sharing: No Importance: Normal - II Deck: Not Checked Temp <= 100°F Temperature: Bearings Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb.

1 - SPF 3.500"

2 - SPF 3.500"

Vert

Vert

100%

100%

2639 / 2559

2639 / 2559

5198 L

5198 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	18157 ft-lb	7'5 1/4"	31049 ft-lb	0.585 (58%)	D+S	L
Unbraced	18157 ft-lb	7'5 1/4"	31049 ft-lb	0.585 (58%)	D+S	L
Shear	4994 lb	1'5 1/2"	12021 lb	0.415 (42%)	D+S	L
LL Defl inch	0.230 (L/753)	7'5 5/16"	0.481 (L/360)	0.478 (48%)	S	L
TL Defl inch	0.467 (L/370)	7'5 5/16"	0.721 (L/240)	0.648 (65%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 14-10-8	0-6-0	Near Face	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof Load
2	Uniform			Far Face	334 PLF	0 PLF	334 PLF	0 PLF	0 PLF	C2
	Self Weight				11 PLF					

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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Precision Custom Homes

Anconia Mod.

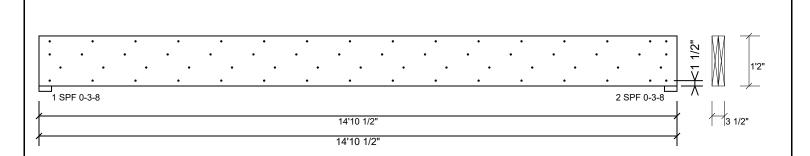
Date: 7/24/2023

Input by: David Landry Job Name: Lot 30 Liberty Meadows Page 8 of 10

Project #: J0723-3472

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL** BM4

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	•	
Capacity	88.7 %	
Load	334.0 PLF	
Yield Limit per Foot	376.5 PLF	
Yield Limit per Fastener	94.1 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+S	
Duration Factor	1.15	

Notes

NOtes
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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- IARIGHING & INSTAILATION.

 LVL beams must not be cut or drilled.
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beams trength values, and code approvals.

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Precision Custom Homes

Anconia Mod.

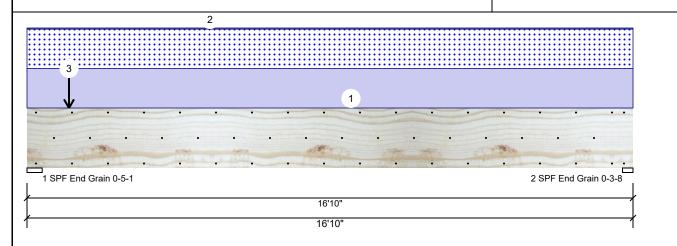
Date: 7/24/2023

Input by: David Landry Job Name: Lot 30 Liberty Meadows

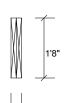
Project #: J0723-3472

Kerto-S LVL 2-Ply - PASSED 1.750" X 20.000" **GDH**

Level: Level



Not Checked



Page 9 of 10

Member Information

Type: Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temp <= 100°F Temperature:

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015**

Load Sharing: No **Header Supports** No Glass:

Deck:

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	7562	7303	0	0
2	Vertical	0	5273	5017	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	41804 ft-lb	8'3 5/16"	60066 ft-lb	0.696 (70%)	D+S	L
Unbraced	41804 ft-lb	8'3 5/16"	60066 ft-lb	0.696 (70%)	D+S	L
Shear	9662 lb	2'1 1/16"	17173 lb	0.563 (56%)	D+S	L
LL Defl inch	0.244 (L/801)	8'4 13/16"	0.542 (L/360)	0.449 (45%)	S	L
TL Defl inch	0.499 (L/391)	8'4 13/16"	0.813 (L/240)	0.614 (61%)	D+S	L

Bearings

Bearing Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 5.063" End Grain	Vert	100%	7562 / 7303	14865	L	D+S
2 - SPF 3.500" End Grain	Vert	100%	5273 / 5017	10290	L	D+S

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at bearings.
- 8 Lateral slenderness ratio based on single ply width

8 Lateral siend	erness ratio based on single	e piy wiain.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	586 PLF	0 PLF	586 PLF	0 PLF	0 PLF	A1
2	Uniform			Тор	15 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
3	Point	1-2-0		Тор	2456 lb	0 lb	2456 lb	0 lb	0 lb	A1-GR
	Bearing Length	0-3-8								
	Self Weight				16 PLF					

NOtes
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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code

approvals

Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

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Precision Custom Homes

Anconia Mod.

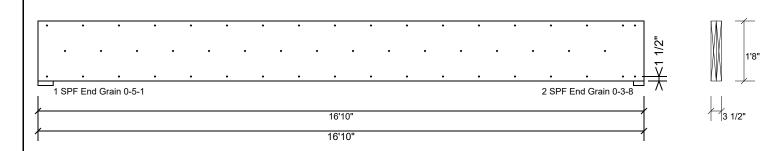
Date: 7/24/2023 Input by:

David Landry Job Name: Lot 30 Liberty Meadows Page 10 of 10

Project #: J0723-3472

2-Ply - PASSED **Kerto-S LVL** 1.750" X 20.000" **GDH**

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	•	•
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

NOtes
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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Informing & Installation

 I. VIL beams must not be cut or drilled

 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 Damaged Beams must not be used

 Design assumes top edge is laterally restrained

 Design assumes top edge is laterally restrained is provide lateral support at bearing points to avoid lateral displacement and rotation

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Manufacturer Info

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North Carolina 2018 - R402.1.5 Total UA

Property

32 Brewster Ct Cameron, NC 28326 Model: Anconia

Community: Liberty Meadows

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

Southern Energy Manager

Justin Smith

Builder

SMG Precision Properties



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

Inspection Status

Results are projected

Building UA

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

Requirements

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

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

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

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

Template - SMG Precision - Liberty Meadows Lot 33

- CZ 4 slab - ecoSelect Liberty Meadows Lot 33 Organization

Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



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

Foundation Wall

None Present

Foundation Wall Library List

None Present

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

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

Property
32 Brewster Ct
Cameron, NC 28326
Model: Anconia

Community: Liberty Meadows

Template - SMG Precision - Liberty Meadows Lot 33

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

OrganizationSouthern Energy Management
Justin Smith

Builder SMG Precision Properties Inspection Status Results are projected



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

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

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

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

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

Property
32 Brewster Ct
Cameron, NC 28326
Model: Anconia

Community: Liberty Meadows

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

Organization Southern Energy Management Justin Smith

Builder

SMG Precision Properties



*
SOUTHERNENERGY
MANAGEMENT

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

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

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

Skylight	
	None Present

Property
32 Brewster Ct
Cameron, NC 28326
Model: Anconia

Community: Liberty Meadows

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

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Builder

SMG Precision Properties

Inspection Status Results are projected



Skylight Library List

None Present

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

Opaque Door Library List

Name Effective U-factor

Fiberglass R-5

0.200

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

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

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

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

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

Organization

Southern Energy Management Justin Smith

Builder

SMG Precision Properties



*
SOUTHERNENERGY
MANAGEMENT
ENERGY EEDICIENCY & SOLAD POWER

Mechanical Ventilation	
	None Present

Inspection Status

Results are projected

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

1	Lighting		Lighting		Lighting	
	10	90	0	0	0	0
	Onsite Gener	ation				

Onsite Generation Library List None Present

None Present

Solar Generation	
N	one Present

Dehumidifier			
	None Present		

Dehumidifier Library List	
	None Present

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

Template - SMG Precision - Liberty Meadows Lot 33

- CZ 4 slab - ecoSelect Liberty Meadows Lot 33 Organization

Southern Energy Management Justin Smith

Builder

SMG Precision Properties

Inspection Status Results are projected



Whole House Fan

None Present

Whole House Fan Library List

None Present

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

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

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Liberty Meadows Lot 33

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SMG Precision Properties

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

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

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

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Liberty Meadows Lot 33

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SMG Precision Properties

Inspection Status Results are projected



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

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Inspection Status

Results are projected

Builder

SMG Precision Properties



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

HVAC Grading

HVAC Grading Not Conducted

Ceiling Fan		
Has Ceiling Fan	No	
Cfm Per Watt	100	

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Liberty Meadows Lot 33

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SMG Precision Properties



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

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

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

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

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SMG Precision Properties



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

Notes

Initial Inputs _____JS 02/01/22_____

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