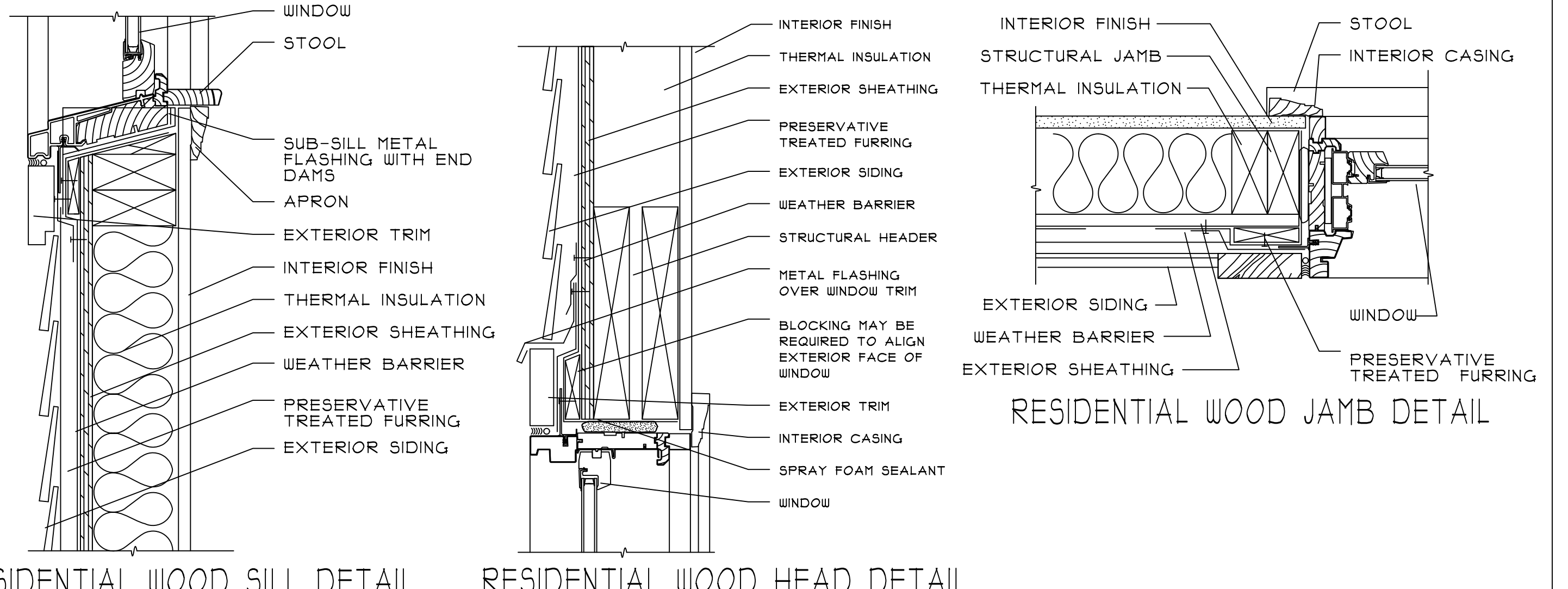
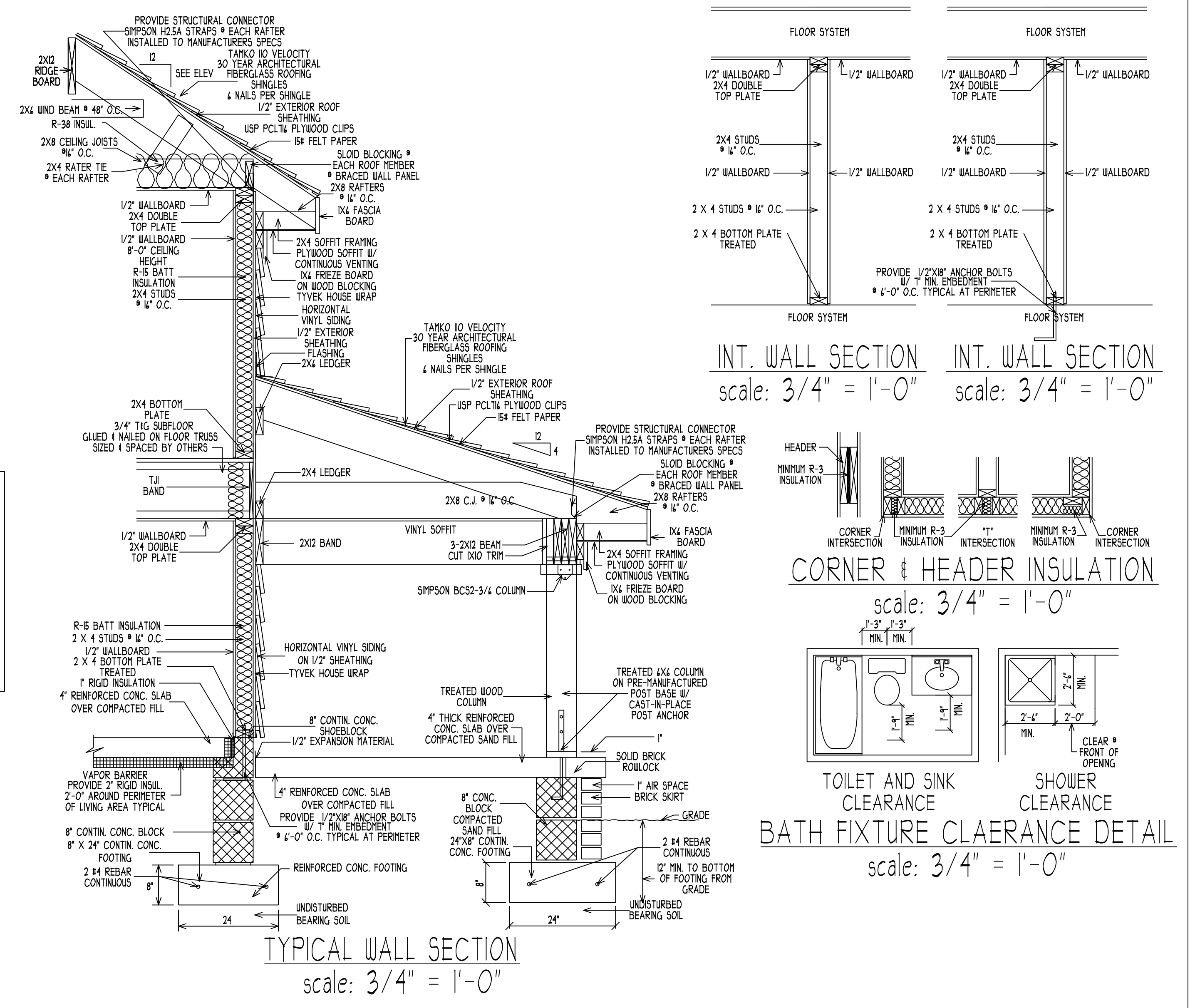


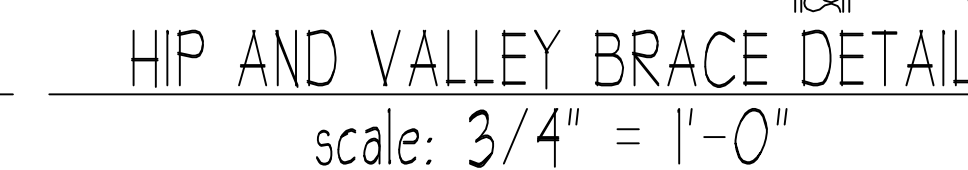
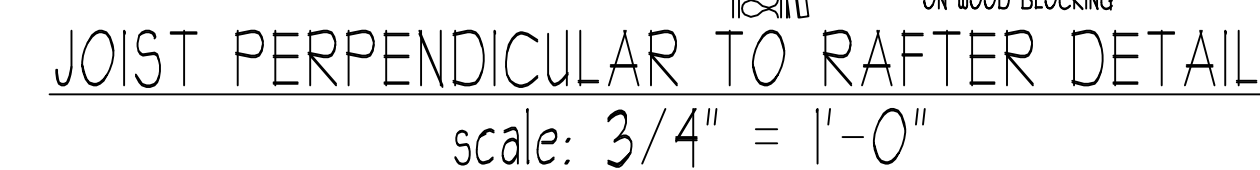
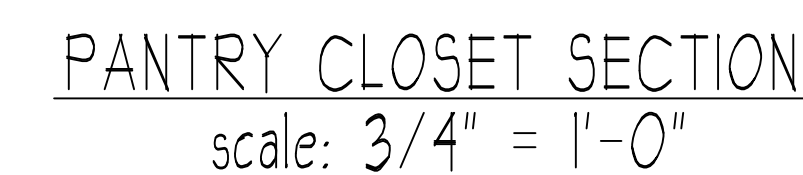
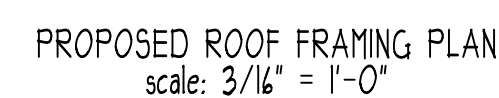
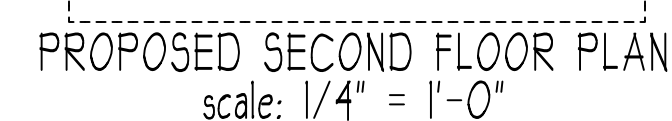
WOOD HEADER & GIRDER SCHEDULE AS PER TABLE R502.5(1) AND R502.5(2)						
WOOD HEADER SIZE	EXTERIOR BEARING WALLS				INTERIOR BEARING WALLS	
	ROOF & CEILING	ROOF,CLG. & ONE CENTER BEARING FLR.	ROOF,CLG. & ONE CLEAR BEARING FLR.	ROOF,CLG. & TWO CENTER BEARING FLR.	ONE FLR. ONLY	TWO FLOORS
2-2X4	SPAN	SPAN	SPAN	SPAN	SPAN	SPAN
	2'-6"	3'-1"	2'-8"	2'-1"	3'-1"	
	3'-2"	2'-9"	2'-4"	2'-3"	2'-8"	
2-2X6	2'-10"	2'-5"	2'-1"	2'-0"	2'-5"	
	2'-5"	4'-6"	3'-11"	3'-9"	4'-6"	3'-2"
	4'-8"	4'-0"	3'-5"	3'-3"	3'-11"	2'-9"
2-2X8	3'-6"	3'-1"	3'-0"	2'-11"	3'-6"	2'-5"
	2'-10"	5'-9"	4'-9"	4'-9"	5'-9"	4'-1"
	5'-11"	5'-0"	4'-4"	4'-2"	5'-0"	3'-6"
3-2X8	5'-4"	4'-6"	4'-10"	3'-11"	4'-5"	3'-2"
	6'-4"	1'-2"	6'-3"	5'-11"	7'-2"	5'-1"
	7'-5"	5'-8"	6'-5"	5'-2"	6'-3"	4'-5"
2-2X10	6'-8"	5'-0"	4'-10"	3'-11"	4'-11"	3'-10"
	7'-3"	7'-0"	6'-1"	5'-9"	6'-1"	4'-3"
	8'-4"	5'-6"	4'-8"	4'-1"	5'-5"	3'-10"
3-2X10	10'-4"	8'-9"	7'-1"	1'-3"	8'-9"	6'-2"
	9'-1"	1'-8"	6'-1"	6'-4"	1'-1"	5'-4"
	8'-2"	6'-11"	5'-11"	5'-8"	6'-9"	4'-10"
2-2X12	9'-9"	8'-1"	1'-1"	6'-8"	8'-1"	5'-9"
	8'-5"	1'-1"	6'-1"	5'-10"	1'-0"	5'-0"
	1'-6"	6'-5"	5'-5"	5'-3"	6'-3"	4'-5"
3-2X12	12'-2"	10'-2"	8'-10"	8'-5"	10'-2"	7'-2"
	10'-1"	8'-11"	7'-8"	1'-4"	8'-10"	6'-3"
	9'-5"	8'-0"	6'-10"	6'-1"	1'-10"	5'-1"

BUILDING DESIGN LOADS	
ROOF DEAD LOAD	20 P.S.F.
ROOF LIVE LOAD	20 P.S.F.
ATTICS (w/ LIMITED STORAGE) LIVE LOAD	20 P.S.F.
DECK LIVE LOAD	40 P.S.F.
ROOMS (OTHER THAN SLEEPING) LIVE LOAD	40 P.S.F.
SLEEPING ROOMS LIVE LOAD	30 P.S.F.
STAIR LIVE LOAD	40 P.S.F.
GROUND SNOW LOAD	10 P.S.F.
SLAB ON GRADE	100 P.S.F.
WIND LOAD	120 M.P.H.
WIND EXPOSURE	B
SEISMIC DESIGN LOAD	A

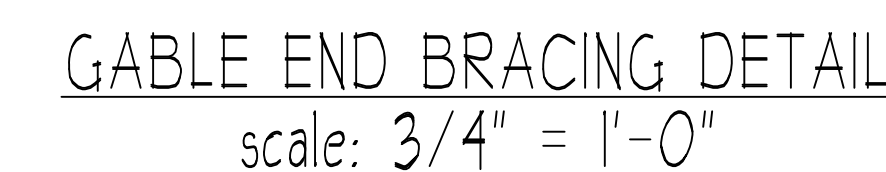


FENTRESS HOME DESIGN RESIDENTIAL PLANS / ADDITIONS virginia beach, virginia OFFICE (757) 438-5053	drawn by: BCF	PROPOSED TWO STORY BRICK & FRAME SINGLE FAMILY DWELLING prepared for: HOST RESIDENCE	sheet A-2 of 6
	date: 4/21/21		Host Residence
	scale: NOTED		file no. 21-42121

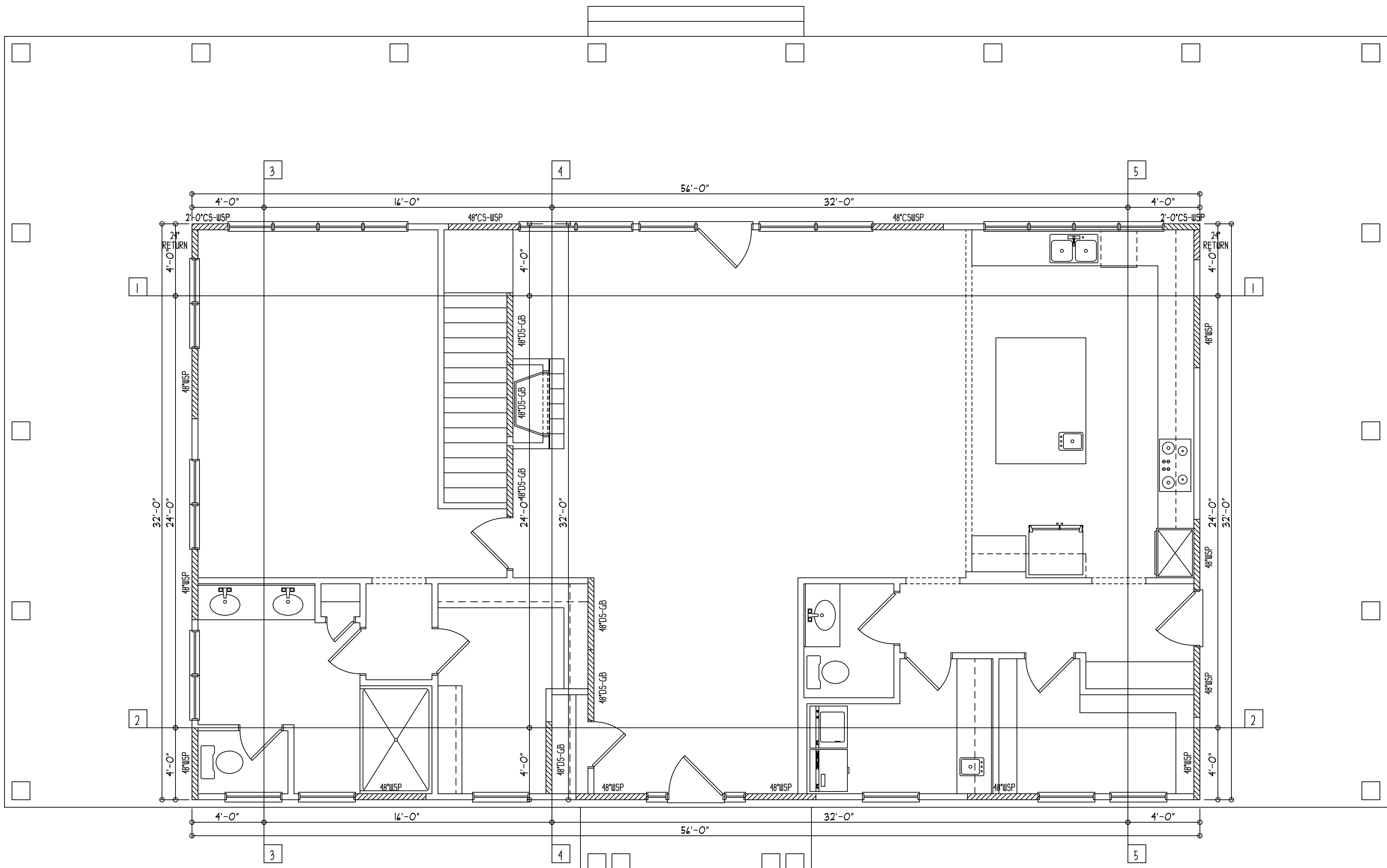




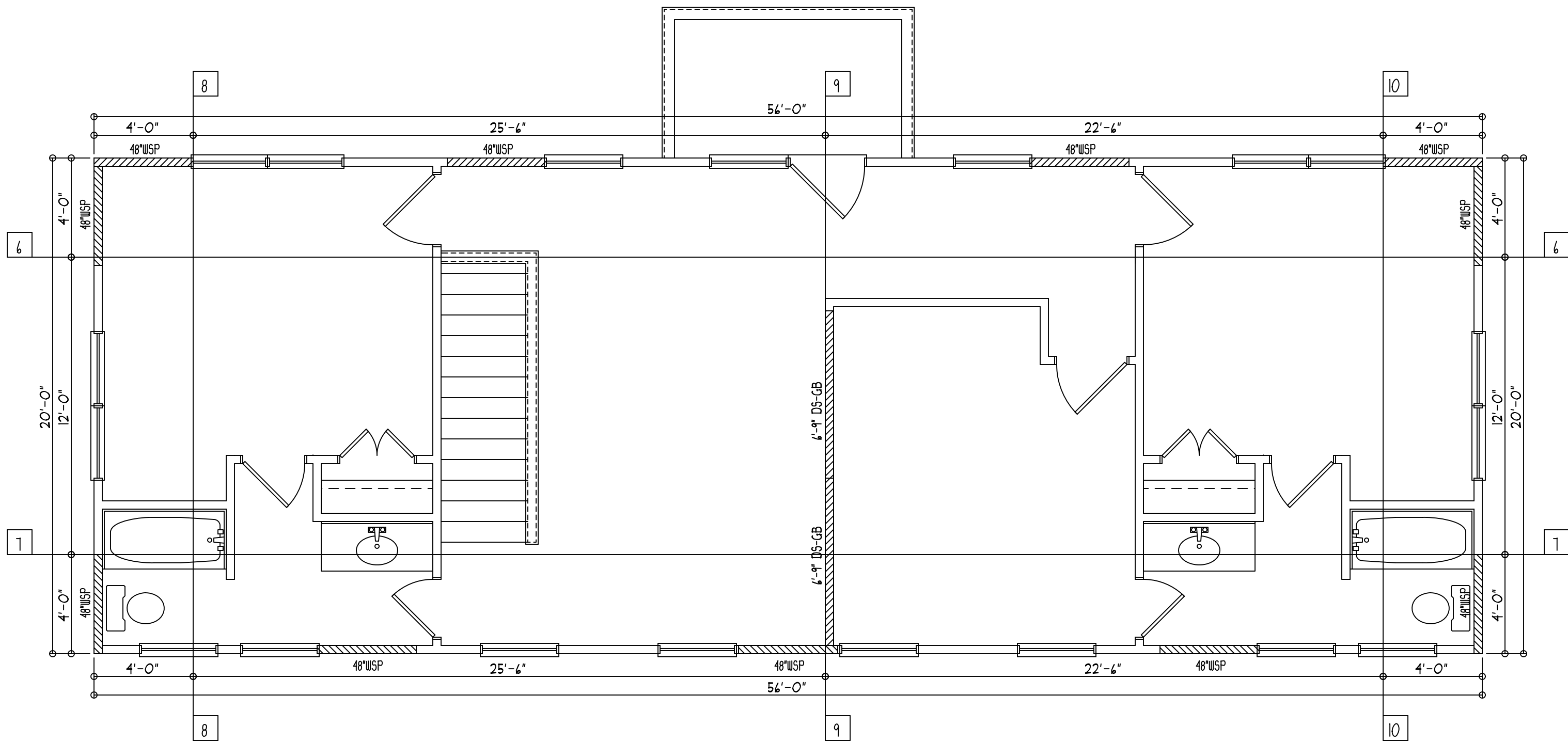
ATTIC VENTILATION REQUIREMENTS  
 RIDGE VENT = 12 SQ.IN. PER FOOT  
 SOFFIT VENT = 9 SQ.IN. PER FOOT  
 $\frac{3488}{300} = 11.62$  SQ.FT. OF NET FREE AREA  
 11.62 SQ.FT. \* 2 X 144 = 12 = 69.12 LIN. FT. RIDGE VENT  
 11.62 SQ.FT. \* 2 X 144 = 9 = 92.96 LIN. FT. SOFFIT VENT



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	date: 4/21/21		Host Residence
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FIRST FLOOR BRACED WALL PLAN scale: 1/4" = 1'-0"



SECOND FLOOR BRACED WALL PLAN scale: 1/4" = 1'-0"

Ultimate Wind Speed (mph)		120																				
BWL Designation		1		2		3		4		5		6		7		8		9		10		
No. of Floors above BWL		1		1		1		1		1		0		0		0		0		0		
BWP Method		CS-WSP		WSP		WSP		GB		WSP		WSP		WSP		WSP		GB		WSP		
Average BWL Spacing (ft)		24		24		16		24		32		12		12		25.5		24		22.5		
Tabular Requirement (ft)		8.00		9.40		6.60		16.40		12.20		2.80		2.80		5.10		8.40		4.50		
Adjustments	Exposure		B	1.00	B	1.00	B	1.00	B	1.00	B	1.00	B	1.00	B	1.00	B	1.00	B	1.00	B	1.00
	Eave-to-Ridge Ht. (ft)		11.50	1.05	11.50	1.05	11.50	1.05	11.50	1.05	11.50	1.05	11.50	1.09	11.50	1.09	11.50	1.09	11.50	1.09	11.50	1.09
	Max. Wall Ht. (ft)		9.00	0.95	9.00	0.95	9.00	0.95	9.00	0.95	9.00	0.95	11.00	1.05	11.00	1.05	11.00	1.05	11.00	1.05	11.00	1.05
	No. of BWLs		2	1.00	2	1.00	3	1.30	3	1.30	3	1.30	2	1.00	2	1.00	3	1.30	3	1.30	3	1.30
	Omit Interior Finish?		No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00
	Added Hold-downs?		No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00
	Joints Blocked?		Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00
	Fasteners @ 4" o.c.?		No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00
Required BWP Length (ft)		7.94		9.33		8.52		21.17		15.75		3.20		3.20		7.59		12.50		6.70		
Actual BWPs	Contributing Length (ft)	BWP	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length
		1	CS-WSP	2.00	WSP	4.00	WSP	4.00	GB (ds)	4.00	WSP	4.00	WSP	4.00	WSP	4.00	WSP	4.00	GB (ds)	6.75	WSP	4.00
		2	CS-WSP	4.00	WSP	4.00	WSP	4.00	GB (ds)	4.00	WSP	4.00	WSP	4.00	WSP	4.00	WSP	4.00	GB (ds)	6.75	WSP	4.00
		3	CS-WSP	4.00	WSP	4.00	WSP	4.00	GB (ds)	4.00	WSP	4.00	WSP	4.00	WSP	4.00						
		4	CS-WSP	2.00	WSP	4.00			GB (ds)	4.00	WSP	4.00	WSP	4.00								
		5							GB (ds)	4.00												
		6							GB (ds)	4.00												
		7																				
Actual BWP Length (ft)		12.00		16.00		12.00		24.00		16.00		16.00		12.00		8.00		13.50		8.00		
Actual ≥ Required?		PASS		PASS		PASS		PASS		PASS		PASS		PASS		PASS		PASS		PASS		
BWPs ≤ 20' Apart?		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		
≥ 2 Panels in BWL?		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		
BWP 10' from Ends?		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		
Continuous Sheathing End Conditions		End 1 1	End 2 1	End 1 NA	End 2 NA	End 1 NA	End 2 NA	End 1 NA	End 2 NA	End 1 NA	End 2 NA	End 1 NA	End 2 NA	End 1 NA	End 2 NA	End 1 NA	End 2 NA	End 1 NA	End 2 NA	End 1 NA	End 2 NA	
BWL Compliance		PASS		PASS		PASS		PASS		PASS		PASS		PASS		PASS		PASS		PASS		

INDICATES BRACED WALL PANEL

WALL BRACING METHOD CS-WSP

CONNECTION CRITERIA SHALL HAVE 4d COMMON (2"x0.13") NAILS AT 6" SPACING (PANEL EDGES) AND AT 12" FIELD SPACING OR 1/4 ga. x 1 3/4" STAPLES AT 3" EDGE SPACING AND 6" FIELD SPACING. REQUIRES 2"x4" RETURN WALL OR 800 LB HOLD-DOWN. CONTINUOUS SHEATHING TO BE MINIMUM 3/8" THICK.

WALL BRACING METHOD GB

NAILS AT 1" O.C. SPACING AT PANEL EDGES. NAILS TO BE 15 GAGE, 1 3/8" LONG, 19/64" HEAD, 0.095" DIAMETER, 1 1/4" LONG, ANNULAR-RINGED SD COOLER NAIL, 0.084" DIAMETER, 1 5/8" LONG, 16/64" HEAD, OR GYPSUM BOARD NAIL 0.095" DIAMETER, 1 5/8" LONG, 9/32" HEAD. IF ADJUSTMENT FACTOR IS USED BRACED WALL PANEL MUST HAVE ATTACHMENTS @ 4" O.C. AT PANEL EDGES INCLUDING TOP AND BOTTOM PLATES, AND ALL HORIZONTAL JOINTS BLOCKED.

WALL BRACING METHOD CS-PF

CONNECTION CRITERIA SHALL HAVE 4d COMMON (2"x0.13") NAILS AT 6" SPACING (PANEL EDGES) AND AT 12" FIELD SPACING OR 1/4 ga. x 1 3/4" STAPLES AT 3" EDGE SPACING AND 6" FIELD SPACING. REQUIRES 2"x4" RETURN WALL OR 800 LB HOLD-DOWN. CONTINUOUS SHEATHING TO BE MINIMUM 3/8" THICK. CANNOT BE USED WITH STEEL BEAM HEADER.

WALL BRACING METHOD WSP

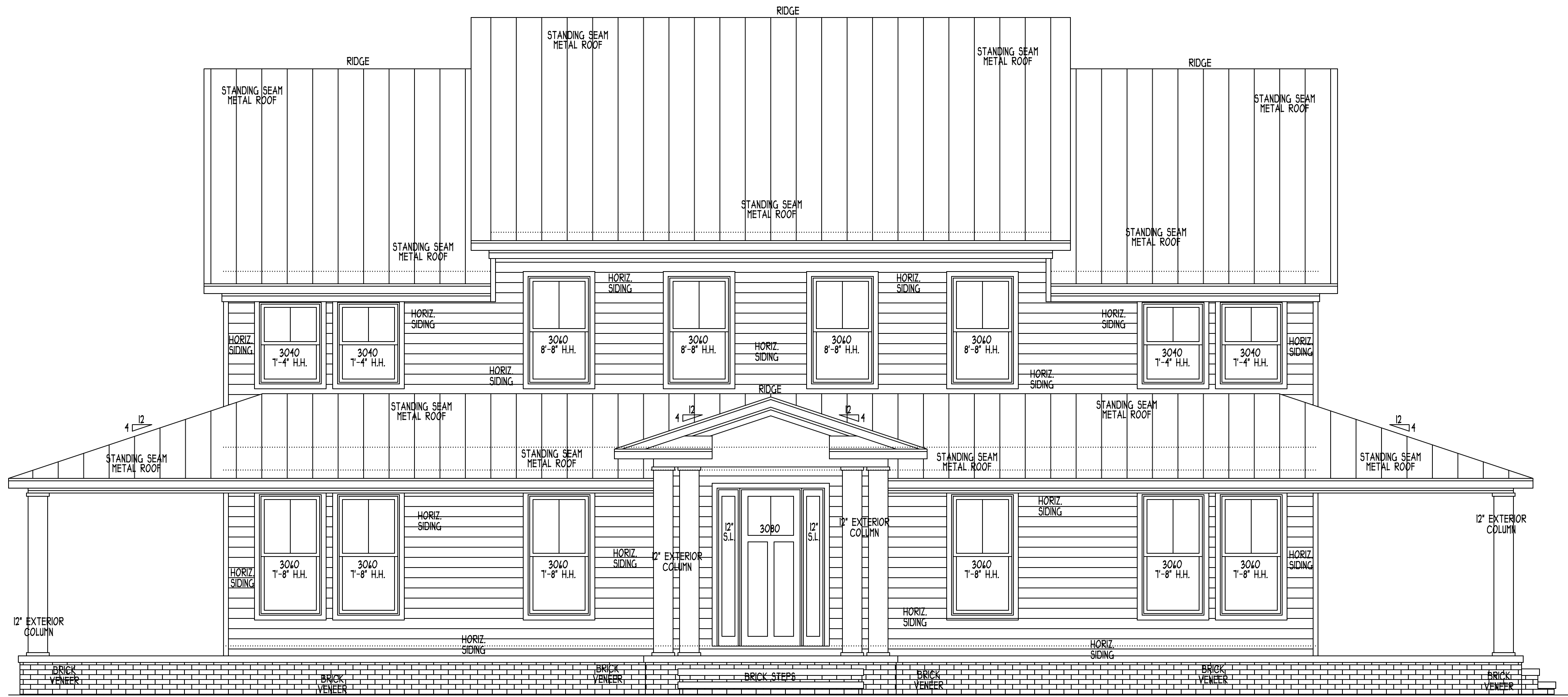
CONNECTION CRITERIA SHALL HAVE 4d COMMON (2"x0.13") NAILS AT 6" SPACING (PANEL EDGES) AND AT 12" FIELD SPACING OR 1/4 ga. x 1 3/4" STAPLES AT 3" EDGE SPACING AND 6" FIELD SPACING. CONTINUOUS SHEATHING TO BE MINIMUM 3/8" THICK.

FENTRESS HOME DESIGN  
RESIDENTIAL PLANS / ADDITIONS  
virginia beach, virginia  
OFFICE  
(757) 438-5053

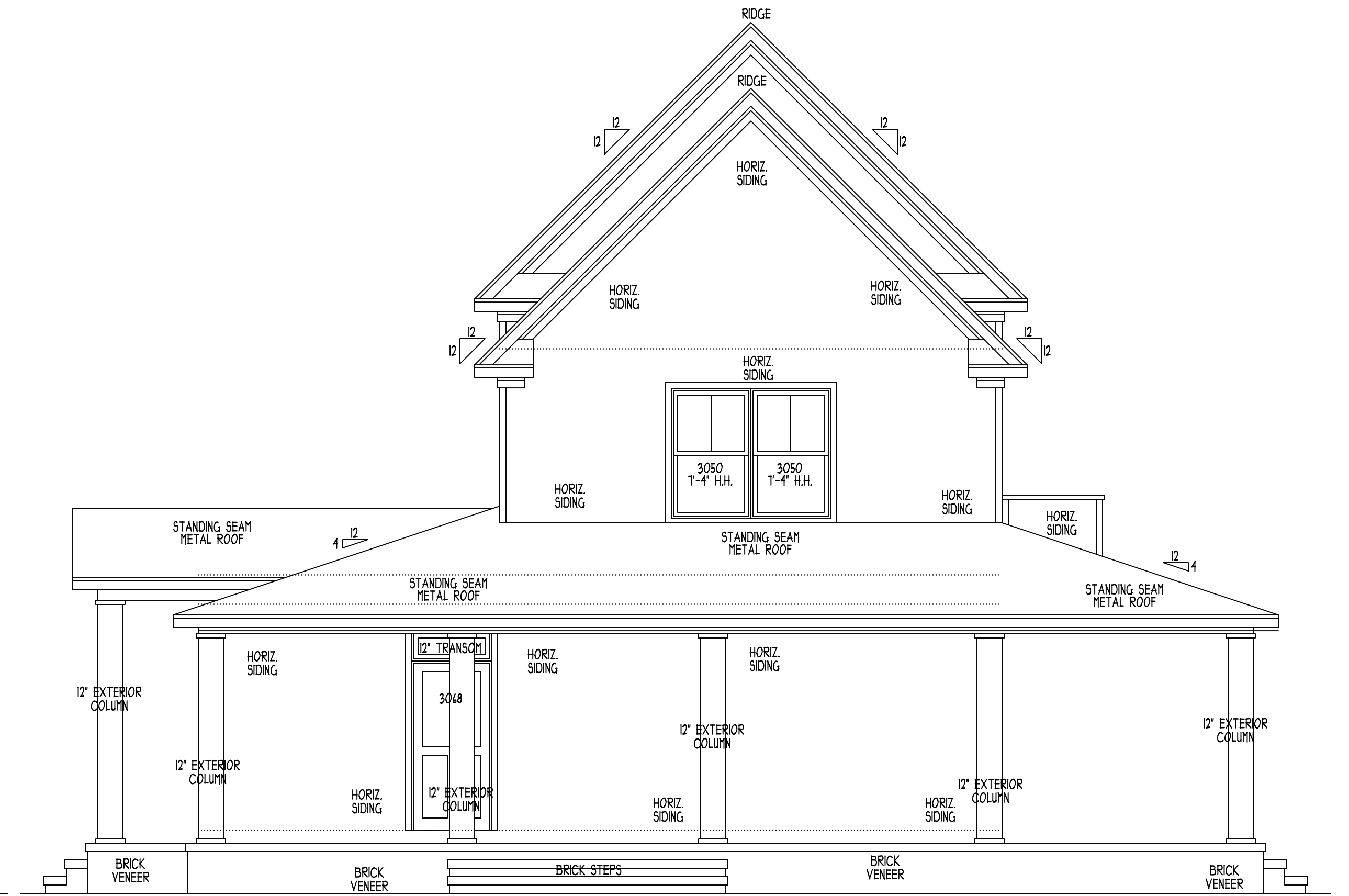
drawn by: BCF  
date: 4/21/21  
scale: NOTED

PROPOSED TWO STORY BRICK & FRAME  
SINGLE FAMILY DWELLING  
prepared for:  
HOST RESIDENCE

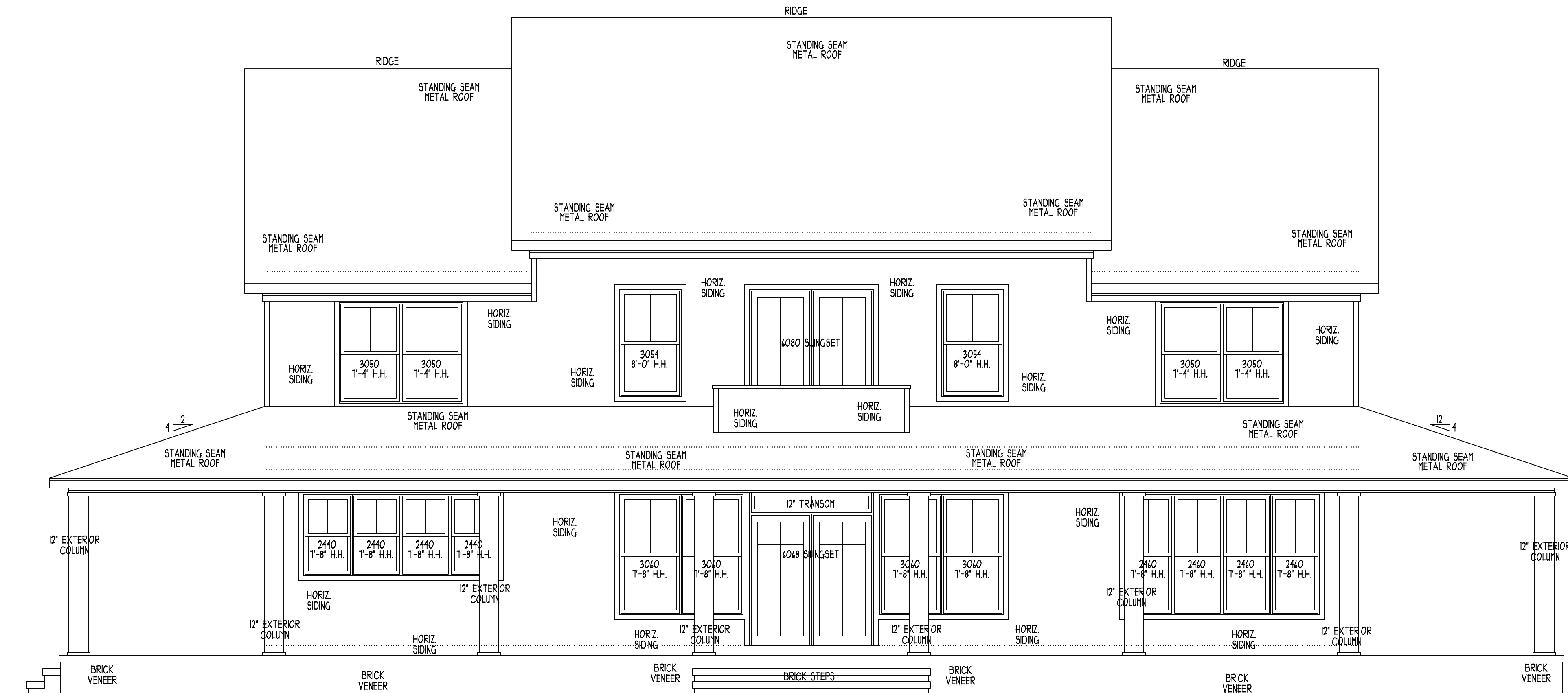
sheet  
A-4 of 6  
Host Residence  
file no. 21-42121



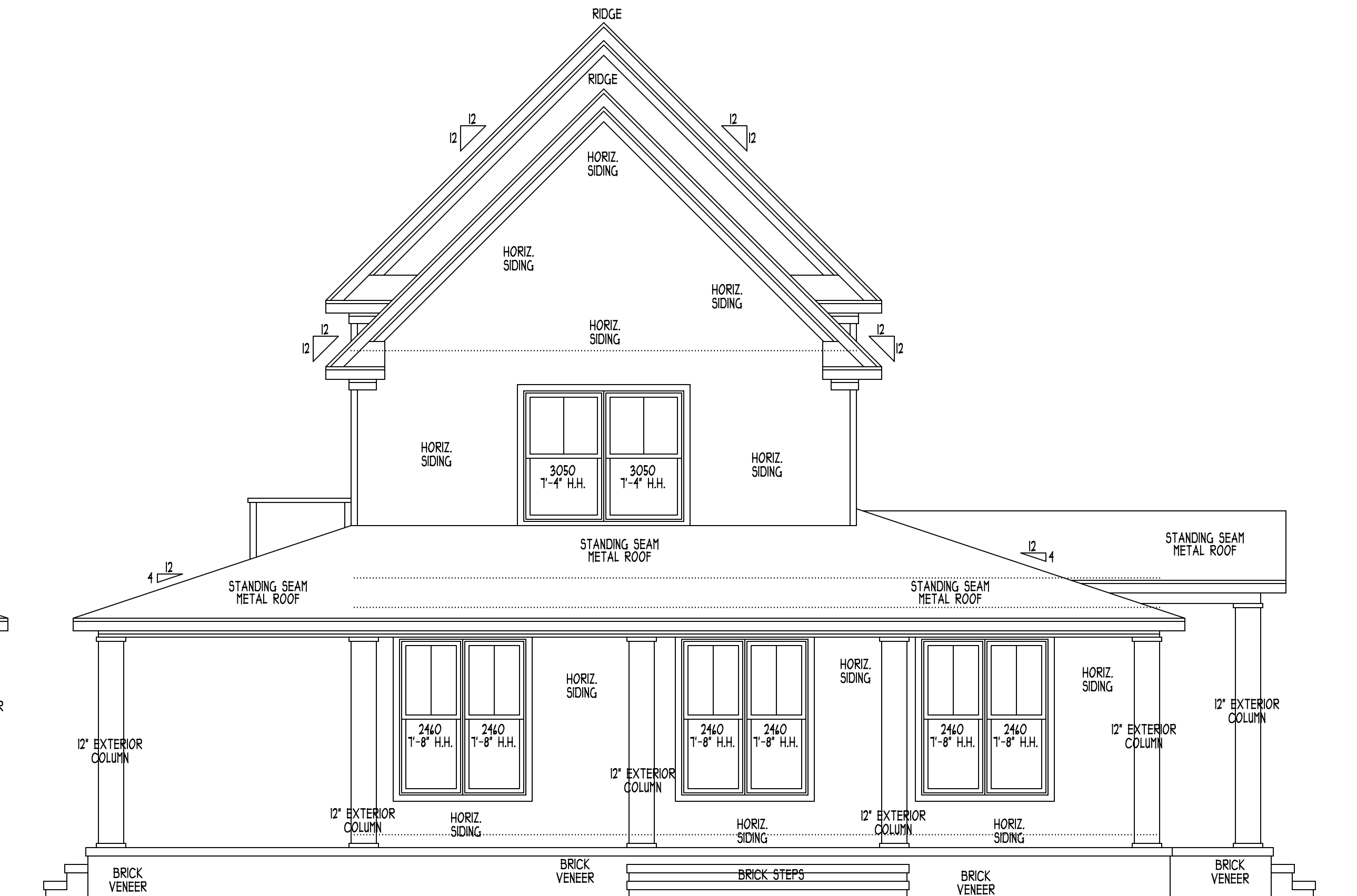
FRONT ELEVATION scale: 1/4" = 1'-0"



RIGHT SIDE ELEVATION scale: 1/4" = 1'-0"



REAR ELEVATION scale: 1/4" = 1'-0"



LEFT SIDE ELEVATION scale: 1/4" = 1'-0"

FENTRESS HOME DESIGN RESIDENTIAL PLANS / ADDITIONS virginia beach, virginia OFFICE (757) 438-5053	drawn by: BCF	PROPOSED TWO STORY BRICK & FRAME SINGLE FAMILY DWELLING prepared for: HOST RESIDENCE	sheet A-5 of 6  Host Residence  file no. 21-42121
	date: 4/21/21		
	scale: NOTED		



