### PLANS DESIGNED TO THE **2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE**

MEAN ROOF HEIGHT: 18'-0	)"	HEIGHT TO R	RIDGE:23'-10
CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
FENESTRATION U-FACTOR	0.35	0.35	0.35
SKYLIGHT U-FACTOR	0.55	0.55	0.55
GLAZED FENESTRATION SHGC	0.30	0.30	0.30
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci
WALL R-VALUE	15	15	19
FLOOR R-VALUE	19	19	30
* BASEMENT WALL R-VALUE	5/13	10/15	10/15
** SLAB R-VALUE	Ö	10	10
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19

\* "10/13" MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION \*\* INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF

FOOTING; INSULATION DEPTH WITH STEM WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B"

		•••••••			1						
COMPONENT	' & CLA	DDING	DESIG	NED FC	)r the	FOLLO	WING I	LOADS			
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'			
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8			
ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2			
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2			
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9			
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4			
DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B"											
COMPONENT	& CLA	DDING	DESIG	NED FC	R THE	FOLLO	WING	LOADS			

COMPONENT	& CLA	DDING	DESIG	NED FC	<u>)r the</u>	FOLLO	WING	LOADS
MEAN ROOF	UP T	'O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'
ZONE 1	16.7	-18.0	17.5	-18.9	18.2	-19.6	18.7	-20.2
ZONE 2	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5
ZONE 3	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5
ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21.3
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	-26.9

# **ROOF VENTILATION**

### SECTION R806

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Inc\200606B

**Builders**,

Home

Z:\Builder\Signature

**R806.1 Ventilation required.** Enclosed *attics* and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.

R806.2 Minimum area. The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling. Exceptions:

1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only. 2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit vent only.

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,619 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 17.46 SQ.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 8.73 SQ.FT.

# **GUARD RAIL NOTES**

### SECTION R312

**R312.1 Where required.** *Guards* shall be located along open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads. Exceptions:

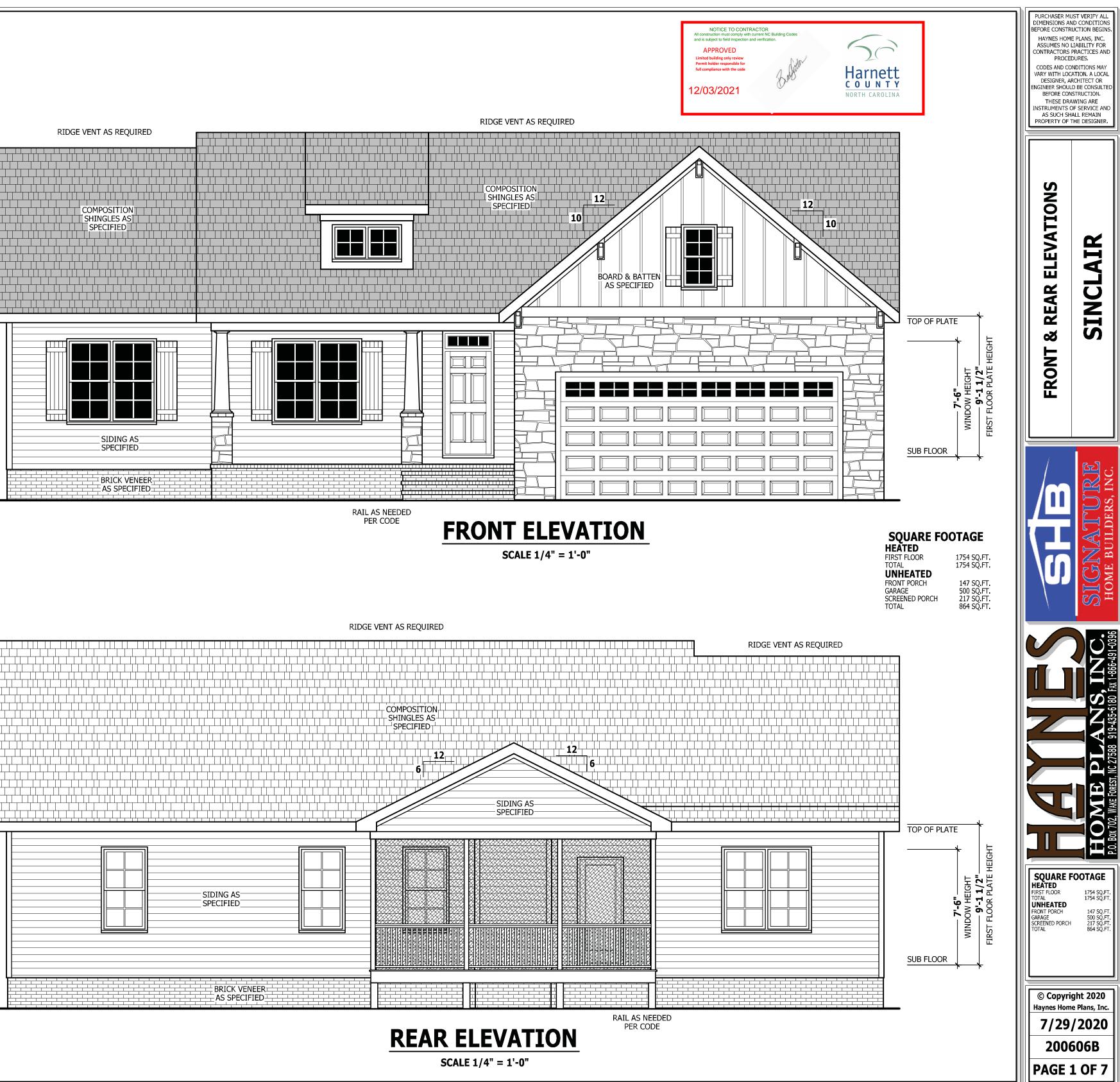
1. *Guards* on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.

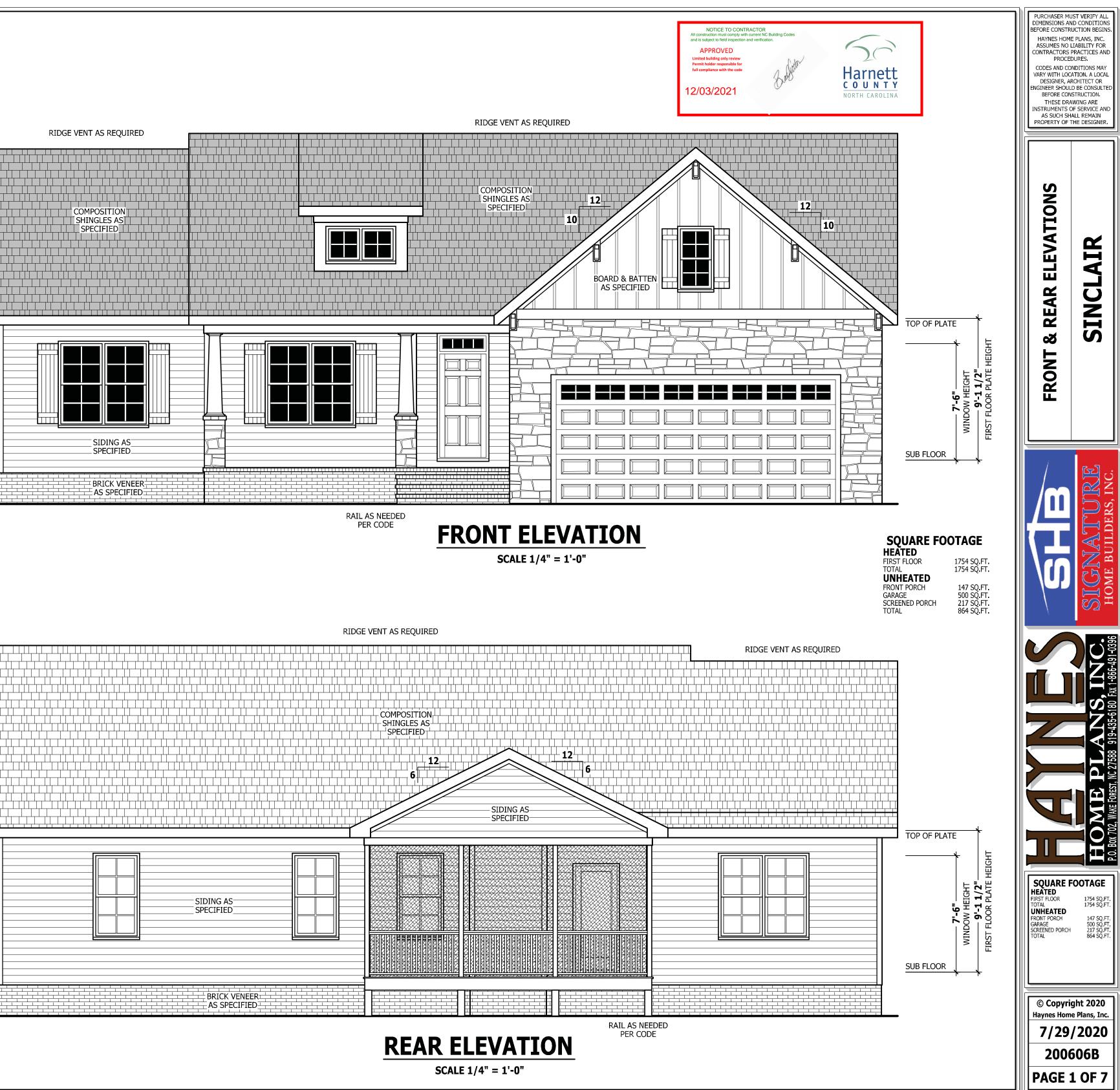
2. Where the top of the *guard* also serves as a handrail on the open sides of stairs, the top of the *guard* shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

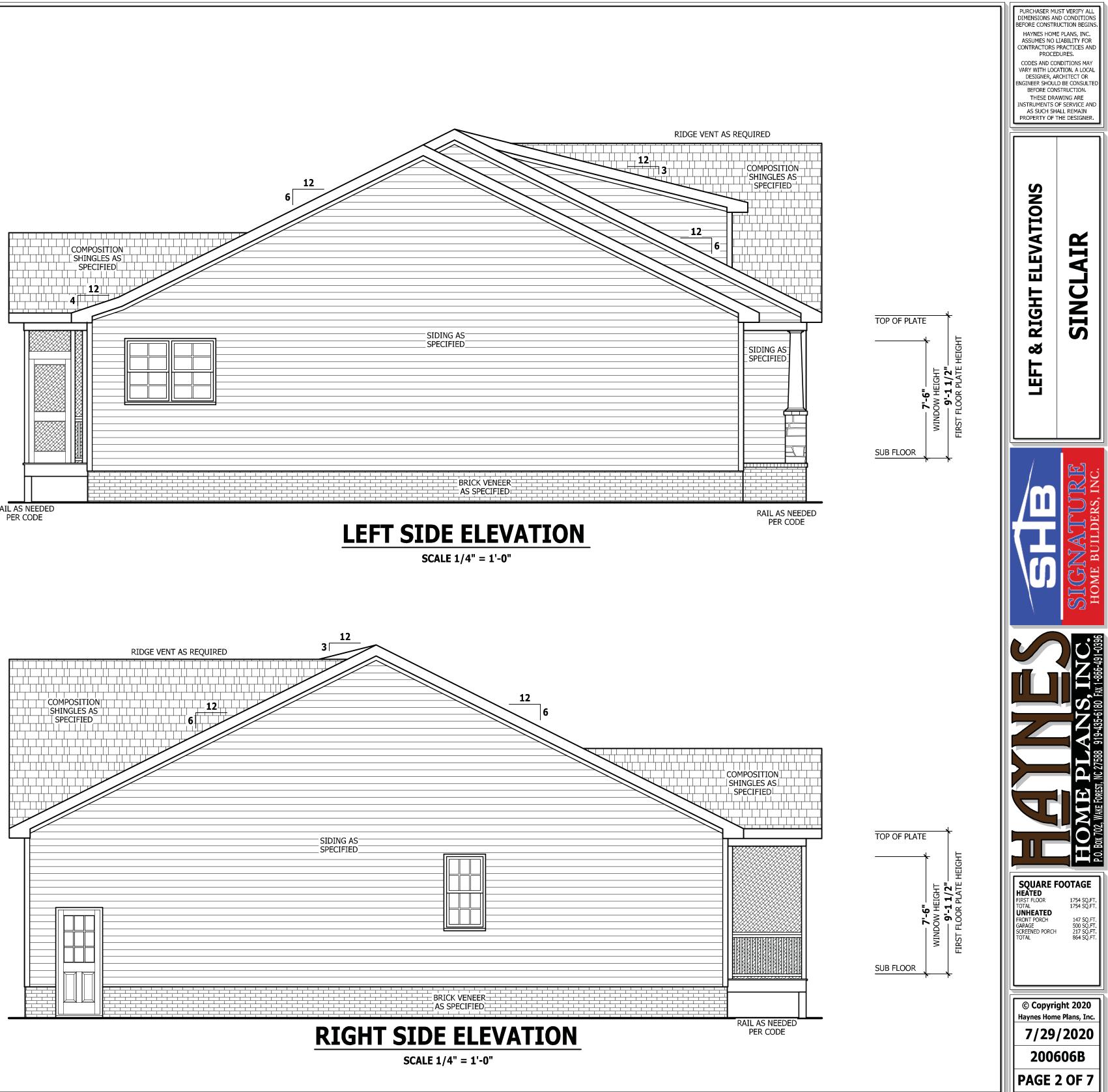
R312.3 Opening limitations. Required guards shall not have openings from the walking surface to the required *guard* height which allow passage of a sphere 4 inches (102 mm)in diameter Exceptions:

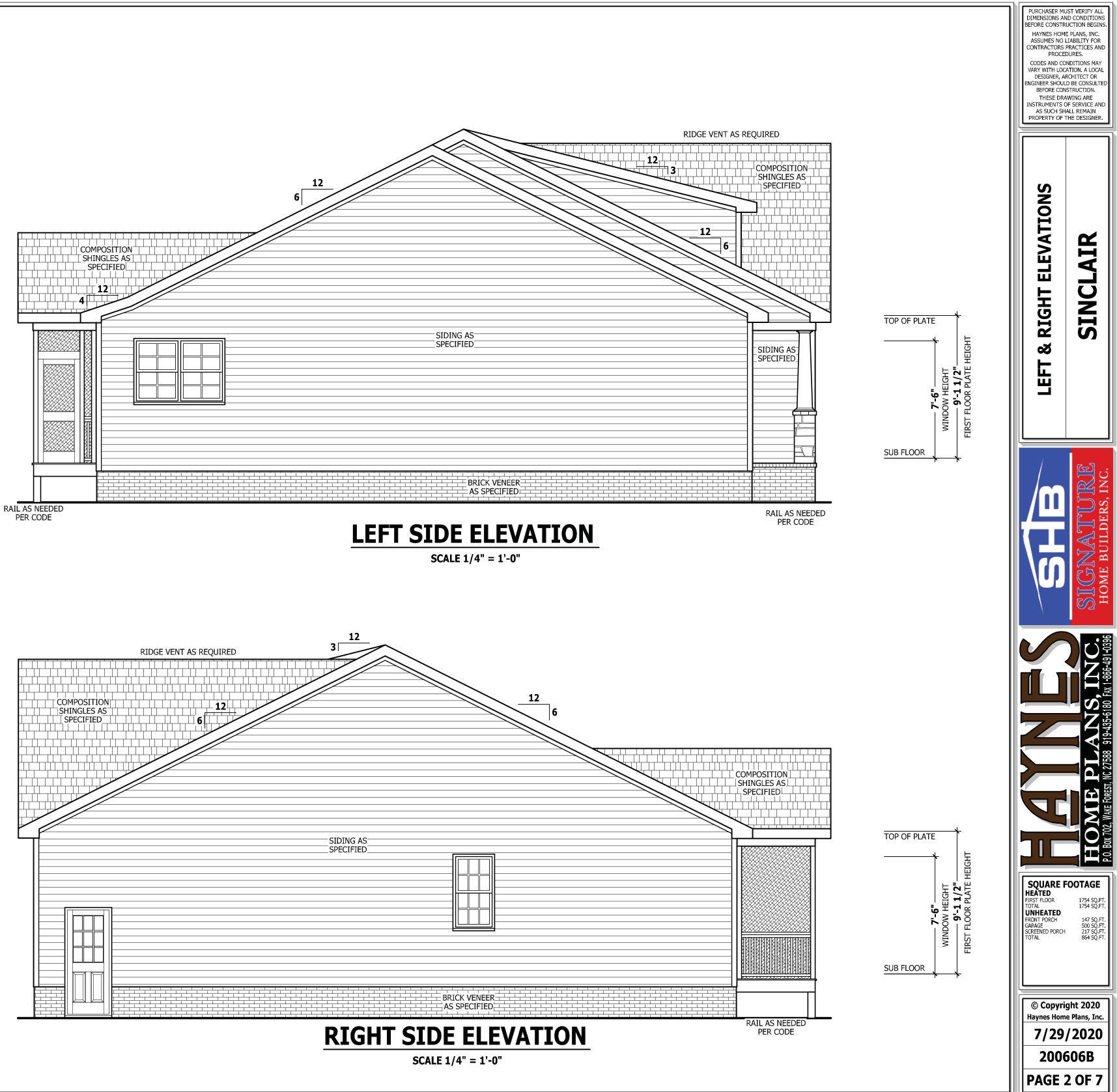
1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.

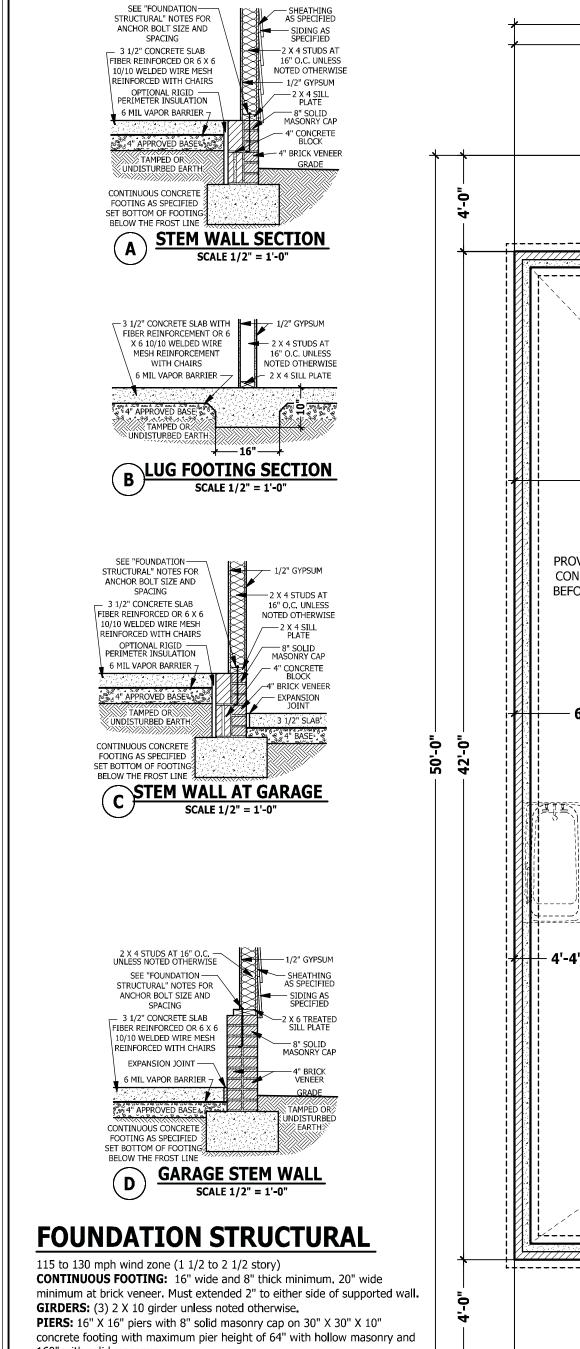
2. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 43/8 inches (111 mm) in diameter.











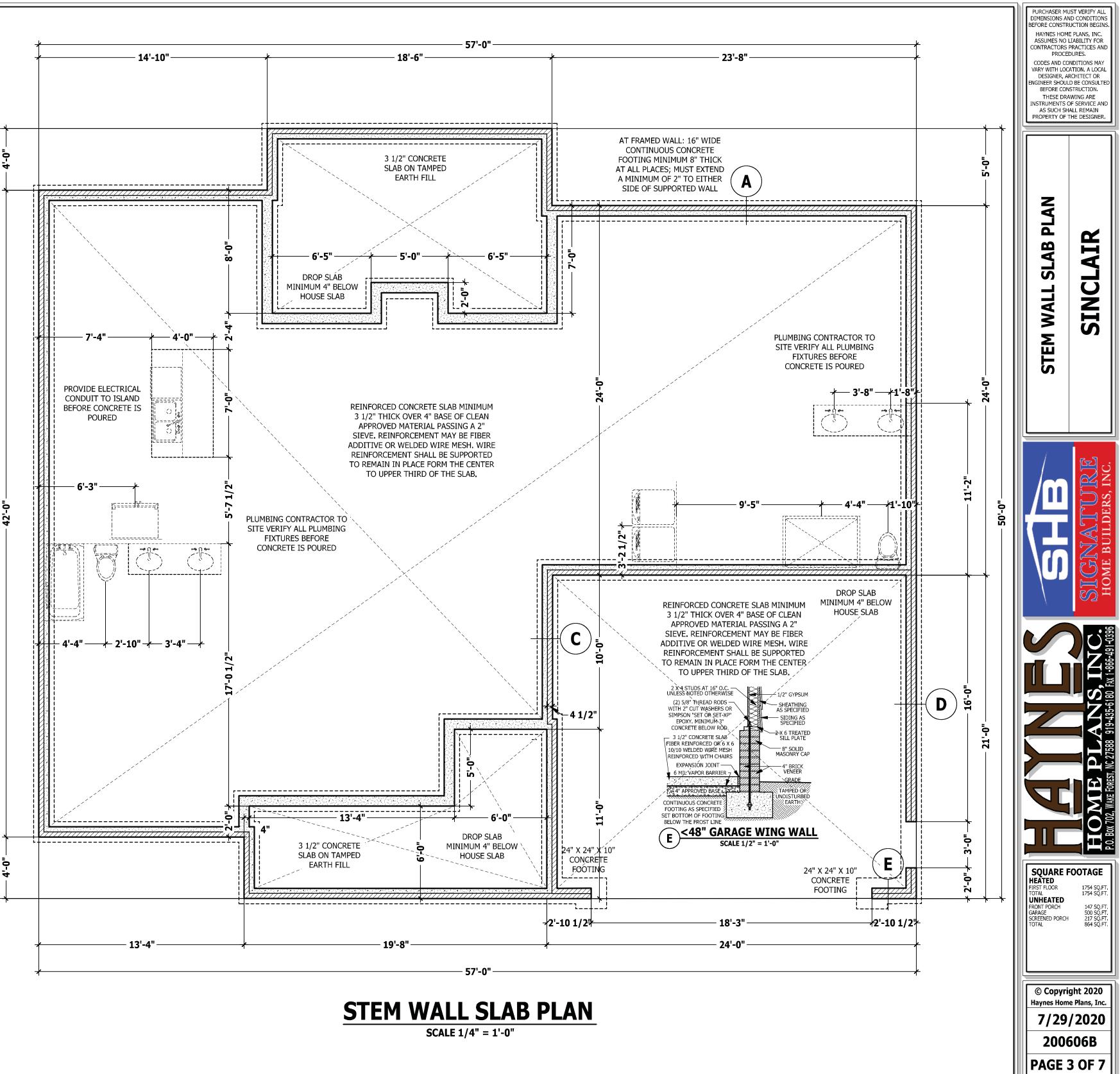
160" with solid masonry. **POINT LOADS:** designates significant point load and should have solid blocking to pier, girder or foundation wall.

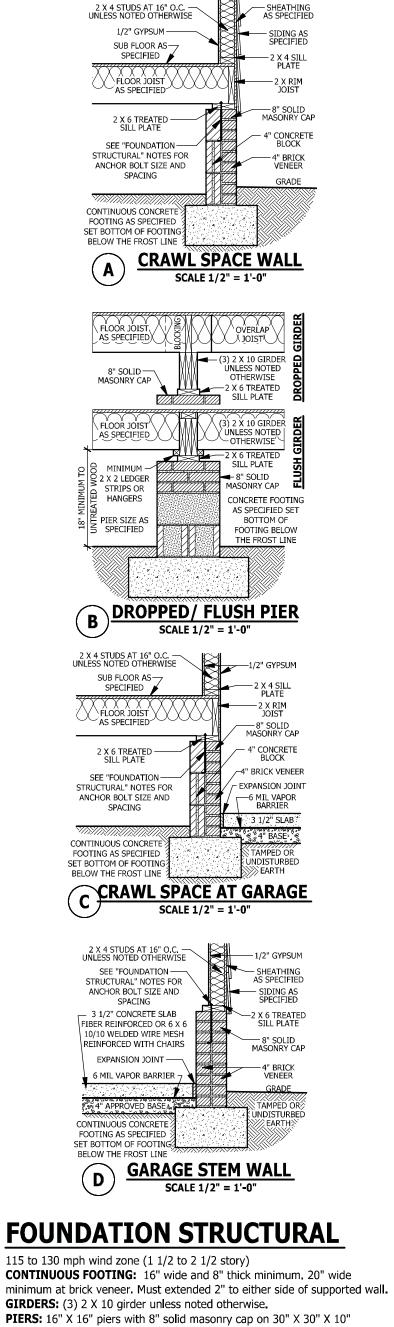
**115 and 120 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

**130 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum 15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

**CONCRETE:** Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5" slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump. **SOILS:** Allowable soil bearing pressure assumed to be 2000 PSF. The

contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.





PIERS: 16" X 16" piers with 8" solid masonry cap on 30" X 30" X 10" concrete footing with maximum pier height of 64" with hollow masonry and 160" with solid masonry. **POINT LOADS:** designates significant point load and should have solid

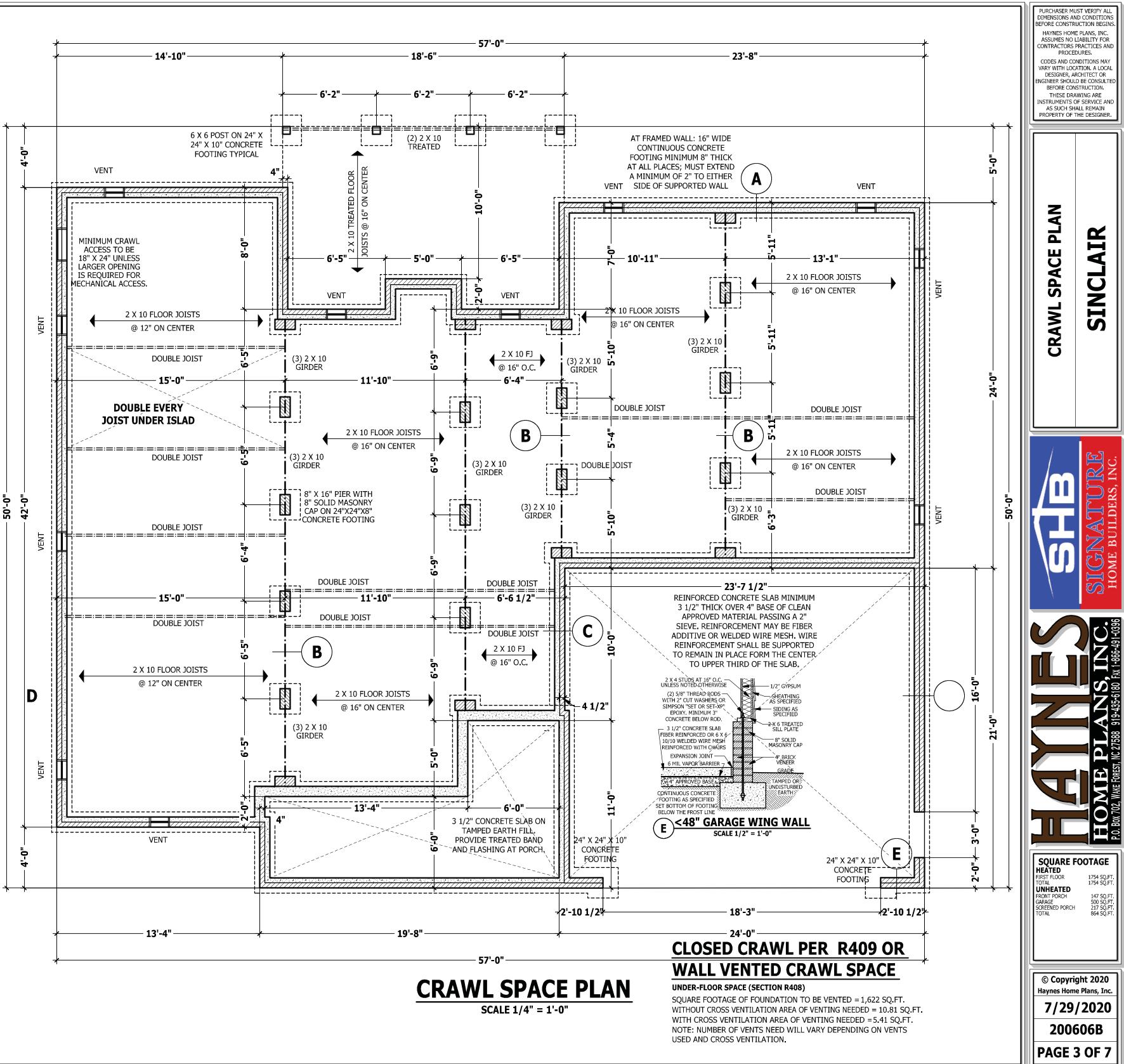
blocking to pier, girder or foundation wall. **115 and 120 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded

minimum 7", maximum 6'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate. **130 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum

15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

**CONCRETE:** Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5" slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump. SOILS: Allowable soil bearing pressure assumed to be 2000 PSF. The

contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.





# WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for stud face.

**Interior walls** are drawn as 3 1/2" or as noted 2 X 6 are drawn as 5 1/2", and do not include gypsum.

### **DWELLING / GARAGE SEPARATION**

REFER TO SECTIONS R302.5, R302.6, AND R302.7 **WALLS.** A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.

**STAIRS.** A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways. **CEILINGS.** A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling.

**OPENING PENETRATIONS.** Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

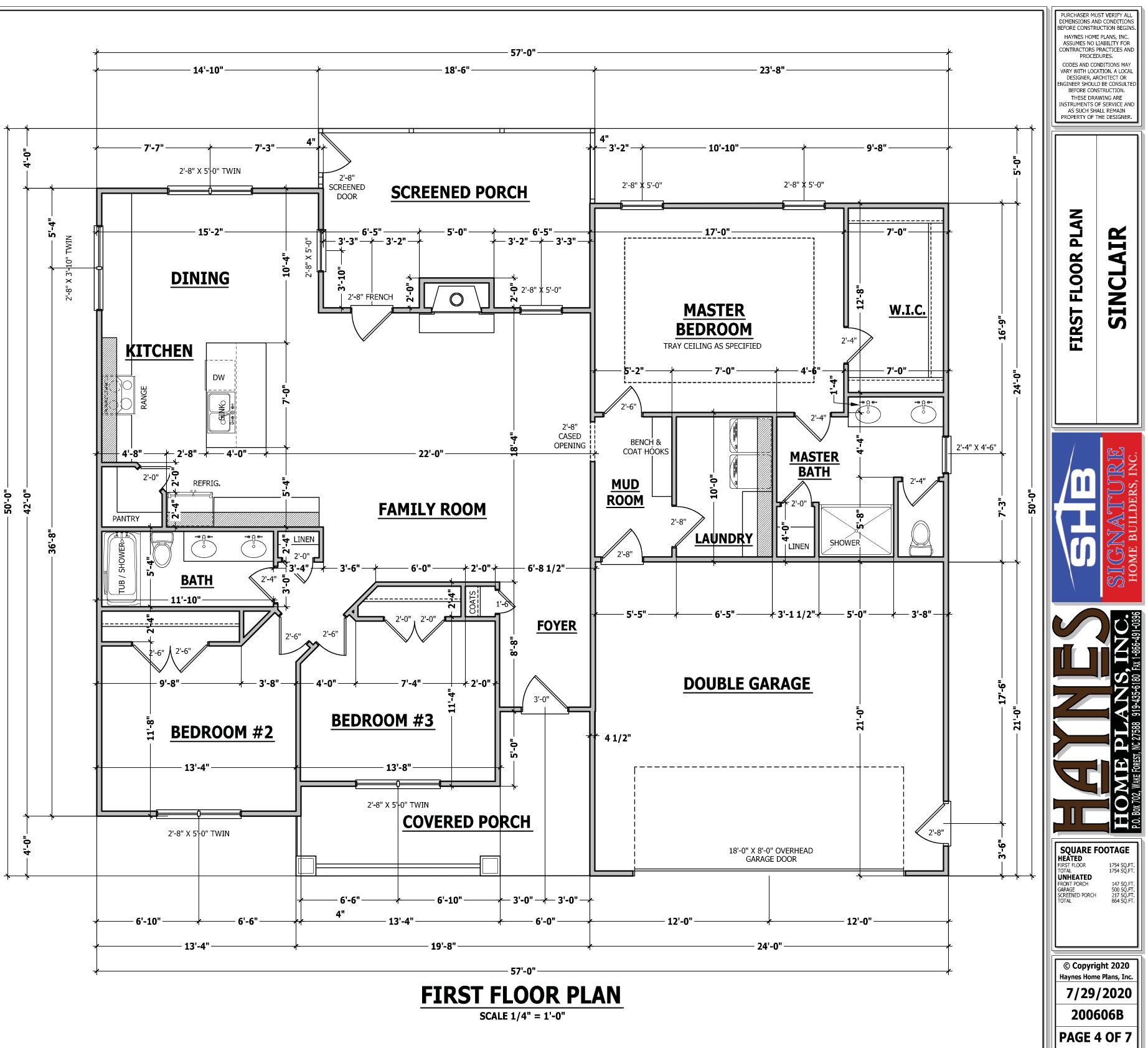
**DUCT PENETRATIONS.** Ducts in the garage and ducts penetrating the walls or ceilings separating the *dwelling* from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other *approved* material and shall have no openings into the garage.

OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.



TOTAL UNHEATED FRONT PORCH GARAGE SCREENED PORCH TOTAL





### **STRUCTURAL NOTES**

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code.

JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed, anchored, and braced in accordance with good construction practice and the building code.

DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200		
Guardrail in-fill components	50		
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40		L/360
Snow	20		

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise. ENGINEERED WOOD BEAMS :

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>6</sup> PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI Install all connections per manufacturers instructions.

TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc. **LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise.  $3 \frac{1}{2} \times 3 \frac{1}{2} \times \frac{1}{4}$ " steel angle with  $\frac{1}{2}$ " bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing. **ROOF SHEATHING:** OSB or CDX roof sheathing minimum 3/8" thick for 16" on center rafters and 7/16" for 24" on center rafters. **CONCRETE AND SOILS:** See foundation notes

### **BRACE WALL PANEL NOTES**

**EXTERIOR WALLS:** All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless noted otherwise.

**GYPSUM:** All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.

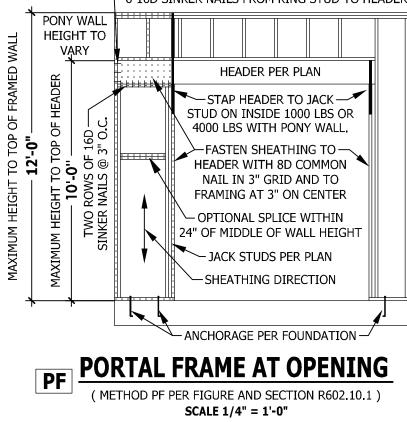
**REQUIRED LENGTH OF BRACING:** Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. HD: 800 lbs hold down hold down device fastened to the edge

of the brace wall panel closets to the corner. Methods Per Table R602.10.1

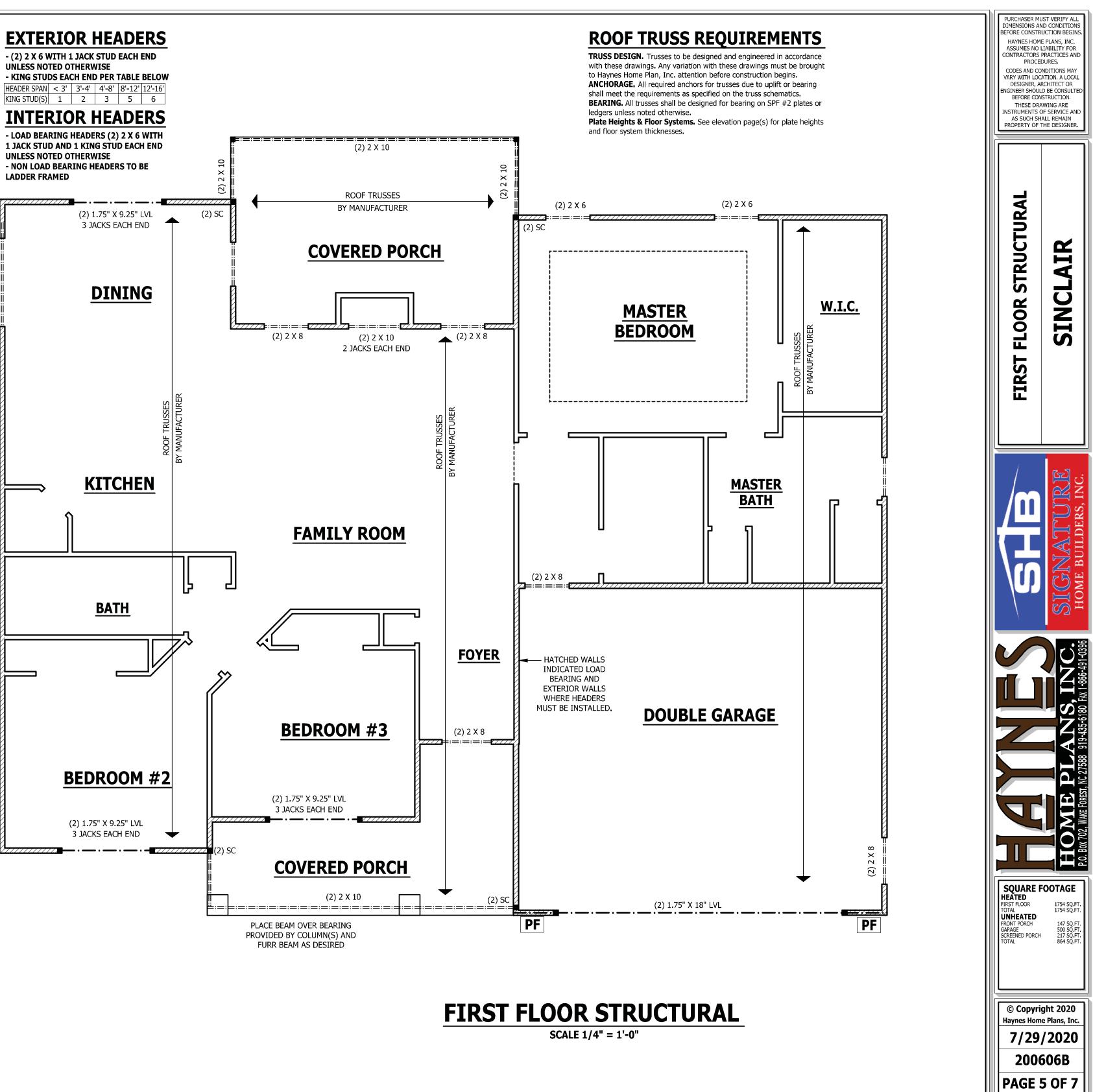
**CS-WSP:** Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or  $8d(2 1/2" \log x 0.113" diameter)$ . **CS-SFB:** Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports with 1 1/2" long x 0.12" diameter galvanized roofing nails.

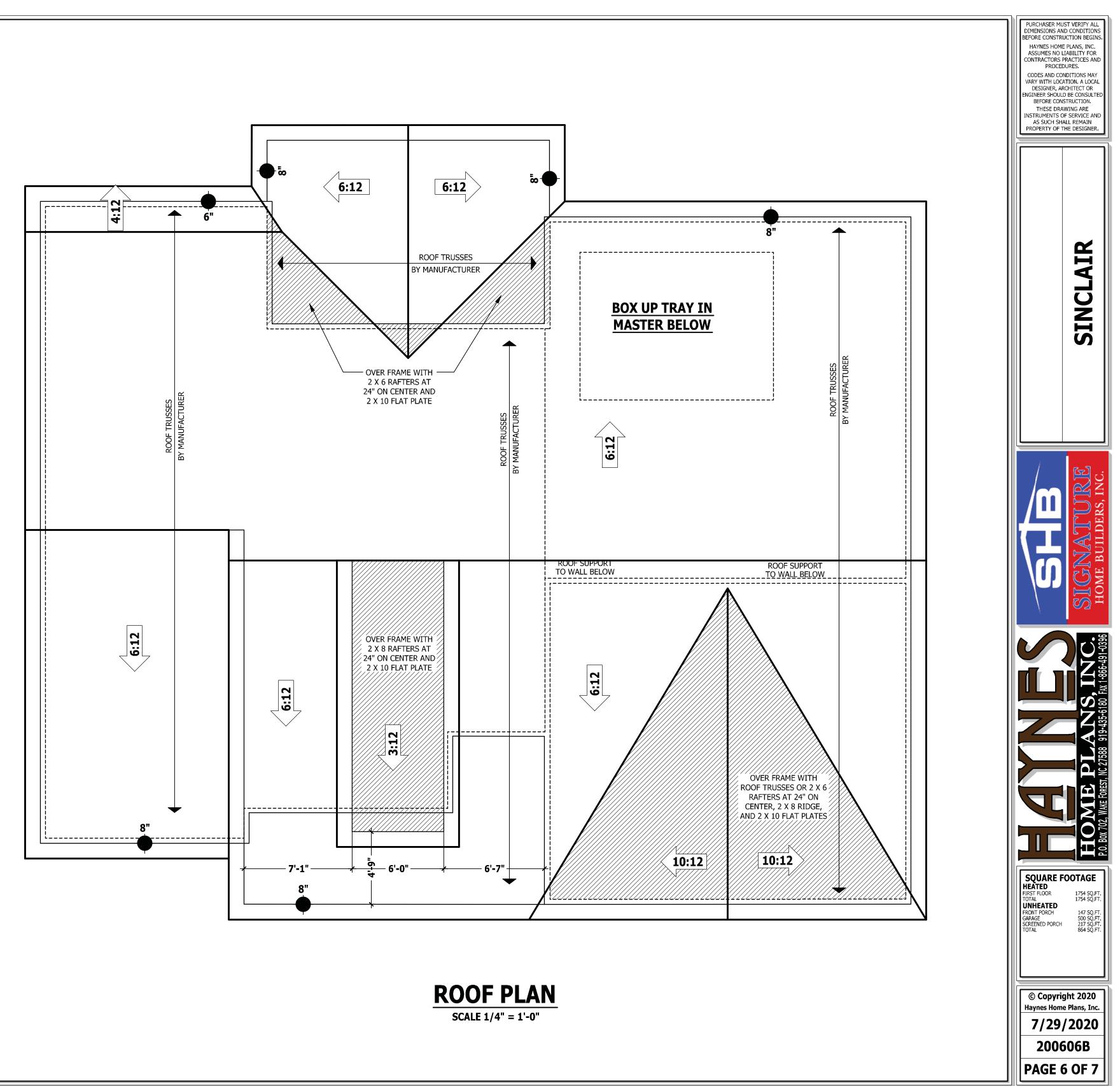
**GB:** Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws. **PF:** Portal fame per figure R602.10.1

- 6-16D SINKER NAILS FROM KING STUD TO HEADER



- (2) 2 X 6 WITH 1 JACK STUD EACH END **UNLESS NOTED OTHERWISE** - KING STUDS EACH END PER TABLE BELOW HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16'





### **ROOF TRUSS REQUIREMENTS**

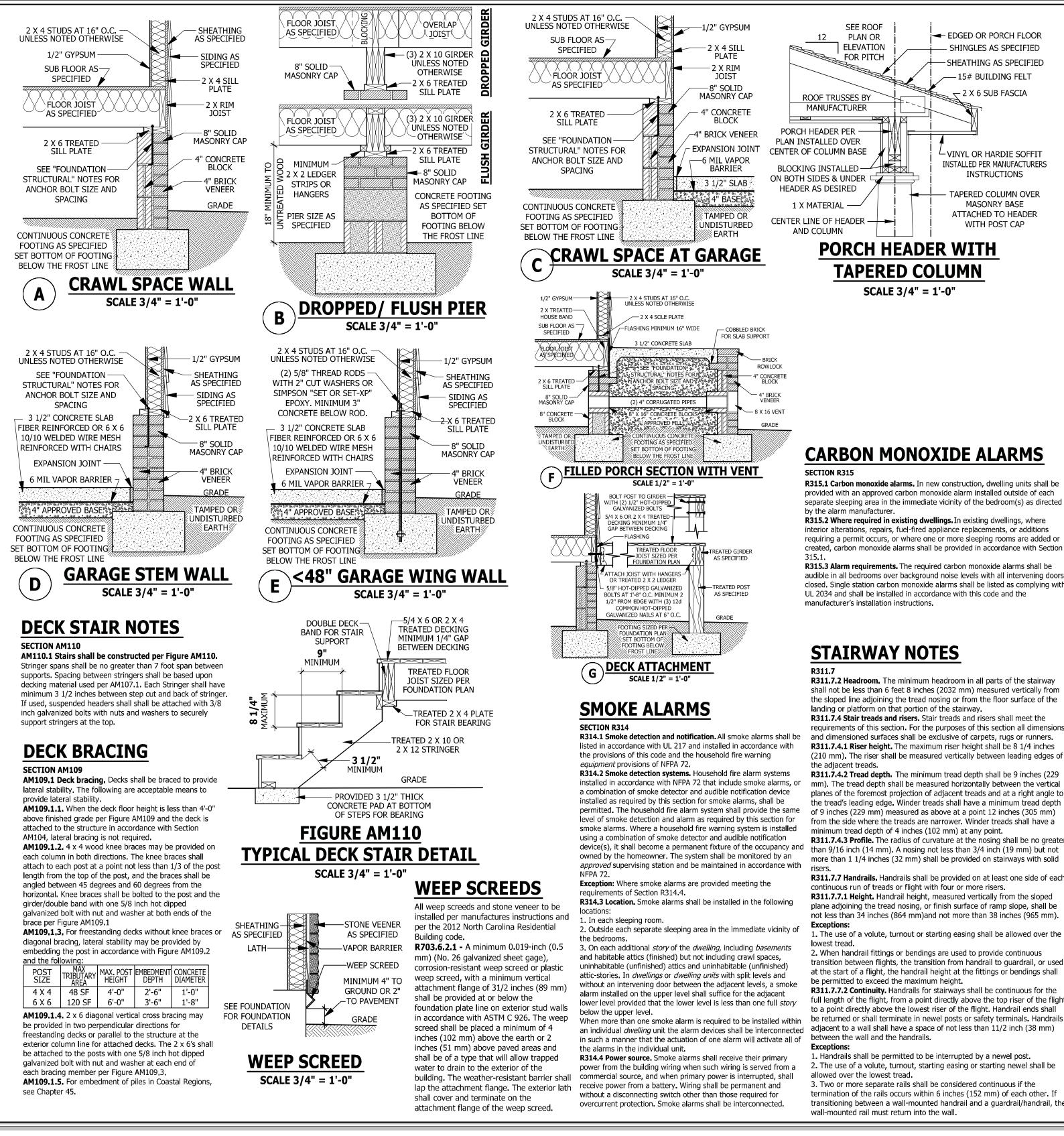
**TRUSS DESIGN.** Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. **KNEE WALL AND CEILING HEIGHTS.** All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.

**ANCHORAGE.** All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. **BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

**Plate Heights & Floor Systems.** See elevation page(s) for plate heights and floor system thicknesses.

HEEL HEIGHT ABOVE FIRST FLOOR PLATE





R315.1 Carbon monoxide alarms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area in the immediate vicinity of the bedroom(s) as directed

requiring a permit occurs, or where one or more sleeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section

audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with

shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the

requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners. R311.7.4.1 Riser height. The maximum riser height shall be 8 1/4 inches

mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread depth of 9 inches (229 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a

R311.7.4.3 Profile. The radius of curvature at the nosing shall be no greater than 9/16 inch (14 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid

**R311.7.7 Handrails.** Handrails shall be provided on at least one side of each

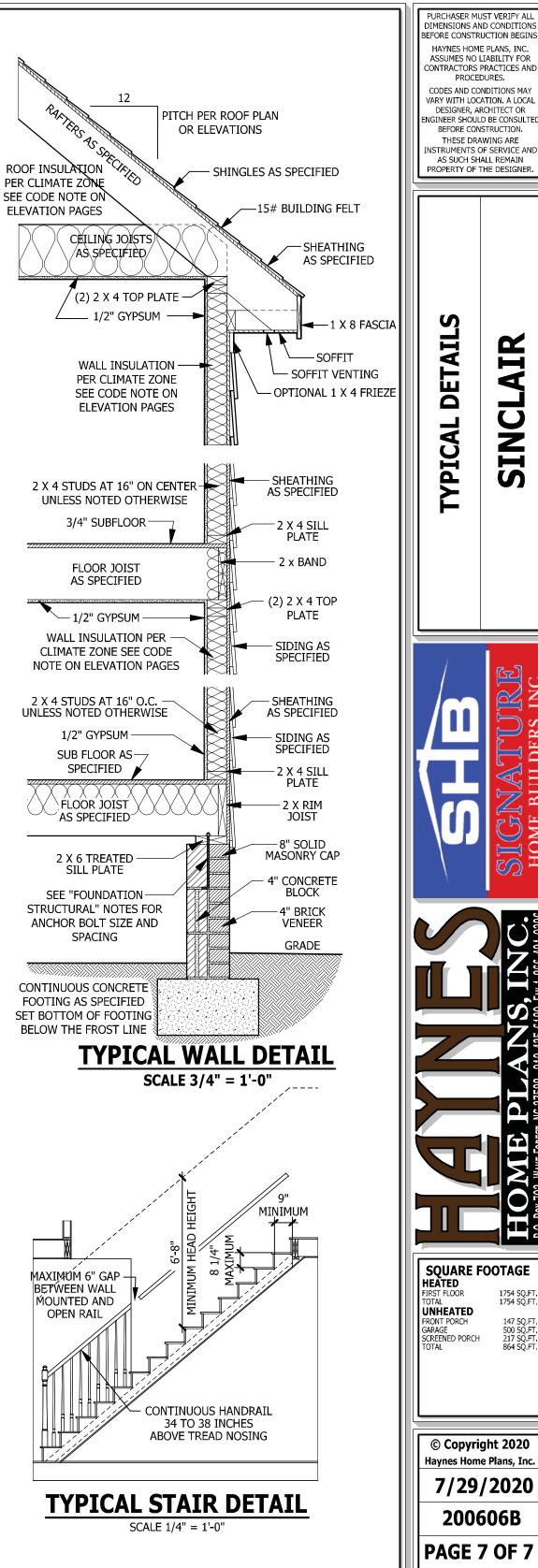
plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm)and not more than 38 inches (965 mm).

transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall

full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails

2. The use of a volute, turnout, starting easing or starting newel shall be

termination of the rails occurs within 6 inches (152 mm) of each other. If transitioning between a wall-mounted handrail and a guardrail/handrail, the



Project #:	1447 1 1447 1	now N 335 335 135 Ib Total	Wind Cons 0	ý 3 1/2" st 0 0
Project #: PASSED	J0821-5061 .evel: Level PATTERNED Ib (Up Dead Sr 1447 1 1447 1 1447 1	now N 335 335 135 Ib Total	Wind Cons 0 0	ý 1/2" st 0
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eactions UNP rg Live 1 0 2 0 earings Bearing Length 1 - SPF 3.000"	Dead Sr 1447 1 1447 1 1447 1 Cap. React D/L	now N 335 335 10 10 10 Total	Wind Cons 0 0	ý3 1/2" st 0
eactions UNP rg Live 1 0 2 0 earings Bearing Length 1 - SPF 3.000"	Dead Sr 1447 1 1447 1 1447 1 Cap. React D/L	now N 335 335 10 10 10 Total	Wind Cons 0 0	ý 3 1/2" st 0
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eactions UNP rg Live 1 0 2 0 earings Bearing Length 1 - SPF 3.000"	Dead Sr 1447 1 1447 1 1447 1 Cap. React D/L	now N 335 335 10 10 10 Total	Wind Cons 0 0	st 0
eactions UNP rg Live 1 0 2 0 earings Bearing Length 1 - SPF 3.000"	Dead Sr 1447 1 1447 1 1447 1 Cap. React D/L	now N 335 335 10 10 10 Total	Wind Cons 0 0	st 0
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rg Live 1 0 2 0 earings Bearing Length 1 - SPF 3.000"	Dead Sr 1447 1 1447 1 1447 1 Cap. React D/L	now N 335 335 10 10 10 Total	0 0	0
rg Live 1 0 2 0 earings Bearing Length 1 - SPF 3.000"	Dead Sr 1447 1 1447 1 1447 1 Cap. React D/L	now N 335 335 10 10 10 Total	0 0	0
rg Live 1 0 2 0 earings Bearing Length 1 - SPF 3.000"	Dead Sr 1447 1 1447 1 1447 1 Cap. React D/L	now N 335 335 10 10 10 Total	0 0	0
2 0 earings Bearing Length 1 - SPF 3.000"	1447 1	335 Ib Total	0	
<b>earings</b> Bearing Length 1 - SPF 3.000"	Cap. React D/L	lb Total		0
Bearing Length 1 - SPF 3.000"			Ld. Case Ld.	
Bearing Length 1 - SPF 3.000"			Ld. Case Ld.	
Bearing Length 1 - SPF 3.000"			Ld. Case Ld.	
Bearing Length 1 - SPF 3.000"			Ld. Case Ld.	
Bearing Length 1 - SPF 3.000"			Ld. Case Ld.	
1 - SPF 3.000"			Lu. Case Lu.	Comh
	00/0 1111/10		L D+S	
Ellu		55 2702	L D.0	
Grain				
2 - SPF 3.000"	30% 1447 / 13	35 2782	L D+S	
End Grain				
Live 1 Snov	w 1.15 Wind 1.6 C	Const. 1.25	Comments	
0 PLF 44	45 PLF 0 PLF	0 PLF	B2 TRUSS	
0 PLF	0 PLF 0 PLF	0 PLF	WALL	
drainage to prevent	Manufacturer Info	Co	omtech, Inc.	20
	Metsä Wood	Fay	yetteville, NC	39
		283	314	
	(800) 622-5850	910		
			COMTE	ЭСН
- -	0 PLF 4	0 PLF 445 PLF 0 PLF 0 PLF 0 PLF 0 PLF o PLF 0 PLF 0 PLF r drainage to prevent Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd F Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633	0 PLF 445 PLF 0 PLF 0 PLF 0 PLF 0 PLF 0 PLF 0 PLF	0 PLF 445 PLF 0 PLF 0 PLF 0 PLF B2 TRUSS 0 PLF 0 PLF 0 PLF 0 PLF WALL r drainage to prevent           Manufacturer Info         Comtech, Inc. 1001 S, Reilly Road, Suite #6 301 Mertit 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633         Comtech, Inc. 1001 S, Reilly Road, Suite #6 Fayetteville, NC USA 28314 910-864-TRUS

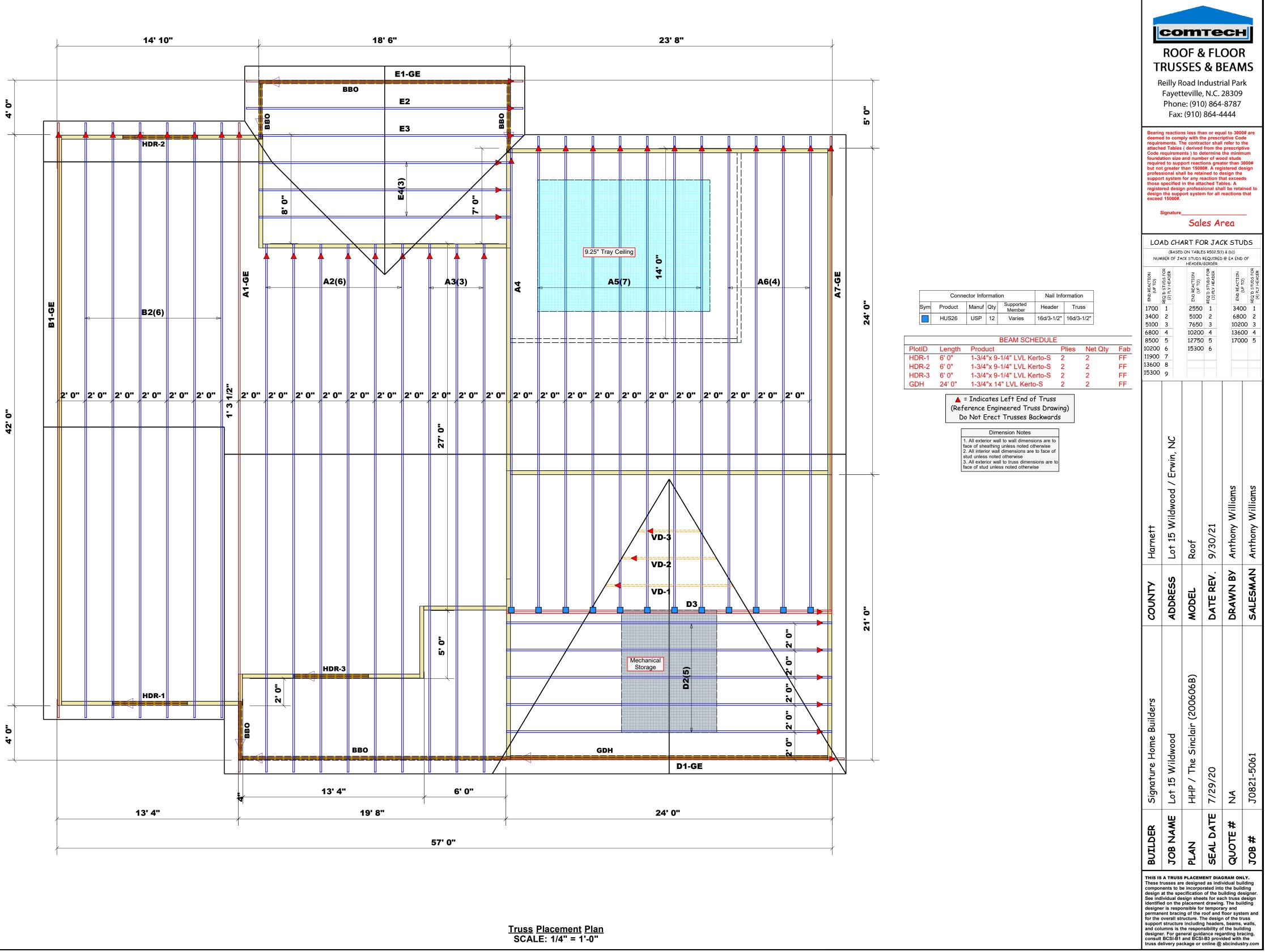
isDesign HDR-1 & 2 Kei	Pro <u>_</u> Adc	ject: Iress:	Input by:		
	Add	recc.		Anthony Williams	
1DR-1 & 2 Kei			Job Nam Project #		
HUR-1&2 Kei		4 750" V 0 050		Level: Level	
	rto-S LVL	1.750 X 9.250	2-Ply - PASSED		
				1	$\frown$
•••	•	•	• • •	<1 1/2"	N/N/I I
				- 	Å Å   9 1
• •	•	•	• • • –	<u> </u>	
				]	
1 SPF End Grain			2 SPF End Grain		
1		5'6"	1		3 1/2"
1		6'	· · · · ·	ſ	
Iulti-Ply Analysis					
				L CH	
		nails (.128x3") at 12" o	.c Maximum end distance n	ot to exceed 6"	
apacity oad	0.0 % 0.0 PLF				
eld Limit per Foot	163.7 PLF				
eld Limit per Fastener	81.9 lb.				
eld Mode	IV 1.1/0"				
lge Distance n. End Distance	1 1/2" 3"				
ad Combination	Ū				
uration Factor	1.00				
Vates Vature Structured Designs is responsible tructural adequacy of this component bas esign criteria and loadings shown.	sed on the 1. LVL beams n It is the 2. Refer to ontractor to regarding	Installation nust not be cut or drilled manufacturer's product information installation requirements, multi-ply	For flat roofs provide proper drainage to prevent ponding	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 08851 (800) 622-8550	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
Calculated Structured Designs is responsible tructural adequacy of this component bas esign criteria and loadings shown. esponsibility of the customer and/or the cc nsure the component suitability of the pplication, and to verify the dimensions and	e only of the sed on the It is the ontractor to e intended loads. Handling & 1. LVL beams n 2. Refer to regarding dataprovals	Installation nust not be cut or drilled manufacturer's product information installation requirements, multi-ply tails, beam strength values, and code	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	Fayetteville, NC USA 28314
Calculated Structured Designs is responsible tructural adequacy of this component bas esign criteria and loadings shown. esponsibility of the customer and/or the co nsure the component suitability of the	e only of the sed on the It is the loads. rwise	Installation nust not be cut or drilled manufacturer's product information installation requirements, multi-ply	For flat roofs provide proper drainage to prevent ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850	Fayetteville, NC USA 28314

is	Design	Project: Address:			out by: Anth Name: 15 V	ony Williams /ildwood			
						1-5061			
IDR-3	Kerto-S LVL	1.750" X 9.250	" 2-Ply -	PASSE	D	ever			
	2								
		1							$\neg \rightarrow$
-		•	•	•	•				MM
	Coliffic and	in the	an In		and the				9 1
				State of the state	•				
1 SPF E	nd Grain		2	2 SPF End Gra	in				
		5'6"			1				3 1/2"
1		6'			1				
	· · · · · · · · · · · ·			Desetion			1:64)		
lember Inf Type:	Girder	Application: Floor		Brg	Live	RNED Ib (Up Dead Sr	IIITT) IOW	Wind	Const
Plies:	2	Design Method: ASD		1	0	1594 1	482	0	0
Moisture Cond Deflection LL:	lition: Dry 480	Building Code: IBC/I Load Sharing: No	RC 2015	2	0	1594 1	482	0	0
Deflection TL:		e e e e e e e e e e e e e e e e e e e	Checked						
mportance:	Normal								
Temperature:	Temp <= 100°F			Bearings					
				Bearing		Cap. React D/L	lb Tota	Ld. Case	Ld. Comb.
				1 - SPF	3.000"	34% 1594 / 14	82 3076	3 L	D+S
nalysis Res	sults			End Grain					
Analysis	Actual Location	on Allowed Capacity C	omb. Case	2 - SPF End	3.000"	34% 1594 / 14	82 3076	3 L	D+S
Moment	4055 ft-lb	3' 14423 ft-lb 0.281 (28%) D 3' 10944 ft-lb 0.370 (37%) D		Grain					
Unbraced Shear	4055 ft-lb 2093 lb 11 1/	3' 10944 ft-lb 0.370 (37%) D 2" 7943 lb 0.264 (26%) D							
	0.031 (L/2174)	3' 0.141 (L/480) 0.220 (22%) S	L						
TL Defl inch	0.064 (L/1047)	3' 0.188 (L/360) 0.340 (34%) D	+S L						
esign Not				_					
1 Fasten all p to exceed 6		k nails (.128x3") at 12" o.c. Maximi	im end distance not						
	t page of calculations for fas designed to be supported o	steners required for specified loads n the bottom edge only							
4 Top loads m	nust be supported equally by	<b>U</b>							
5 Top braced 6 Bottom brac	ed at bearings.								
7 Lateral slen D	derness ratio based on sing Load Type	le ply width. Location Trib Width Si	de Dead 0.9	Live 1	Snow 1.15	Wind 1.6 C	onst 1 25	Commer	its
	Uniform	Location mb width Si				0 PLF	0 PLF		
2	Uniform	То				0 PLF	0 PLF		
	Self Weight		7 PLF						
otes		hemicals	<ol> <li>For flat roofs provide ponding</li> </ol>	proper drainage to p	Dieveni	cturer Info		Comtech, Inc. 1001 S. Reilly Roa	d, Suite #639
ructural adequacy o esign criteria and	loadings shown. It is the 2 F	ndling & Installation VL beams must not be cut or drilled Refer to manufacturer's product informatio				ritt 7 Building, 2nd F	loor	Fayetteville, NC USA 28314	
sponsibility of the consure the component	ustomer and/or the contractor to ent suitability of the intended fr	egarding installation requirements, multi-pl astening details, beam strength values, and cod	/		(800) 62		9	910-864-TRUS	
umber	3. D	pprovals Damaged Beams must not be used Design assumes top edge is laterally restrained				etsawood.com/us ESR-3633			
	ons, unless noted otherwise	Provide lateral support at bearing points to avoi							птесн

	Address: <b>1.750'' X 9.250''</b> • • 5'6" 6' Box nails (.128x3'') at 12''	• • • • • • • • • • • • • • • • • • •	Evel: Level	9 1/ 9 1/ 1/3 1/2"
Image: Second system       Image: Second system         Image: Second	• • 5'6" 6'	2-Ply - PASSED		
	6'	• • 2 SPF End Grain		
Image: Second system       Image: Second system         Image: Second	6'	• • 2 SPF End Grain		
Multi-Ply Analysis         Fasten all plies using 2 rows of 10d B         Capacity       0.0 %         Load       0.0 PLF         Yield Limit per Foot       163.7 PLF         Yield Limit per Fastener       81.9 lb.	6'	ł	Dot to exceed 6"	3 1/2"
Fasten all plies using 2 rows of 10d ECapacity0.0 %Load0.0 PLFYield Limit per Foot163.7 PLFYield Limit per Fastener81.9 lb.		o.c Maximum end distance r	1 not to exceed 6"	
Fasten all plies using 2 rows of 10d ECapacity0.0 %Load0.0 PLFYield Limit per Foot163.7 PLFYield Limit per Fastener81.9 lb.	3ox nails (.128x3") at 12"	o.c Maximum end distance r	not to exceed 6"	
Capacity0.0 %Load0.0 PLFYield Limit per Foot163.7 PLFYield Limit per Fastener81.9 lb.		o.c maximum end distance i		
Yield Limit per Foot163.7 PLFYield Limit per Fastener81.9 lb.				
Edge Distance 1 1/2" Min. End Distance 3"				
Load Combination Duration Factor 1.00				
Notes chemic Calculated Structured Designs is responsible only of the Handlin	als g & Installation	<ol> <li>For flat roofs provide proper drainage to prevent ponding</li> </ol>	Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
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.	ams must not be cut or drilled to manufacturer's product information ing installation requirements, multi-ply ng details, beam strength values, and code		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	USA 28314 910-864-TRUS
Lumber     1. Dry service conditions, unless noted otherwise     LVL not to be treated with fire retardant or corrosive     S. Provide     Iateral	assumes top edge is laterally restrained	This design is valid until 2/26/2023	ICC-ES: ESR-3633	соттесн

			Client:	Signature Hom	nes		Da	ate:	9/30/2021				Page 5 of 6
		l	Project:										
IS	Design		Address:										
										61			
GDH	Kerto-S L	VL 1.	.750" )	<b>(</b> 14.000	)" 2-	Ply - P	ASSEI	<b>D</b>	evel: Level				
	Year     Year												
		2											
					1								
													M
	and the second	- INPLET	Constant States							- Maria	1.1.1		1'2"
1 SPF End	d Grain									2 SPI	End Gra	uin 🗖	
1					18'3"							1	] ]3 1/2"
ſ					18'10"							7	
Member In	formation						Reaction	ns UNF	ATTERN	ED lb (Uplif	t)		
Туре:			Applicati	ion: Flo	oor					-		Wind	Const
Plies:	2				SD			0	23	63 37	7	0	0
Moisture Con	dition: Dry		Building				2	0	23	63 37	7	0	0
Deflection LL:				0									
			Deck:	No	ot Checked								
		)°F											
remperaturer	p						Bearings	5					
									Cap	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - SPF	3.500"			2739	L	D+S
					<u> </u>			3 500"	26%	2363 / 377	2739	1	D+S
-								0.000	2070	2000 / 011	2.00	-	2.0
							Grain						
Unbraced		90	12200 11-10		0+3	L							
Shear	2012 lb	17'5 1/4"	9408 lb	0.214 (21%)	D	Uniform							
						L							
TL Defl inch	0.495 (L/445)	9'5 1/16"	0.612 (L/360	) 0.810 (81%)	D+S	L	]						
		f 10d Box nai	ls (.128x3") a	at 12" o.c. Maxi	mum end dis	stance not							
		ns for fastene	ers required f	or specified loa	ads.								
			-	e only.									
	-												
ID		I	Location										.S
1					Тор								
2	Uniform				Тор		0 PLF	=	0 PLF	0 PLF	0 PLF	WALL	
	Self Weight					11 PLF							
Notes		chemica	als		6. For flat	t roofs provide p	roper drainage to	prevent	Manufacture	r Info	C 10	omtech, Inc. 001 S. Reilly Road	Suite #639
Calculated Structured structural adequacy	Designs is responsible only of this component based of	n the 1. IVI bea	g & Installation		ponding	1			Metsä Wood 301 Merritt 7	Building, 2nd Floc	r U	ayetteville, NC SA	-
design criteria and responsibility of the	d loadings shown. It is customer and/or the contract nent suitability of the inter-	the 2. Refer tor to regardir	to manufacture ng installation	's product informa requirements, mul	ti-ply				Norwalk, CT ( (800) 622-585	06851		8314 10-864-TRUS	
application, and to ver	ify the dimensions and loads.	approva	ng details, beam s als ed Beams must noi	trength values, and	code				www.metsaw	ood.com/us			
	ions, unless noted otherwise ated with fire retardant or cor	<ol> <li>Design</li> <li>Provide</li> </ol>	assumes top edge lateral support a	is laterally restrained t bearing points to a	avoid				ICC-ES: ESR	-3033		leon	птесн
<ol> <li>LVL HOL TO be treat</li> </ol>	New WILLING RELANDANT OF COP	lateral d	displacement and ro	otation		lesign is valid	until 2/26/2023	3					

Client: Signature Homes Project:	Date Inpu		Page 6 of 6
isDesign Address:	•	Name: 15 Wildwood	
	Proje	ect #: J0821-5061	
GDH Kerto-S LVL 1.750" X 14.000"	2-Ply - PASSED	Level: Level	
	,		
			&
			···] 🗧 🕅 🕇
· · · · · · · ·			
1 SPF End Grain		2 SPF End	Grain Grain
/	18'3"		3 1/2"
т У	18'10"		
	10 10		I
Multi Dhu Amahasia			
Multi-Ply Analysis	a a Marianna and distance		
Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" Capacity 0.0 %	o.c Maximum end distanc	e not to exceed 6	
Load 0.0 PLF			
Yield Limit per Foot     245.6 PLF       Yield Limit per Fastener     81.9 lb.			
Yield Mode IV			
Edge Distance 1 1/2"			
Min. End Distance 3"			
Load Combination Duration 1.00			
		Manufacturer Info	Comtech. Inc.
Notes chemicals Calculated Structured Designs is responsible only of the Handling & Installation	<ol><li>For flat roofs provide proper drainage to pre ponding</li></ol>	Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the <u>1. LVL beams must not be cut or drilled</u> design criteria and loadings shown. It is the <u>2. Refer</u> to manufacturer's product information		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314
responsibility of the customer and/or the contractor to ensure the component suitability of the intended fastening details, beam strength values, and code		(800) 622-5850	910-864-TRUS
Lumber 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained		www.metsawood.com/us ICC-ES: ESR-3633	
Dry service conditions, unless noted otherwise     LVL not to be treated with fire retardant or corrosive     LVL not to be treated with fire retardant or corrosive	This design is valid until 2/26/2023		соттесн



													DAT	E 09/30/21	PAGE 1
Reaction	Sur	nma	ry of	Order	F	EQ. (	τους	E DATE	11			ORDER #	¥	J0821	-5061
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						ELIV	ERY	DATE	11			CUSTON	IER ACCT #	00000	06897
Í Carrotta			& FLO		C	ATE	of in	IVOICE	11			CUSTON	IER PO #		
ComTec	2n j	TRUSSE	ES & BE	AMS		RDE		BY		Sherrod		INVOICE	#		
Reilly Road Indu						OUN			Harne			TERMS			
Fayetteville, N.C	. 283	09 (91	0) 864-	FRUS	S	UPE	RINTE	ENDANT	Chris	Sherrod		SALES R	REP		ny Williams
					J	OBSI	TE PI	HONE #	(910)	985-1136		SALES A	REA	Antho	ny Williams
Signatur	e Ho	me Bu	ilders	, Inc. JOB	NAME: Lot	15 W	/ildwo	od			LOT #	<b>#</b> 15 <b>S</b>	UBDIV: Wild	wood	
1209 N. I					EL:Roof			TAG:	Sinclair		JOB (	CATEGOR	Y: Residentia	I - Roof	
Fayettev	ille. N	IC 27	546	DELIV	ERY INSTR	UCTIO	ONS:								
Fayettev															
s H Signatur Lot 15 W			illders	SPEC	IAL INSTRU	стю	NS:								
		bod			ot 57 South (	Creek									
Erwin, N	С			(J1020	-4771)								PI AN S		<b>FE:</b> 10/28/19
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<b>BUILDING DE</b>	PART	MENT	OVER	IANG INFO	HEEL HEIG	нт	00-0	06-08	REQ. LA	YOUTS	REQ. ENGINE	ERING	QUOTE		11
Roof Order			END CU	T RETURN									LAYOUT		11
				NO	GABLE STU	DS	16	IN. OC	J	OBSITE 1	JC	DBSITE 1	CUTTING		11
ROOF T	RUS	SES		ADING	TCLL-TCDL-B	CLL-BCD	DL STF	RESS INCR.		OF TRUSS S	SPACING: 24	0 IN. O.C.	(TYP.)		
			IN					1.15		1			. ,		
PROFILE	QTY PLY	TOP	СН ВОТ	TYPE ID	BASE O/A		BER BOT	LEFT	RIGHT	REACTIO	ONS				
		, or	501	GABLE	45-11-00					Joint 2	Joint 29	Joint 31	Joint 3	2 .	Joint 33
	1	4.00	0.00	A1-GE		2 X 4	2 X 6	00-11-00	00-11-00	1999.2 lbs.	222.9 lbs.	342.9		.9 lbs.	459.9 lbs.
										-382.7 lbs.	62.2 lbs.	-46.2 l	bs937.	1 lbs.	53.0 lbs.
A	6	6.00	0.00	COMMON A2	37-11-00 37-11-00	286	286		00-11-00	Joint 10	Joint 15				
PVV5	0	0.00	0.00	~ <u>~</u>	37-11-00	270	270		00-11-00	2194.3 lbs. -132.4 lbs.	1520.9 lbs -69.3 lbs.				
										102.7 103.	-03.3 105.				
				COMMON	37-11-00					Joint 10	Joint 15				
A	3	6.00	0.00	A3	37-11-00	2 X 6	2 X 6		00-11-00	2533.1 lbs.	1120.6 lbs				
										-156.9 lbs.	-71.8 lbs.				
	4	6 00	0.00	COMMON A4	33-11-00 33-11-00	2 7 6	2 7 6			Joint 1	Joint 8	Joint 9			
ALA	1	6.00	0.00	A4	33-11-00	2.00	2.00			955.5 lbs. -42.4 lbs.	257.1 lbs. -74.9 lbs.	2137.9 -154.7			
										-42.4 IDS.	-74.9 105.	-104.7	105.		
				COMMON	33-11-00					Joint 2	Joint 9	Joint 10			
A	7	6.00	0.00	A5		2 X 6	2 X 6	00-11-00		762.0 lbs.	81.0 lbs.	2896.2	lbs.		
and k 1										-41.3 lbs.	-520.7 lbs.	-205.8	lbs.		
A		0.00	0.00	COMMON	33-11-00	2 ~ ~	2 ~ ~	00-11-00		Joint 2	Joint 9	Joint 10	llee		
AVV	4	6.00	0.00	A6	33-11-00	2 ~ 0	2 ~ 0	00-11-00		999.4 lbs. -55.3 lbs.	257.4 lbs. -73.6 lbs.	2135.5 -154.1			
										-00.0 IDS.	-13.0 IDS.	-104.1	ы <b>л</b> а.		
				GABLE	33-11-00					Joint 2	Joint 21	Joint 22	Joint 2	.3	Joint 24
	1	6.00	0.00	A7-GE		2 X 6	2 X 6	00-11-00		188.4 lbs.	45.7 lbs.	128.2		7 lbs.	159.7 lbs.
										-11.2 lbs.	-9.8 lbs.	-66.0 I		lbs.	-70.7 lbs.
			0.00	ROOF	41-11-00	<u>.</u> .	2~	00 11 00	00 11 00	Joint 2	Joint 25	Joint 27			Joint 29
	1	4.00	0.00	B1-GE	41-11-00	<sup>2</sup> X 4	<sup>∠</sup> X 6	00-11-00	00-11-00	131.1 lbs.	145.6 lbs.	195.2			162.1 lbs.
										-83.4 lbs.	4.9 lbs.	-100.5	10504.8	3 lbs.	-69.6 lbs.
				ROOF	41-11-00					Joint 2	Joint 9				
	6	4.00	0.00	B2		2 X 4	2 X 6	00-11-00	00-11-00	2000.6 lbs.	1998.0 lbs				
										-118.6 lbs.	-110.0 lbs.				
					1										
				COMMON	23-11-00				00.11.7	Joint 2	Joint 16	Joint 18			Joint 20
	1	10.00	0.00	D1-GE	23-11-00	2 X 6	2 X 6	00-11-00	00-11-00	256.1 lbs.	221.6 lbs.	209.4		0 lbs.	183.1 lbs.
										-114.0 lbs.	-47.4 lbs.	-186.5	lbs108.	/ IDS.	-110.4 lbs.
				COMMON	23-11-00					Joint 1	Joint 5				
	5	10.00	0.00	D2	23-11-00	2 X 6	2 X 6			1169.4 lbs.	1168.3 lbs				
	_									-38.3 lbs.	-38.3 lbs.	•			
					1	I		1	1	+					

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Re	action	Sun	nma	ry of	Order	R	REQ. (	τους	E DATE		11				0	RDER #			J0821-		
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$\leq$			ROOF	& FLO	OR				VOICE	-	11						ER PO #				
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	y Road Indu						COUN		- 1	_	Harne		-			ERMS	••				
	y koaa inau etteville, N.C								NDANT		Chris Sherrod					SALES REP			Anthony Williams		
Tuye	enevine, N.C	. 205	07 (71	0) 004-1	K05											· · · · ·				ny Williams	
									HONE #		(910)	985-113	00							iy vvillariiS	
	Signatur			-	Inc. JOB I	NAME: Lot	t 15 W	'ildwo	od					LC	<b>DT #</b> 15	5 <b>S</b> l	JBDIV:W	'ildwo	bod		
ионд но	1209 N. I	Main	Street		MOD	EL:Roof			TAG:	Sinc	lair			JC	ОВ САТ	EGORY	: Resider	ntial -	Roof		
D	Fayettev	ille. N	IC 27	546	DELIV	ERY INSTR	NUCTIC	ONS:													
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S H I P	Signatur	e Hoi	me Bu	ilders	SPEC	IAL INSTRU		10.													
	Lot 15 W	/ildwo	bod		-	ot 57 South (		13.													
Т	Erwin, N	С			(J1020-																
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K00	f Order			END CU	-	GABLE STU	IDS	16 1	N. OC	+	Ir	BSITE	1		JOBSI		CUTTING				
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R	00F T	RUS	SES	-		тсцтсрв 20.0.10.0.0		_	ESS INCR.	-	ROO	of tru	SS S	PACING	:24.0 IN	N. O.C. (	(TYP.)				
		ΟΤΥ	ріт	СН	TYPE	20.0, 10.0,0 BASE	1	-													
P	ROFILE	QTY PLY	TOP	вот	ID	O/A	TOP	BOT	OVEF		NG IGHT	REA	СТІС	ONS							
		1	TOP	BOT	COMMON	23-11-00	TOP	вот			IGITI	Joint 1		Joint 5							
		2 Ply	10.00	0.00	D3	23-11-00	2 X 6	2 X 6				1712.5	5 lbs.	1458.0	) lbs.						
1												-954.7		-1897.1							
					GABLE	18-06-00						Joint 2		Joint 10	)						
		1	6.00	0.00	E1-GE	18-06-00	2 X 6	2 X 6	00-11-00	00-	11-00	783.0		783.0							
							ļ					-211.4	lbs.	-211.4	lbs.						
			0.00	0.00	COMMON E2	18-06-00	276	2 2 6	00-11-00		11 00	Joint 2		Joint 4							
		1	6.00	0.00	EZ	18-00-00	2 × 0	2.0	00-11-00	00-	11-00	783.0		783.0							
										1		-164.8	IDS.	-164.8	IDS.						
					COMMON	18-06-00						loint 2		Joint 4							
	$\land$	1	6.00	0.00	E3	18-06-00	2 X 6	2 X 6	00-11-00			Joint 2 784.3	lbs	Joint 4 728.7	lbs						
L			2.00	2.00	-							-165.1		-160.4							
		 								-											
					COMMON	18-06-00						Joint 1		Joint 3							
		3	6.00	0.00	E4	18-06-00		2 X 6				730.0	lbs.	730.0	lbs.						
<i></i>												-160.8	lbs.	-160.8							
			ĺ																		
					VALLEY	09-04-04						Joint 1		Joint 3		Joint 4					
	$\Delta$	1	10.00	0.00	VD-1	09-04-04	2 X 4	2 X 4				182.6		182.7		318.6 I					
												-20.1	lbs.	-27.9	lbs.	10.0 lk	os.				
					VALLEY	06-11-07						Joint 1		Joint 3		Joint 4					
0		1	10.00	0.00	VD-2	06-11-07	2 X 4	2 X 4				142.2		142.2		207.4 I					
2		ļ					<u> </u>					-21.4	lbs.	-27.1	lbs.	21.2 lt	DS.				
						1				1											
								1													
	A		40.00	0.00	VALLEY	04-06-10		224				Joint 1		Joint 3		Joint 4					
		1	10.00	0.00	VALLEY VD-3	04-06-10 04-06-10		2 X 4				Joint 1 86.7 I -13.1		Joint 3 86.7 -16.5	lbs.	Joint 4 126.4 I 12.9 lb					

### ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
12	Hangers, USP	HUS 26			SIMPSON (HUS26)
6	LVL Beams (Sized)	LVL, 1-3/4" x 9-1/4" (S)	07-00-00		HDR-1 x 3
2	LVL Beams (Sized)	LVL, 1-3/4" x 14" (S)	24-00-00		GDH