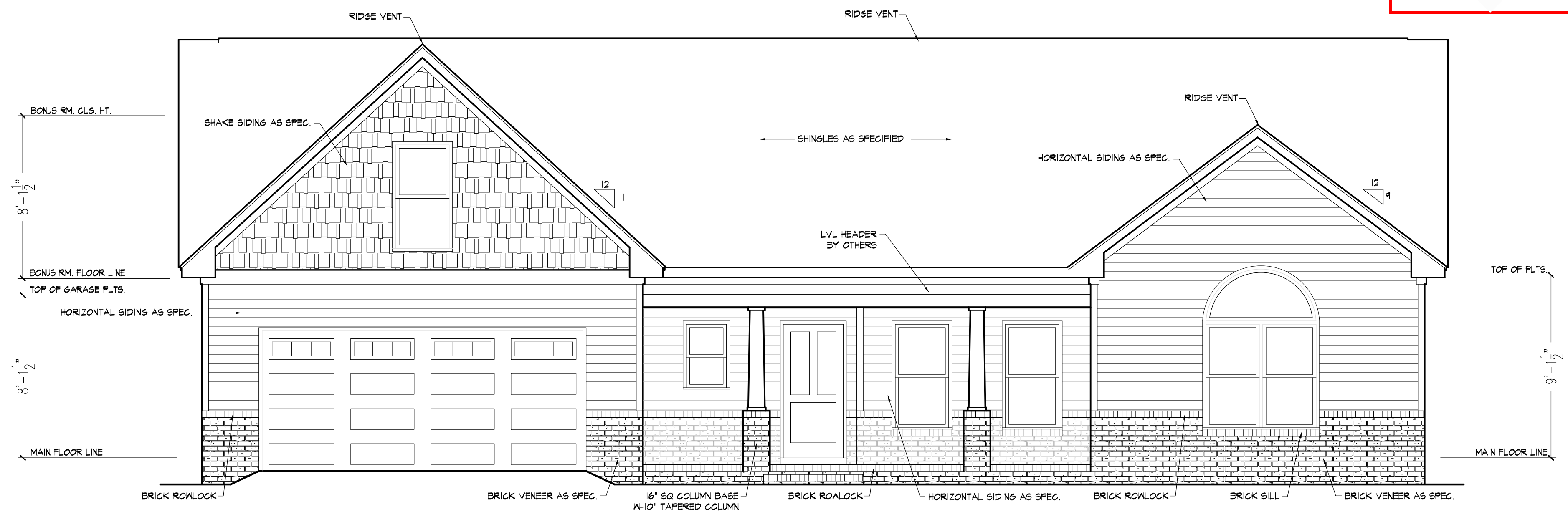


NOTICE TO CONTRACTOR:  
 All construction must comply with current NC Building Codes  
 and is subject to field inspection and verification.  
**APPROVED**  
 Limited Building Dept. Review  
 Permit holder responsible for  
 full compliance with the code.  
 10/13/2020

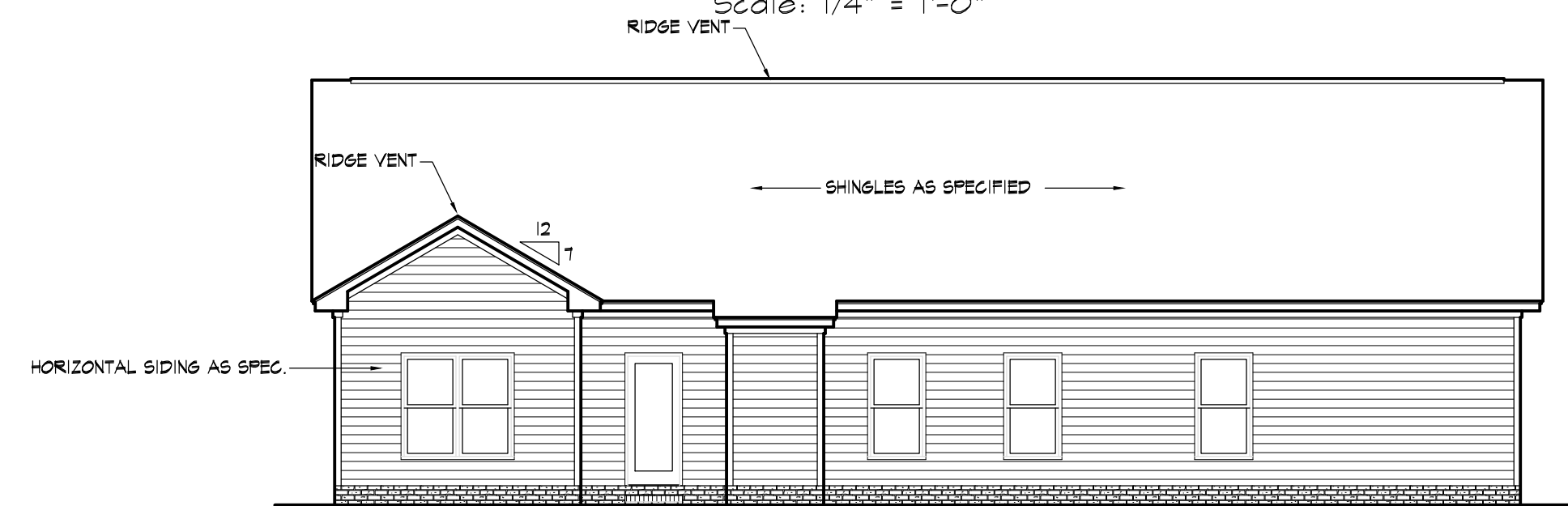


**John E. Carrol**  
 Residential Design  
 844 montclair road, fayetteville, nc 28314  
 johnecarroll.design@gmail.com  
 910.850.9408



**101 Front Elevation**

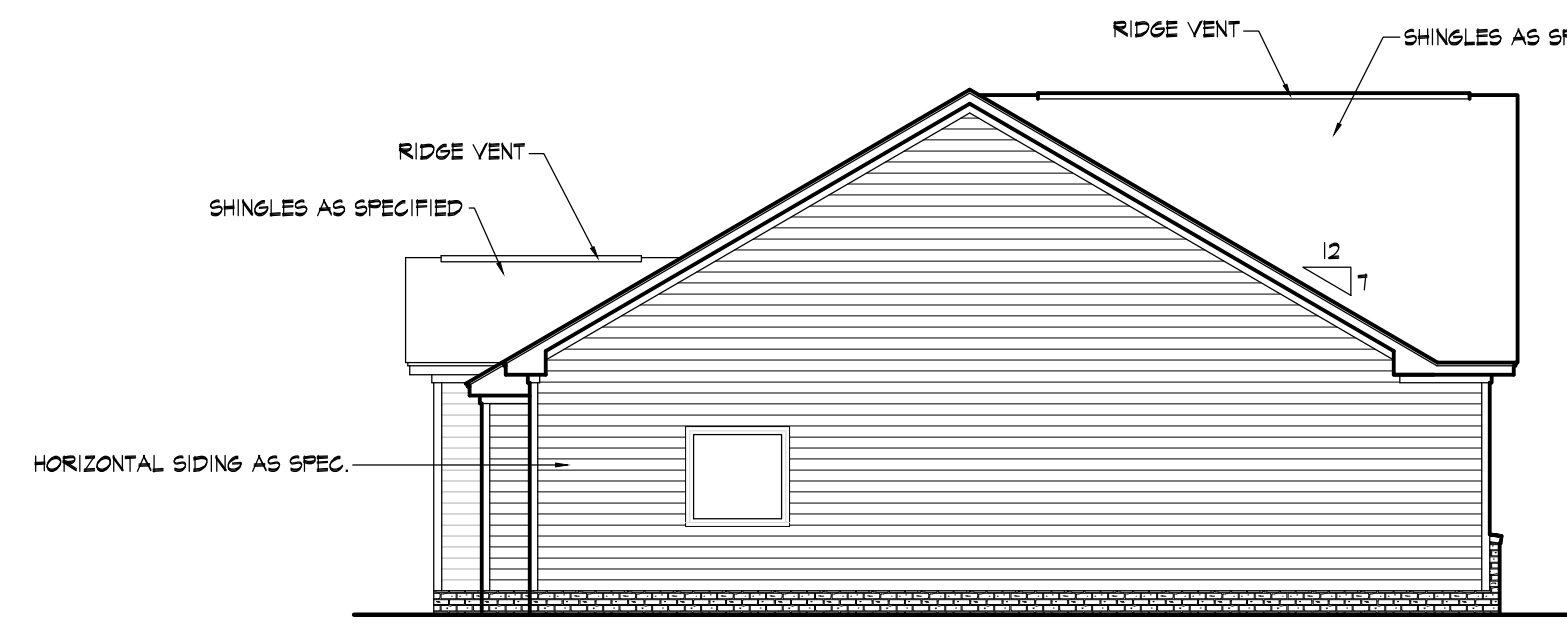
Scale: 1/4" = 1'-0"



**102 Rear Elevation**

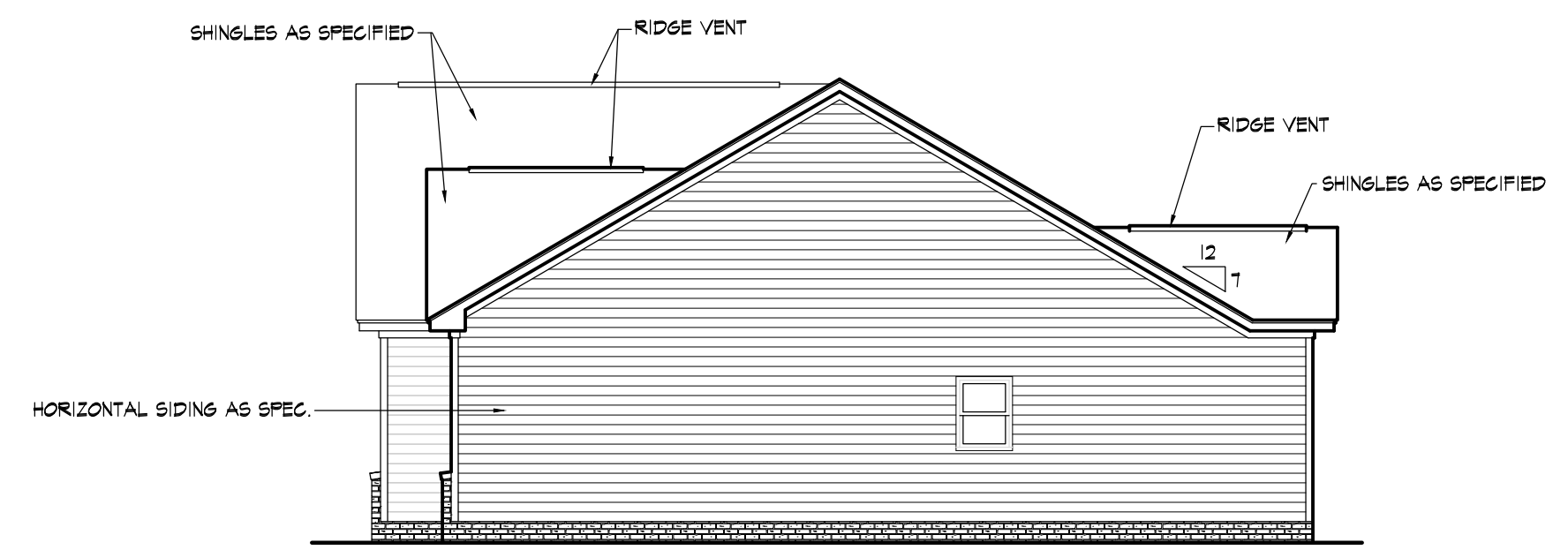
Scale: 1/8" = 1'-0"

Area Tabulations	
Main Floor Htd.	1723 SQ. FT.
Bonus Room Htd.	264 SQ. FT.
Total Htd.	1987 SQ. FT.
Garage	495 SQ. FT.
Front Porch	143 SQ. FT.
Total Unhtd.	638 SQ. FT.
Total Area	2625 SQ. FT.



**103 Left Elevation**

Scale: 1/8" = 1'-0"



**104 Right Elevation**

Scale: 1/8" = 1'-0"

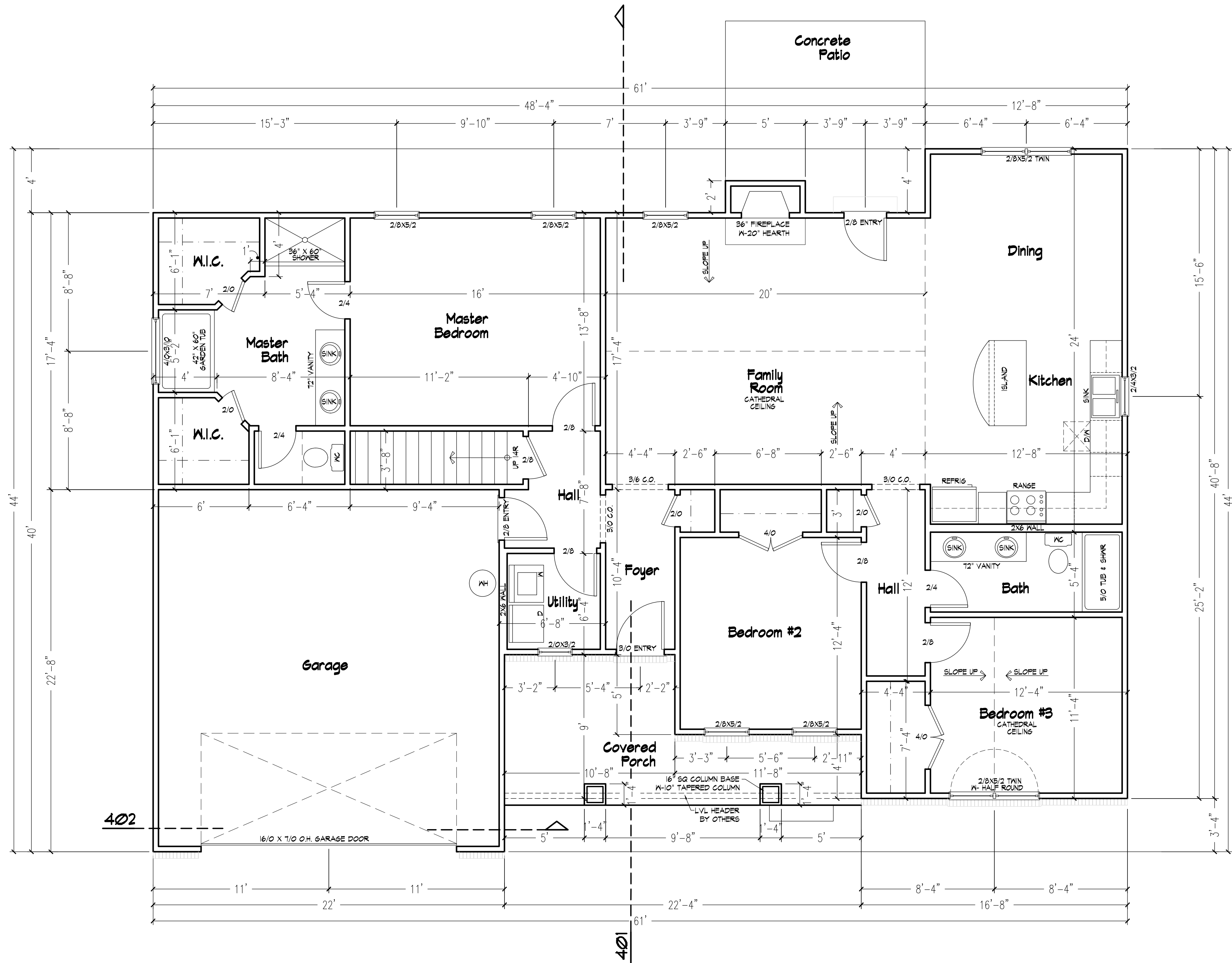
Project Title  
**The Lindsay**

Sheet Title  
**Exterior Elevations**

Revisions  
 Reversed  
 Sept. 21, 2020

Scale:  
 as shown  
 Date:  
 September 2020

Sheet No.  
 |



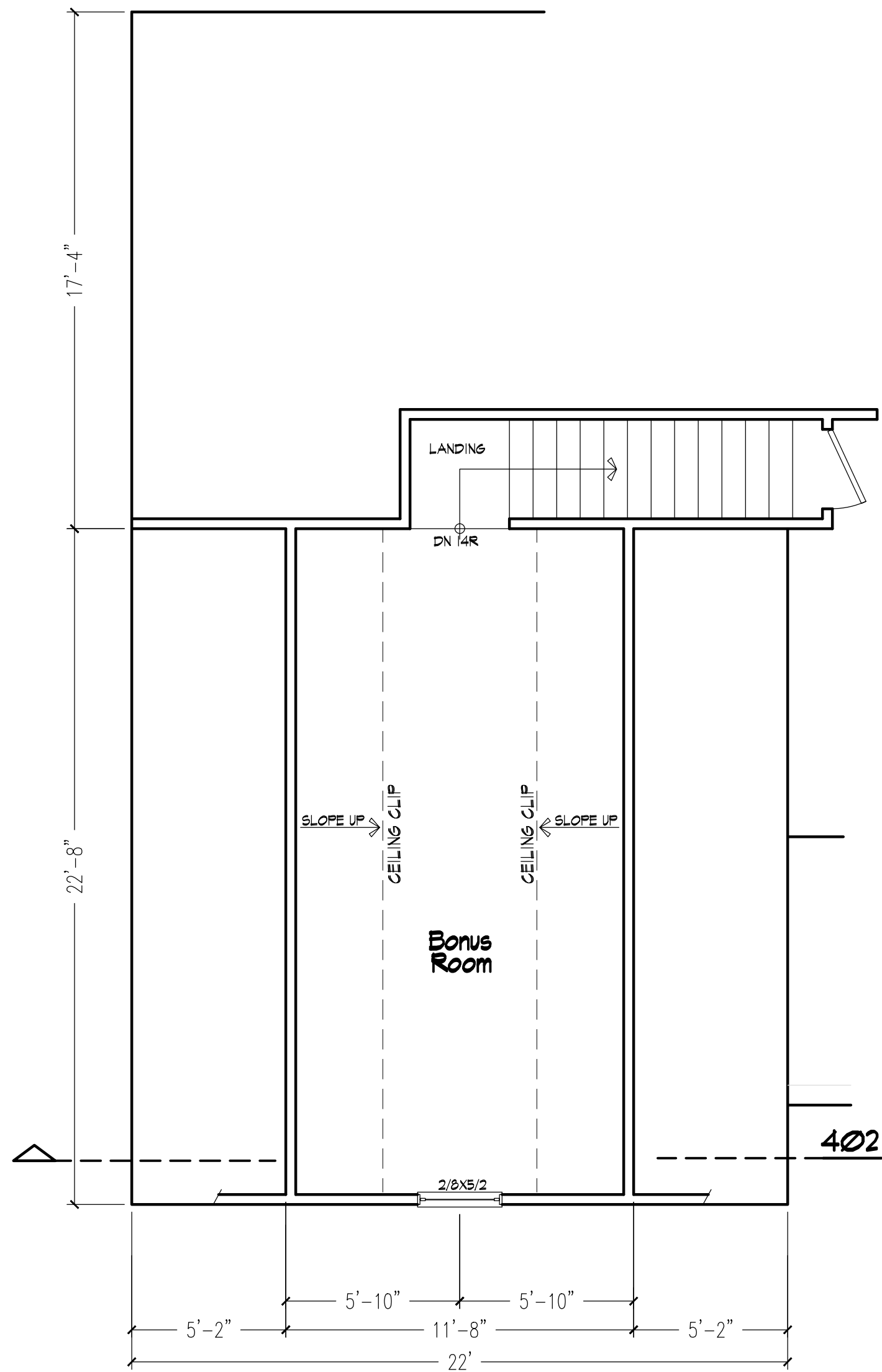
# 201 Main Floor Plan

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

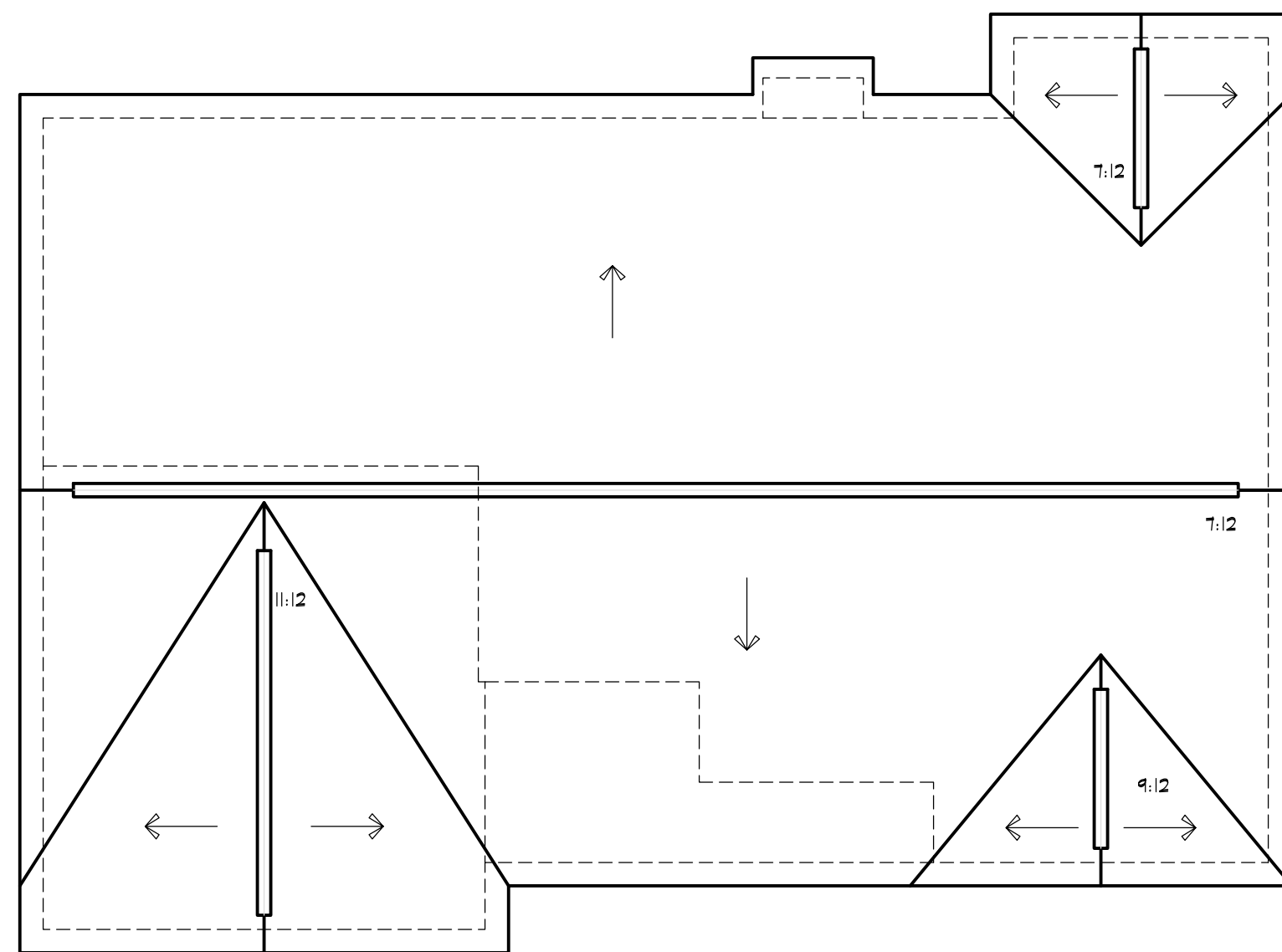
Revisions  
 Reversed  
 Sept. 21, 2020

Scale:  
 as shown  
 Date:  
 September 2020

Sheet No.  
**2**



**301 Bonus Room Floor Plan**  
Scale: 1/4" = 1'-0"

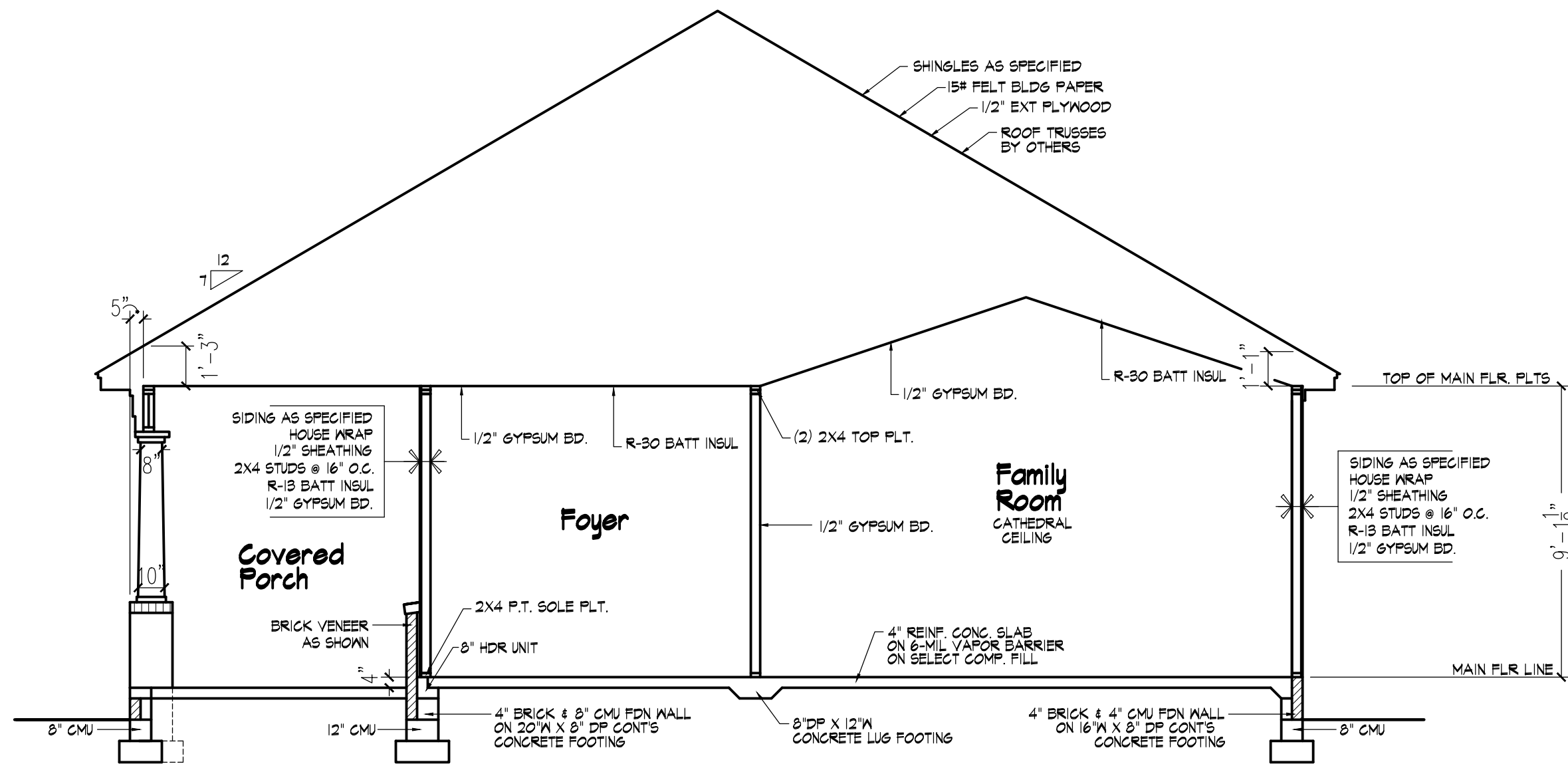


**302 Roof Plan**  
Scale: 1/8" = 1'-0"

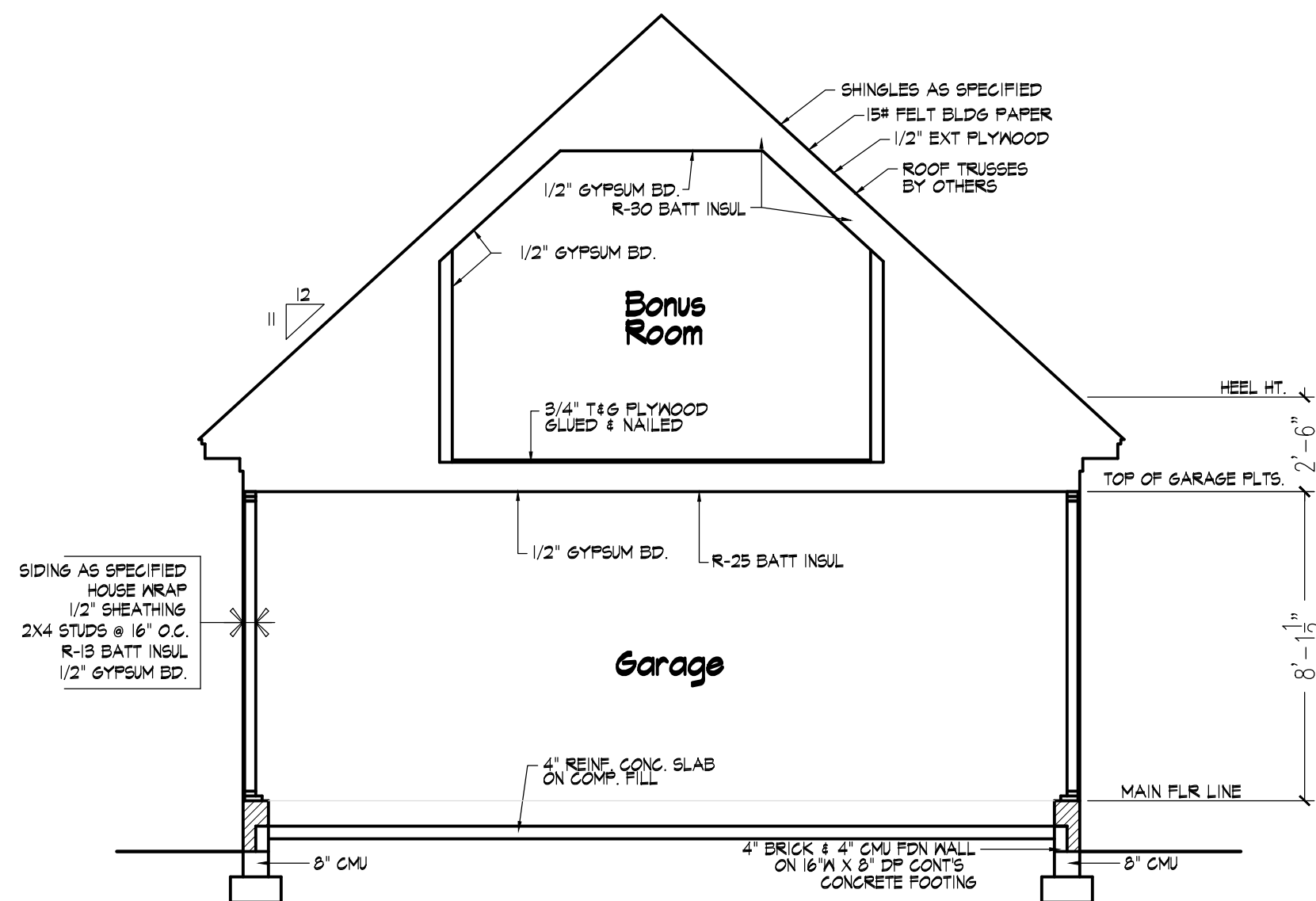
Revisions  
 Reversed  
 Sept. 21, 2020

Scale:  
 as shown  
 Date:  
 September 2020

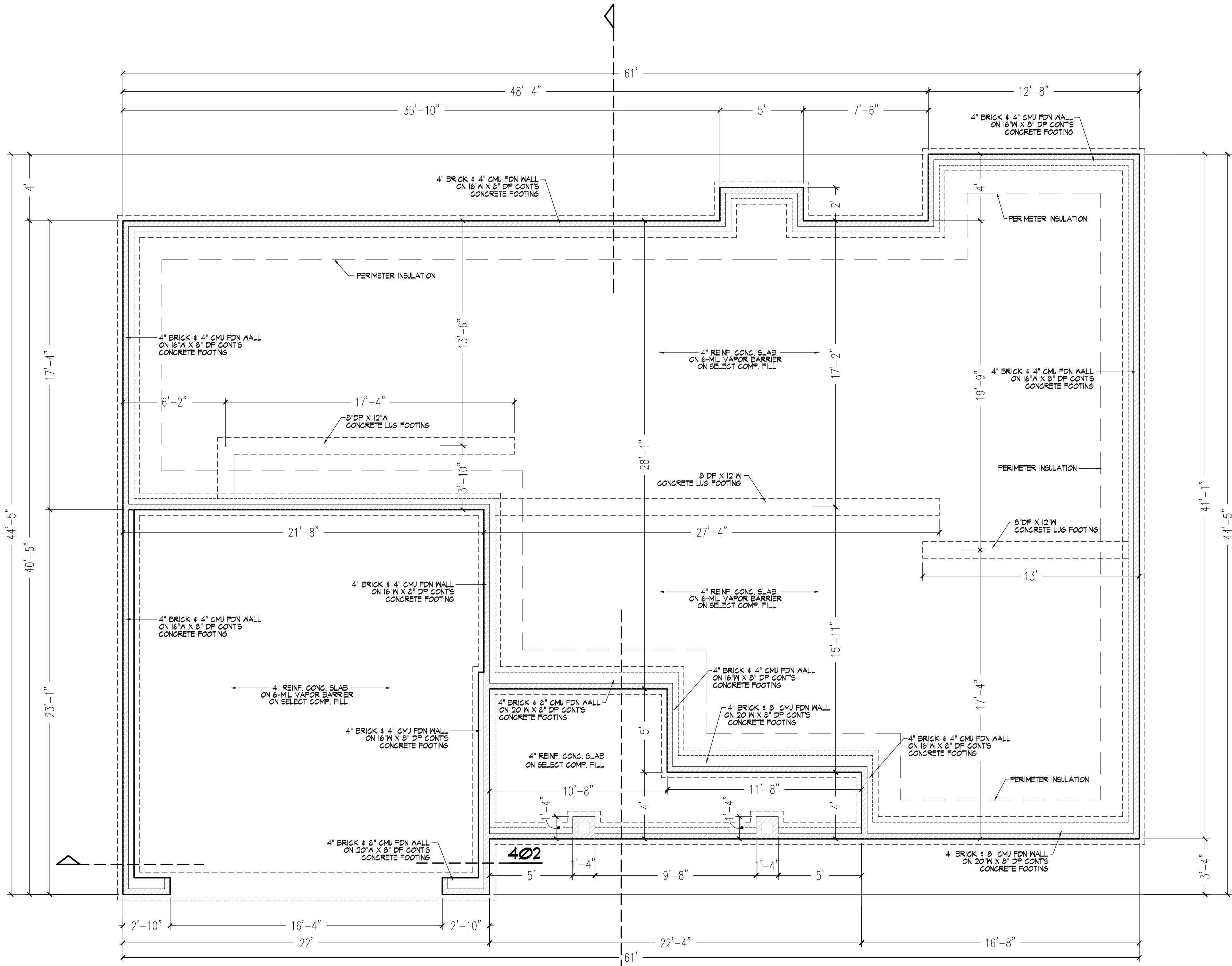
Sheet No.  
**3**



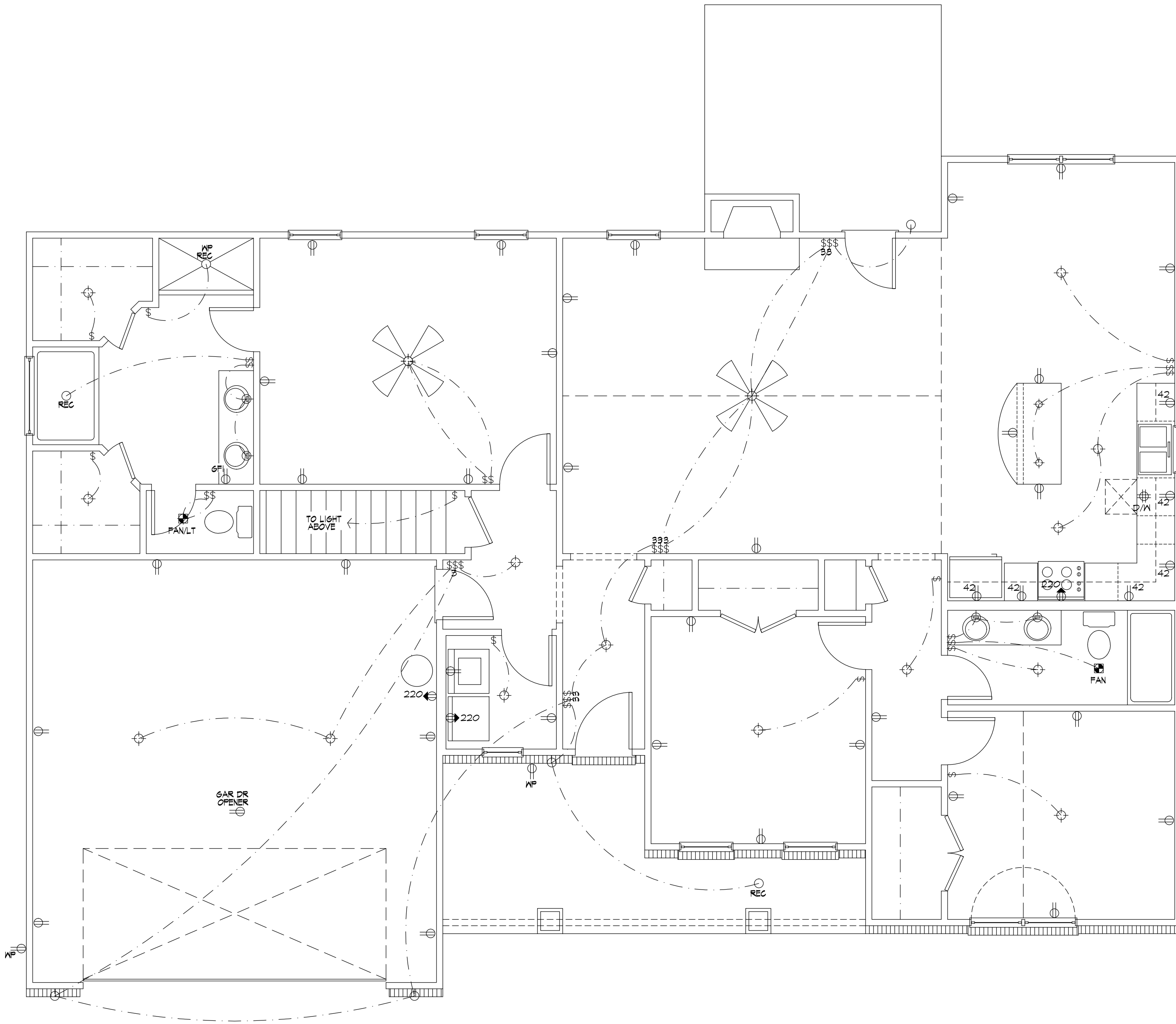
**401 Building Section**  
Scale 1/4" = 1'-0"



**402 Building Section**  
Scale 1/4" = 1'-0"



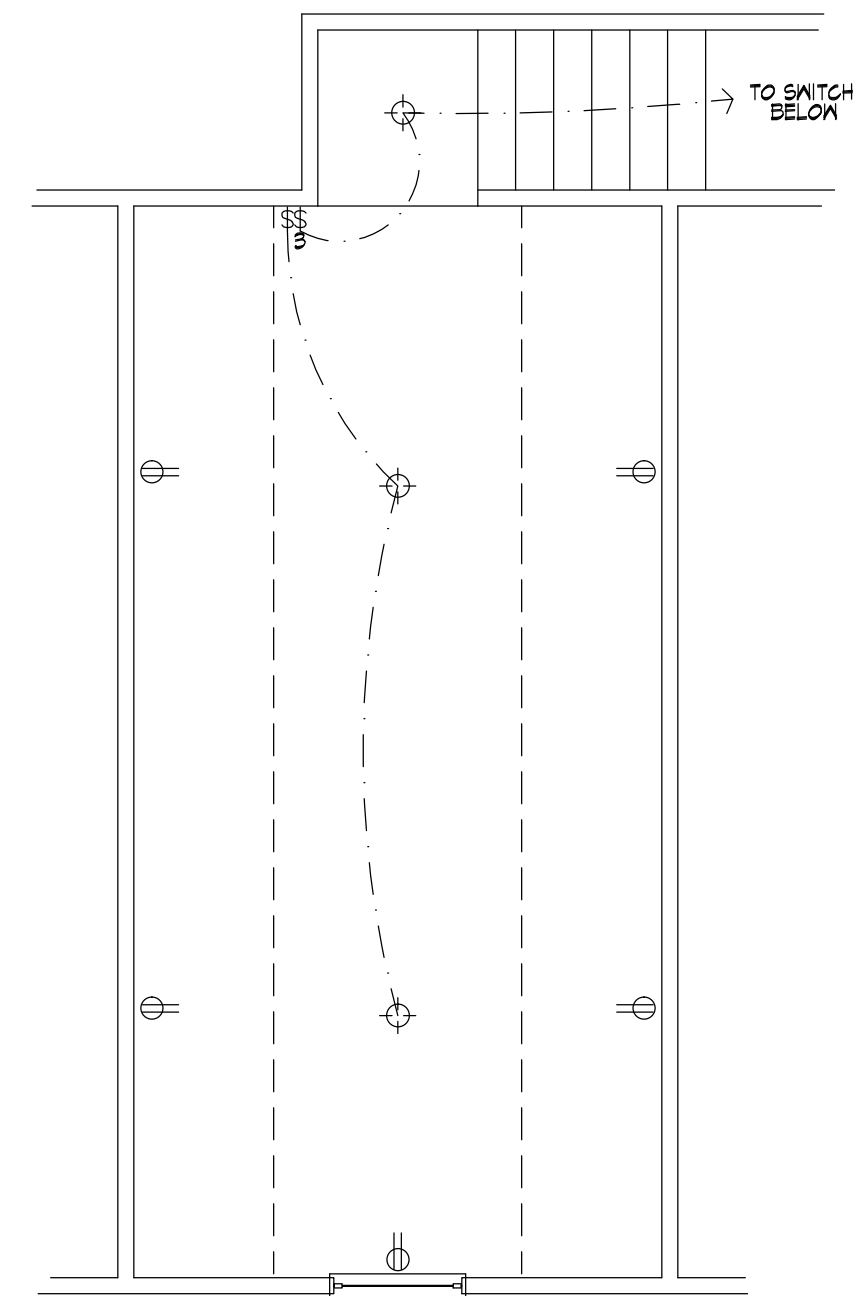
**501 Foundation Plan**  
 Scale: 1/4" = 1'-0"



### 601 Main Floor Electrical Plan

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

ELECTRICAL SYMBOLS	
	TYPICAL WALL RECEPTACLE
	110 V - 42" AFF
	HALF HOT AND HALF SWITCHED
	WATERPROOF RECEPTACLE
	110 V - GROUND FAULT
	220 V OUTLET
	110 V OUTLET - FLOOR MOUNT CEILING RECEPTACLE
	TOUCH - PAD
	TYPICAL SWITCH
	3 WAY OR MORE (SEE PLAN)
	DIMMER SWITCH
	LIGHT - WALL MOUNT
	LIGHT - CEILING MOUNT
	RECESSED LIGHT
	EXHAUST FAN
	LIGHT - FAN COMBINATION
	FLOOD LIGHTS
	FLOURESCENT TUBE
	FLOURESCENT LIGHT FIXTURE
	CLG. FAN
	PHONE JACK
	TV CABLE JACK
	MASTER FLOOD LIGHT SWITCH



### Bonus Room 602 Electrical Floor Plan

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

Project Title  
**The Lindsay**  
 Sheet Title  
**Electrical Plan**

Revisions  
 Reversed  
 Sept. 21, 2020

Scale:  
 as shown  
 Date:  
 September 2020

Sheet No.

**6**



### ROOF & FLOOR TRUSSES & BEAMS

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

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Code requirements ) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Curtis Quick  
Curtis Quick

#### LOAD CHART FOR JACK STUDS

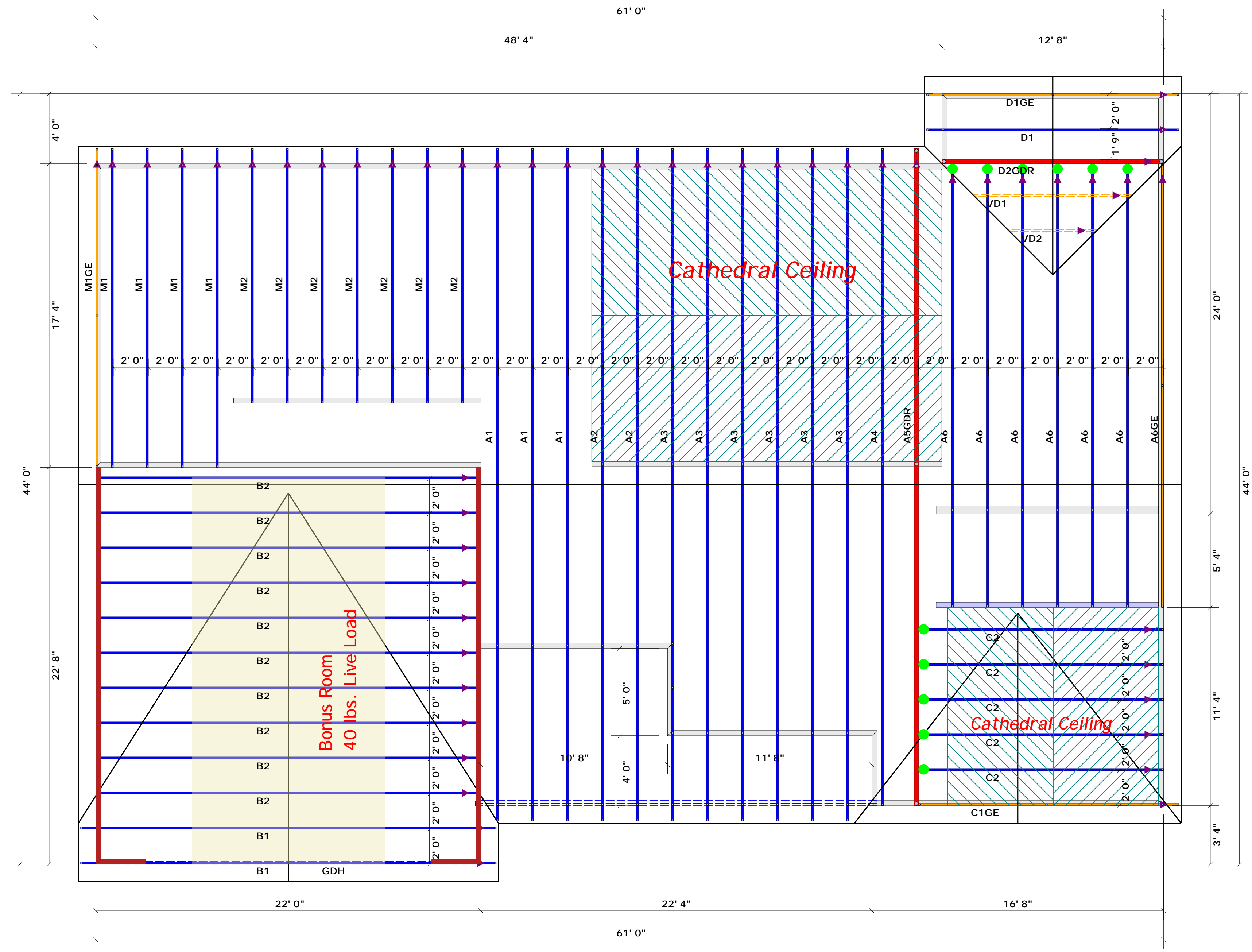
(BASED ON TABLES ROU11C & 12C)  
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/STROPS

END REACTION (IP-TON)	REQ'D STUDS FOR EACH END OF HEADERS/STROPS	END REACTION (IP-TON)	REQ'D STUDS FOR EACH END OF HEADERS/STROPS
1700	1	2550	1
3400	2	5100	2
5100	3	7650	3
6800	4	10200	4
8500	5	12750	5
10200	6	15300	6
11900	7		
13600	8		
15300	9		

CITY / CO.	Harnett Co. / Harnett
ADDRESS	Lot 91 Hidden Lakes
MODEL	Model
DATE REV.	09/28/20
DRAWN BY	Curtis Quick
SALES REP.	Lenny Norris

BUILDER	Wellco Contractors
JOB NAME	Lot 91 Hidden Lakes
PLAN	The Lindsay
SEAL DATE	Seal Date
QUOTE #	Quote #
JOB #	J0920-4399

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.



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

Hatch Legend  
Garage Walls Dropped 1'

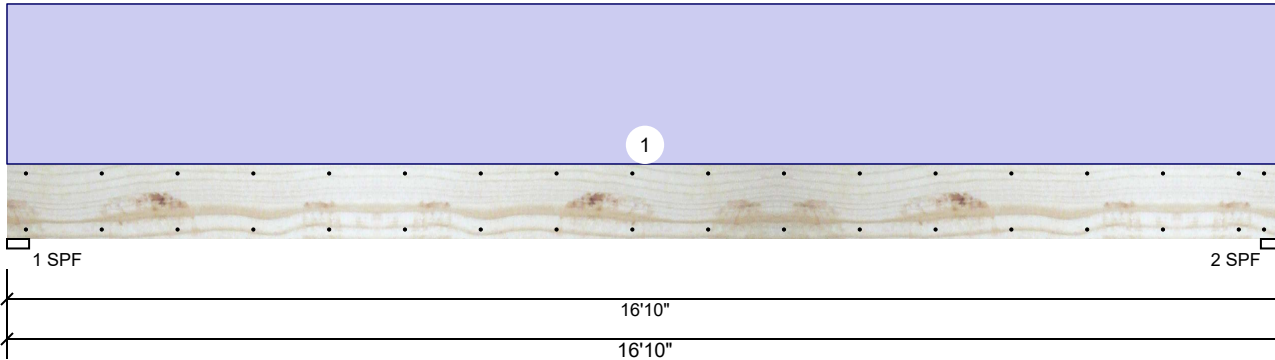
Truss Placement Plan  
SCALE: 1/4" = 1'

HANGER LEGEND  
● = USP HUS26 / Single 2x Hanger

Beam Legend				
PlotID	Length	Product	Plies	Net Qty
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

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

Level: Level



**Member Information**

Type: Girder	Application: 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	
Temperature: Temp <= 100°F	

**Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	0	2182	0	0	0
2	0	2182	0	0	0

**Bearings**

Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	3.500"	42%	2182 Uniform	D
2 - SPF	3.500"	42%	2182 Uniform	D

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8689 ft-lb	8'5"	17919 ft-lb	0.485 (48%)	D	Uniform
Unbraced	8689 ft-lb	8'5"	8700 ft-lb	0.999 (100%)	D	Uniform
Shear	1866 lb	15'7 3/8"	7980 lb	0.234 (23%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.453 (L/433)	8'5 1/16"	0.546 (L/360)	0.830 (83%)	D	Uniform

**Design Notes**

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 10'9" o.c.
- 6 Bottom 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	Uniform			Top	250 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

**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.

**Lumber**

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

**Handling & Installation**

1. LVL 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

6. For flat roofs provide proper drainage to prevent ponding

**Manufacturer Info**

Metsä Wood  
 3071 Commerce Dr, Suite E  
 Fort Gratiot, MI 48059  
 (800) 622-5850  
 www.metsawood.com/us  
 ICC-ES: ESR-3633

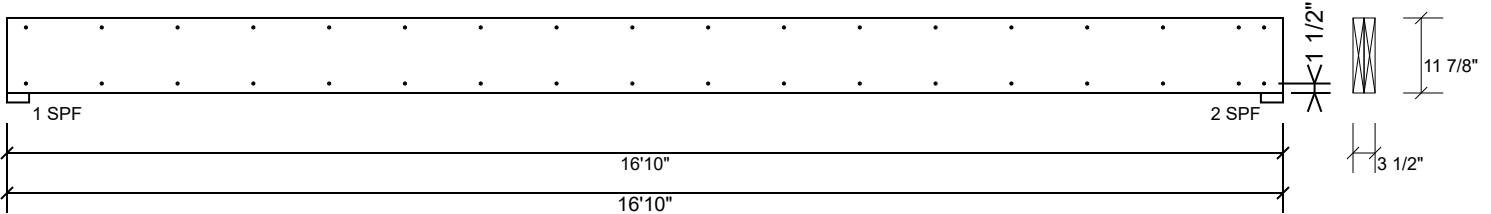
Comtech, Inc.  
 1001 S. Reilly Road, Suite #639  
 Fayetteville, NC  
 USA  
 28314  
 910-864-TRUS





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

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**

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.

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chemicals

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