

RIGHT ELEVATION

SCALE:1/4"=1'-0"

ESIDENTIAL PLANS BY TINA MCFADDEN

TERMARK TERMARK

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DETAILS, LOCAL AND STATE CODES.

I HEREBY CERTIFY THAT THIS DRAWING MEETS LOCAL CODES, 2018
INTERNATIONAL BUILDING CODES

THIS IS FOR THE CONSTRUCTION

1HIS IS FOR THE CONSTRUCTION OF ONE HOUSE ON A SINGLE LOT, NOT TO BE REUSED

PLAN NUMBER

BG22-A07F

GARAGE R F

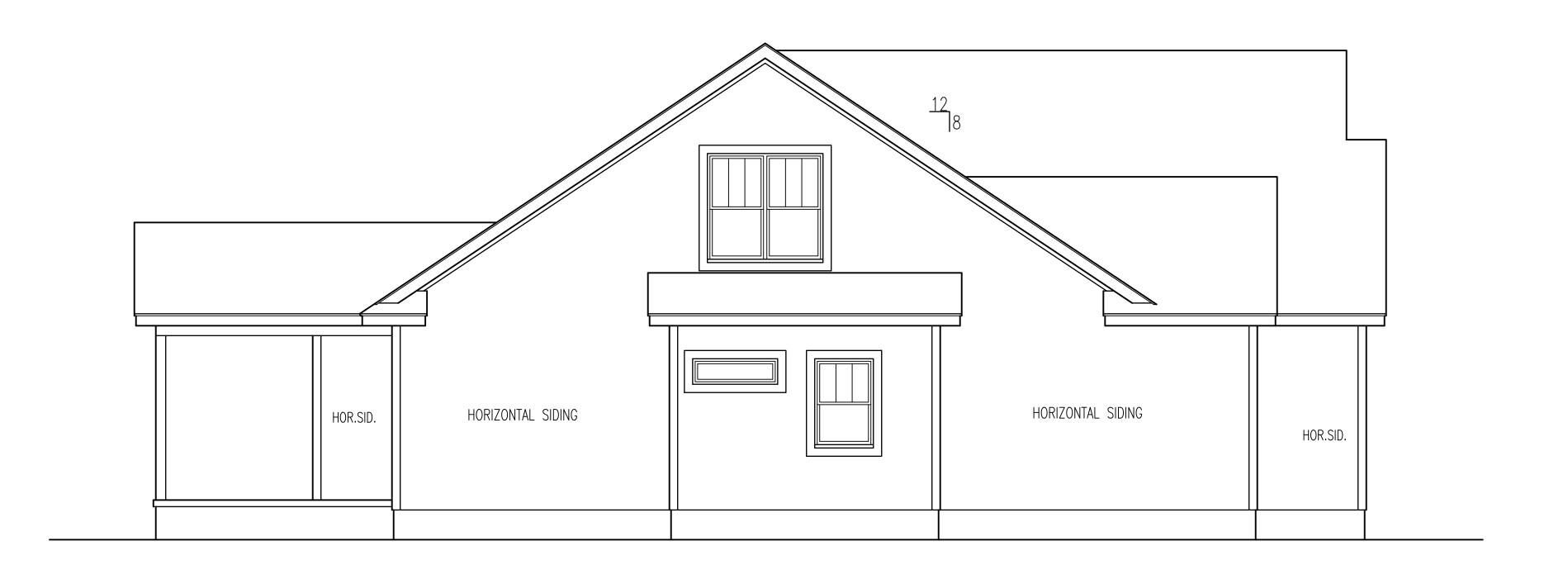
DATE:

4/10/22



REAR ELEVATION

SCALE:1/4"=1'-0"



LEFT ELEVATION

SCALE:1/4"=1'-0"

RESIDENTIAL PLANS BY TINA MCFADDEN

TONEEK 97 SOUTH CREEK

ATERMAK SWEFTSPIEE

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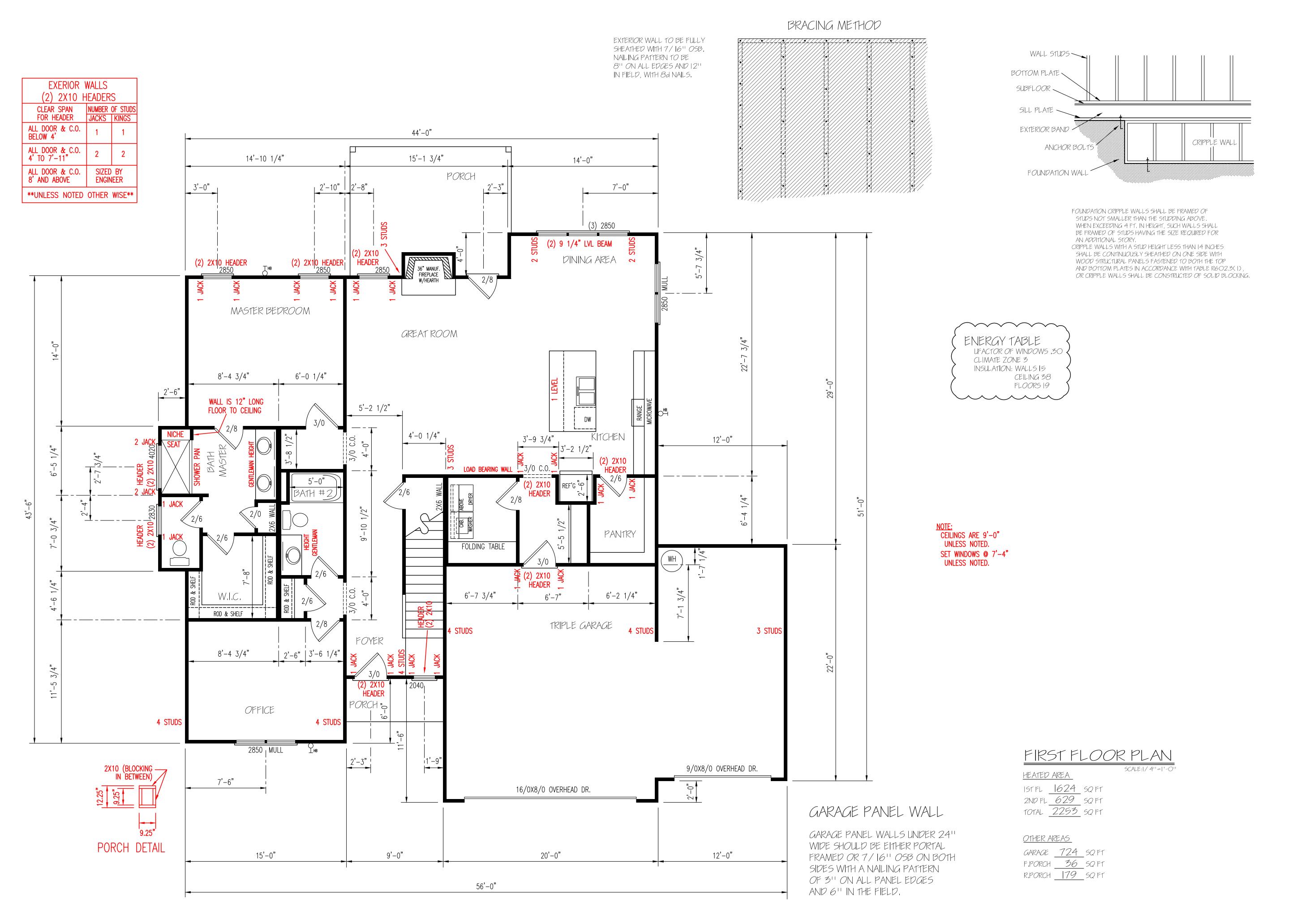
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OF ONE HOUSE ON A SINGLE
LOT, NOT TO BE REUSED

PLAN NUMBER BG22-A07F

GARAGE R F

DATE:

B 4/10/22



M DESIDENTIAL PLANS BY TINA MCFADDEN

DMH CREEK (910) 35

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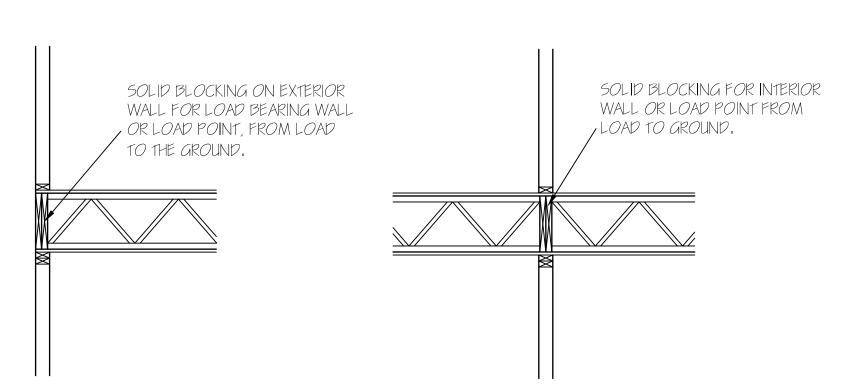
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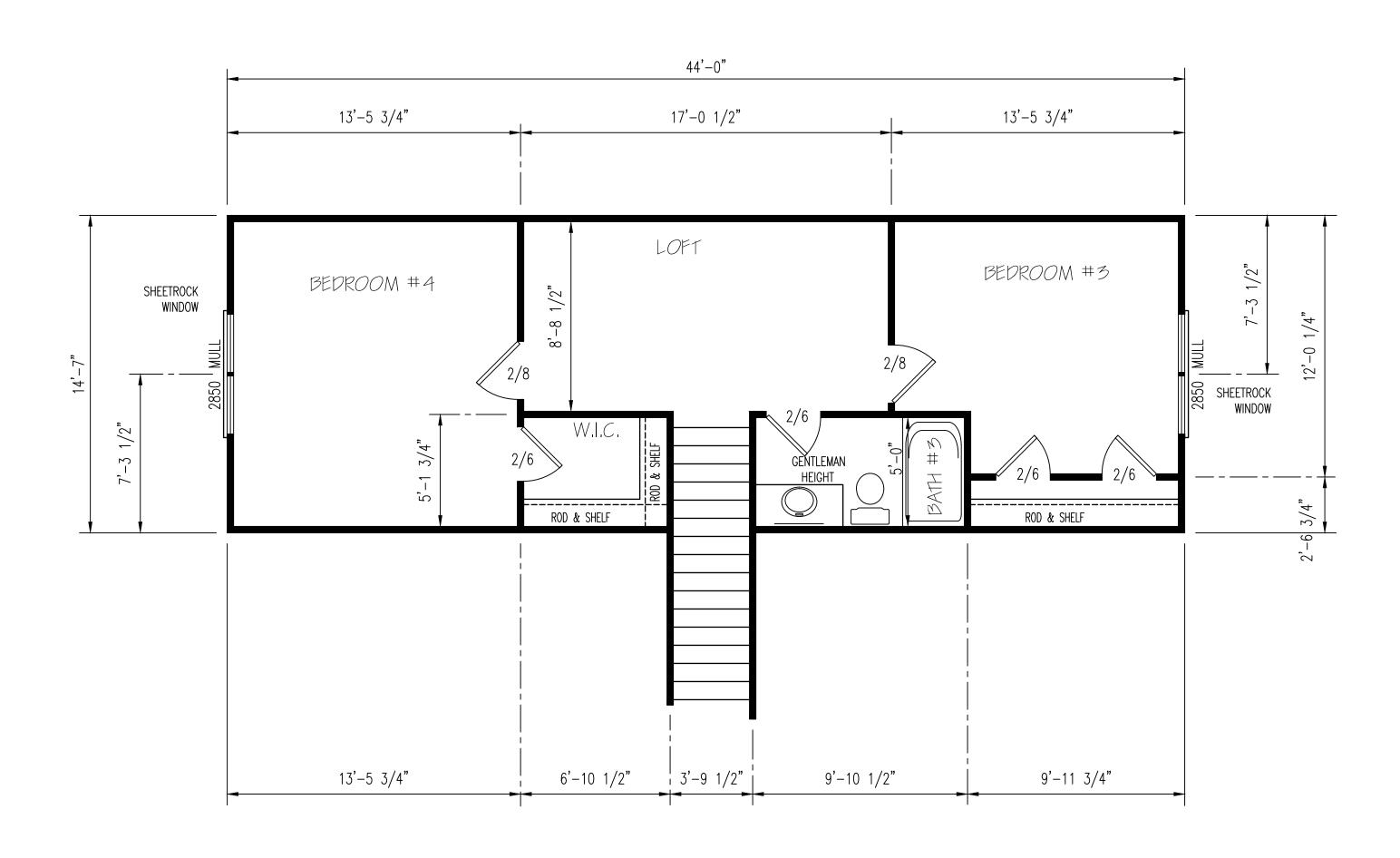
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LOT, NOT TO BE REUSED

PLAN NUMBER BG22-A07

2 A GARAGE R F DATE: 4/10/22





EXERIOR \	WALLS							
(2) 2X10 HEADERS								
CLEAR SPAN	NUMBER							
FOR HEADER	JACKS	KINGS						
ALL DOOR & C.O. BELOW 4'	1	1						
ALL DOOR & C.O. 4' TO 7'-11"	2	2						
ALL DOOR & C.O. 8' AND ABOVE	SIZED ENGIN							
UNLESS NOTED	OTHER	WISE						

SECOND FLOOR PLAN

SCALE:1/4"=1'-0"

FESIDENTIAL PLANS BY TINA MCFADDE

K HOMEK SHACKER SHACKER

ATERMATE ATERMATE

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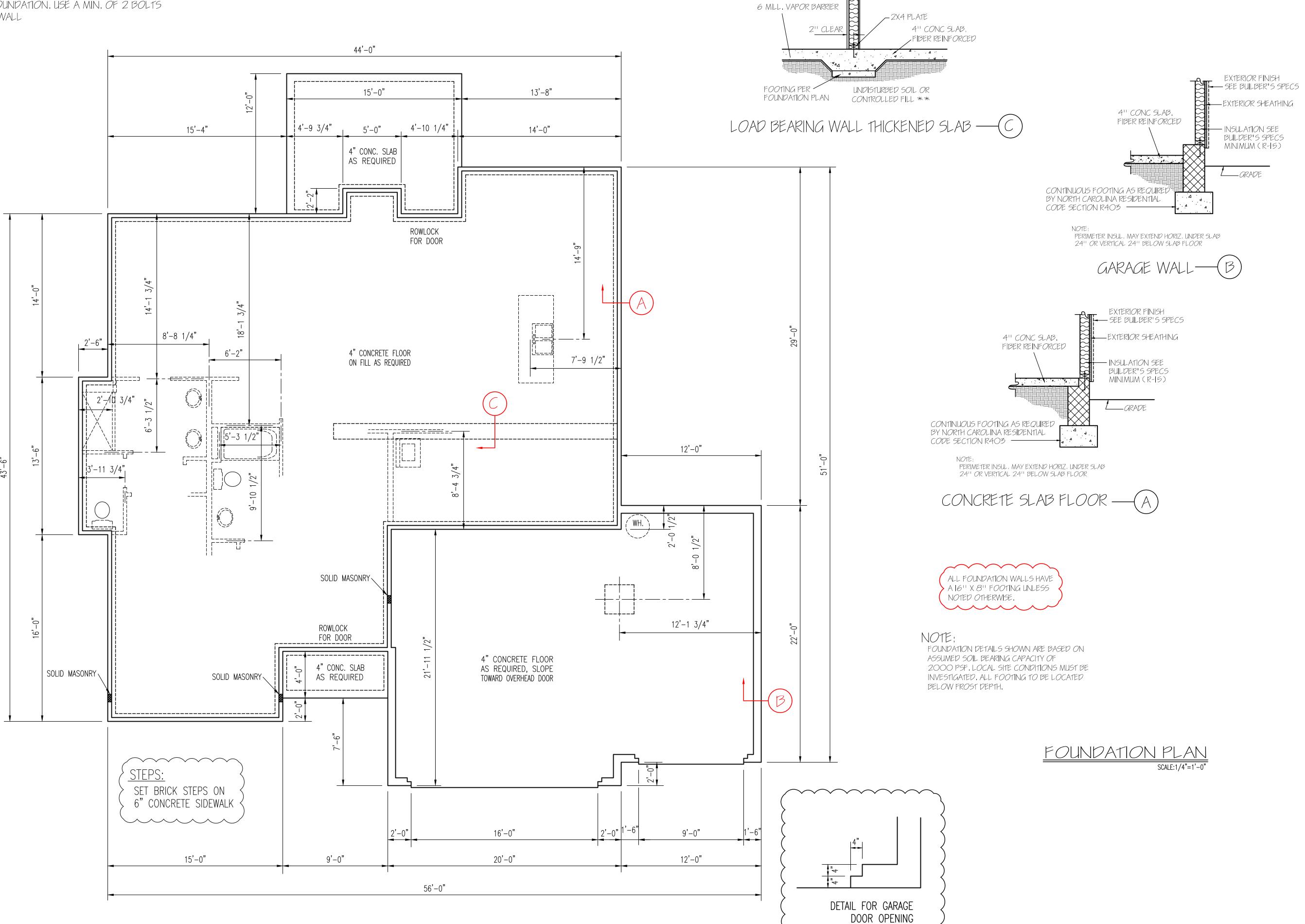
1HIS IS FOR THE CONSTRUCTION OF ONE HOUSE ON A SINGLE LOT, NOT TO BE REUSED

PLAN NUMBER
RG22-A0

 GARAGE
 R
 F

 DATE:
 4/10/22

USE ANCHOR BOLTS
ANCHOR BOLTS: 1/2" DIA, BOLTS AT 6'-O" O.C.
AND NOT MORE THAT 12" FROM CORNERS, EMBEDDED
MIN. 7" INTO FOUNDATION, USE A MIN. OF 2 BOLTS
PER EACH STUD WALL



DESIGNS BY TINA MCFADDEN

RESIDENTIAL PLANS BY (910) 354-4736 TMDESIGNS

SOUTH CREEK

ATERM

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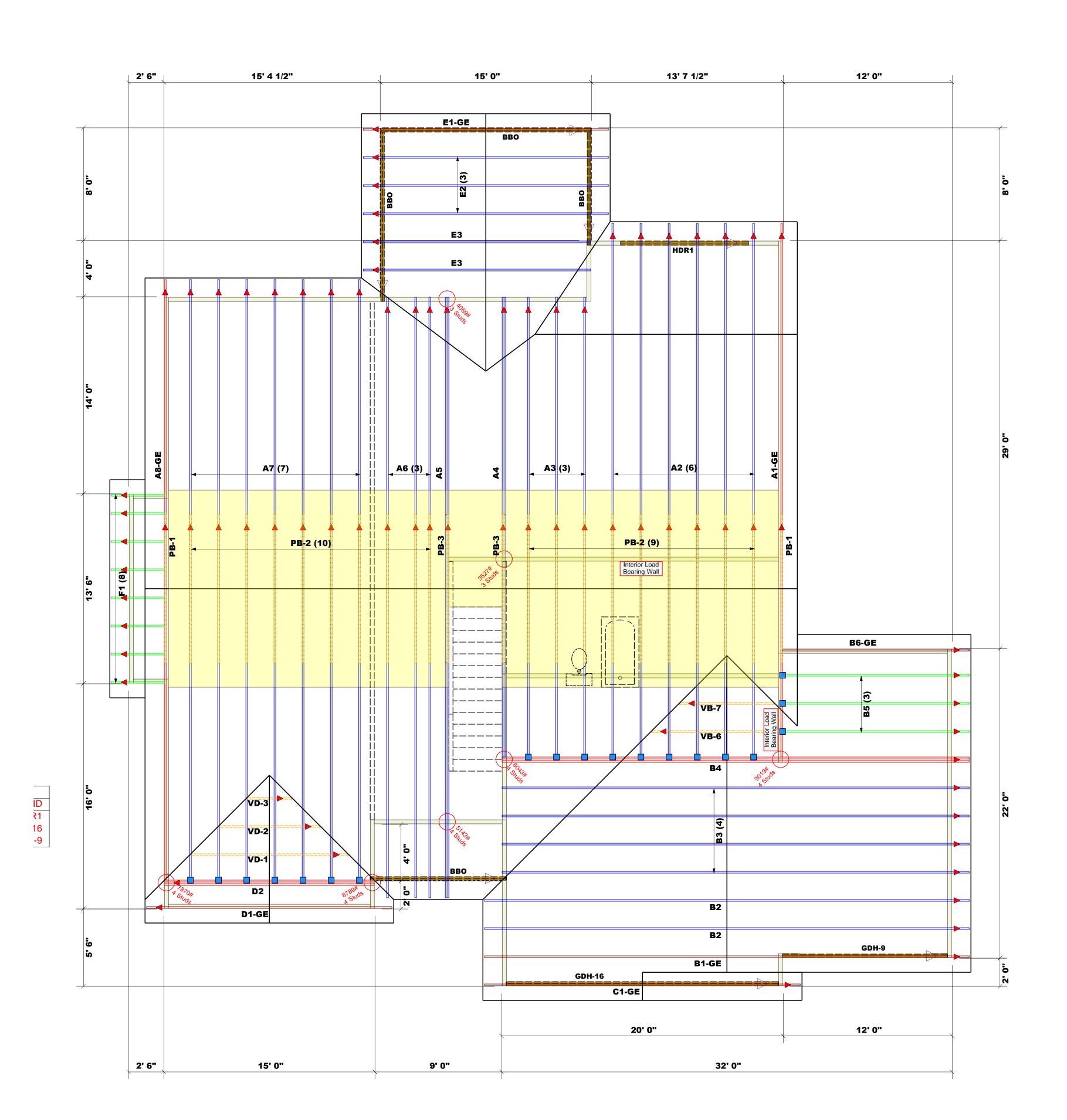
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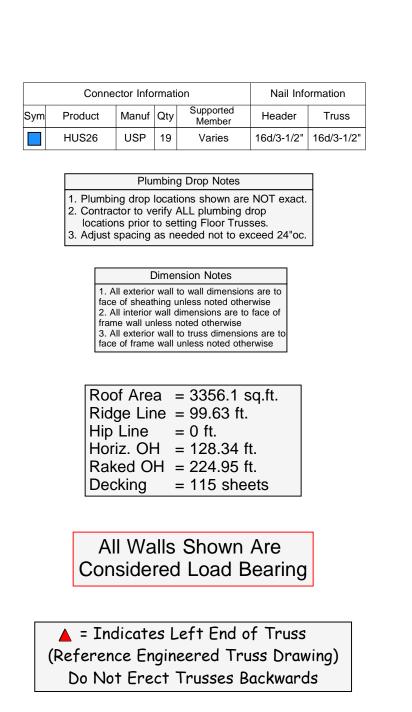
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OF ONE HOUSE ON A SINGLE
LOT, NOT TO BE REUSED

PLAN NUMBER BG22-A07

GARAGE R F

DATE:
4/10/22





Beam Schedule									
PlotID	Length	Product	Plies	Net Qty	Fab Type				
HDR1	10' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF				
GDH-16	20' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF				
GDH-9	12' 0"	2x12 SP No.2	2	2	FF				

ROOF & FLOOR TRUSSES & BEAMS Reilly Road Industrial Park

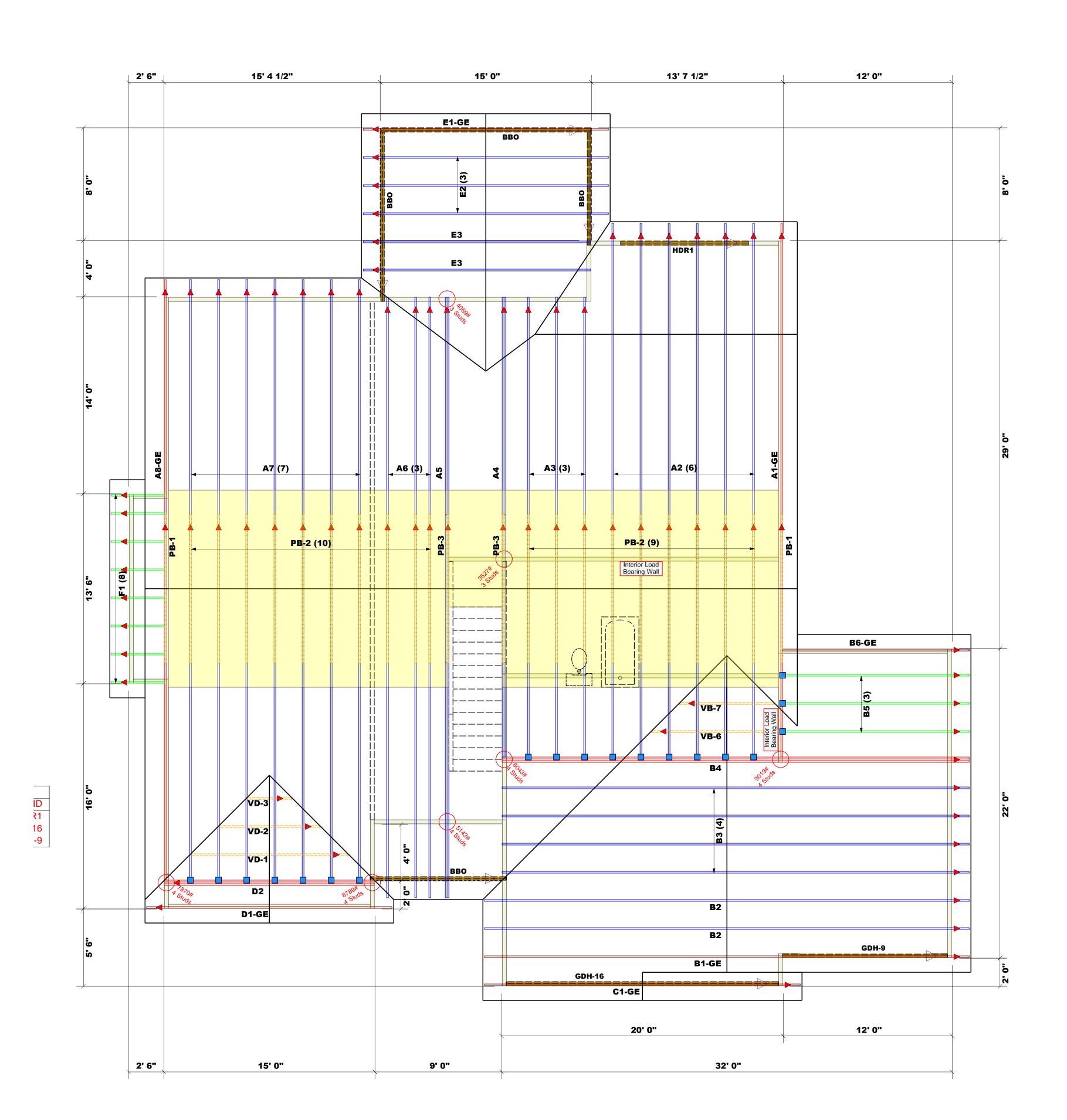
> Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

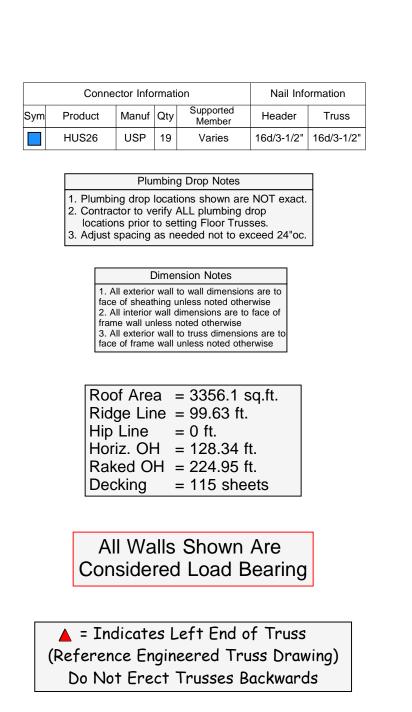
THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer 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

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#.

Anthony Williams

BUILDERWatermark HomesCOUNTYHarnett CountyJOB NAMELot 97 South CreekADDRESSLot 97 South Creek / IJOB NAMELot 97 South CreekRoofPLANSweetspireRoofSEAL DATEPlan Date: 4/10/22Anthony WilliamsGUOTE #NANAJOB ##JO423-1503SALESMANAnthony Williams





Beam Schedule									
PlotID	Length	Product	Plies	Net Qty	Fab Type				
HDR1	10' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF				
GDH-16	20' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF				
GDH-9	12' 0"	2x12 SP No.2	2	2	FF				

ROOF & FLOOR TRUSSES & BEAMS Reilly Road Industrial Park

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

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Anthony Williams

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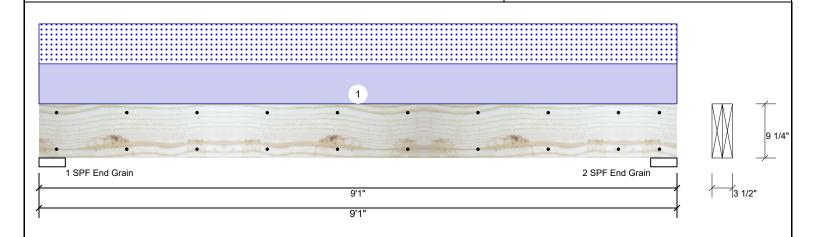
Client: Watermark

Project: Address: Date: 4/4/2023

Input by: Anthony Williams Job Name: Sweetspire Project #: J0423-1503

Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED HDR1

Level: Level



Bearing Length

Dir.

Member Info	rmation			Rea	Reactions UNPATTERNED lb (Uplift)					
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead			
Plies:	2	Design Method:	ASD	1	Vertical	0	1472			
Moisture Condition	on: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	1472			
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F							_		
				Bea	rings					

2	Vertical	0	1472	1440	0	0

Analysis Results Capacity Comb. Analysis Actual Location Allowed Case Moment 5734 ft-lb 4'6 1/2" 14423 ft-lb 0.398 (40%) D+S L Unbraced 5734 ft-lb 4'6 1/2" 8438 ft-lb 0.680 (68%) D+S L Shear 2183 lb 7'11 1/4" 7943 lb 0.275 (27%) D+S L LL Defl inch 0.089 (L/1138) 4'6 9/16" 0.211 (L/480) 0.422 (42%) S L TL Defl inch 0.180 (L/563) 4'6 9/16" 0.282 (L/360) 0.640 (64%) D+S L

1-SPF 4.500" Vert 1472 / 1440 2912 L D+S End Grain 2 - SPF 4.500" 1472 / 1440 D+S Vert 22% 2912 L End Grain

Cap. React D/L lb

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 2 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 laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 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	Uniform			Тор	317 PLF	0 PLF	317 PLF	0 PLF	0 PLF	A2
	Self Weight				7 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

This design is valid until 11/3/2024

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 Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



Page 1 of 6

Wind

Total Ld. Case

0

Const

Ld. Comb.

0

Snow

1440



isDesign

Client: Watermark

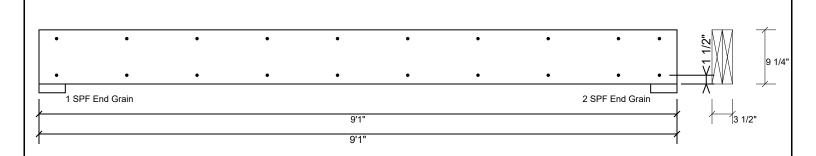
Project: Address:

Date: 4/4/2023 Input by:

Anthony Williams Job Name: Sweetspire Project #: J0423-1503

1.750" X 9.250" 2-Ply - PASSED **Kerto-S LVL** HDR1

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 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	163.7 PLF	
Yield Limit per Fastener	81.9 lb.	
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

- 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

This design is valid until 11/3/2024

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Manufacturer Info

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Page 2 of 6





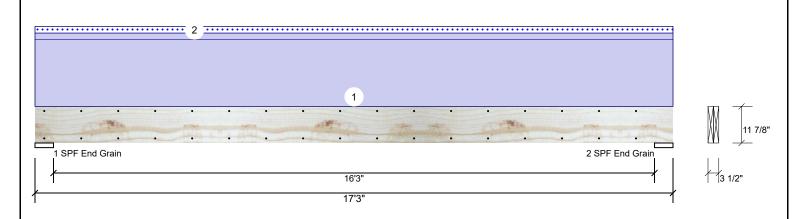
Client: Watermark

Project: Address: Date: 4/4/2023

Input by: Anthony Williams Job Name: Sweetspire Project #: J0423-1503

1.750" X 11.875" 2-Ply - PASSED **Kerto-S LVL GDH-16**

Level: Level



Member Information Application: Type: Floor Plies: 2 Design Method: ASD Moisture Condition: Dry **Building Code: IBC/IRC 2015** Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F

Rea	ctions UNPA	ATTERNED	lb (Uplift)		
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1977	173	0	0
2	Vertical	0	1977	173	0	0

Page 3 of 6

Analysis Res	sults					
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7683 ft-lb	8'7 1/2"	17919 ft-lb	0.429 (43%)	D	Uniform
Unbraced	8354 ft-lb	8'7 1/2"	8368 ft-lb	0.998 (100%)	D+S	L
Shear	1645 lb	15'9 1/8"	7980 lb	0.206 (21%)	D	Uniform
LL Defl inch	0.035 (L/5617)	8'7 9/16"	0.409 (L/480)	0.085 (9%)	S	L
TL Defl inch	0.436 (L/451)	8'7 9/16"	0.546 (L/360)	0.799 (80%)	D+S	L

Bearings Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 6.000" D+S Vert 1977 / 173 2150 L End Grain 2 - SPF 6.000" 12% 1977 / 173 D+S Vert 2150 L End

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 2 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 laterally braced at a maximum of 11'5 3/4" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 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	Uniform			Тор	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL	
2	Uniform			Тор	20 PLF	0 PLF	20 PLF	0 PLF	0 PLF	ROOF	
	Self Weight				9 PI F						

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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
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Grain

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Manufacturer Info

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Client: Watermark

Project: Address:

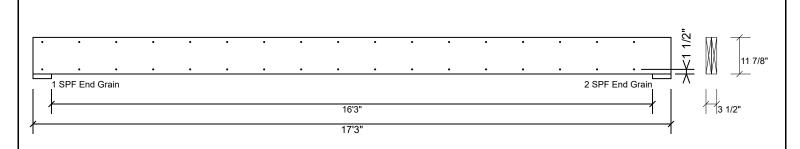
Date: 4/4/2023

Input by: Anthony Williams Job Name: Sweetspire J0423-1503

Page 4 of 6

Project #: 1.750" X 11.875" 2-Ply - PASSED **Kerto-S LVL GDH-16**

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 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	163.7 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination			
Duration Factor	1.00		

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. 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

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This design is valid until 11/3/2024 CSD DESIGN



Client: Watermark

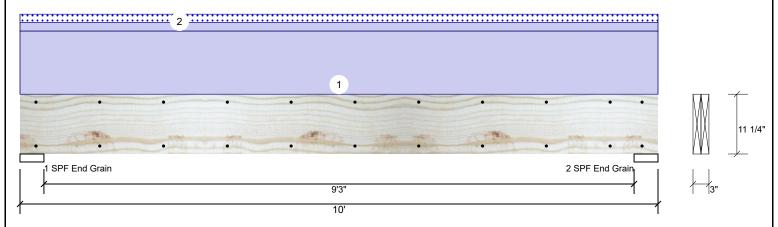
Project: Address: Date: 4/4/2023

Input by: Anthony Williams
Job Name: Sweetspire
Project #: J0423-1503

Page 5 of 6

GDH-9 SP #2 2.000" X 12.000" 2-Ply - PASSED

Level: Level



Member In	formation						Reac	tions UNP	ATTERI	NED I	b (Uplift)			
Туре:	Girder		Applica	tion:	Floor		Brg	Direction	Live	Э	Dead	Snow	Wind	Const
Plies:	2		Design	Method:	ASD		1	Vertical	(0	850	100	0	0
Moisture Cor	ndition: Dry		Building	g Code:	IBC/IRC 2015		2	Vertical	(0	850	100	0	0
Deflection LL	.: 480		Load S	haring:	No									
Deflection TL	.: 360		Deck:		Not Checked									
Importance:	Normal - I	I												
Temperature	Temp <= 1	100°F												
							Bear	ings						
							Bea	ring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - 5	SPF 4.500"	Vert	12%	850 / 100	950	L	D+S
							End							
Analysis Re	esults						Grai							
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - S End		Vert	12%	850 / 100	950	L	D+S
Moment	1868 ft-lb	5'	3560 ft-lb	0.525 (52	%) D	Uniform	Grai							
Unbraced	1868 ft-lb	5'	3100 ft-lb	0.602 (60	%) D	Uniform								
Shear	627 lb	1'3 3/4"	3544 lb	0.177 (18	%) D	Uniform								

Design Notes

LL Defl inch 0.007

(L/16128) TL Defl inch 0.066 (L/1698)

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.

5' 0.234 (L/480) 0.030 (3%) S

5' 0.312 (L/360) 0.212 (21%) D+S

- 2 Fasten all plies using 2 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 laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 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	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Uniform			Тор	20 PLF	0 PLF	20 PLF	0 PLF	0 PLF	ROOF

This design is valid until 11/3/2024

Manufacturer Info

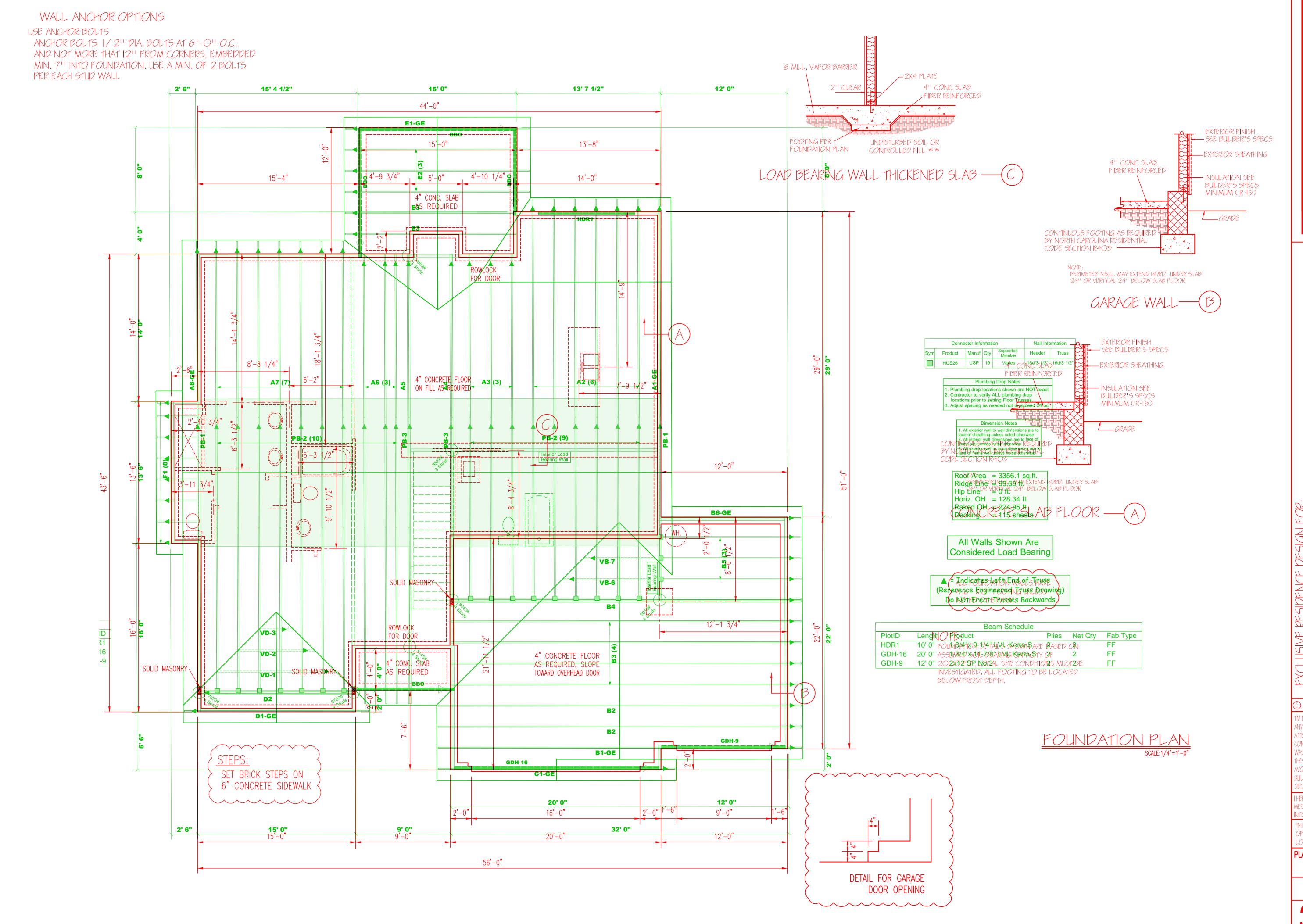
Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

Client: Watermark Date: 4/4/2023 Page 6 of 6 Project: Input by: Anthony Williams isDesign Address: Job Name: Sweetspire Project #: J0423-1503 Level: Level 2.000" X 12.000" 2-Ply - PASSED GDH-9 **SP #2** 2 SPF End Grain 1 SPF End Grain 9'3" 10' Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6". Capacity 0.0 PLF Load 202.6 PLF Yield Limit per Foot Yield Limit per Fastener 101.3 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

This design is valid until 11/3/2024

Manufacturer Info

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Fayetteville, NC
USA
28314
910-864-TRUS



<u> 2022</u> copyriaht all riahts reserve M DESIGNS WILL NOT BE LIABLE FOR ANY ERRORS NOT BROUGHT TO THEIR ATTENTION PRIOR TO THE START OF CONSTRUCTION, WHILE EVERY EFFORT WAS MADE IN THE PREPARATION OF

THESE DRAWINGS AND DIMENSIONS AVOID ERRORS THE OWNER AND / OR BUILDER SHALL VERIFY ALL DIMENSIONS DETAILS, LOCAL AND STATE CODES.

HEREBY CERTIFY THAT THIS DRAWING MEETS LOCAL CODES, 2018 INTERNATIONAL BUILDING CODES THIS IS FOR THE CONSTRUCTION OF ONE HOUSE ON A SINGLE

ER

LOT, NOT TO BE REUSED PLAN NUMBER BG22-A07

GARAGE R F

DATE:
4/10/22

Truss Placement Plan SCALE: 1/4" = 1'-0"