

SCALE 1/8" = 1'-0"

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

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MEAN ROOF HEIGHT 25'-8" HEIGHT TO RIDGE 30'-0							
CLIMATE ZONE	ZONE 3A	ZONE 4A	RIDGE 30'-0' ZONE 5A 0.35 0.55 0.30 38 or 30ci 19 30 10/15 10				
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	0	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"

DESIGNED FOR WIND SPEED OF 120 PPH, 5 SECOND 4051 (35 TASTEST PHEE) EXPOSICE B											
COMPONENT	' & CLA	DDING	DESIG	NED FC)r the	FOLLO	WING	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 WIN	D SPEED	OF 130 MF	PH, 3 SECO	OND GUST	(101 FAS	TEST MILE) EXPOSL	IRE "B"			
COMPONENT	" & CLA	DDING	DESIG	NED FC	OR THE	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			

AIR LEAKAGE

Section N1102.4

N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code: 1. Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.

2. Capping and sealing shafts or chases, including flue shafts 3. Capping and sealing soffit or dropped ceiling areas.

HVAC: CENTRAL AIR **ELECTRICAL: PIONEER** PLUMBER: DOUBLE J

ROOF VENTILATION

SECTION R806

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 doth, 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.

28/2022

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 = 1558 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 10.39 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 = 5.16 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:

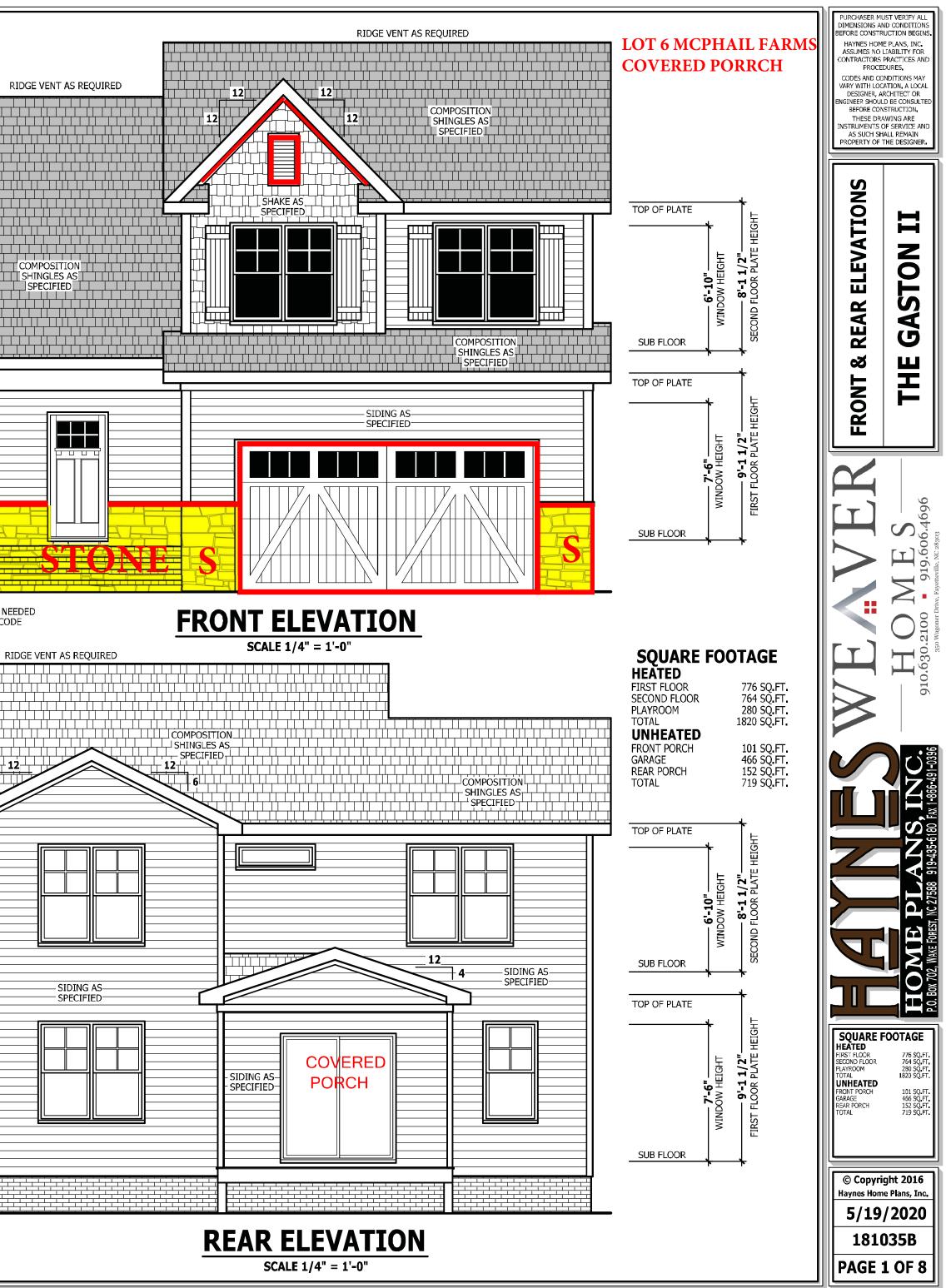
1. *Guards* on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.

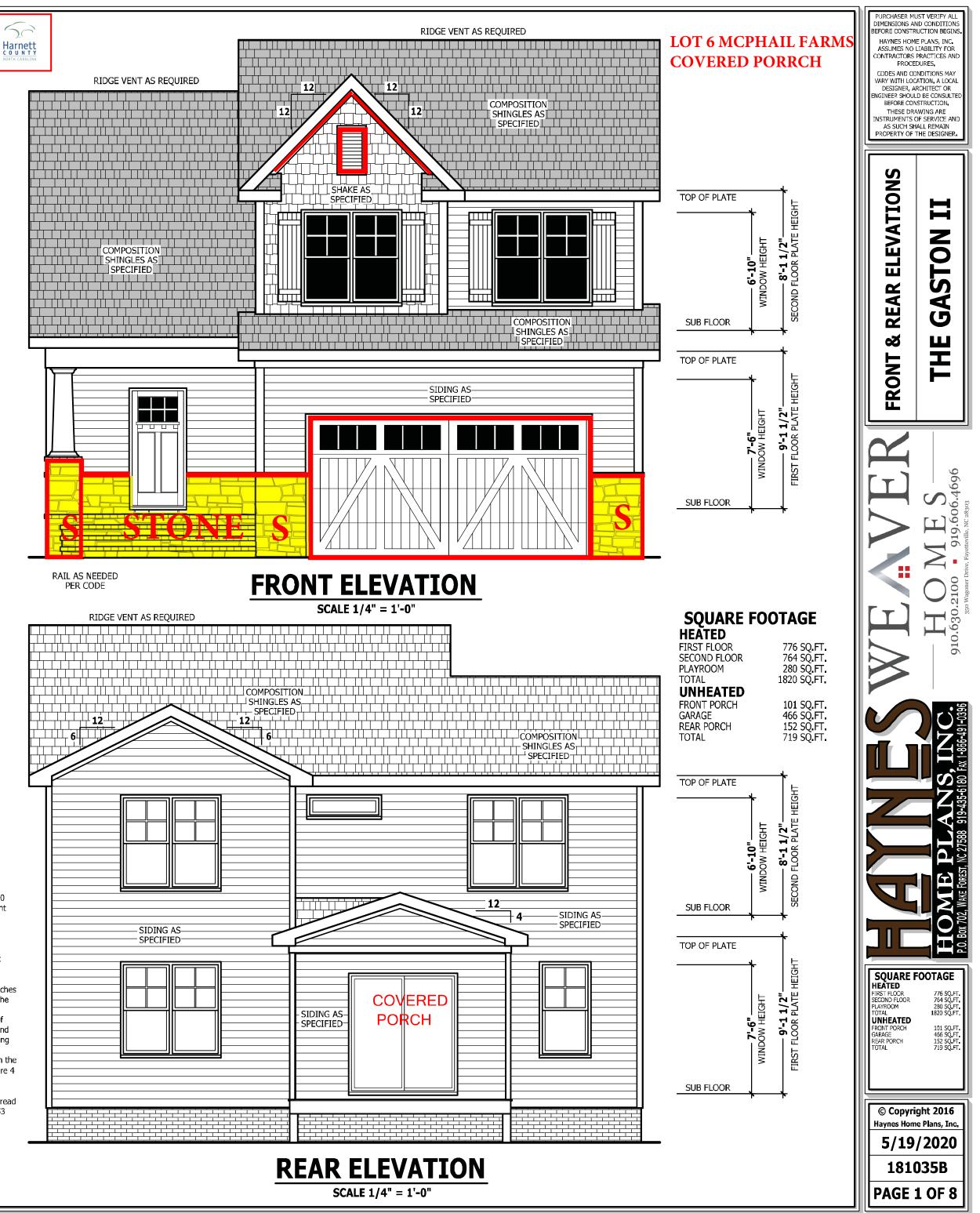
2. Where the top of the *guard* also serves as a handrail on the open sides of stairs, the top of the *quard* shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

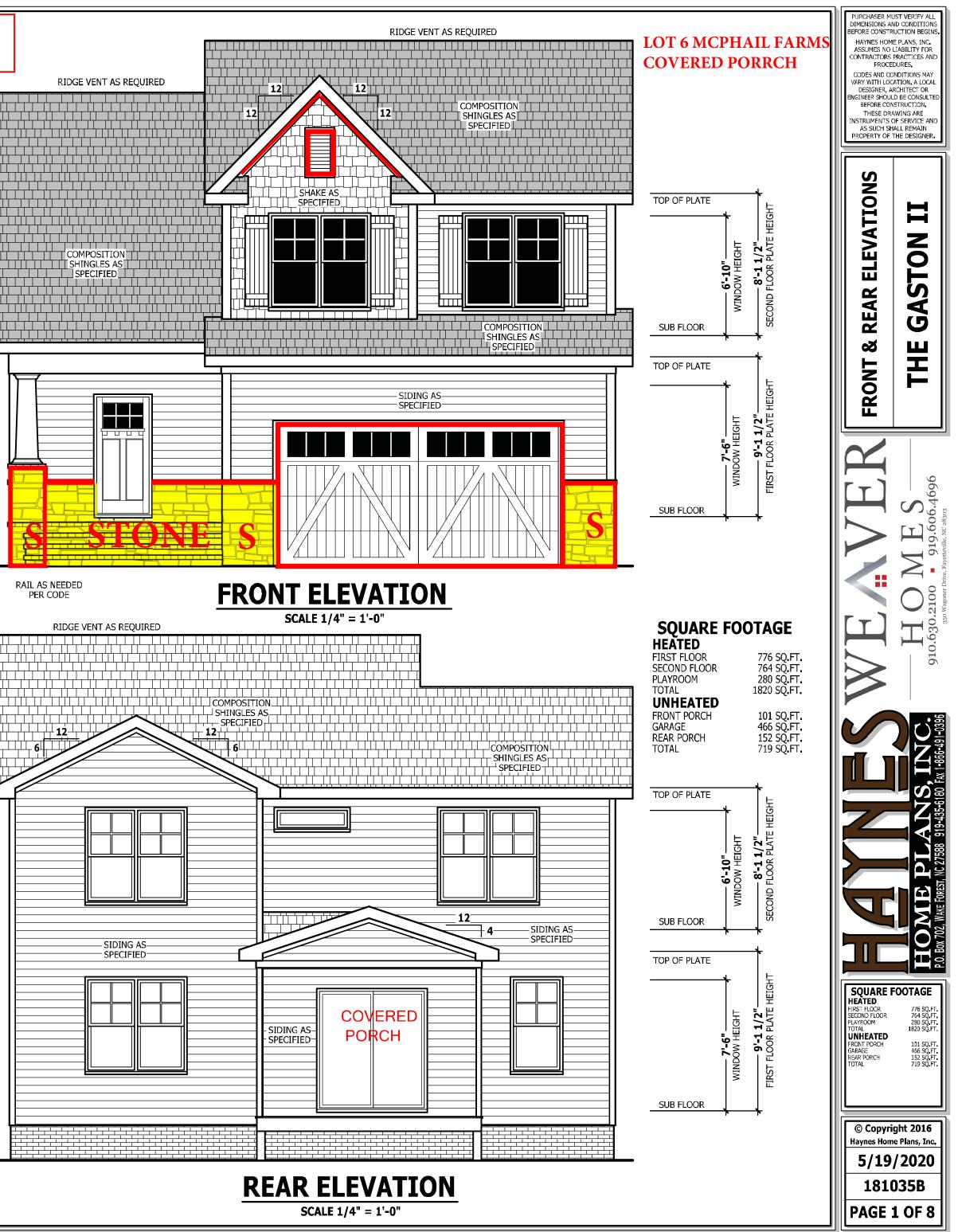
R312.3 Opening limitations. Required guards shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 inches (102 mm)in diameter. Exceptions:

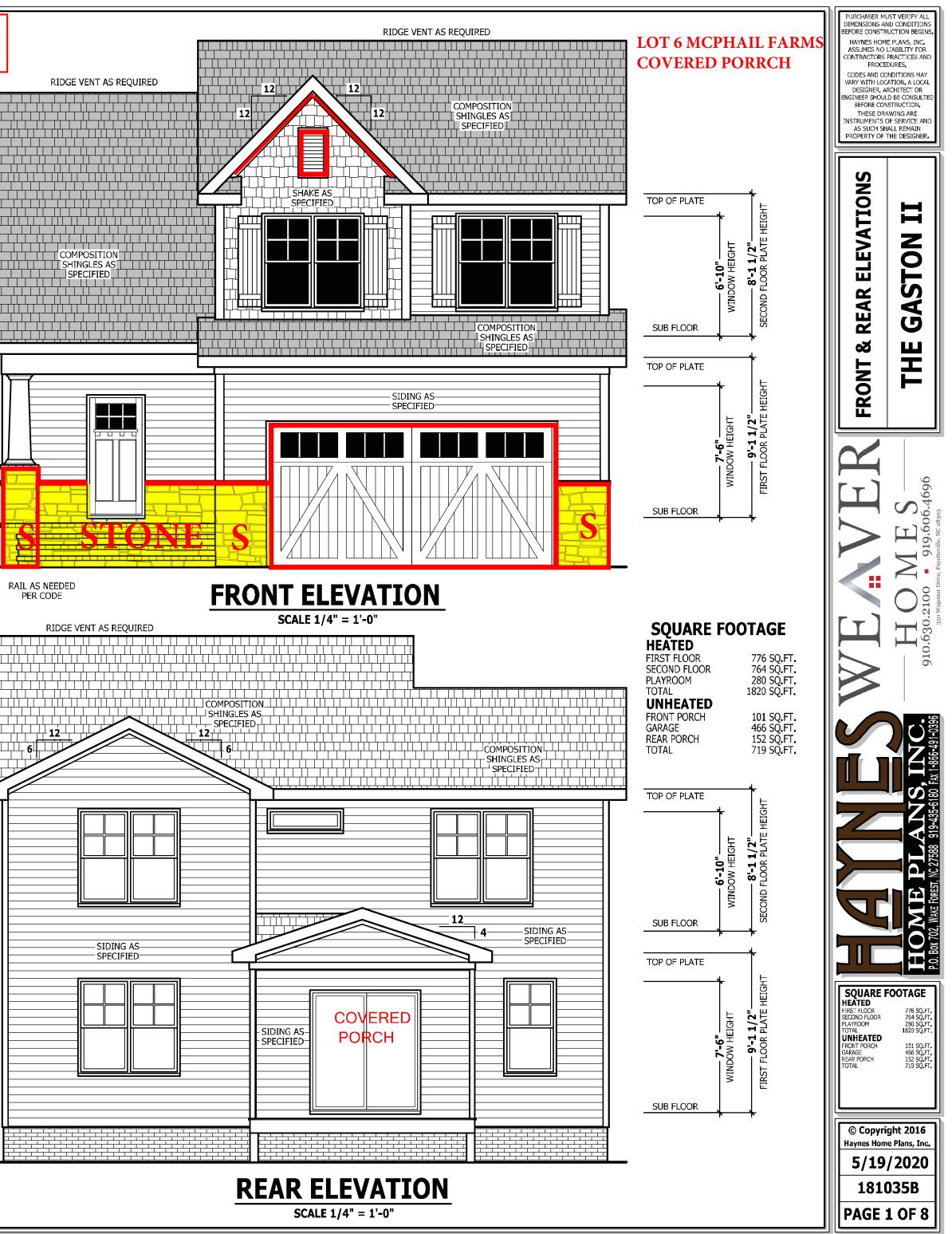
1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a *guard*, shall not allow passage of a sphere 6 inches (153 mm) in diameter

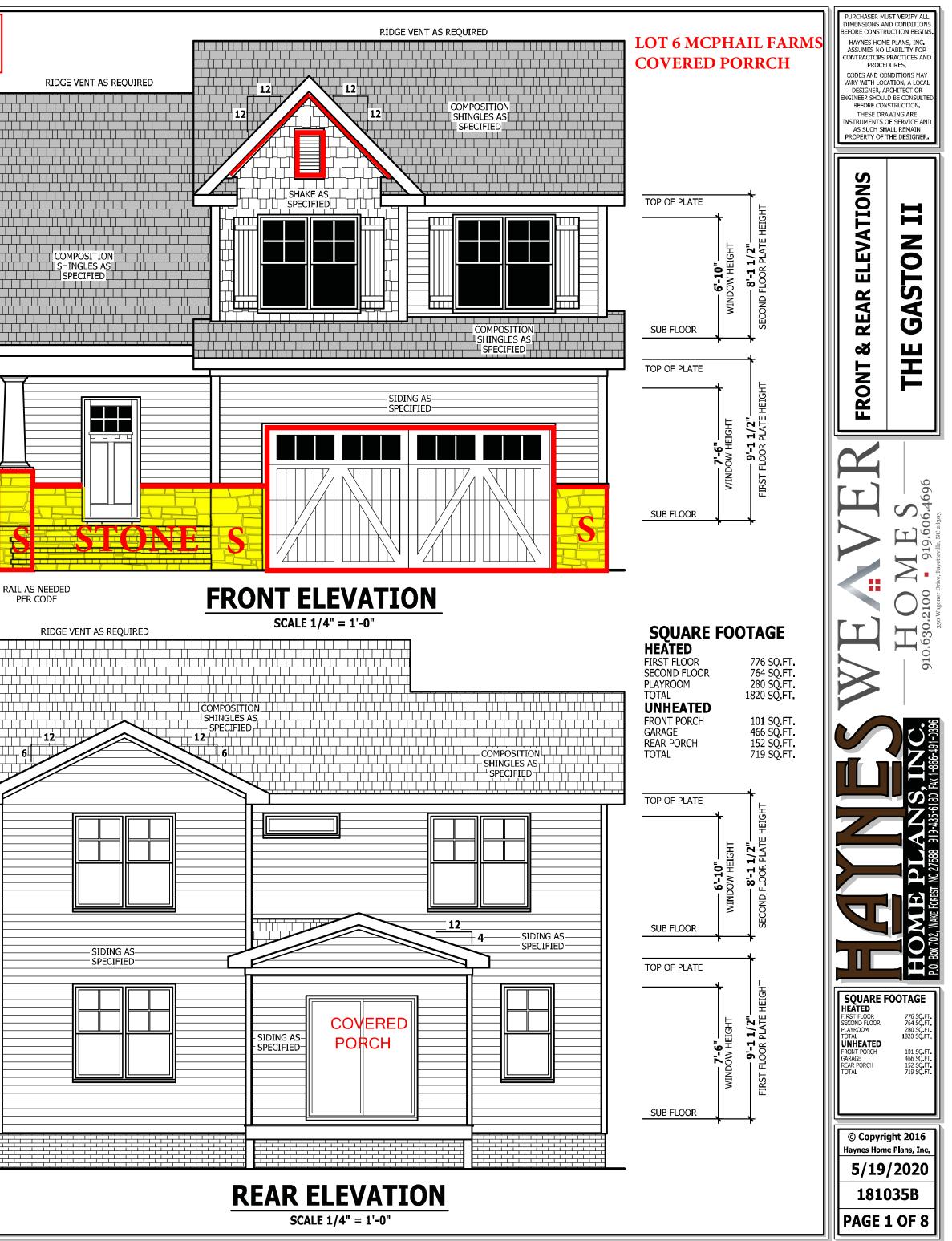
2. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter.

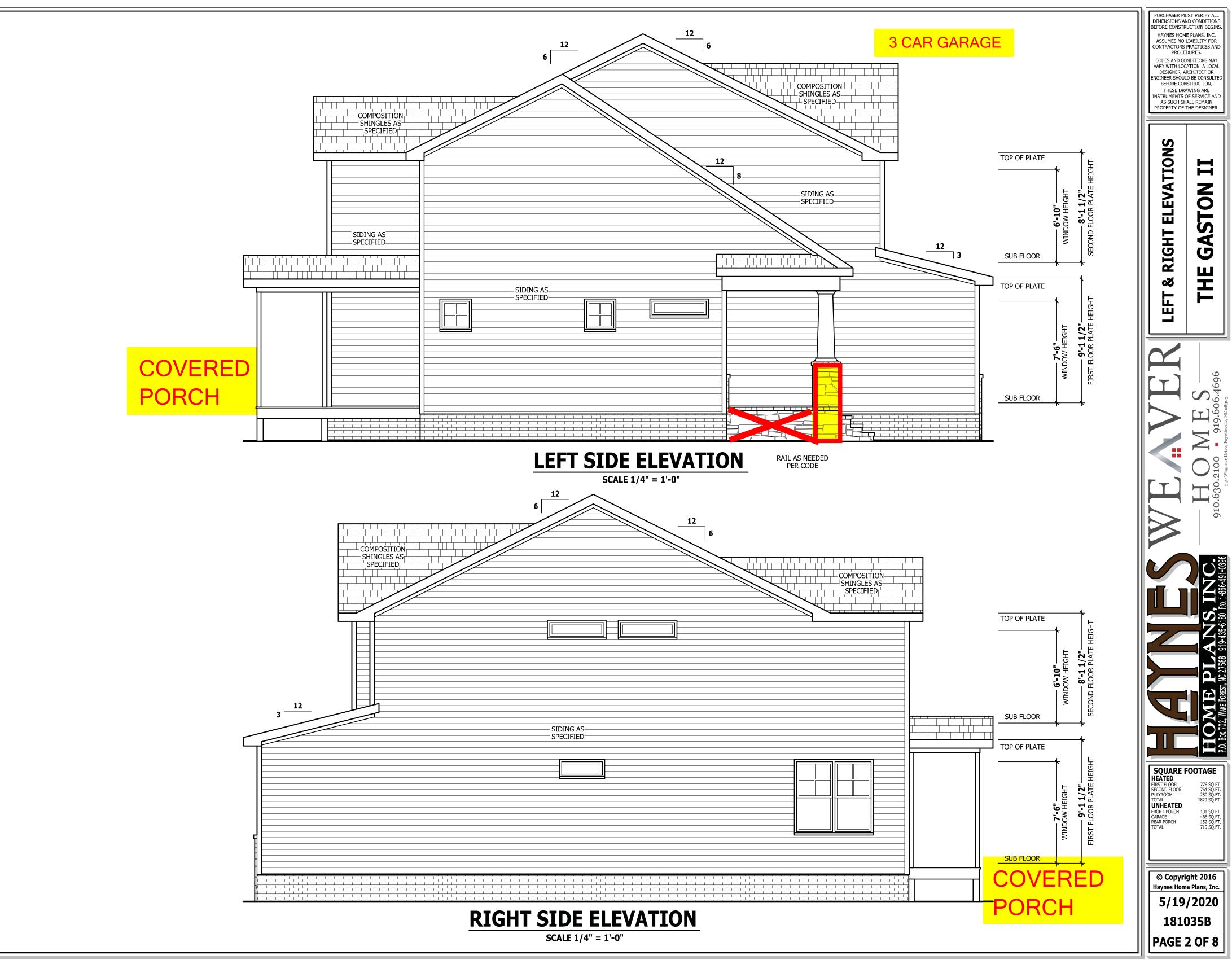


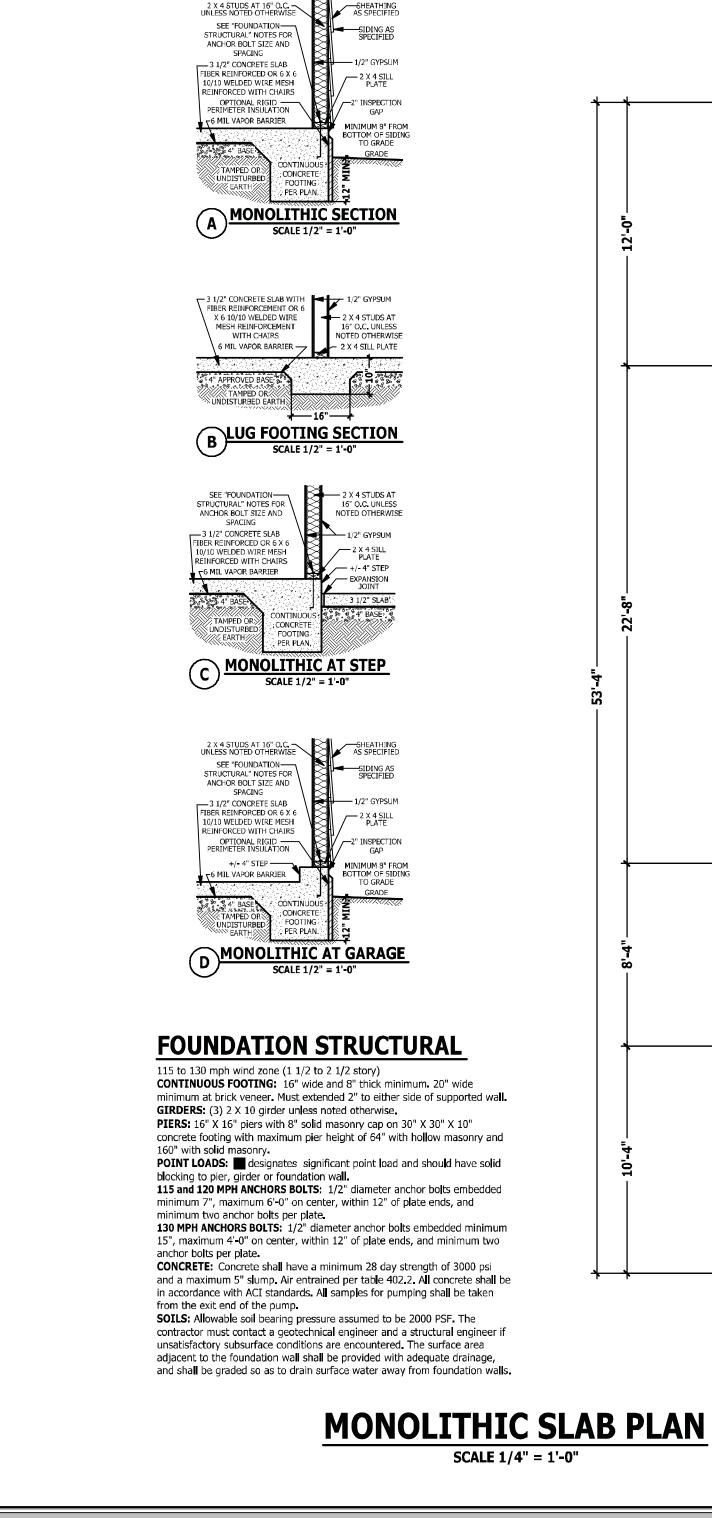


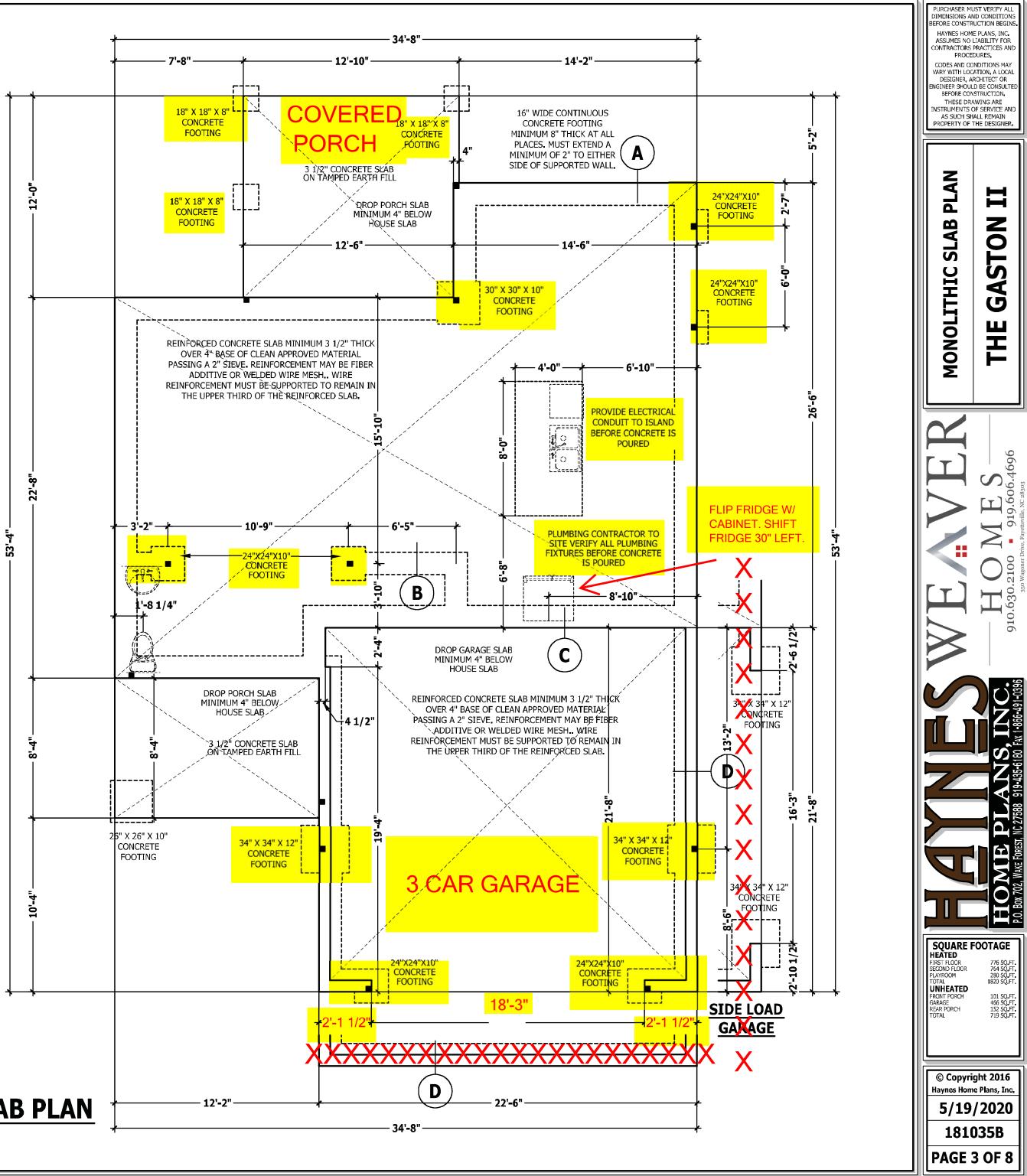












ATTIC ACCESS

SECTION R807 R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

Exceptions:

1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

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.

EXTERIOR WINDOWS AND DOORS

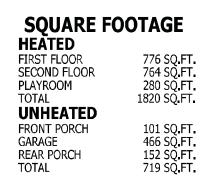
SECTION R612

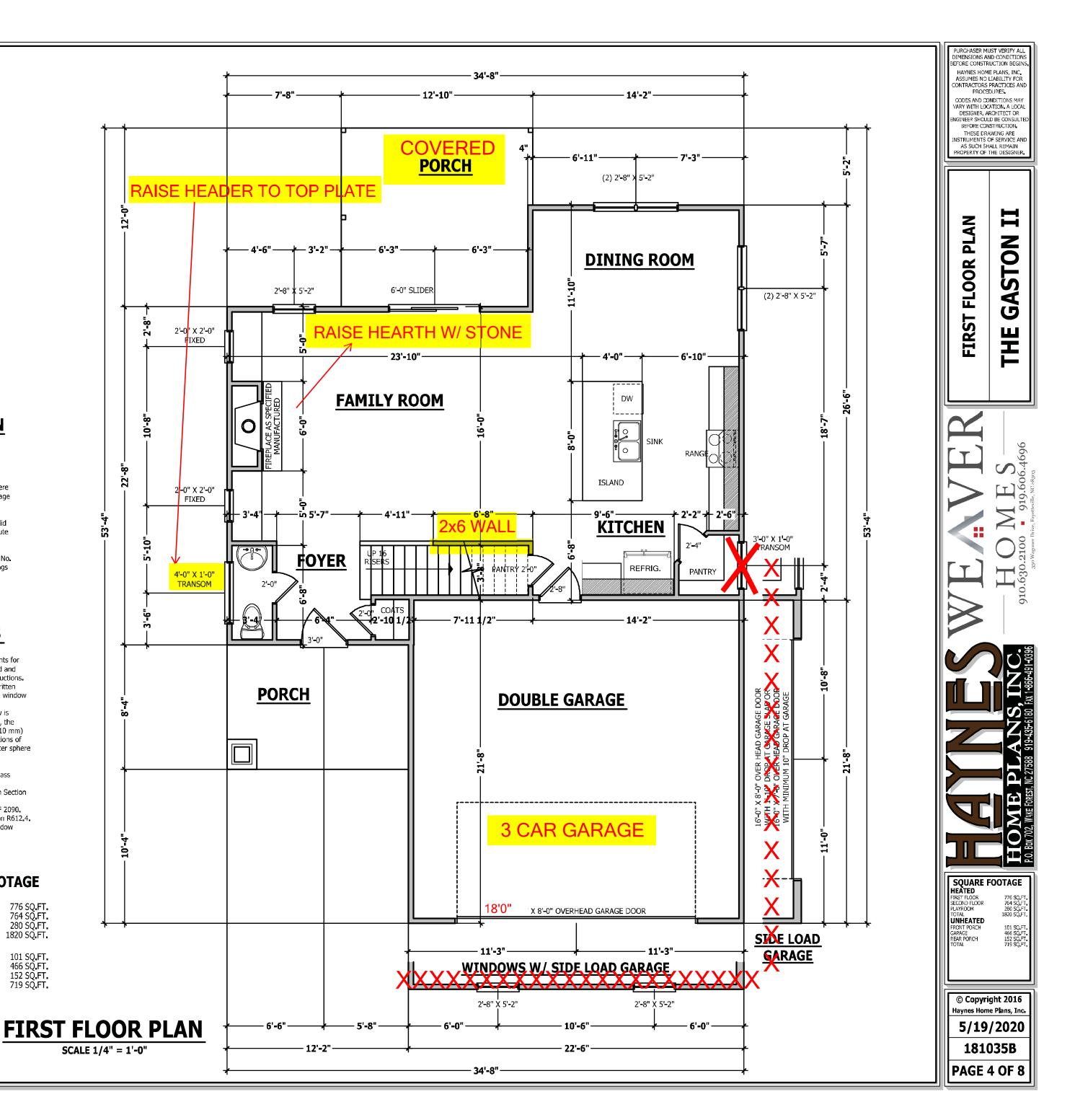
R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in walls. Windows and doors shall be installed and flashed in accordance with the fenestration manufacturer's written installation instructions. Window and door openings shall be flashed in accordance with Section R703.8. Written installation instructions shall be provided by the fenestration manufacturer for each window or door.

R612.2 Window sills. In *dwelling* units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished *grade* or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere where such openings are located within 24 inches (610 mm) of the finished floor. **Exceptions:**

 Windows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.
 Openings that are provided with window fall prevention devices that comply with Section R612.3.

Openings that are provided with fall prevention devices that comply with ASTM F 2090.
 Windows that are provided with opening limiting devices that comply with Section R612.4.
 R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.





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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 bu	uilding 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
Staire	40		1/360

Snow -------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=1.9x10⁶ 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 1/2" x 3 1/2" x 1/4" steel angle with 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. CONCRETE AND SOILS: See foundation notes.

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 edgers unless noted otherwise.

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

EXTERIOR HEADERS

- KING STUDS EACH END PER TABLE BELOW

HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16'

KING STUD(S) 1 2 3 5 6

INTERIOR HEADERS

- LOAD BEARING HEADERS (2) 2 X 6 WITH **1 JACK STUD AND 1 KING STUD EACH END**

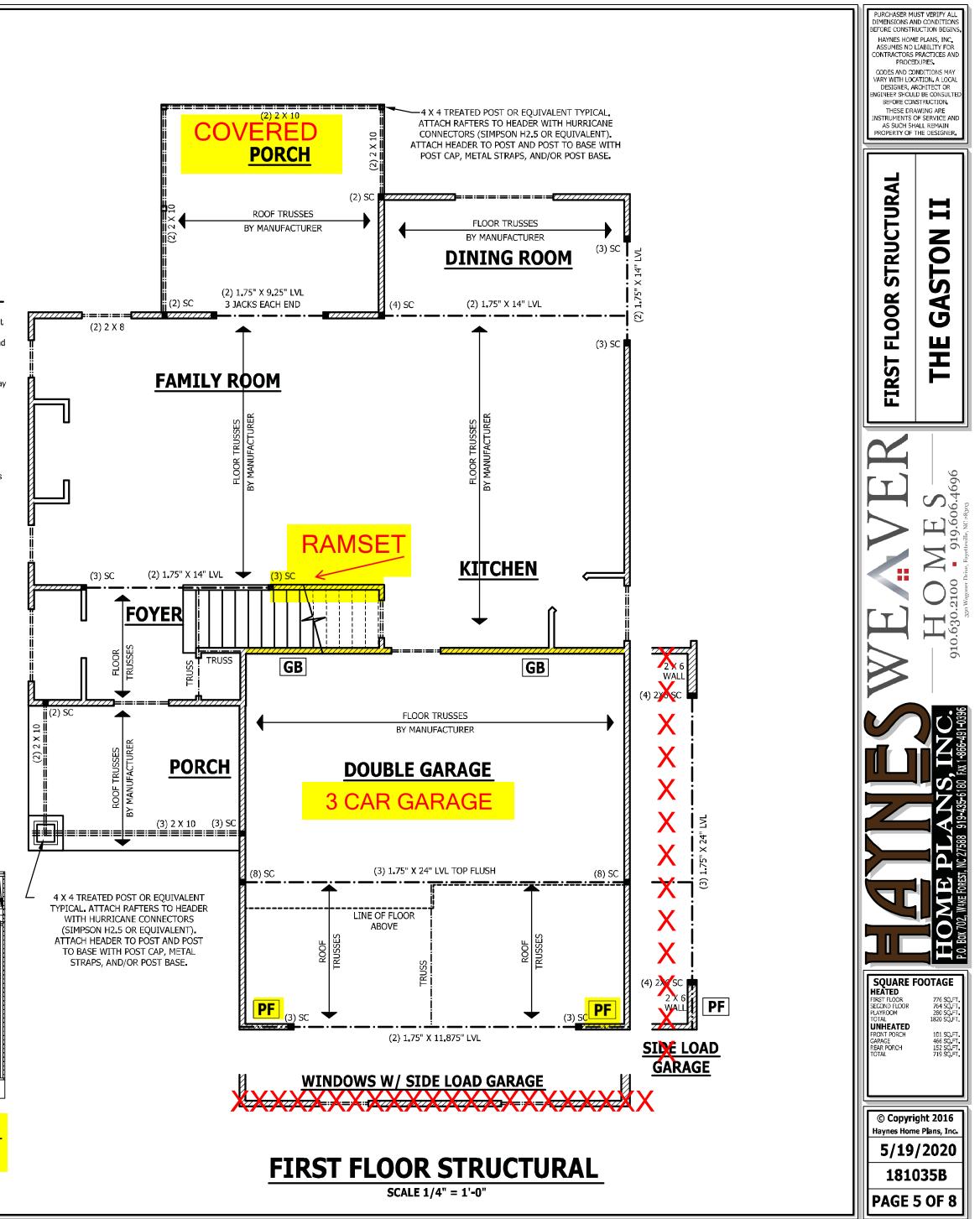
- NON LOAD BEARING HEADERS TO BE

- (2) 2 X 6 WITH 1 JACK STUD EACH END

UNLESS NOTED OTHERWISE

UNLESS NOTED OTHERWISE

LADDER FRAMED



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 stened per table R702.3.5. nod GB gypsum to be fas

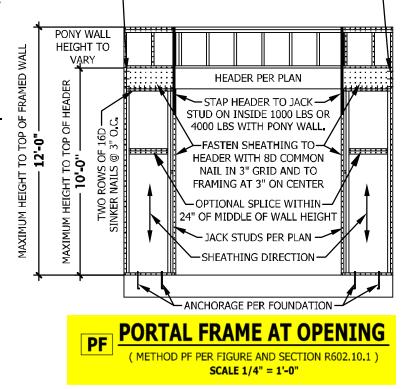
GB to be fastened per table R602.10.1. REQUIRED LENGTH OF BRACING: Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602 10 3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. HD: 800 lbs hold down hold down device fastened to the edge

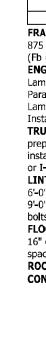
of the brace wall panel dosets to the corner. Methods Per Table R602.10.1

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" long 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 $1 \frac{1}{2}$ long x 0.12" diameter galvanized roofing nai s

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





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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	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:

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Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x106 PSI Paralel 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 Instal a 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 1/2" x 3 1/2" x 1/4" steel angle with 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.

CONCRETE AND SOILS: See foundation notes.

ATTIC ACCESS

SECTION R807

R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net dear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

Exceptions:

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 Pull down stair treads, stringers, handrails, and hardware may

protrude into the net dear opening.

EXTERIOR WINDOWS AND DOORS

SECTION R612

R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in walls. Windows and doors shall be installed and flashed in accordance with the fenestration manufacturer's written installation instructions. Window and door openings shall be flashed in accordance with Section R703.8. Written installation instructions shall be provided by the fenestration manufacturer for each window or door.

R612.2 Window sills. In *dwelling* units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished *grade* or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere where such openings are located within 24 inches (610 mm) of the finished floor. **Exceptions:**

 Windows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.
 Openings that are provided with window fall prevention devices that comply with Section R612.3.

Openings that are provided with fall prevention devices that comply with ASTM F 2090.
 Windows that are provided with opening limiting devices that comply with Section R612.4.
 R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.

EXTERIOR HEADERS

- (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' KING STUD(S) 1 2 3 5 6

INTERIOR HEADERS - LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END UNLESS NOTED OTHERWISE

- NON LOAD BEARING HEADERS TO BE LADDER FRAMED

ROOF TRUSS REQUIREMENTS

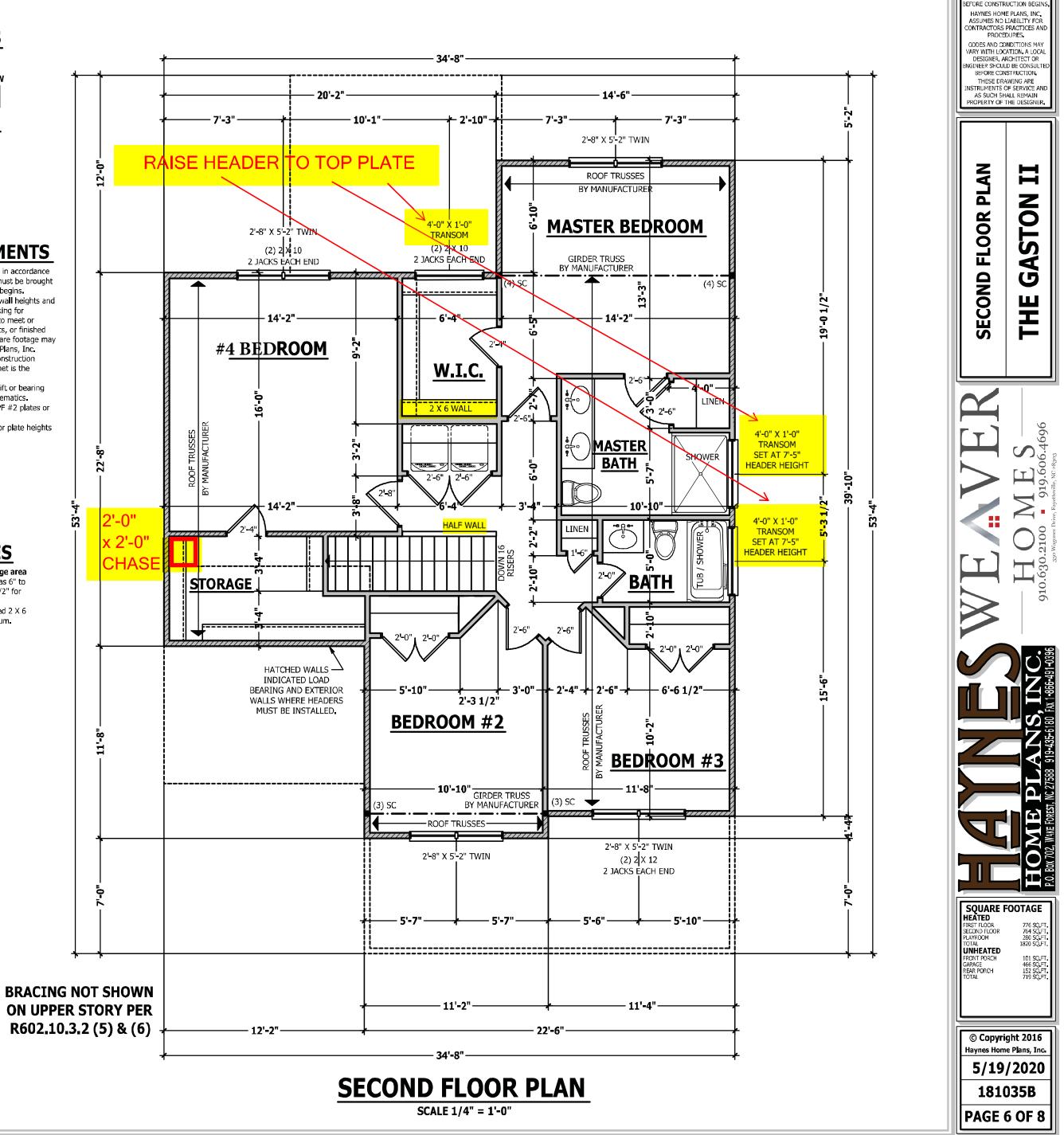
TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. **KNEE WALL AND CEILING HEIGHTS.** All finished knee wall heights and ceiling heights are shown furred 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.

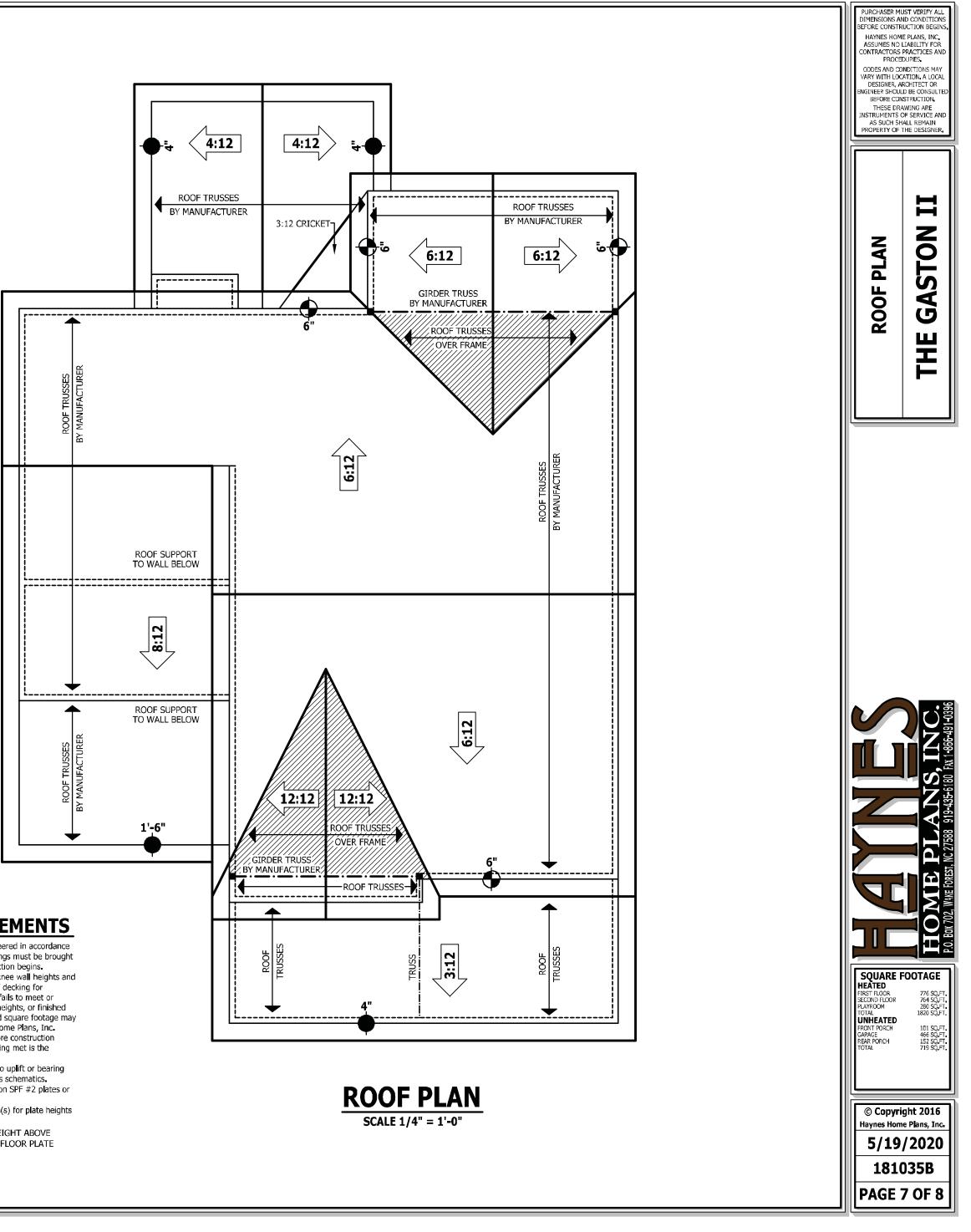
Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.

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.



PURCHASER MUST VERIFY AL DIMENSIONS AND CONDITION



ROOF TRUSS REQUIREMENTS

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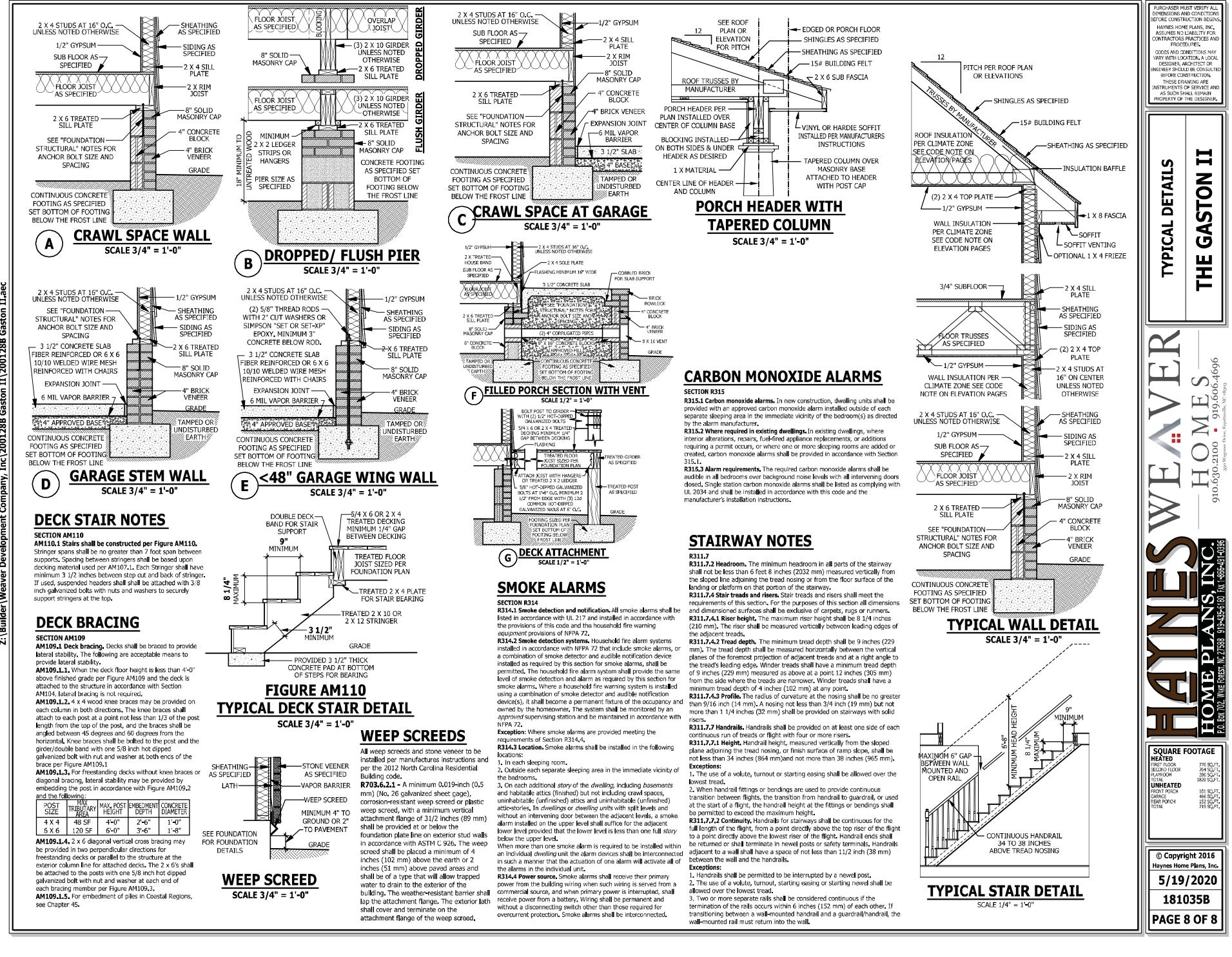
and floor system thicknesses.

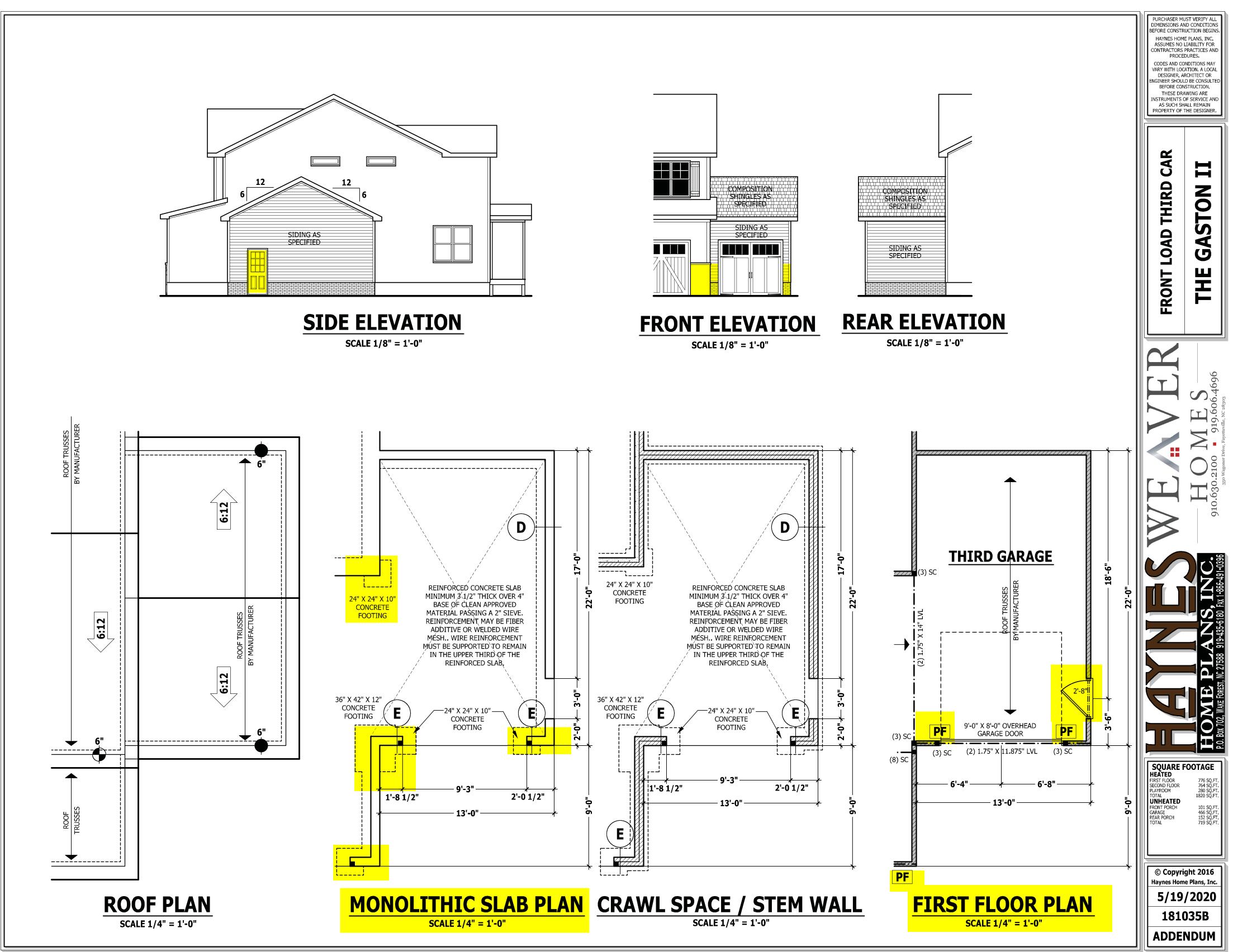
HEEL HEIGHT ABOVE

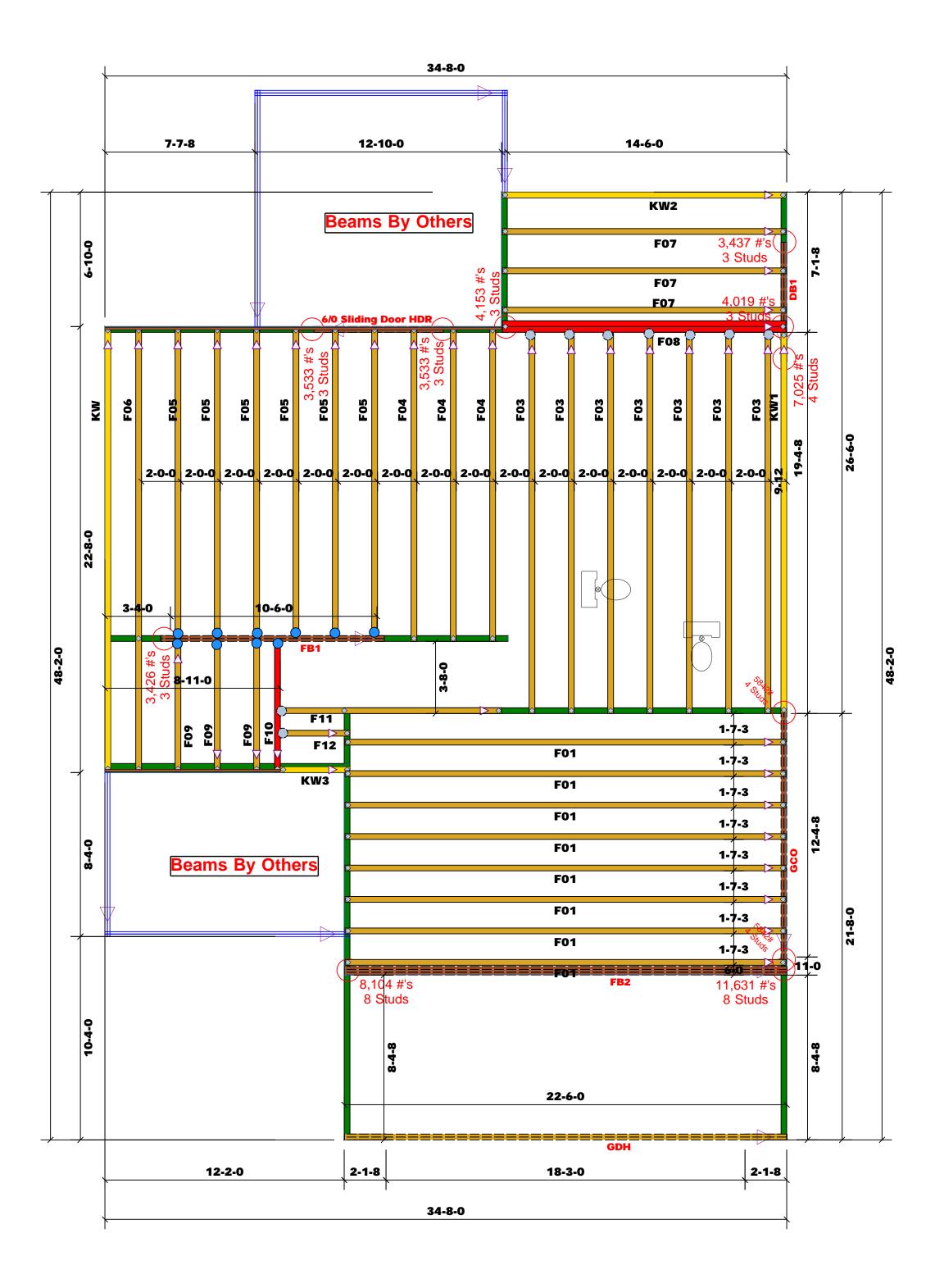
HEEL HEIGHT ABOVE

uilder\Weaver Development Company, Inc\200128B Gaston II\200128B Gaston II

N







\bigcirc	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
\bigcirc	MSH422	USP	9	Varies	10d/3"	10d/3"

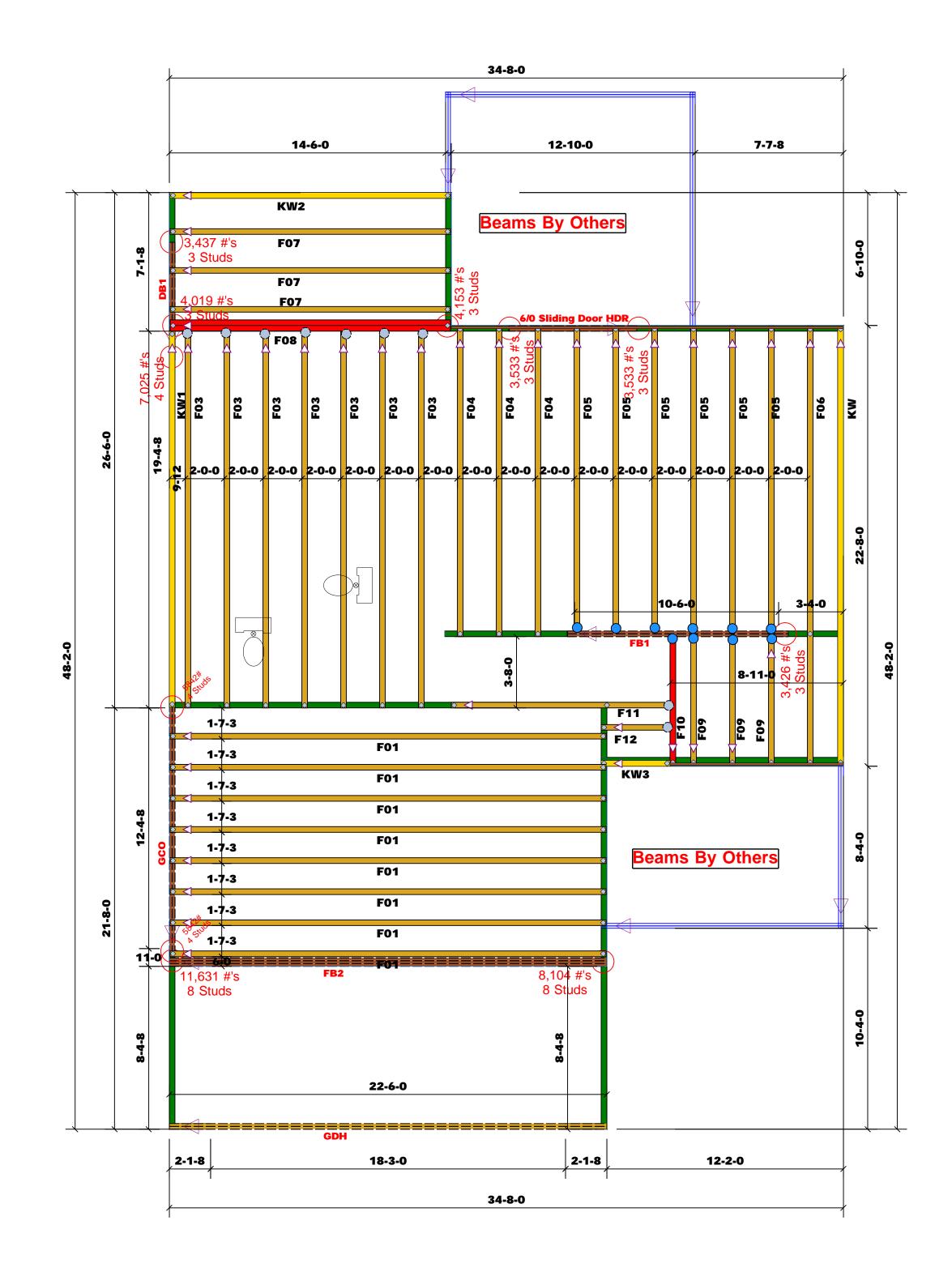
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. **Reaction / # of Studs**

Products								
PlotID	Length	Product	Plies	Net Qty	Fab Type			
6/0 Sliding Door HDR	7-0-0	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF			
GDH	23-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF			
GCO	14-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF			
FB1	12-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF			
DB1	7-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF			
FB2	23-0-0	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF			

]	<u>Fruss</u> <u>Placemen</u> SCALE: 1/4"		•	ence Engineered Truss Drawing) NOT Erect Truss Backwards
	(DASES ON TABLES &	2 JACK STUDS 85025034060 30080506 (4 CMb of	BUILDER	Weaver Development Co. Inc.	COUNTY	Harnett	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	
	FEADEWEE	RDER 한번 곳 월		Lot 6 McPhail Farm	ADDRESS	Hayes Rd.	is responsible for temporary and permanent bracing of the root 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	соттесн
1700	1 2550	Баларан 26.2 (18.0) 26.2 (18.0) 27.2 (19.0) 27.2 (19.0) 27.2 (19.0) 27.2 (19.0) 27.2 (19.0) 27.2 (19.0) 27.2 (19.0) 27.2 (19.0) 27.2 (19.		Gaston II (181035B)	MODEL	Floor	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	ROOF & FLOOR
3400 5100	2 5100 3 7650	2 6600 3 10200		N/A	DATE REV.	11	(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	TRUSSES & BEAMS Reilly Road Industrial Park
6800 8500 10200	4 10200 5 12750 6 15300	5 17000 1	QUOTE #	Quote #	DRAWN BY	Marshall Naylor	specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.	Fayetteville, N.C. 28309 Phone: (910) 864-8787
11900 13600 15300	, 1 2		JOB #	J0522-2775	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444

▲ = Indicates Left End of Truss (Reference Engineered Truss Drawing)



\bigcirc	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
\bigcirc	MSH422	USP	9	Varies	10d/3"	10d/3"

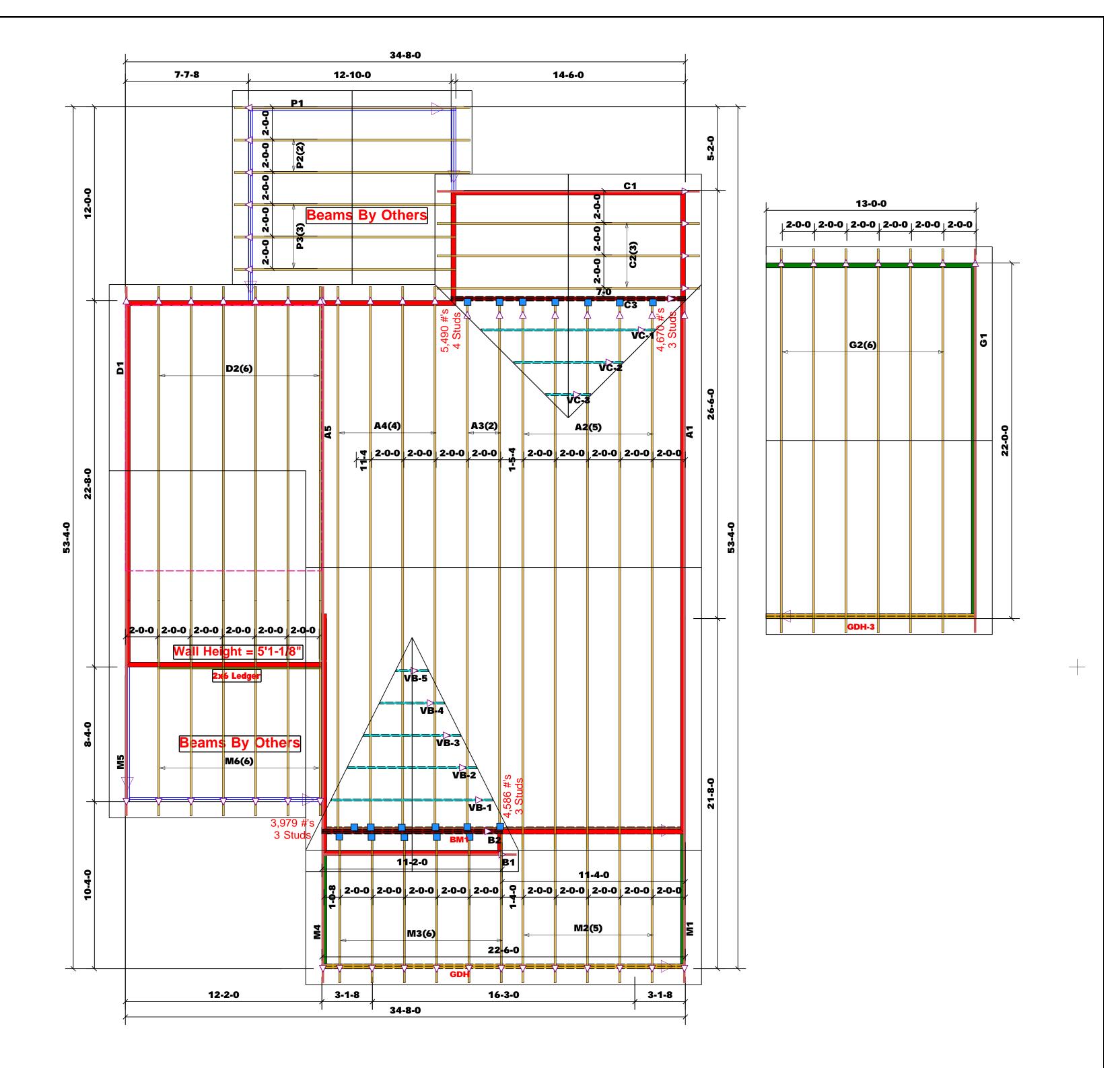
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

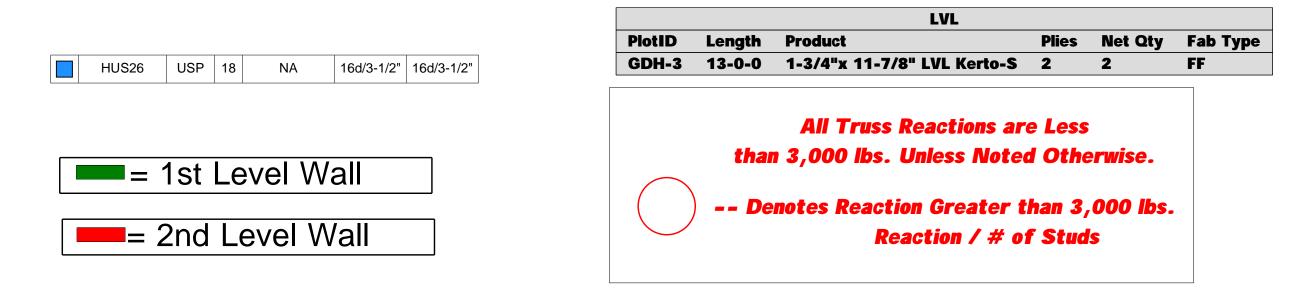
-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

Products									
PlotID	Length	Product	Plies	Net Qty	Fab Type				
6/0 Sliding Door HDR	7-0-0	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF				
GDH	23-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF				
GCO	14-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF				
FB1	12-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF				
DB1	7-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF				
FB2	23-0-0	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF				

 \triangle = Indicates Left End of Truss

				1	<u>Fruss</u> <u>Placemen</u> SCALE: 1/4		-	nce Engineered Truss Drawing) OT Erect Truss Backwards
045	HART FOR JAC FE ON 1 ABLES (\$502.5) JACK STUDG (COURCE)	1) 4 (6))	BUILDER	Weaver Development Co. Inc.	COUNTY	Harnett	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	
NEWCTON (Jointo) (Joi	PEADEWEIRDER	N N N N N N N N N N N N N N N N N N N	JOB NAME	Lot 6 McPhail Farm	ADDRESS	Hayes Rd.	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	соттесн
1700 1	2550 1	Na eni 3400 1	PLAN	Gaston II (181035B)	MODEL	Floor	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	ROOF & FLOOR
3400 2 5100 3 6800 4	5100 2 7650 3 10200 4	5600 2 10200 3 13600 4	SEAL DATE	N/A	DATE REV.	11	(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	TRUSSES & BEAMS Reilly Road Industrial Park
8500 5 10200 6 11900 7	12750 5 15300 6	17000 5	QUOTE #	Quote #	DRAWN BY	Marshall Naylor	specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.	Fayetteville, N.C. 28309 Phone: (910) 864-8787
13600 8 15300 9			JOB #	J0522-2775	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444





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

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	соттесн
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 studis 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#.	ROOF & FLOOR TRUSSES & BEAMS Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787
Marshall Naylor	Fax: (910) 864-4444

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

Johnston

Hayes Rd.

Marshall Naylor

Lenny Norris

Roof

11

COUNTY

ADDRESS

DATE REV.

DRAWN BY

SALESMAN

MODEL

LOAD CHART FOR JACK STUDS

(DASED ON TABLES $R502.5(1) \triangleq (b))$ NUMBER OF DACK STUDG REQUIRED & CA END OF FEADER/6TRDER

AND REVEILON OF AUG SOFT STUDS FOR

2550 - 1

5100 2

7650 3

10200 4

12750 5

15300 6

IND RIACTION (0F T0) 360, 0 STUDS FOR (7) MAY HEADER

1700 1 3400 2

5100 3

6800 4

8500 5

IND RUCTION (JP 10) REQUESTION

3400

6600 Z

10200 3

13600 4

17000 5

BUILDER

PLAN

JOB NAME

SEAL DATE

QUOTE #

JOB#

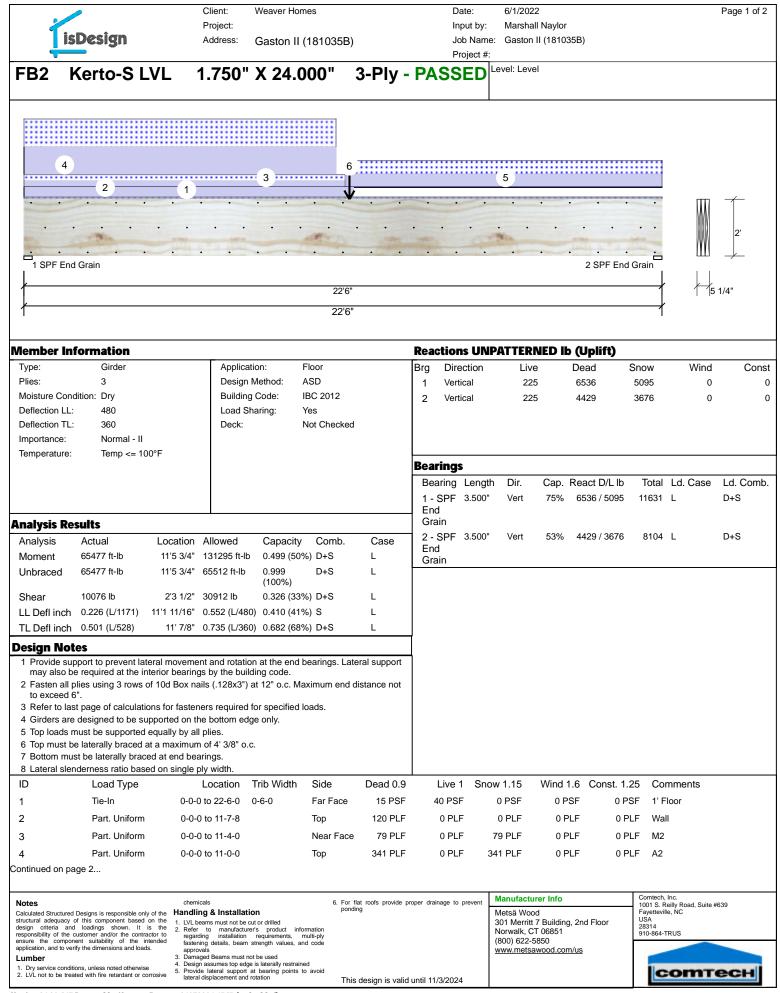
Weaver Development Co. Inc.

Gaston II (181035B) w/3rd Car

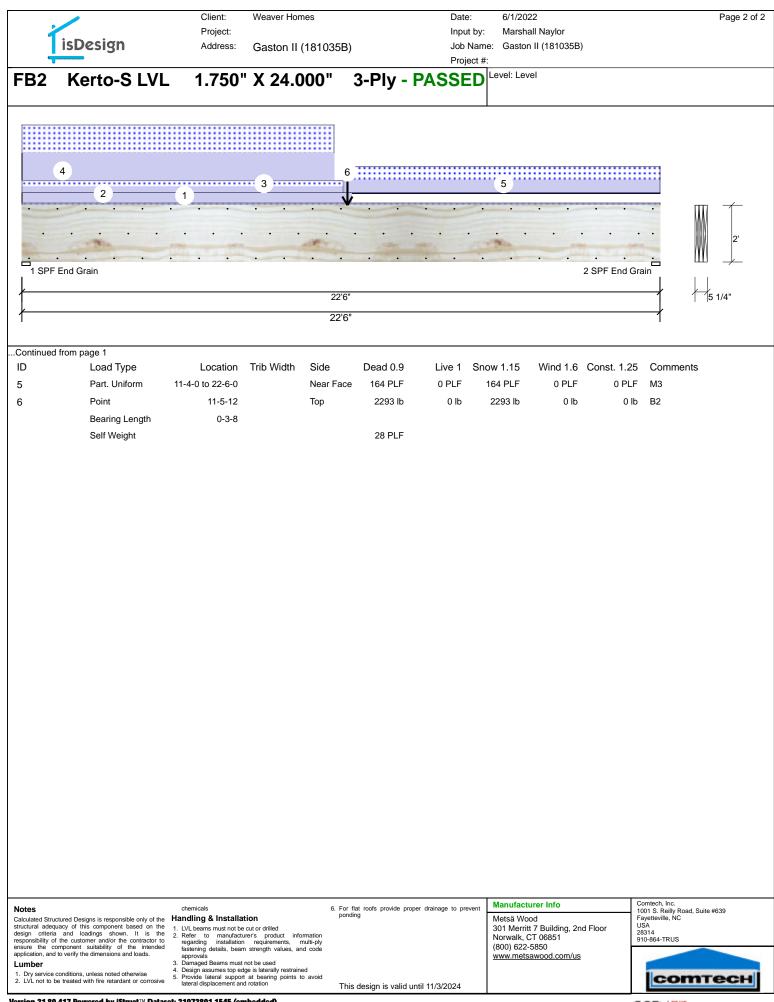
Lot 6 McPhail Farm

N/A

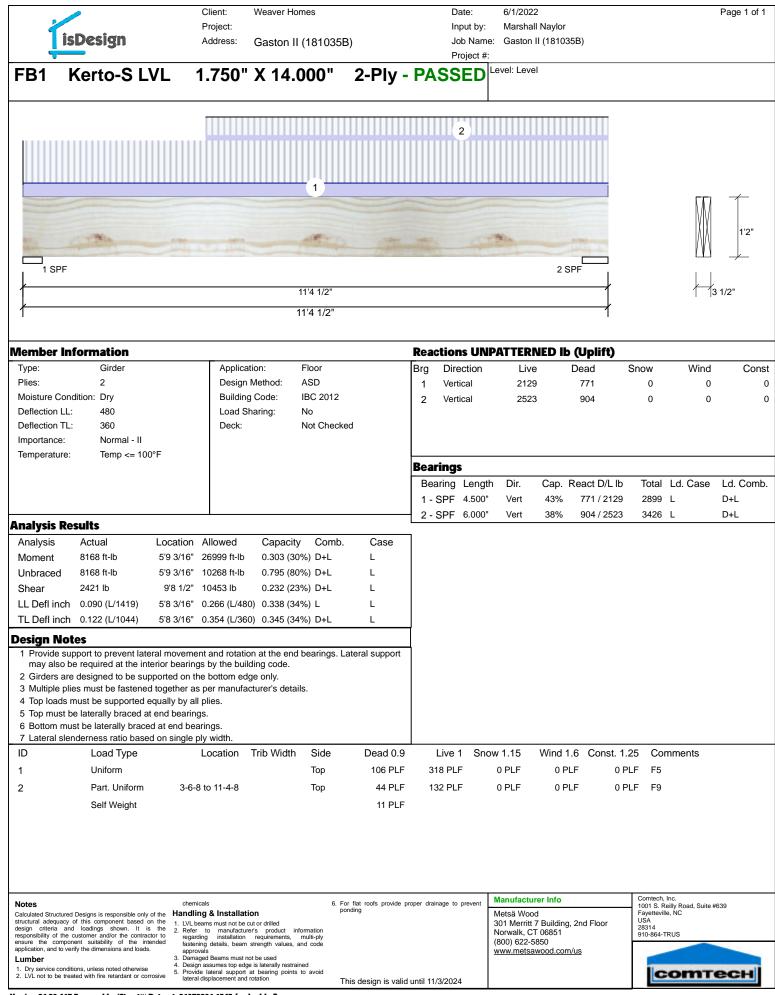
J0522-2774



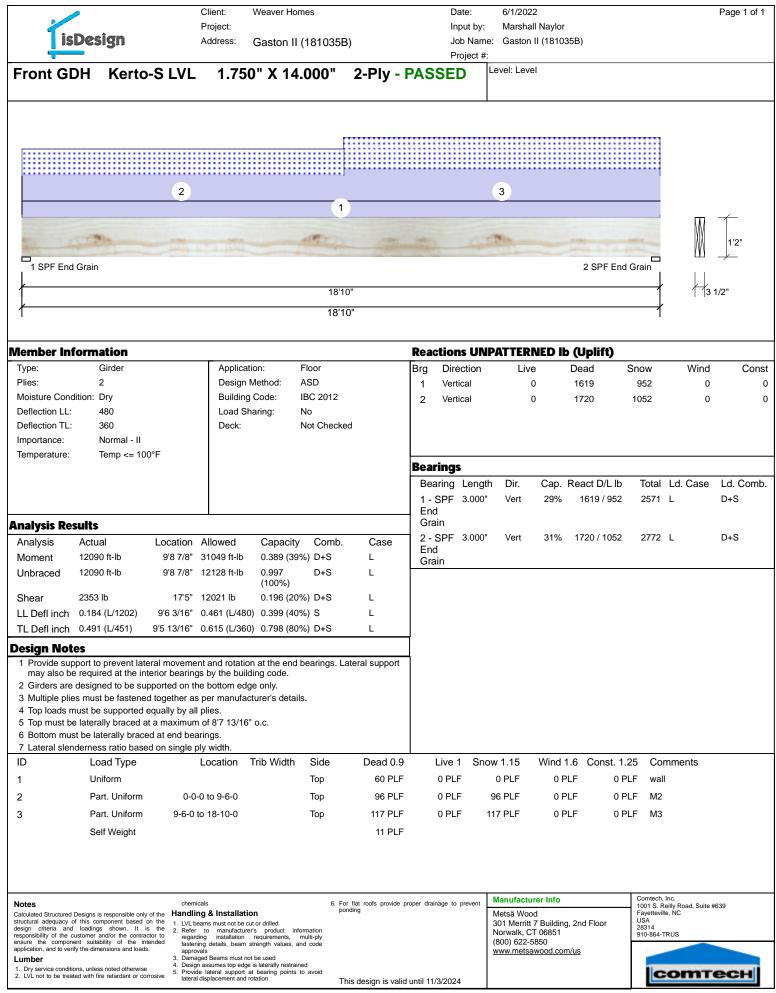
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Version 21.80.417 Powered by iStruct™ Dataset: 21072801.1545 (embedded)

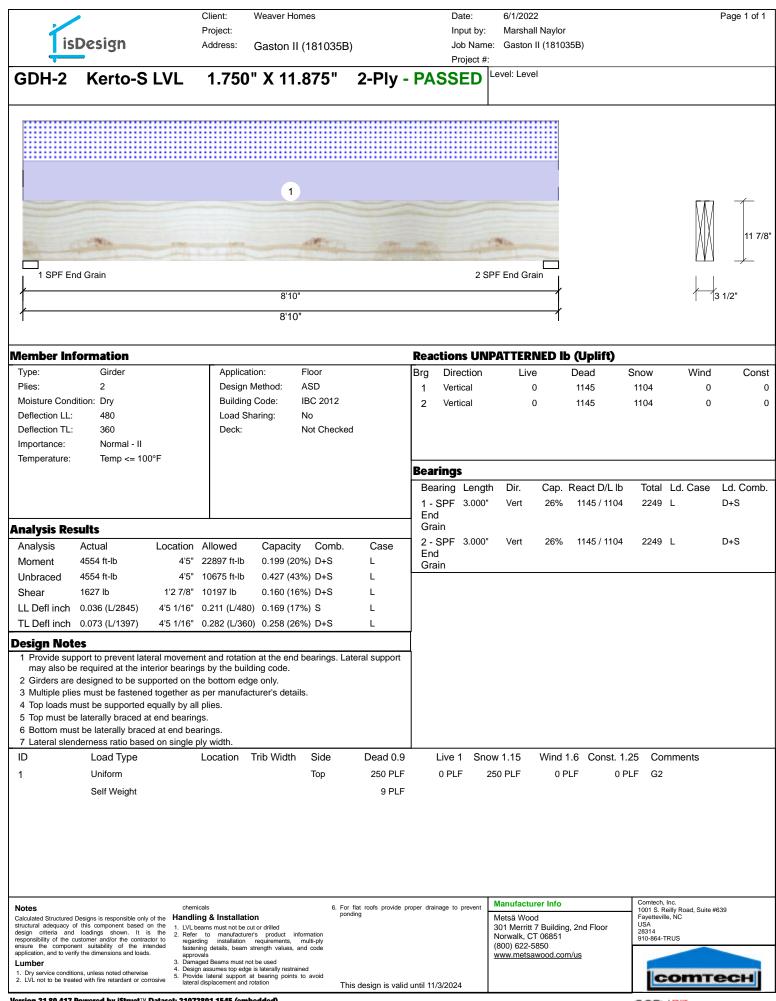


is	Design	Project:	/eaver Homes aston II (18103	5B)	Date: Input by: Job Name	6/1/2022 Marshall :: Gaston I	Naylor			Page 1 of
6/0 SLID	-			-	Project #:	Level: Level				
	2			;					\square	9
	End Grain		6'7" 6'7"	-	2 SPF End	Grain			/ ¥	3 1/2"
Vember Inf	formation				Reactions UN					
Туре:	Girder	Application	n: Floor		Brg Direction	Live	Dead	Snow	Wind	Cor
Plies: Moisture Cond Deflection LL: Deflection TL: Importance: Temperature:	2	Design Me Building C Load Shar Deck:	ethod: ASD ode: IBC 2012		1 Vertical 2 Vertical	1060 1060	1887 1887	1113 1113	0	Cu
	·				Bearings Bearing Length 1 - SPF 3.500" End	n Dir. Vert	Cap. React D/L lb 34% 1887 / 1629			Ld. Com D+0.75(L
Inalysis Res					Grain 2 - SPF 3.500"	Vert	34% 1887 / 1629	3516	1	D+0.75(L
Analysis Moment Unbraced Shear LL Defl inch TL Defl inch	5009 ft-lb 3' 5009 ft-lb 3' 2387 lb - 0.042 (L/1741) 3'	'3 1/2" 14423 ft-lb '3 1/2" 10451 ft-lb		75(L+S) L 75(L+S) L 75(L+S) L _+S) L	End Grain		0470 10017 1020			
may also be 2 Girders are 3 Multiple plie 4 Top loads m 5 Top must be 6 Bottom mus	es opport to prevent lateral m a required at the interior designed to be support as must be fastened toge nust be supported equal a laterally braced at end at be laterally braced at end derness ratio based on	bearings by the buildin ed on the bottom edge ether as per manufactu ly by all plies. bearings. end bearings.	g code. only.	Lateral support						
ID	Load Type		ib Width Side	Dead 0.9	Live 1 Sno	w 1.15	Wind 1.6 Const. 1	.25 Co	mments	
1	Uniform		Тор	108 PLF	322 PLF	0 PLF	0 PLF 0	PLF F4		
2	Uniform		Тор	120 PLF	0 PLF	0 PLF		PLF WA	LL	
3	Uniform Self Weight		Тор	338 PLF 7 PLF	0 PLF 3	38 PLF	0 PLF 0	PLF A4		
structural adequacy of design criteria and responsibility of the cu ensure the compone	Designs is responsible only of the of this component based on the loadings shown. It is the ustomer and/or the contractor to net suitability of the intended by the dimensions and loads.	chemicals Handling & Installation 1. LVL beams must not be cut o 2. Refer to manufacturer's regarding installation re fastening details, beam stre approvals. beam stre approvals assumes top edge is 3. Damaged Beams must not be	r drilled product information quirements, multi-ply ngth values, and code e used	For flat roofs provide p ponding	roper drainage to prevent	Manufacture Metsä Wood 301 Merritt 7 Norwalk, CT (800) 622-58 www.metsav	Building, 2nd Floor 06851 350	Comtech, 1001 S. R Fayettevil USA 28314 910-864-	teilly Road, Suite # le, NC	4639



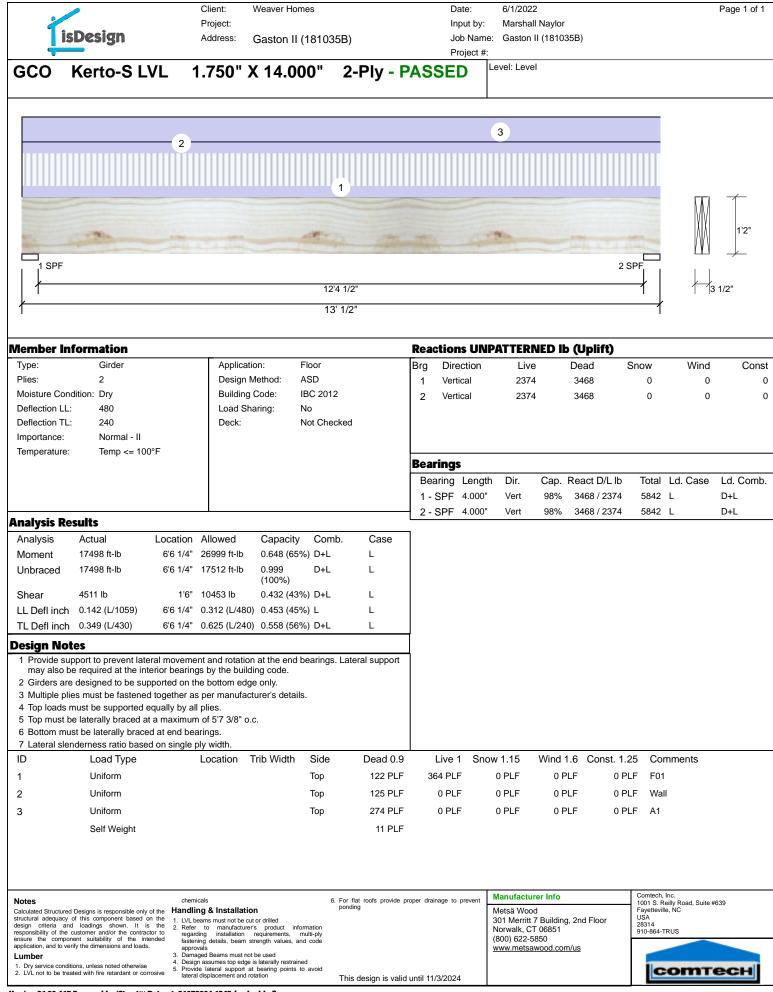
	•	Client:	Weaver Ho	mes		Date:	6/1/202	2			Page 1 of
Tie	Design	Project:	0 1 1	(4040055)		Input b	-	I Naylor			
	Design	Address:	Gaston II	(181035B)		Job Na Project		II (181035B)			
Window	Hdr. Kerto	-SLVL 1	.750" X	14.000"	2-Ply	- PASSED		:I			
2			1	5 SPF End Grain							1'2"
		6'10"									3 1/2"
1		6'10"			1						
/lember inf	ormation					Reactions U	NPATTER	NED Ib (Uplift))		
Туре:	Girder	Applic		Floor		Brg Direction			Snow	Wind	Cor
Plies:	2		n Method:	ASD		1 Vertical	286	3387	1990	0	
Moisture Cond	•		ng Code:	IBC 2012		2 Vertical	87	3 1906	1168	0	
Deflection LL:	480		Sharing:	No Not Checked							
Deflection TL:	360 Normal II	Deck:		Not Checked							
Importance:	Normal - II										
Temperature:	Temp <= 100°F					Bearings					
							ath Dia	Can Deast D/	lh Tata		
						Bearing Len	-	Cap. React D/L		I Ld. Case	Ld. Com
						1 - SPF 3.00 End	0" Vert	80% 3387 / 36	538 702	5 L	D+0.75(l
nalysis Res	sulte	I				Grain					
Analysis		ocation Allowed	Capacity	Comb.	Case	2 - SPF 3.00	0" Vert	39% 1906 / 15	531 343	7 L	D+0.75(L
Moment	11172 ft-lb	2' 31049 ft-lb		%) D+0.75(L+		End					
	11172 ft-lb	2' 15767 ft-lb		%) D+0.75(L+		Grain					
Unbraced	6407 lb	1'5" 12021 lb	`		-						
Shear				%) D+0.75(L+							
	(<i>'</i>	2'7 5/8" 0.161 (L/4	, (, , ,							
I L Defl inch	0.067 (L/1165)	2'8 7/8" 0.215 (L/3	30) 0.309 (31	%) D+0.75(L+	S) L						
esign Note	es										
	port to prevent lateral			bearings. Late	ral support						
	e required at the interio designed to be suppor	• •	•								
	es must be fastened to		• •	ls.							
	nust be supported equa										
•	e laterally braced at en at be laterally braced at	•									
	derness ratio based or	-									
1 Lateral Sien	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1 S	now 1.15	Wind 1.6 Cons	t. 1.25 C	omments	
	L la ifa na			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF W	/ALL	
ID	Uniform		1-0-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF		ROOF	
ID 1		0-0-0 to 2-0-0		1-	1040 lb	3115 lb	0 lb	0 lb	0 lb F		
ID 1 2	Tie-In			Top				0 10			
ID 1 2	Tie-In Point	1-9-8		Тор	1040 lb	011010					
ID 1 2 3	Tie-In Point Bearing Length	1-9-8 0-3-8		·					0 16 0	0	
ID 1 2 3	Tie-In Point Bearing Length Point	1-9-8 0-3-8 2-0-0		Тор Тор	2385 lb	0 lb	2385 lb	0 lb	0 lb C	3	
ID 1 2 3 4	Tie-In Point Bearing Length Point Bearing Length	1-9-8 0-3-8		·				0 lb	0 lb C	3	
ID 1 2 3 4	Tie-In Point Bearing Length Point Bearing Length	1-9-8 0-3-8 2-0-0		·			2385 lb				
ID 1 2 3 4 ontinued on pag	Tie-In Point Bearing Length Point Bearing Length ge 2	1-9-8 0-3-8 2-0-0 0-3-8 chemicals		Top 6. For fit	2385 lb		2385 lb t Manufactu	rer Info	Comter 1001 S	:h, Inc. . Reilly Road, Suite ∌	1639
ID 1 2 3 4 ontinued on pagent Notes Calculated Structured If Calculated Structured of Structured If	Tie-In Point Bearing Length Point Bearing Length ge 2	1-9-8 0-3-8 2-0-0 0-3-8 • Handling & Installa		Тор	2385 lb	0 lb	2385 lb t Manufactu Metsä Woo	rer Info	Comteo 1001 S Fayette USA	sh. Inc.	1 639
ID 1 2 3 4 ontinued on page Notes Calculated Structured I Structural adequacy of design oriteria and seponsibility of the cc	Tie-In Point Bearing Length Point Bearing Length ge 2	1-9-8 0-3-8 2-0-0 0-3-8 • Handling & Installa 1. LVL beams must not be 9 1. LVL beams must not be regarding installation installation installation	e cut or drilled urer's product inf	Top 6. For fit pondin	2385 lb	0 lb	2385 lb t Manufactu Metsä Woo 301 Merritt Norwalk, C	rer Info d 7 Building, 2nd Floor 7 06851	Comter 1001 S Fayette USA 28314	:h, Inc. . Reilly Road, Suite ∌	1 639
ID 1 2 3 4 ontinued on page Notes Calculated Structured I structured adequacy of esign oriteria and responsibility of the cc ansure the compone	Tie-In Point Bearing Length Point Bearing Length ge 2	1-9-8 0-3-8 2-0-0 0-3-8 • Handling & Installa • 1. U/L beams must not be • 2. Refer to manufact regarding installatis, bear approvals	e cut or drilled urer's product inf n requirements, m strength values, a	Top 6. For fite pondin multi-ply	2385 lb	0 lb	2385 lb t Manufactu Metsä Woo 301 Merritt Norwalk, C (800) 622-5	rer Info d 7 Building, 2nd Floor 7 06851	Comter 1001 S Fayette USA 28314	ch, Inc. Reilly Road, Suite # ville, NC	1639
ID 1 2 3 4 Notes	Tie-In Point Bearing Length Point Bearing Length ge 2 Designs is responsible only of the of this component based on the loadings shown. It is the ustomer and/or the contractor tt is the ustomer and/or the contractor the suitability of the intended	1-9-8 0-3-8 2-0-0 0-3-8 Handling & Installate 1. U/L beams must not be 2. Refer to manufact 5. Refer to manufact	e cut or drilled urer's product inf n requirements, m strength values, a not be used dge is laterally restrain	Top 6. For file pondin multi-ply ind code	2385 lb	0 lb	2385 lb t Manufactu Metsä Woo 301 Merritt Norwalk, C (800) 622-5	rer Info d 7 Building, 2nd Floor F 06851 850	Comilea 1001 S Fayette USA 28314 910-86	ch, Inc. Reilly Road, Suite # ville, NC	

2	Client: Weaver Homes Project:	Date: Input		Page 2 of 2
isDesign	Address: Gaston II (181		Jame: Gaston II (181035B)	
		Proje		
Window Hdr. Ker	to-S LVL 1.750" X 14.0	000" 2-Ply - PASSE	D Level: Level	
6 3 4				
2	5			
				\Box \uparrow
				WW L
and the second		17-2-		1'2"
. 1 SPF End Grain				
		ind Grain		
	6'10"			13 1/2"
1	6'10"	1		
Continued from page 1				
ID Load Type	Location Trib Width Sid	e Dead 0.9 Live 1	Snow 1.15 Wind 1.6 Const.	1.25 Comments
5 Part. Uniform	2-3-0 to 6-10-0 Top	160 PLF 0 PLF	160 PLF 0 PLF 0	PLF C2
6 Part. Uniform	2-3-0 to 0-0-0 Top		0 PLF 0 PLF 0	PLF F07
Self Weight		11 PLF		
Notes Calculated Structured Designs is responsible only of	chemicals of the Handling & Installation	6. For flat roofs provide proper drainage to prev ponding	Manufacturer Info Metsä Wood	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based or design criteria and loadings shown. It is	the 1. LVL beams must not be cut or drilled the 2. Refer to manufacturer's product information		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 910-864-TRUS
responsibility of the customer and/or the contract ensure the component suitability of the inter application, and to verify the dimensions and loads.	or to regarding installation requirements, multi-ply		(800) 622-5850 www.metsawood.com/us	910-804-1KUS
Lumber 1. Dry service conditions, unless noted otherwise	 Damaged Beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid 			loomtooul
2. LVL not to be treated with fire retardant or corr	lateral displacement and rotation	This design is valid until 11/3/2024		соттесн
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