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TBD SPRING HILL CHURCH RD  
LILLINGTON, NC  
3CG COVERED PORCH

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FRONT & REAR ELEVATIONS  
The Halifax II

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HAYNES HOME PLANS, INC.  
P.O. BOX 702, WAKE FOREST, NC 27788 919.435.4180 FAX 919.435.4099

SQUARE FOOTAGE  
HEATED  
FIRST FLOOR 1555 SQ.FT.  
PALMROOM 264 SQ.FT.  
TOTAL 1819 SQ.FT.  
HEATED OPTIONAL  
SECOND FLOOR 570 SQ.FT.  
TOTAL 570 SQ.FT.  
UNHEATED  
GARAGE 448 SQ.FT.  
FRONT PORCH 42 SQ.FT.  
REAR PORCH 154 SQ.FT.  
TOTAL 644 SQ.FT.  
UNHEATED OPTIONAL  
THIRD GARAGE 298 SQ.FT.  
TOTAL 298 SQ.FT.

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2/21/2020  
200223B  
PAGE 1 OF 8



**GARAGE FRONT WITH OPTIONAL SIDE LOAD**  
SCALE 1/8" = 1'-0"

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

MEAN ROOF HEIGHT: 18'-8" HEIGHT TO RIDGE: 25'-5"

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	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 2" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING. INSULATION DEPTH WITH STEEL WALL SLAB 2" OR TO BOTTOM OF FOUNDATION WALL  
DESIGNED FOR WIND SPEED OF 120 MPH, 1 SECOND GUST (8) FASTEST MILE EXPOSURE 'B'

COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS

MEAN ROOF	UP TO 30'	30'-1" TO 35'	35'-1" TO 40'	40'-1" TO 45'
ZONE 1	14.2	-15.0	14.9	-15.8
ZONE 2	14.2	-18.0	14.9	-18.9
ZONE 3	14.2	-18.0	14.9	-18.9
ZONE 4	15.5	-16.0	16.3	-16.8
ZONE 5	15.5	-20.0	16.3	-21.0

DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (10) FASTEST MILE EXPOSURE 'B'

MEAN ROOF	UP TO 30'	30'-1" TO 35'	35'-1" TO 40'	40'-1" TO 45'
ZONE 1	16.7	-18.0	17.5	-18.9
ZONE 2	16.7	-21.0	17.5	-22.1
ZONE 3	16.7	-21.0	17.5	-22.1
ZONE 4	18.2	-19.0	19.1	-20.0
ZONE 5	18.2	-24.0	19.1	-25.2

**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 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:**
- Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m<sup>2</sup>) of ventilation may be vented with continuous soffit ventilation only.
  - Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit vent only.

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,283 SQ.FT.  
NET FREE CROSS VENTILATION NEEDED:  
WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 15,222 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 = 7,611 SQ.FT.

HVAC: CAROLINA COMFORT HEATING & AIR  
ELECTRIC: PIONEER ELECTRIC PLUMBING; DOUBLE J

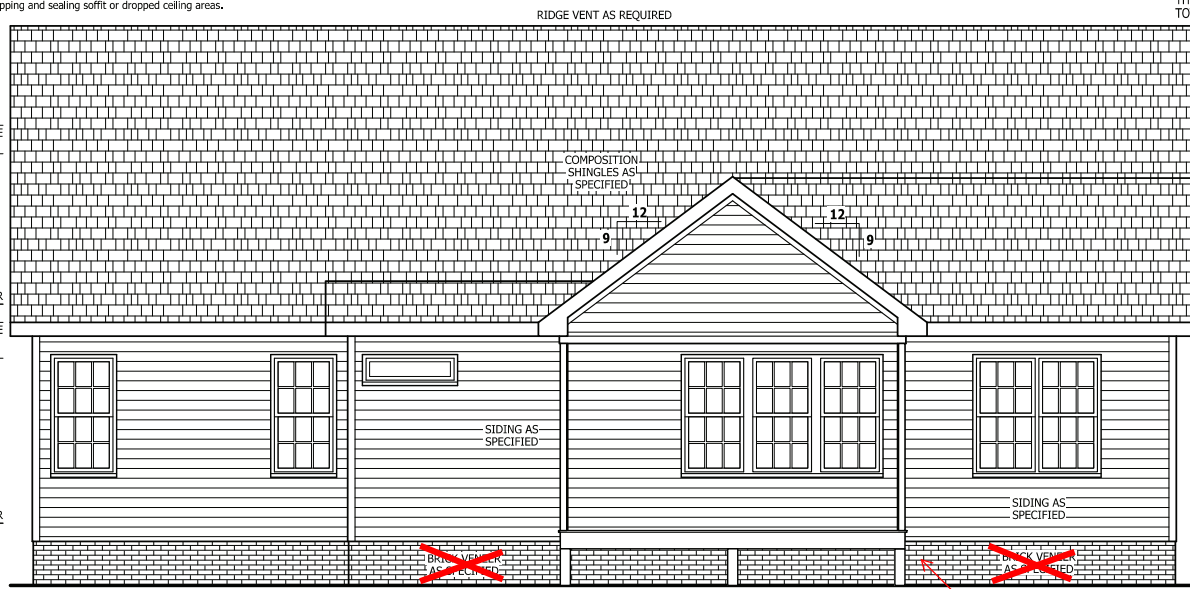


**FRONT ELEVATION**  
SCALE 1/4" = 1'-0"

**AIR LEAKAGE**

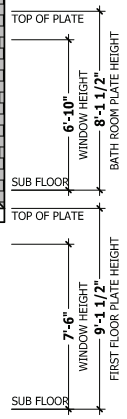
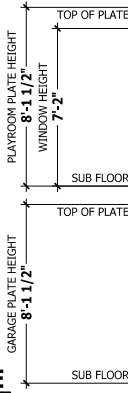
**Section N1102.4**  
N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the 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:

- Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.
- Capping and sealing shafts or chases, including flue shafts.
- Capping and sealing soffit or dropped ceiling areas.



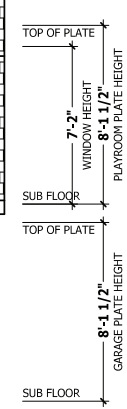
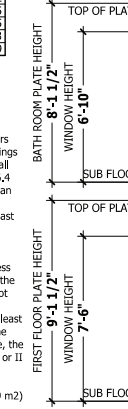
**REAR ELEVATION**  
SCALE 1/4" = 1'-0"

**PARGE**



**SQUARE FOOTAGE**

HEATED	UNHEATED
FIRST FLOOR 1555 SQ.FT.	GARAGE 448 SQ.FT.
PALMROOM 264 SQ.FT.	FRONT PORCH 42 SQ.FT.
TOTAL 1819 SQ.FT.	REAR PORCH 154 SQ.FT.
HEATED OPTIONAL	TOTAL 644 SQ.FT.
SECOND FLOOR 570 SQ.FT.	UNHEATED OPTIONAL
TOTAL 570 SQ.FT.	THIRD GARAGE 298 SQ.FT.
	TOTAL 298 SQ.FT.



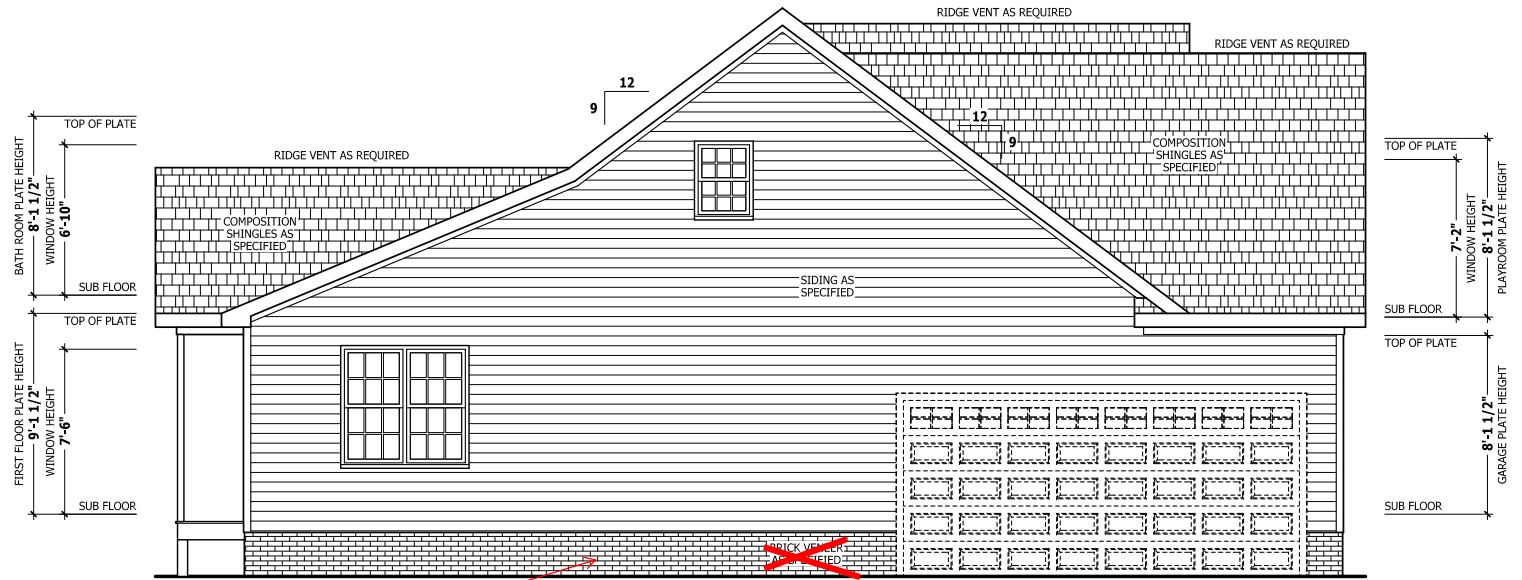
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**SIDE ELEVATIONS**  
**The Halifax II**

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SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1355 SQ.FT.
PLAYROOM	284 SQ.FT.
HEATED OPTIONAL	819 SQ.FT.
SECOND FLOOR	570 SQ.FT.
TOTAL	2218 SQ.FT.
UNHEATED	
GARAGE	448 SQ.FT.
FRONT PORCH	42 SQ.FT.
REAR PORCH	154 SQ.FT.
TOTAL	644 SQ.FT.
UNHEATED OPTIONAL	
100% GARAGE	298 SQ.FT.
TOTAL	298 SQ.FT.



**LEFT SIDE ELEVATION**

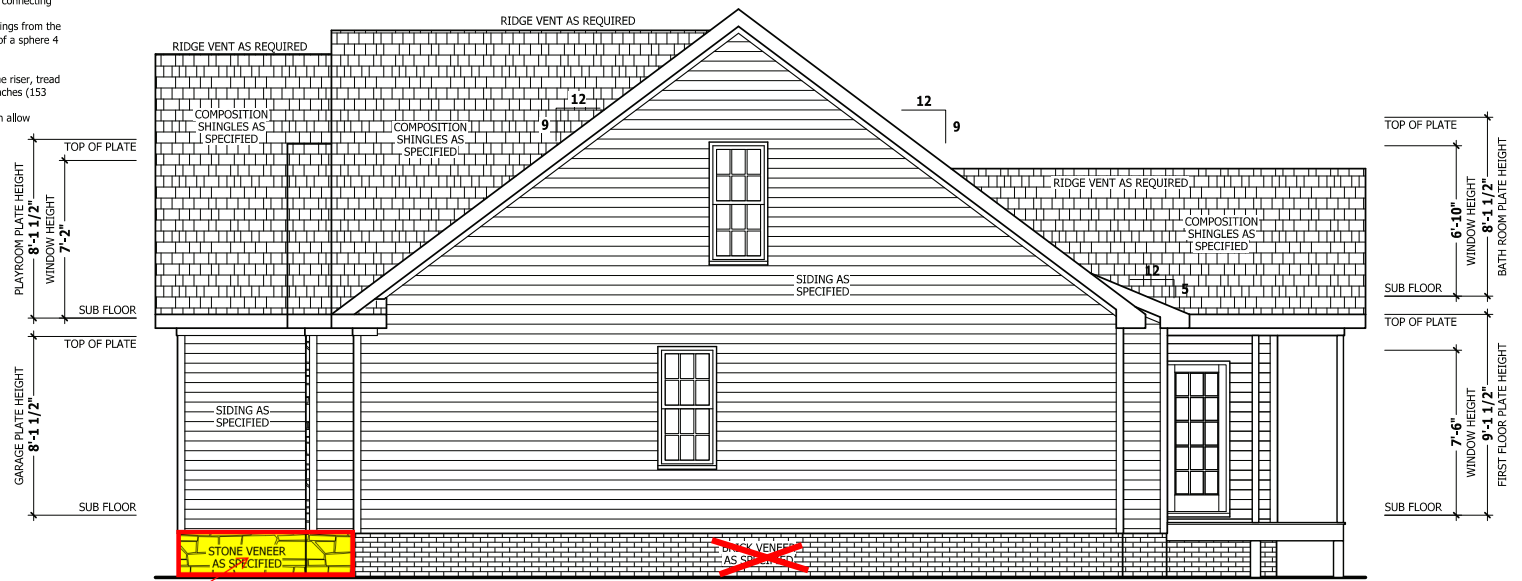
SCALE 1/4" = 1'-0"

~~**OPTIONAL SIDE LOAD GARAGE**~~

PARGE

**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 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.

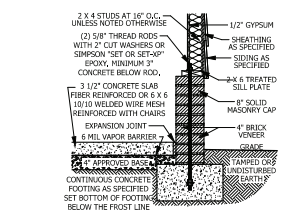
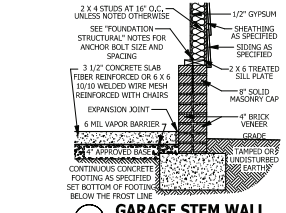
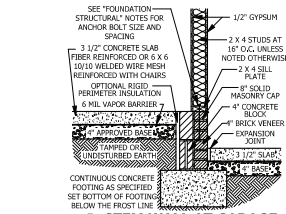
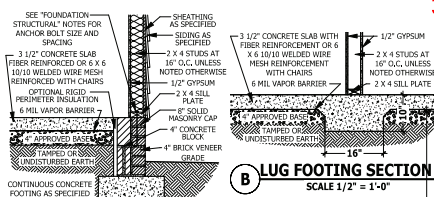


**RIGHT SIDE ELEVATION**

SCALE 1/4" = 1'-0"

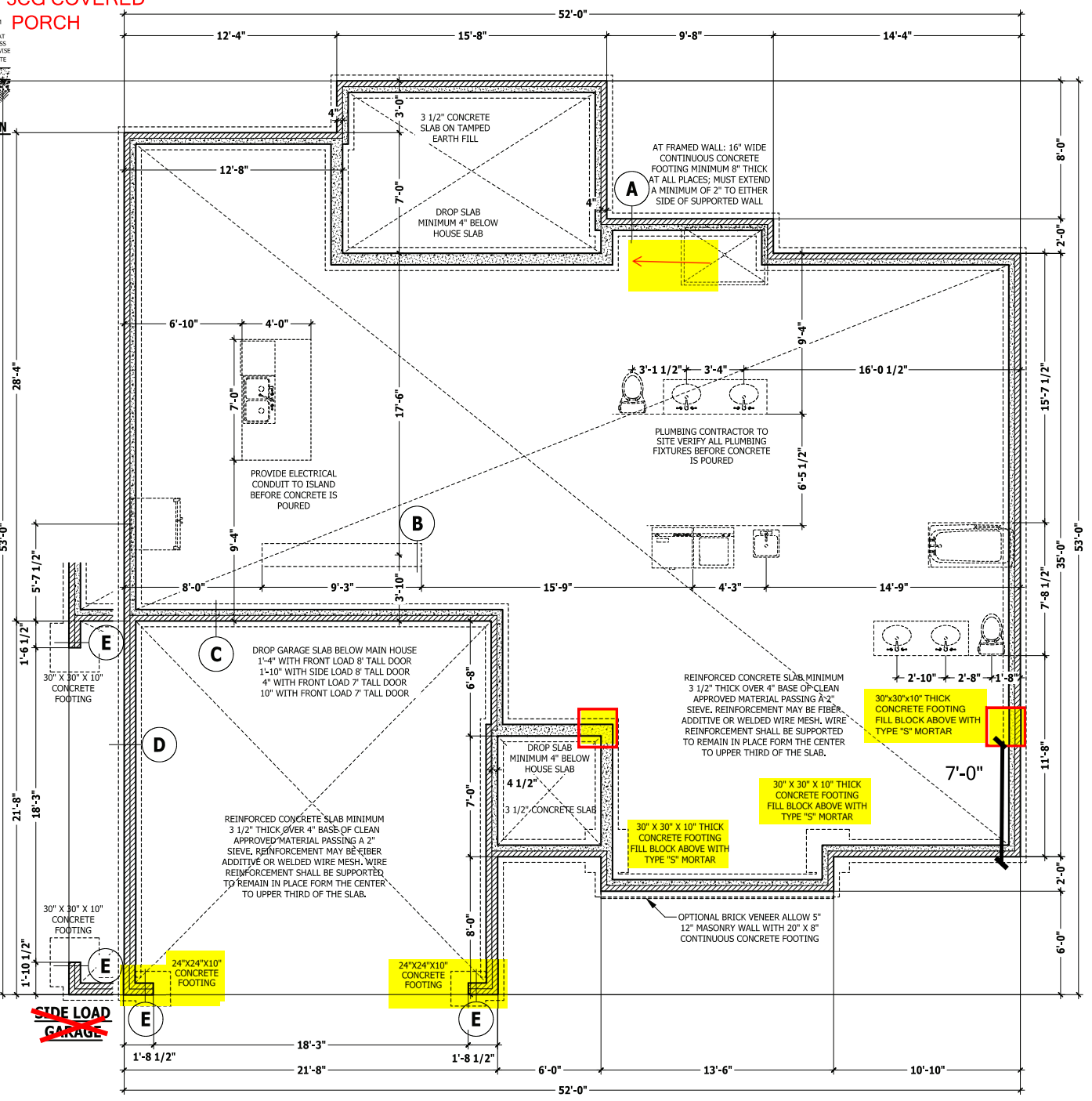
PARGE

**3CG COVERED PORCH**



**FOUNDATION STRUCTURAL**

115 to 130 mph wind zone (1 1/2 to 2 1/2 story)  
**CONTINUOUS FOOTING:** 16" wide and 8" thick minimum, 20" wide minimum at brick veneer. Must extend 2" to either side of supported wall.  
**GIRDERS:** (3) 2 X 10 girder unless noted otherwise.  
**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.



**STEM WALL SLAB PLAN**

SCALE 1/4" = 1'-0"

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**STEM WALL SLAB PLAN**  
**The Halifax II**

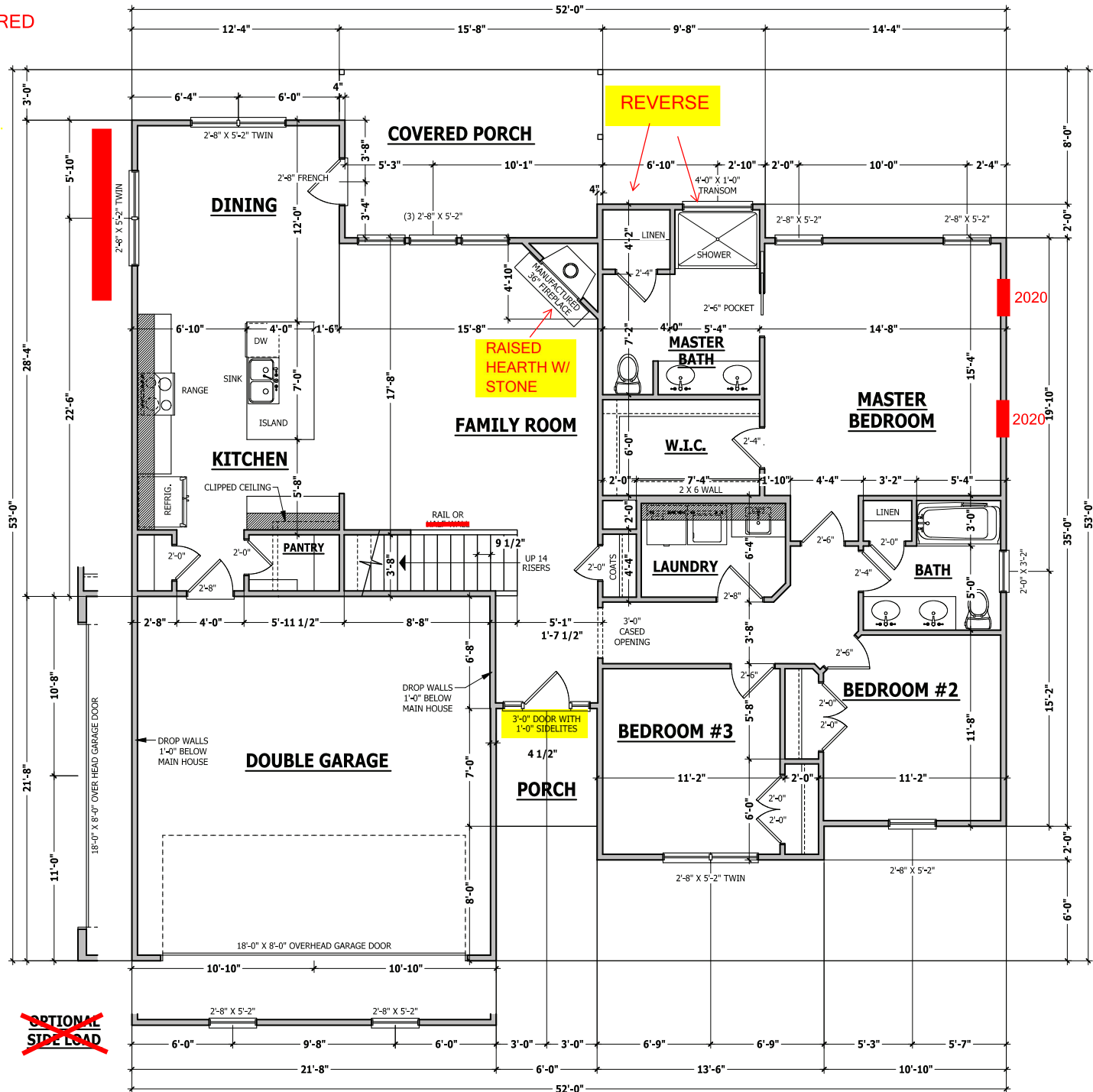
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**HAYNES HOME PLANS, INC.**  
 P.O. Box 702, Wake Forest, NC 27588 919-435-6180 FAX: 919-435-9189

SQUARE FOOTAGE HEATED	
FIRST FLOOR	1555 SQ.FT.
PORCH/PORCH	268 SQ.FT.
HEATED OPTIONAL	819 SQ.FT.
SECOND FLOOR	570 SQ.FT.
TOTAL	2702 SQ.FT.
UNHEATED	
GARAGE	448 SQ.FT.
REAR PORCH	42 SQ.FT.
REAR PORCH	154 SQ.FT.
TOTAL	644 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	298 SQ.FT.
TOTAL	298 SQ.FT.

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3CG COVERED PORCH



**SQUARE FOOTAGE**

<b>HEATED</b>	
FIRST FLOOR	1555 SQ.FT.
PALYROOM	264 SQ.FT.
TOTAL	1819 SQ.FT.
<b>HEATED OPTIONAL</b>	
SECOND FLOOR	570 SQ.FT.
TOTAL	570 SQ.FT.
<b>UNHEATED</b>	
GARAGE	448 SQ.FT.
FRONT PORCH	42 SQ.FT.
REAR PORCH	154 SQ.FT.
TOTAL	644 SQ.FT.
<b>UNHEATED OPTIONAL</b>	
THIRD GARAGE	298 SQ.FT.
TOTAL	298 SQ.FT.

**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.

**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.

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FIRST FLOOR PLAN  
 The Halifax II

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<b>SQUARE FOOTAGE</b>	
<b>HEATED</b>	
FIRST FLOOR	1555 SQ.FT.
PALYROOM	264 SQ.FT.
TOTAL	1819 SQ.FT.
<b>HEATED OPTIONAL</b>	
SECOND FLOOR	570 SQ.FT.
TOTAL	570 SQ.FT.
<b>UNHEATED</b>	
GARAGE	448 SQ.FT.
FRONT PORCH	42 SQ.FT.
REAR PORCH	154 SQ.FT.
TOTAL	644 SQ.FT.
<b>UNHEATED OPTIONAL</b>	
THIRD GARAGE	298 SQ.FT.
TOTAL	298 SQ.FT.

**FIRST FLOOR PLAN**  
 SCALE 1/4" = 1'-0"



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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 contractor 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 (PSF)	DEAD LOAD (PSF)	DEFLECTION (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	10	---
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=2.0x10<sup>6</sup> PSI  
 Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> PSI  
 Install all connections per manufacturer's instructions.

**TRUSS AND I-JOIST MEMBERS:** All roof truss and I-joint layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacturer's specifications. Any change in truss or I-joint layout shall be coordinated with Haynes Homes Plans, Inc.

**LIMITS:** 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.

### 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.

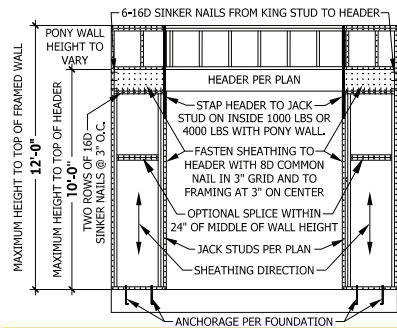
**Methods** Per Table R602.10.1

**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" 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 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 frame per figure R602.10.1

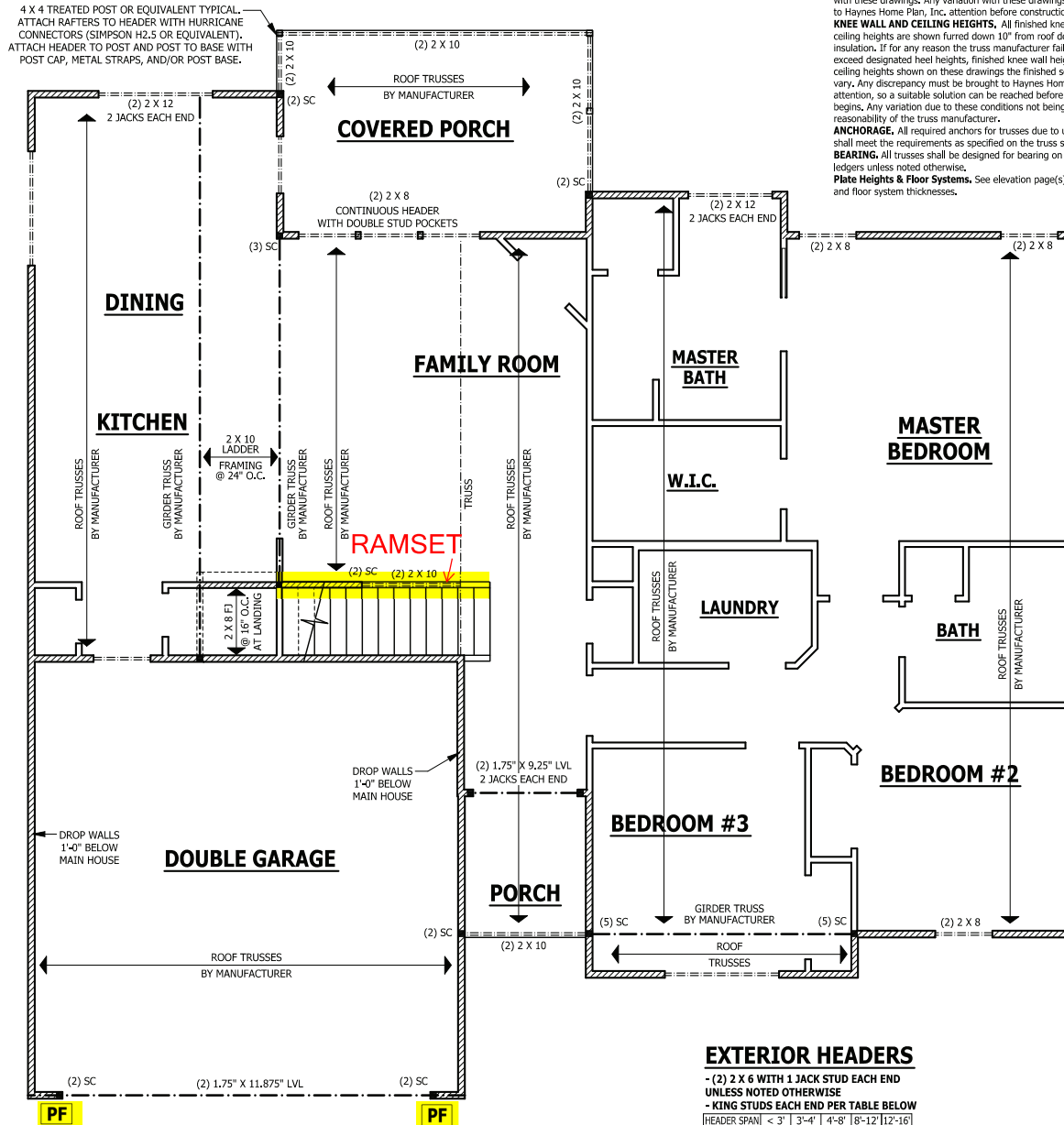


### PF PORTAL FRAME AT OPENING

(METHOD PF PER FIGURE AND SECTION R602.10.1)  
 SCALE 1/4" = 1'-0"

### 3CG COVERED PORCH

4 X 4 TREATED POST OR EQUIVALENT TYPICAL. ATTACH RAFTERS TO HEADER WITH HURRICANE CONNECTORS (SIMPSON H2.5 OR EQUIVALENT). ATTACH HEADER TO POST AND POST TO BASE WITH POST CAP, METAL STRAPS, AND/OR POST BASE.



### FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

### 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 responsibility 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.

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES. CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS AND INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

FIRST FLOOR STRUCTURAL  
 The Halifax II

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 P.O. Box 702, Wake Forest, NC 27588 919-435-1180 1-800-991-0899

### 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

(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

**SQUARE FOOTAGE HEATED**

FIRST FLOOR	1555 SQ.FT.
PORCH/DECK	236 SQ.FT.
TOTAL	1891 SQ.FT.

**HEATED OPTIONAL**

SECOND FLOOR	570 SQ.FT.
TOTAL	2461 SQ.FT.

**UNHEATED**

LAUNDRY	448 SQ.FT.
FRONT PORCH	42 SQ.FT.
REAR PORCH	154 SQ.FT.
TOTAL	644 SQ.FT.

**UNHEATED OPTIONAL**

THIRD GARAGE	298 SQ.FT.
TOTAL	298 SQ.FT.

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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 contractor 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 (PSF)	DEAD LOAD (PSF)	DEFLECTION (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-rail 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 otherwise.

**ENGINEERED WOOD BEAMS:**  
Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.5x10<sup>6</sup> PSI  
Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10<sup>6</sup> PSI  
Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> 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 turned 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 responsibility 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.

## 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 m<sup>2</sup>) 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.

## EXTERIOR HEADERS

(2) 2 X 6 WITH 1 JACK STUD EACH END UNLESS NOTED OTHERWISE

- KING STUDS EACH END PER TABLE BELOW

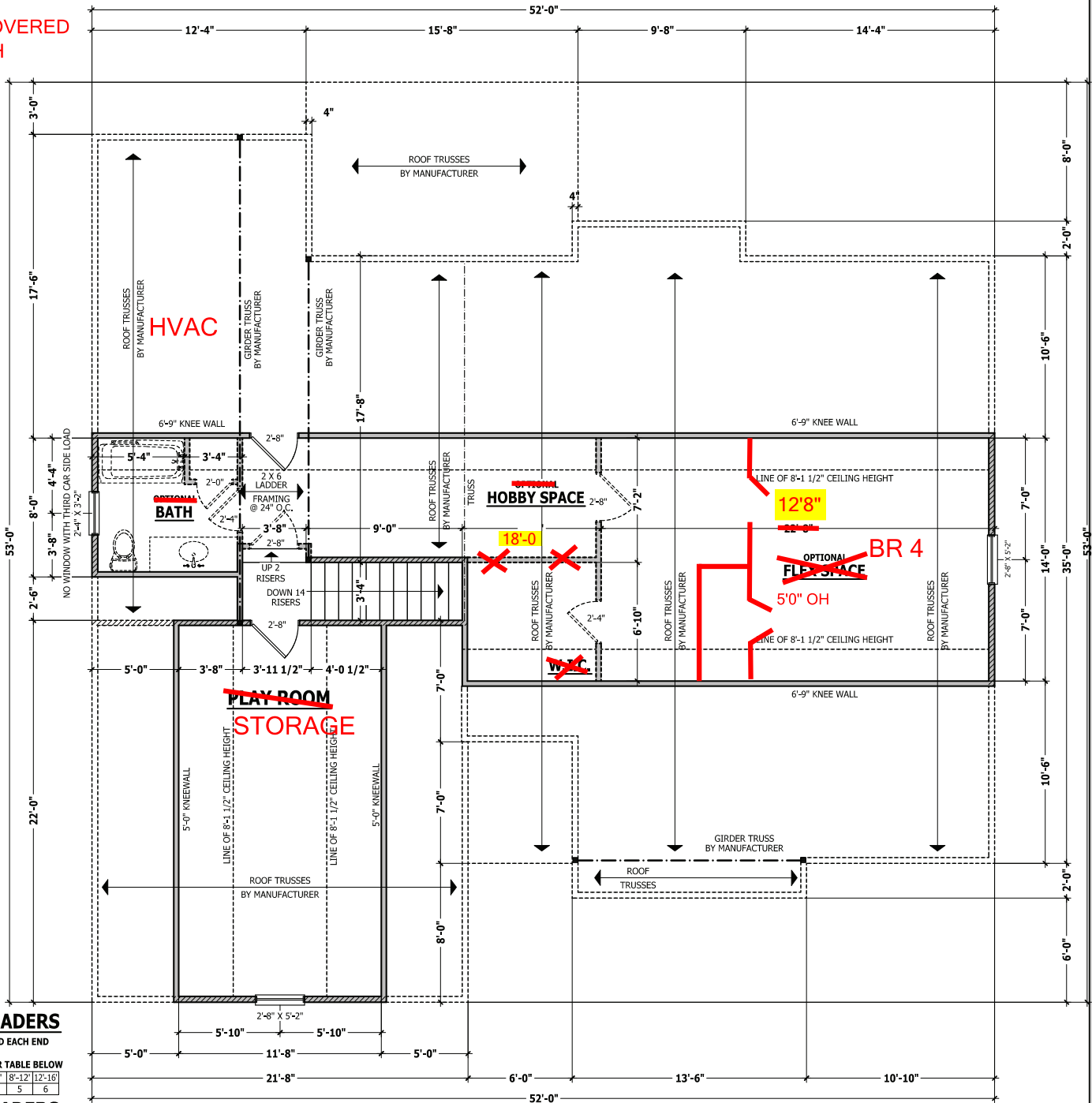
HEADER SPAN	< 3'	3'-4'	4'-8'	8'-12'	12'-16'
KING STUD(S)	1	2	3	5	6

## 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

3CG COVERED PORCH



## SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

Z:\Builder\Weaver Development Company, Inc\200223B Halifax II\200223B Halifax II Left.dwg

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTOR'S PRACTICES AND PROCEDURES. CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT, OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

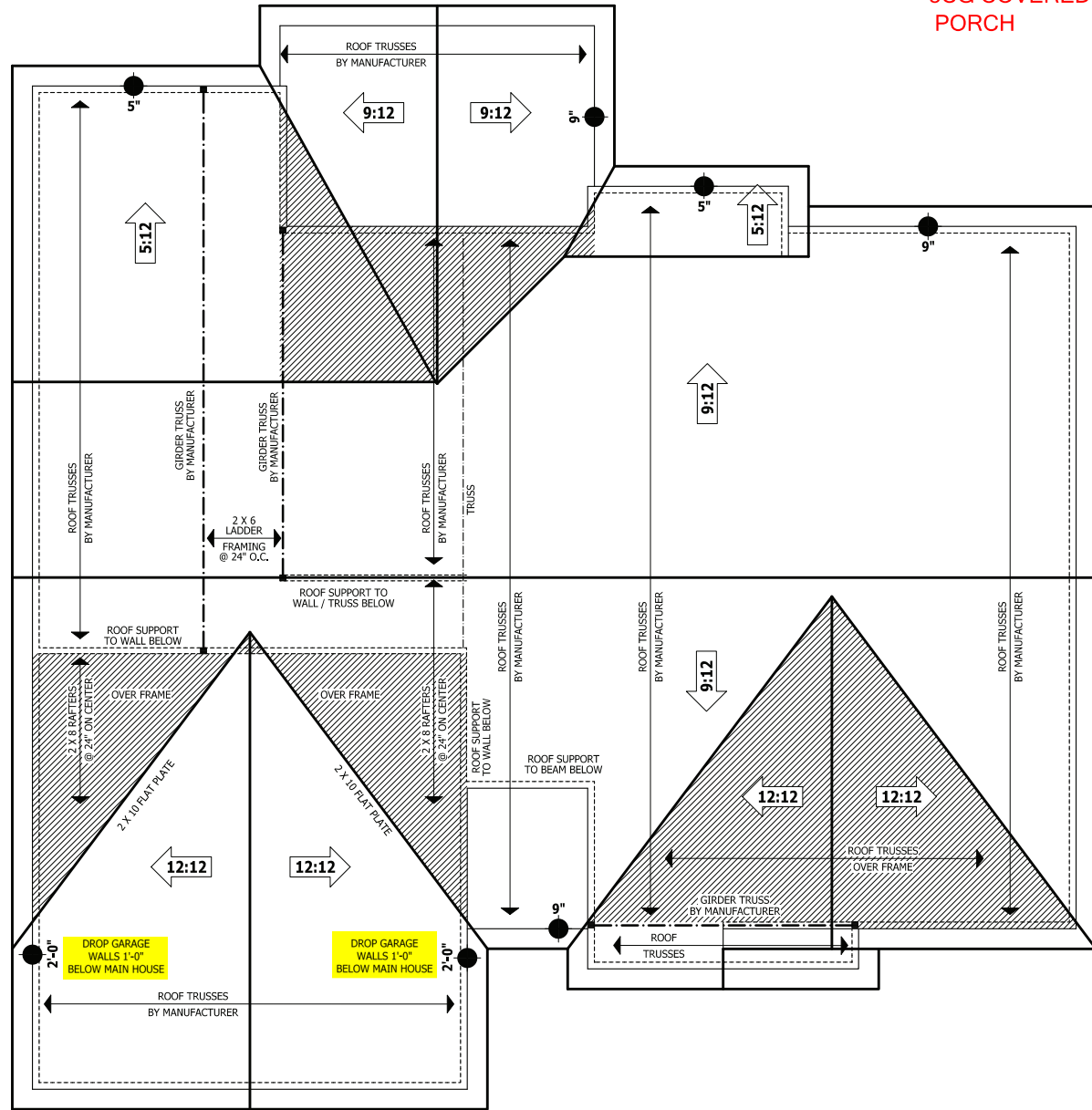
SECOND FLOOR PLAN  
The Halifax II

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HAYNES HOME PLANS, INC.  
P.O. Box 702, Wake Forest, NC 27588 919.435+1800 FAX 919.435-9149

SQUARE FOOTAGE HEATED	
FIRST FLOOR	1555 SQ.FT.
PAVILION	284 SQ.FT.
HEATED OPTIONAL	819 SQ.FT.
SECOND FLOOR	570 SQ.FT.
TOTAL	2728 SQ.FT.
UNHEATED	
GARAGE	448 SQ.FT.
FRONT PORCH	42 SQ.FT.
REAR PORCH	154 SQ.FT.
TOTAL	644 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	298 SQ.FT.
TOTAL	298 SQ.FT.

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3CG COVERED PORCH

### 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 turned 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 responsibility 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
- HEEL HEIGHT ABOVE SECOND FLOOR PLATE

### ROOF PLAN

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES. CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

ROOF PLAN  
The Halifax II

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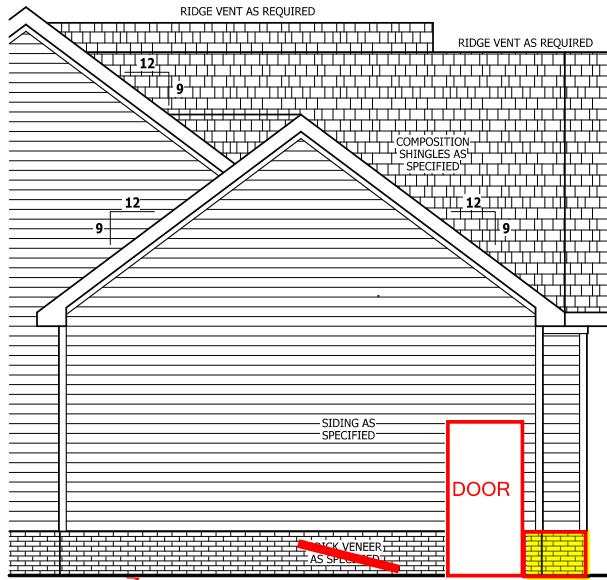
SQUARE FOOTAGE HEATED	
FIRST FLOOR	1555 SQ.FT.
PORCH/DECK	238 SQ.FT.
<b>HEATED OPTIONAL</b>	2819 SQ.FT.
SECOND FLOOR	570 SQ.FT.
<b>TOTAL</b>	570 SQ.FT.
UNHEATED	
GARAGE	448 SQ.FT.
FRONT PORCH	42 SQ.FT.
REAR PORCH	154 SQ.FT.
<b>TOTAL</b>	644 SQ.FT.
UNHEATED OPTIONAL	
1ST FLOOR GARAGE	298 SQ.FT.
<b>TOTAL</b>	298 SQ.FT.

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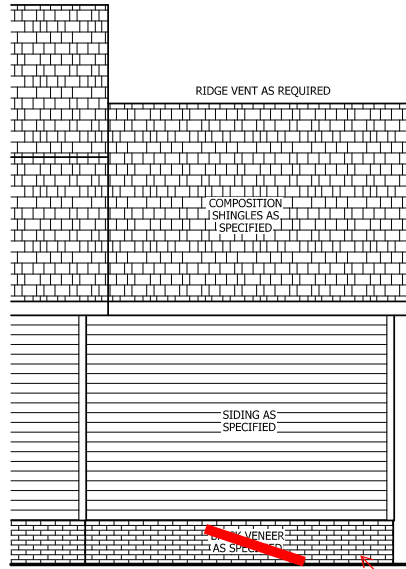




**SIDE ELEVATION**

SCALE 1/4" = 1'-0"

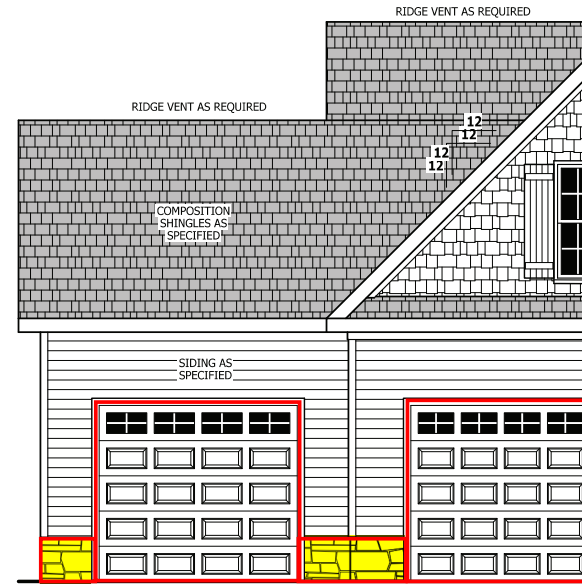
**PARGE**



**REAR ELEVATION**

SCALE 1/4" = 1'-0"

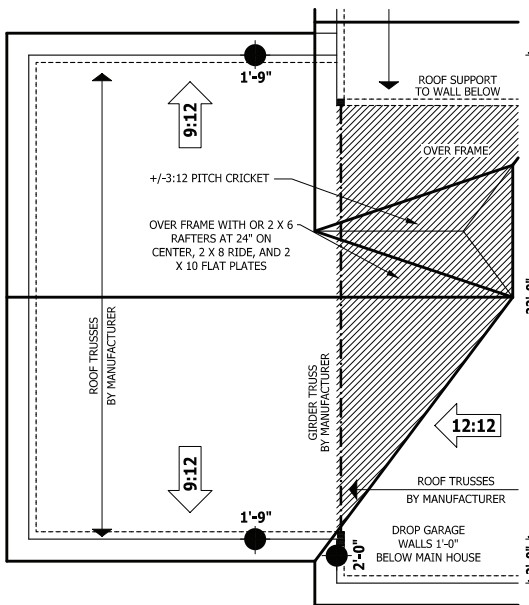
**PARGE**



**FRONT ELEVATION**

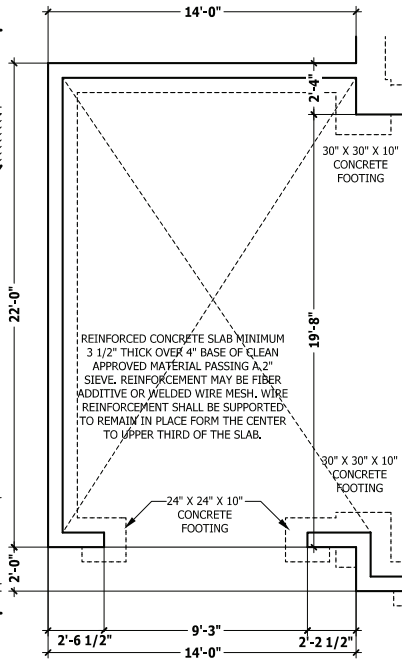
SCALE 1/4" = 1'-0"

SEE BASE PLAN  
FOR STRUCTURAL NOTES  
AND DETAILS



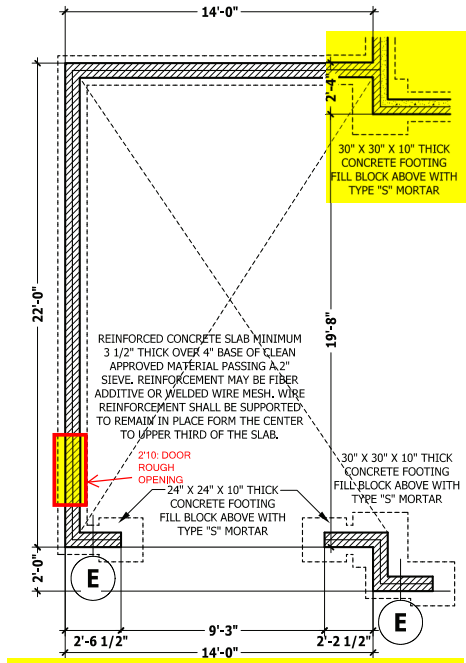
**ROOF PLAN**

SCALE 1/4" = 1'-0"



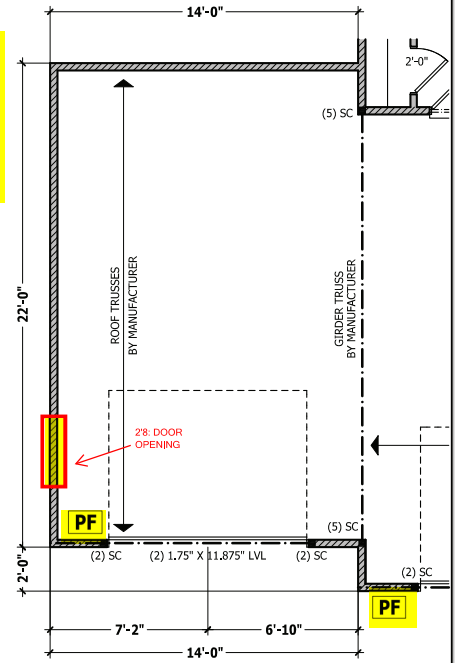
**MONOLITHIC SLAB PLAN**

SCALE 1/4" = 1'-0"



**CRAWL SPACE / STEM WALL**

SCALE 1/4" = 1'-0"



**FIRST FLOOR PLAN**

SCALE 1/4" = 1'-0"

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**THIRD GARAGE**

**The Halifax II**

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SQUARE FOOTAGE HEATED	
FIRST FLOOR	1555 SQ.FT.
PORCH/PORCH	288 SQ.FT.
<b>HEATED OPTIONAL</b>	<b>889 SQ.FT.</b>
SECOND FLOOR	570 SQ.FT.
TOTAL	2723 SQ.FT.
UNHEATED	
GARAGE	448 SQ.FT.
REAR PORCH	42 SQ.FT.
REAR PORCH	154 SQ.FT.
TOTAL	644 SQ.FT.
<b>UNHEATED OPTIONAL</b>	<b>288 SQ.FT.</b>
THIRD GARAGE	288 SQ.FT.
TOTAL	288 SQ.FT.

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**ADDENDUM**