

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

MEAN ROOF HEIGHT: 17'-2" HEIGHT TO RIDGE: 25'-6"

CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
FENESTRATION U-FACTOR	0.35	0.35	0.35
SKYLIGHT U-FACTOR	0.65	0.65	0.65
GLAZED FENESTRATION SHGC	0.30	0.30	0.30
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci
FLOOR R-VALUE	15	15	19
BASEMENT WALL R-VALUE	5/3	10/15	10/15
** SLAB R-VALUE	0	10	10
** CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19

\* 10/15 MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION  
\*\* INSULATION DEPTH WITH MONOLITHIC SLAB 2" OR FROM INSULATION GAP TO BOTTOM OF FOOTING. INSULATION DEPTH WITH STEEL WALLS 2" OR TO BOTTOM OF FOUNDATION WALL  
DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (93 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	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

**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	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 -25.2	20.4 -25.9

**ROOF VENTILATION**

**SECTION R806**

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,111 SQ.FT.  
NET FREE CROSS VENTILATION NEEDED:  
WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 14.07 SQ.FT.  
WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS 1 OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 7.04 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 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:**

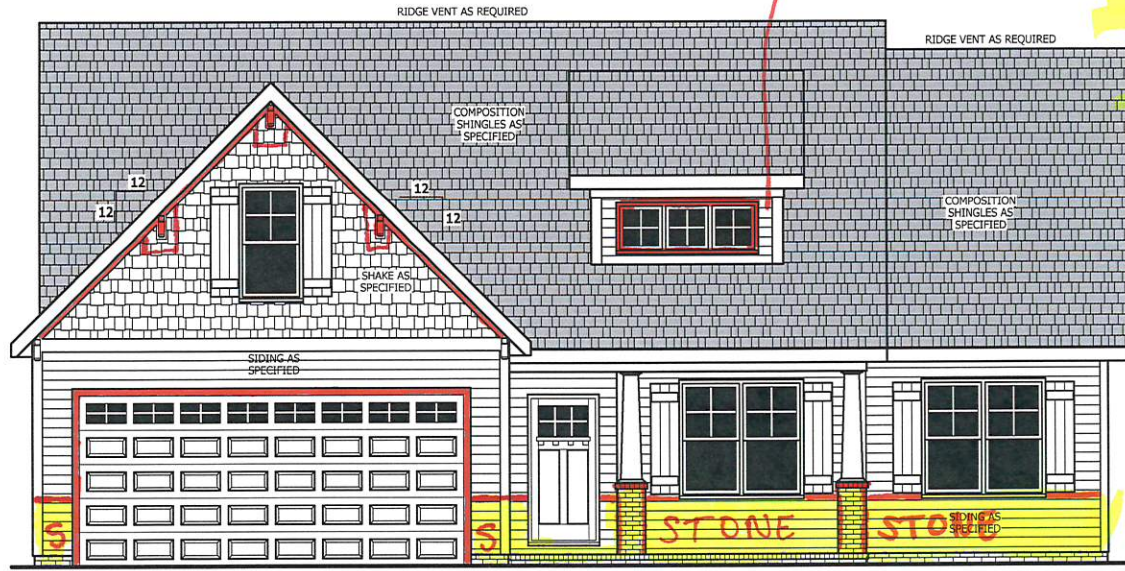
1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.
2. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 43/8 inches (111 mm) in diameter.

**AIR LEAKAGE**

**Section N1102.4**

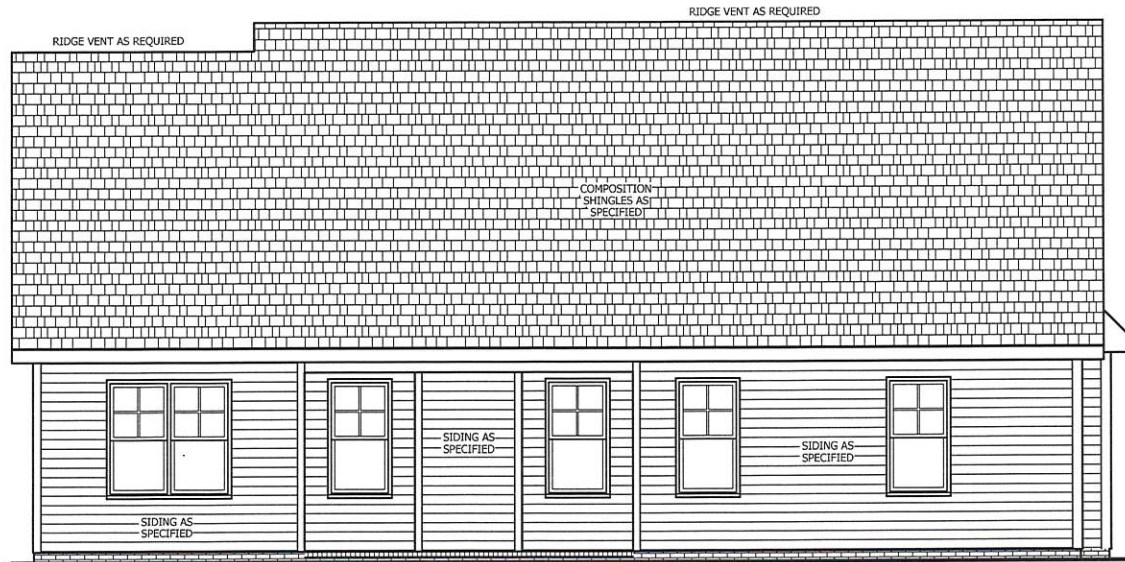
**N1102.4.1 Building thermal envelope.** The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be 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 spaces.
2. Capping and sealing shafts or chases, including flue shafts.
3. Capping and sealing soffit or dropped ceiling areas.



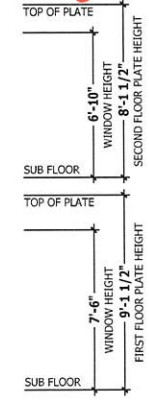
**FRONT ELEVATION**

SCALE 1/4" = 1'-0"



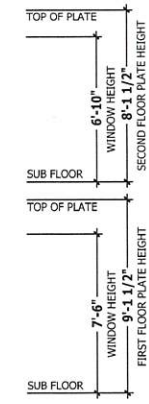
**REAR ELEVATION**

SCALE 1/4" = 1'-0"



**SQUARE FOOTAGE**

HEATED	
FIRST FLOOR	1351 SQ.FT.
PLAYROOM	221 SQ.FT.
TOTAL	1572 SQ.FT.
HEATED OPTIONAL	
HALF BATH	28 SQ.FT.
TOTAL	28 SQ.FT.
UNHEATED	
FRONT PORCH	134 SQ.FT.
GARAGE	447 SQ.FT.
REAR PORCH	113 SQ.FT.
TOTAL	694 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.FT.
TOTAL	307 SQ.FT.



PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS.  
HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES.  
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**FRONT & REAR ELEVATIONS**  
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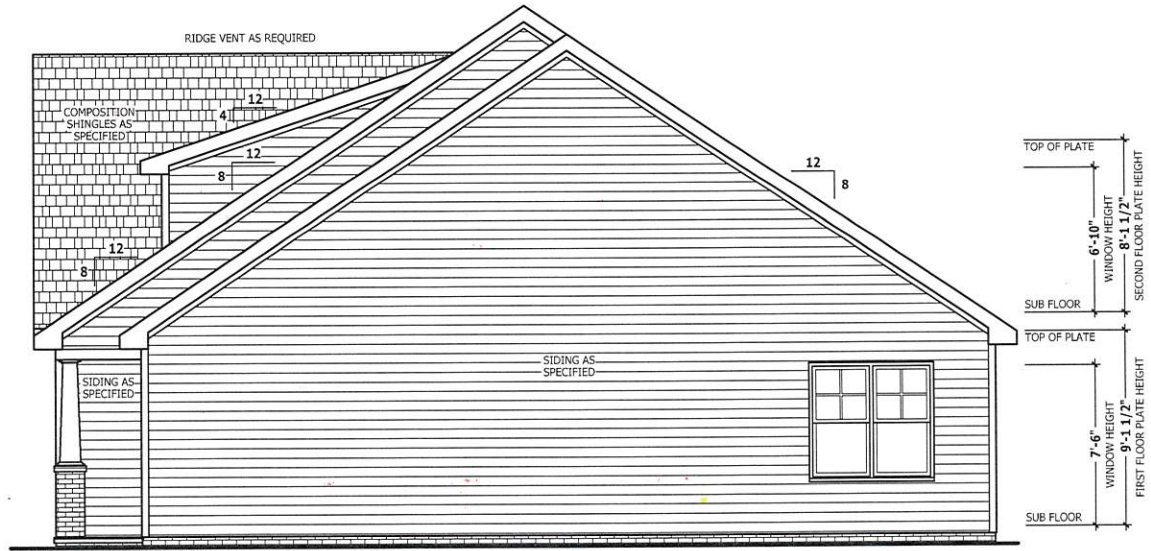
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P.O. BOX 702, WAKE FOREST, NC 27888 919-454-6180 FAX 919-454-6183

**SQUARE FOOTAGE**

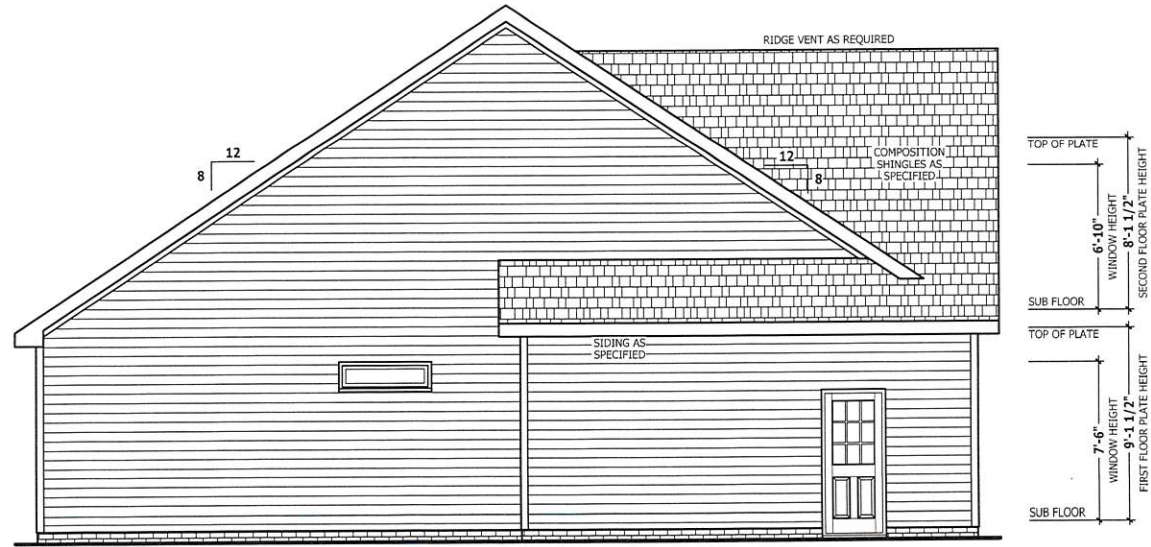
HEATED	
FIRST FLOOR	1351 SQ.FT.
PLAYROOM	221 SQ.FT.
TOTAL	1572 SQ.FT.
HEATED OPTIONAL	
HALF BATH	28 SQ.FT.
TOTAL	28 SQ.FT.
UNHEATED	
FRONT PORCH	134 SQ.FT.
GARAGE	447 SQ.FT.
REAR PORCH	113 SQ.FT.
TOTAL	694 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.FT.
TOTAL	307 SQ.FT.



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**RIGHT SIDE ELEVATION**  
 SCALE 1/4" = 1'-0"



**LEFT SIDE ELEVATION**  
 SCALE 1/4" = 1'-0"

**LEFT & RIGHT ELEVATIONS**  
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 20 BOX 702, WIDE FOREST, NC 27588 919-354-6180 FAX 919-354-6183

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1351 SQ. FT.
PLAYROOM	222 SQ. FT.
TOTAL	1573 SQ. FT.
UNHEATED	
REAR PORCH	28 SQ. FT.
TOTAL	1601 SQ. FT.
UNHEATED	
FRONT PORCH	124 SQ. FT.
GARAGE	89 SQ. FT.
REAR PORCH	22 SQ. FT.
TOTAL	214 SQ. FT.
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ. FT.
TOTAL	307 SQ. FT.

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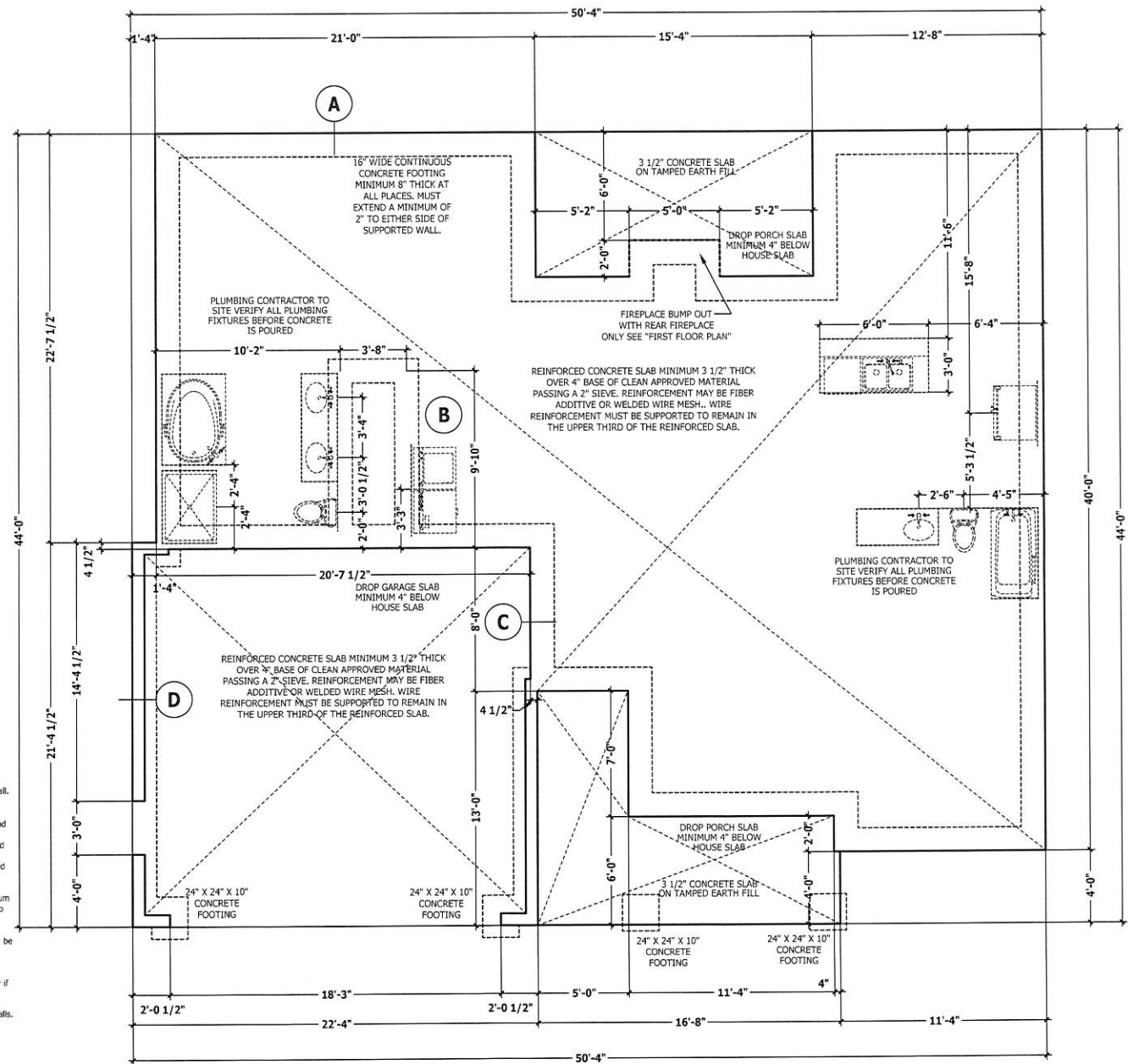
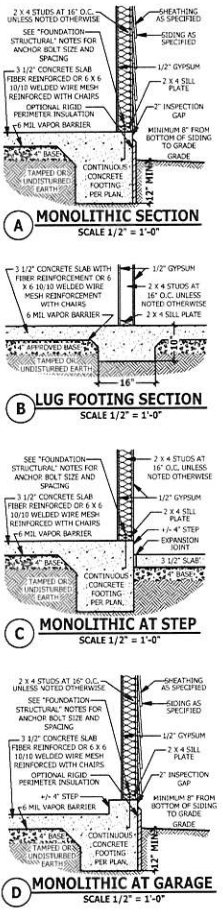
**MONOLITHIC SLAB PLAN**  
**SINCLAIR**

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**HOME PLANS, INC.**  
 P.O. Box 702, WARE FOREST, NC 27588 919-456-6180 FAX 919-456-8109

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1861.50 SF
PLAYROOM	221.50 SF
TOTAL	2083.00 SF
HEATED OPTIONAL	
HAIR BATH	28.50 SF
TOTAL	28.50 SF
UNHEATED	
FRONT PORCH	134.50 SF
GARAGE	447.50 SF
REAR PORCH	113.50 SF
TOTAL	695.50 SF
UNHEATED OPTIONAL	
THIRD GARAGE	387.50 SF
TOTAL	387.50 SF

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**3/6/2020**  
**190320B**  
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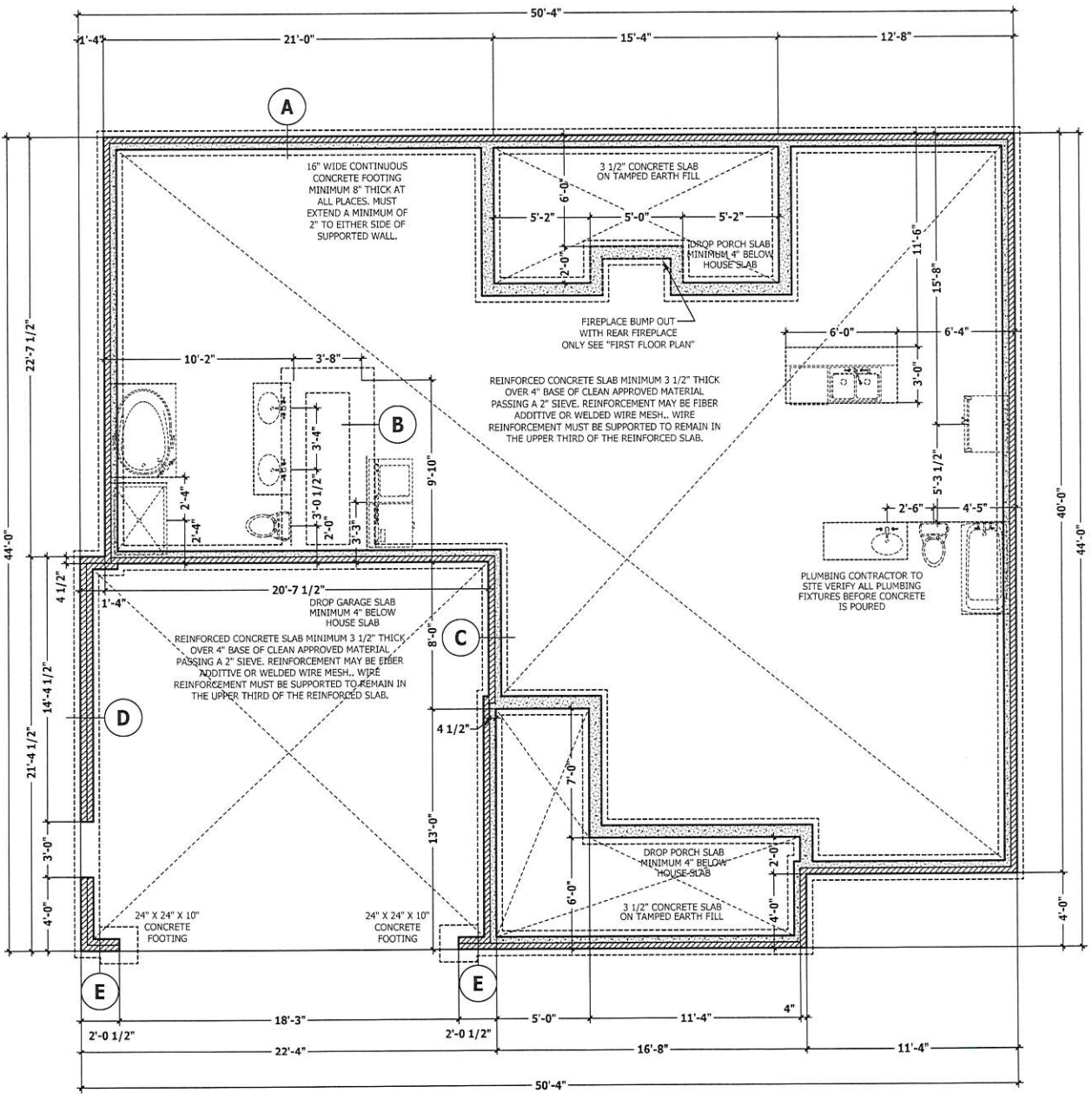
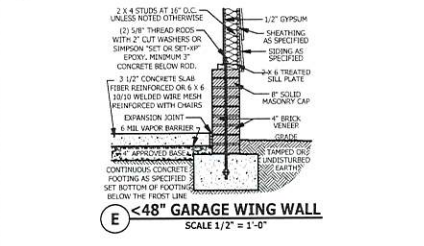
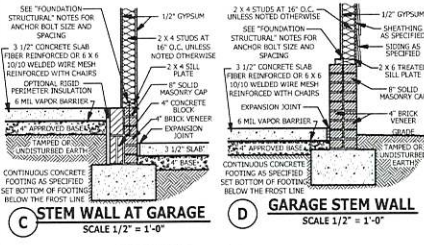
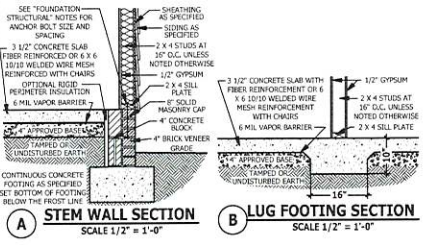


**FOUNDATION STRUCTURAL**

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 consult 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.

**MONOLITHIC SLAB PLAN**  
 SCALE 1/4" = 1'-0"





**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.  
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**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.  
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FOUNDATION PLAN  
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SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1261 SQ. FT.
PLAYROOM	221 SQ. FT.
TOTAL	1482 SQ. FT.
HEATED OPTIONAL	
HAIR BATH	28 SQ. FT.
TOTAL	1510 SQ. FT.
UNHEATED	
FRONT PORCH	134 SQ. FT.
GARAGE	447 SQ. FT.
REAR PORCH	113 SQ. FT.
TOTAL	694 SQ. FT.
UNHEATED OPTIONAL	
THIRD GARAGE	387 SQ. FT.
TOTAL	1081 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.

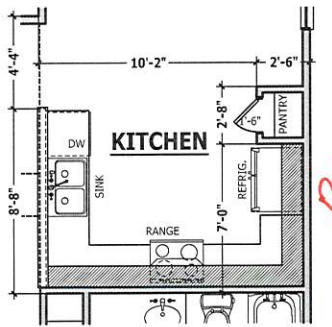
**STAIRS.** A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

**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.



**OPTIONAL KITCHEN LAYOUT**

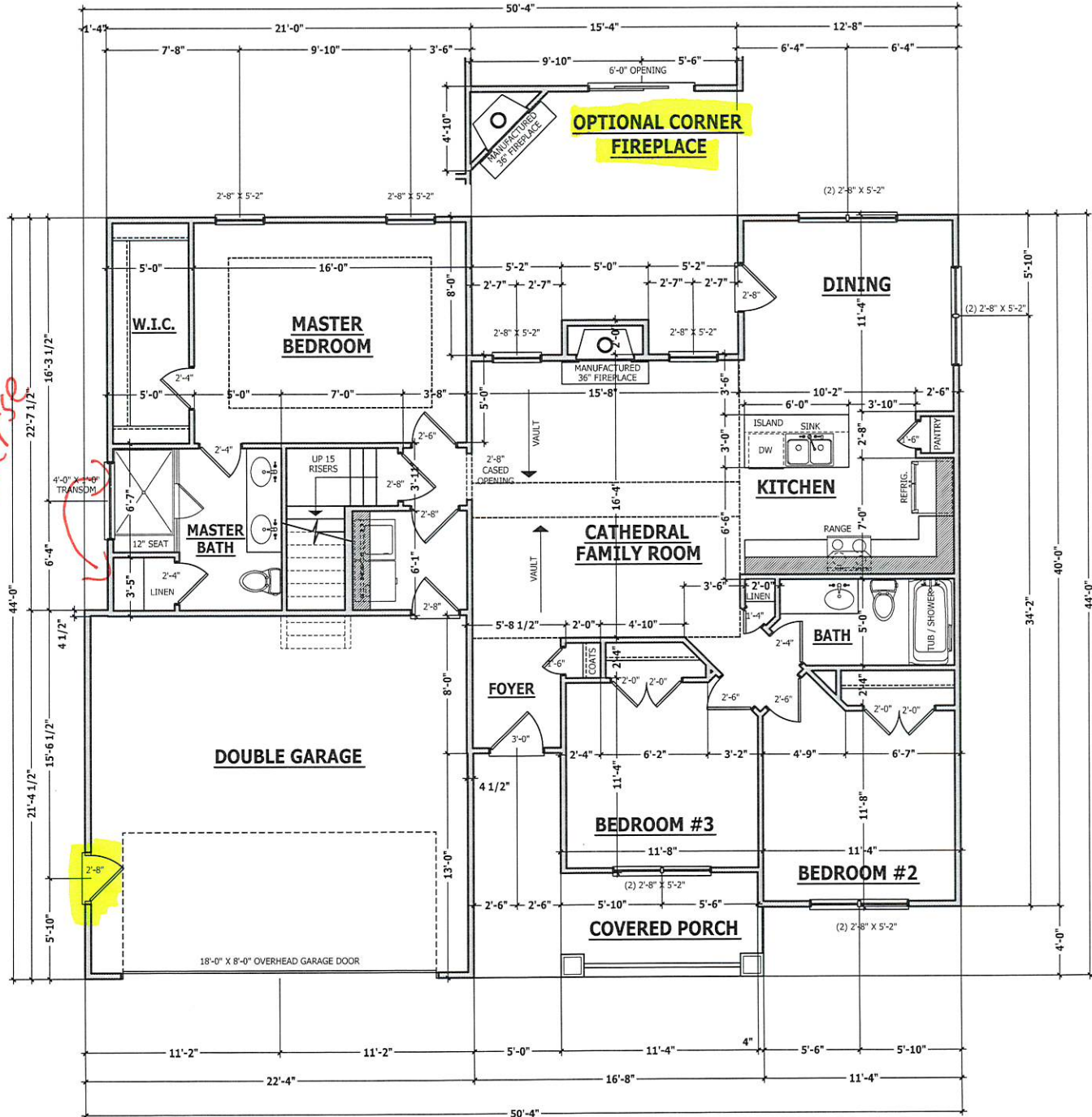
## WALL THICKNESSES

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.

## SQUARE FOOTAGE

HEATED	
FIRST FLOOR	1351 SQ.FT.
PLAYROOM	221 SQ.FT.
TOTAL	1572 SQ.FT.
HEATED OPTIONAL	
HALF BATH	28 SQ.FT.
TOTAL	28 SQ.FT.
UNHEATED	
FRONT PORCH	134 SQ.FT.
GARAGE	447 SQ.FT.
REAR PORCH	113 SQ.FT.
TOTAL	694 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.FT.
TOTAL	307 SQ.FT.



## FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

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FIRST FLOOR PLAN  
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SQUARE FOOTAGE	
<b>HEATED</b>	
FIRST FLOOR	1351 SQ.FT.
PLAYROOM	221 SQ.FT.
TOTAL	1572 SQ.FT.
<b>HEATED OPTIONAL</b>	
HALF BATH	28 SQ.FT.
TOTAL	28 SQ.FT.
<b>UNHEATED</b>	
FRONT PORCH	134 SQ.FT.
GARAGE	447 SQ.FT.
REAR PORCH	113 SQ.FT.
TOTAL	694 SQ.FT.
<b>UNHEATED OPTIONAL</b>	
THIRD GARAGE	307 SQ.FT.
TOTAL	307 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-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 otherwise.

**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-joist 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-joist layout shall be coordinated with Haynes Home Plans, Inc.

**RAFTERS:** Rafter layouts 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 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 its 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.

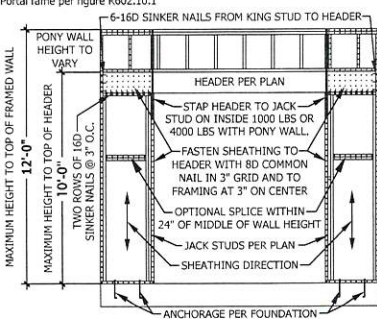
**Methods** Per Table R602.10.1.

**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"

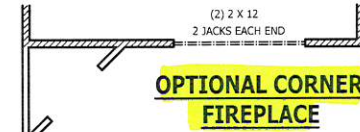
### EXTERIOR HEADERS

(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

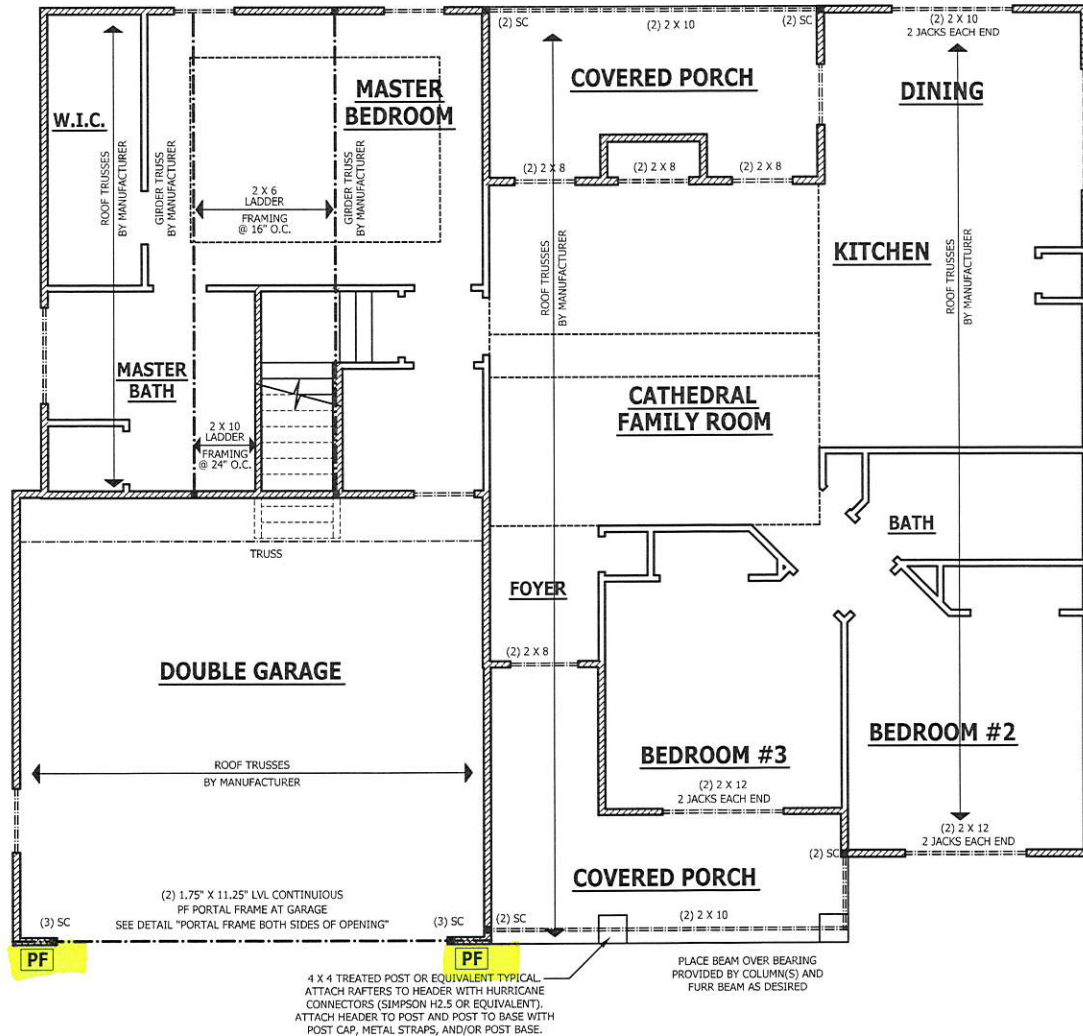
- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END UNLESS NOTED OTHERWISE  
 - NON LOAD BEARING HEADERS TO BE LADDER FRAMED



### 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 Plans, 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.



## FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS.  
 HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTOR 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.

**FIRST FLOOR STRUCTURAL**  
**SINCLAIR**

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**HAYNES WEAVER**  
 HOME PLANS, INC.  
 P.O. BOX 102, TIME FOSTER, NC 27588 • 919-636-6180 • FAX 919-636-4935

SQUARE FOOTAGE	
HEATED FIRST FLOOR	1351 SQ.FT.
PLAYROOM	221 SQ.FT.
TOTAL	1572 SQ.FT.
HEATED OPTIONAL	
WALL BATH	38 SQ.FT.
TOTAL	1610 SQ.FT.
UNHEATED	
FRONT PORCH	134 SQ.FT.
REAR PORCH	46 SQ.FT.
SEMI PORCH	113 SQ.FT.
TOTAL	273 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.FT.
TOTAL	307 SQ.FT.



## 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	--	--
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 otherwise.

### 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 connectors per manufacturer instructions.

**TRUSS AND 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 Home Plans, Inc.

**LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 9'-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 for 16" on center rafters and 7/16" for 24" on center rafters.

**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 Plans, 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.

## 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

## 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.

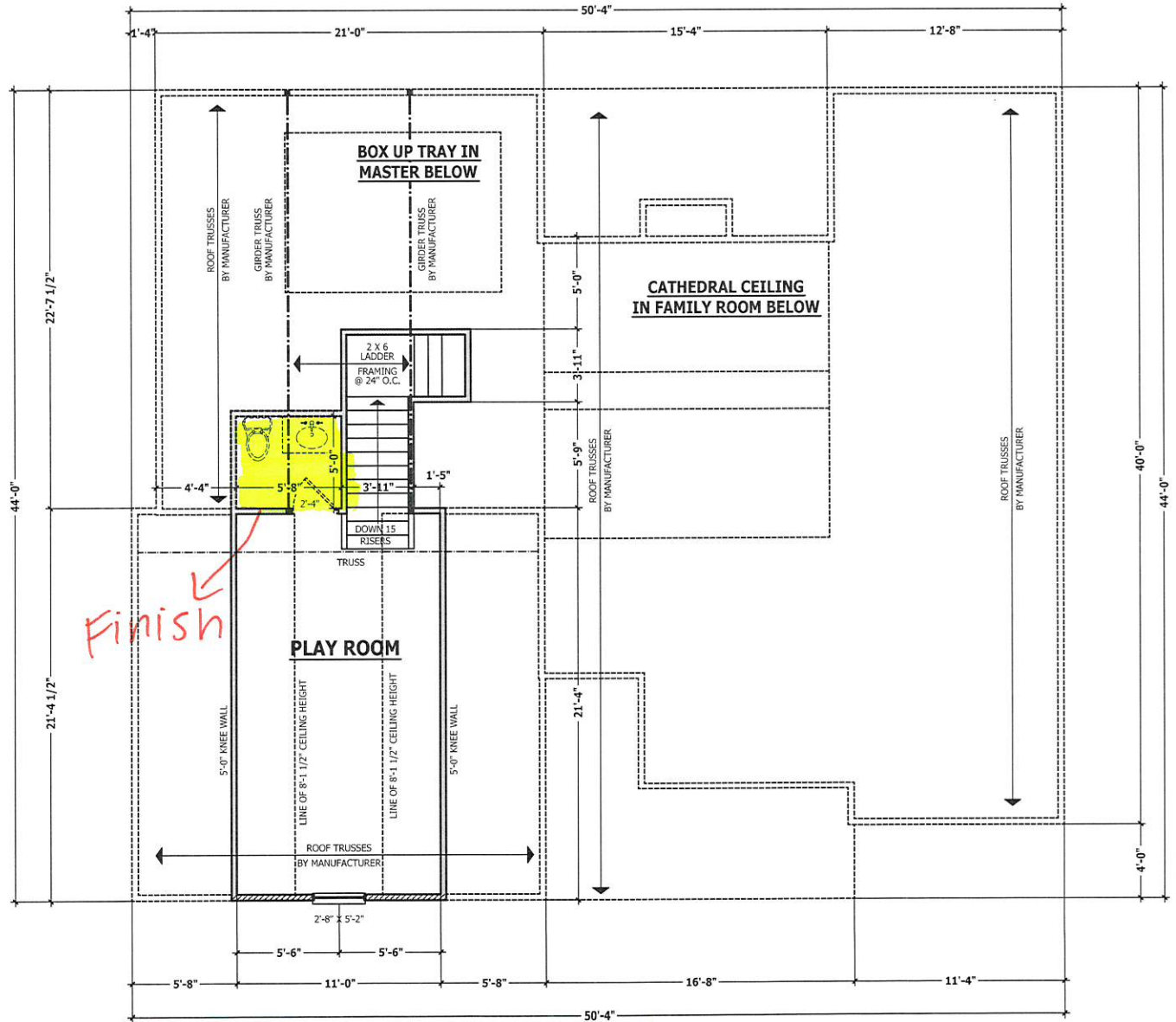
### Exceptions:

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.



## SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

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SECOND FLOOR PLAN  
**SINCLAIR**

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SQUARE FOOTAGE	
HEATED	
1ST FLOOR	1351 SQ.FT.
2ND FLOOR	221 SQ.FT.
PLAYROOM	672 SQ.FT.
TOTAL	2244 SQ.FT.
HEATED OPTIONAL	
1ST BATH	38 SQ.FT.
TOTAL	28 SQ.FT.
UNHEATED	
FRONT PORCH	134 SQ.FT.
GARAGE	113 SQ.FT.
REAR PORCH	113 SQ.FT.
TOTAL	360 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.FT.
TOTAL	307 SQ.FT.

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 3/6/2020  
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 PAGE 6 OF 8

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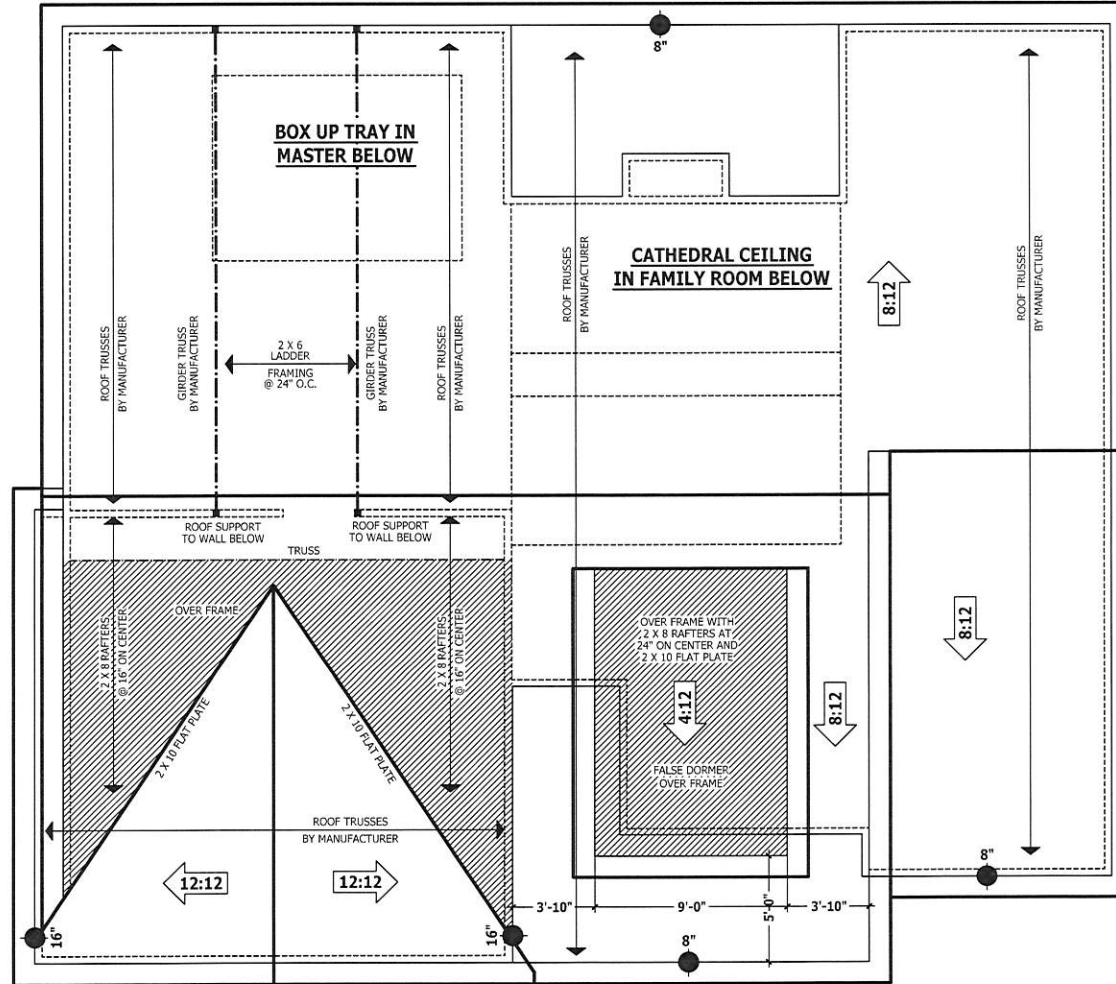
### ROOF TRUSS REQUIREMENTS

**TRUSS DESIGN.** Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plans, 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.

-  HEEL HEIGHT ABOVE FIRST FLOOR PLATE
-  HEEL HEIGHT ABOVE SECOND FLOOR PLATE



### ROOF PLAN

SCALE 1/4" = 1'-0"

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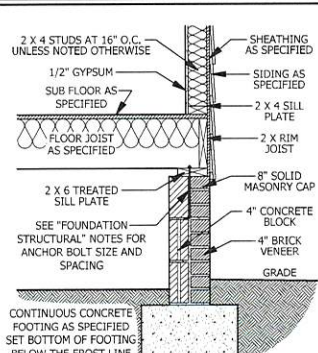
**ROOF PLAN**  
**SINCLAIR**

**HAYNES WEAVER**  
**HOME PLANS, INC.**  
 HOMES  
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 P.O. BOX 702, HIDE FOREST, NC 27538 919-856-6180 FAX 919-856-9103

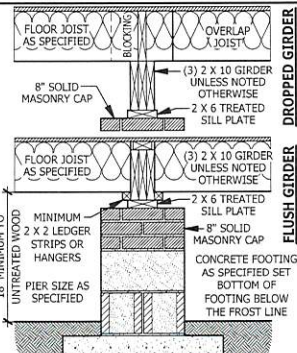
SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1331 SQ. FT.
PLAYROOM	211 SQ. FT.
TOTAL	1542 SQ. FT.
HEATED OPTIONAL	
HALL BATH	38 SQ. FT.
TOTAL	1580 SQ. FT.
UNHEATED	
FRONT PORCH	134 SQ. FT.
GARAGE	443 SQ. FT.
REAR PORCH	111 SQ. FT.
TOTAL	732 SQ. FT.
UNHEATED OPTIONAL	
THIRD GARAGE	387 SQ. FT.
TOTAL	1119 SQ. FT.

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**3/6/2020**  
**190320B**  
**PAGE 7 OF 8**

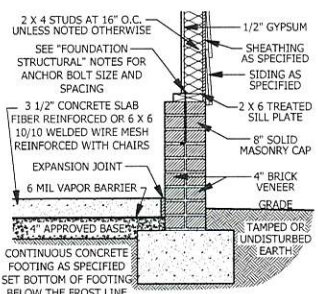




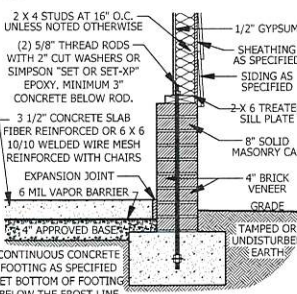
**A CRAWL SPACE WALL**  
SCALE 3/4" = 1'-0"



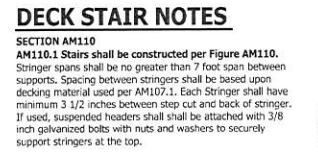
**B DROPPED/ FLUSH PIER**  
SCALE 3/4" = 1'-0"



**C GARAGE STEM WALL**  
SCALE 3/4" = 1'-0"



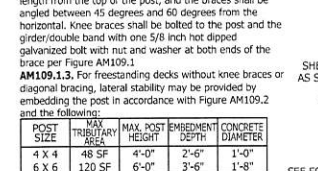
**D <48" GARAGE WING WALL**  
SCALE 3/4" = 1'-0"



**E TYPICAL DECK STAIR DETAIL**  
SCALE 3/4" = 1'-0"



**F DECK ATTACHMENT**  
SCALE 1/2" = 1'-0"



**G WEEP SCREED**  
SCALE 3/4" = 1'-0"

**SECTION AM109**  
AM109.1 Deck bracing. Decks shall be braced to provide lateral stability. The following are acceptable means to provide lateral stability.

AM109.1.1. When the deck floor height is less than 4'-0" above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section AM104, lateral bracing is not required.

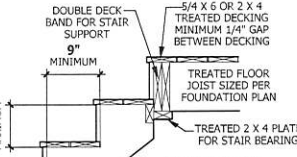
AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall be bolted to the post and the girtler/double band with nut and washer at each end of each brace per Figure AM109.1

AM109.1.3. For freestanding decks without knee braces or diagonal bracing, lateral stability may be provided by embedding the post in foundation with Figure AM109.2 and the following:

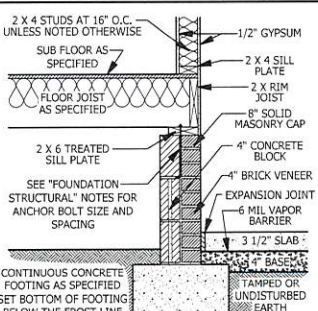
POST SIZE	MINIMUM EMBEDMENT AREA	MAX. POST EMBEDMENT HEIGHT	MIN. CONCRETE DEPTH	CONCRETE DIAMETER
4 X 4	48 SF	4'-0"	2'-4"	1'-0"
6 X 6	120 SF	4'-0"	3'-6"	1'-0"

AM109.1.4. 2 x 6 diagonal vertical cross bracing may be provided in two perpendicular directions for freestanding decks or parallel to the structure at the exterior column line for attached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot dipped galvanized bolt with nut and washer at each end of each brace member per Figure AM109.3.

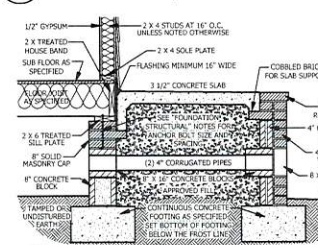
AM109.1.5. For embedment of piles in Coastal Regions, see Chapter 45.



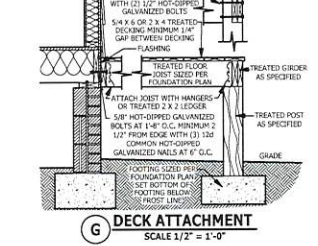
**H CRAWL SPACE AT GARAGE**  
SCALE 3/4" = 1'-0"



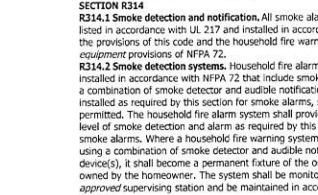
**I PORCH HEADER WITH TAPERED COLUMN**  
SCALE 3/4" = 1'-0"



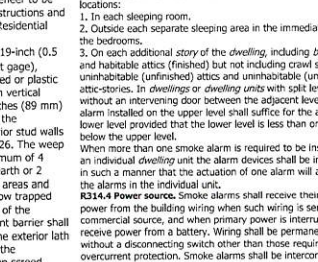
**J FILLED PORCH SECTION WITH VENT**  
SCALE 1/2" = 1'-0"



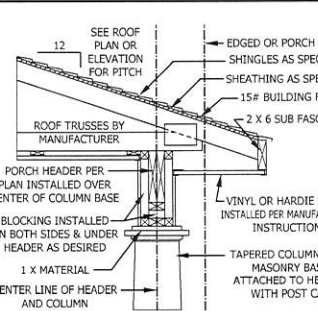
**K CARBON MONOXIDE ALARMS**  
SCALE 1/2" = 1'-0"



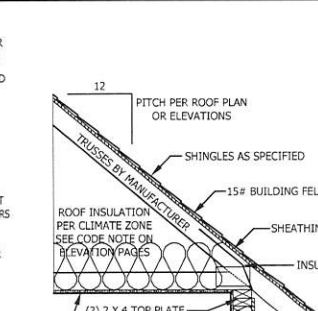
**L STAIRWAY NOTES**  
SCALE 1/2" = 1'-0"



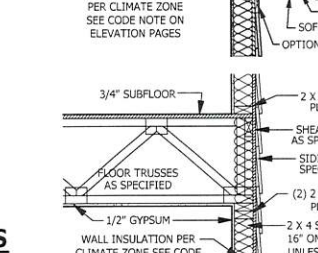
**M TYPICAL WALL DETAIL**  
SCALE 3/4" = 1'-0"



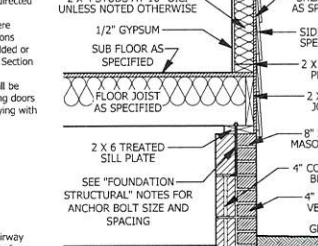
**N TYPICAL STAIR DETAIL**  
SCALE 1/4" = 1'-0"



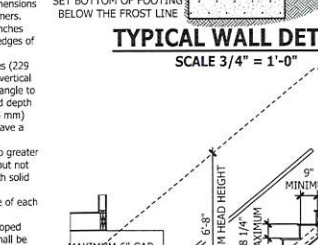
**O TYPICAL WALL DETAIL**  
SCALE 3/4" = 1'-0"



**P TYPICAL STAIR DETAIL**  
SCALE 1/4" = 1'-0"



**Q TYPICAL WALL DETAIL**  
SCALE 3/4" = 1'-0"



**R TYPICAL STAIR DETAIL**  
SCALE 1/4" = 1'-0"



**S TYPICAL WALL DETAIL**  
SCALE 3/4" = 1'-0"

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**TYPICAL DETAILS**

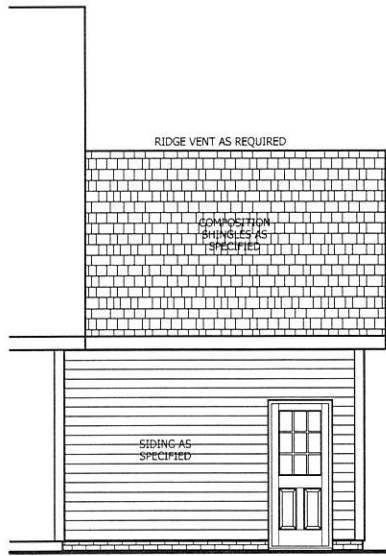
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**HAYNES HOME PLANS, INC.**  
910.430.2100 • 919.606.4996  
P.O. BOX 702, LIVE OAK, NC 27858 • 919.436.6180 • 919.436.9133

**SQUARE FOOTAGE**

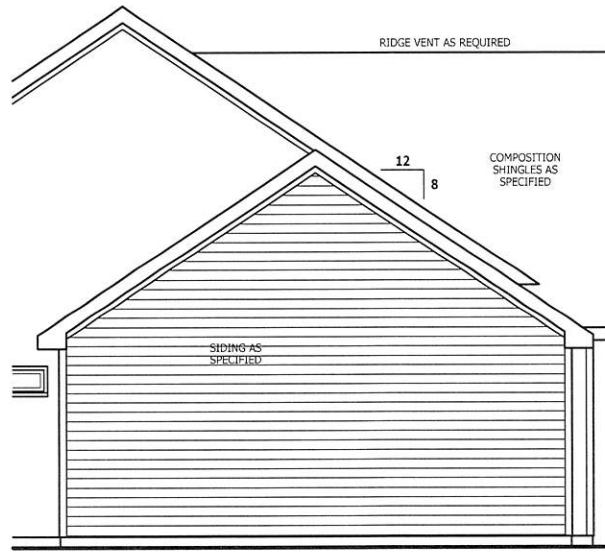
HEATED	UNHEATED	TOTAL
FIRST FLOOR	1351 SQ.FT.	
SECOND FLOOR	221 SQ.FT.	
REAR PORCH	447 SQ.FT.	
TOTAL	2019 SQ.FT.	
HEATED OPTIONAL	2850 SQ.FT.	
UNHEATED OPTIONAL	134 SQ.FT.	
REAR PORCH	447 SQ.FT.	
THIRD GARAGE	307 SQ.FT.	
TOTAL	3073 SQ.FT.	





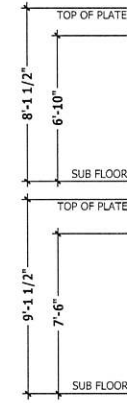
**REAR ELEVATION**

SCALE 1/4" = 1'-0"



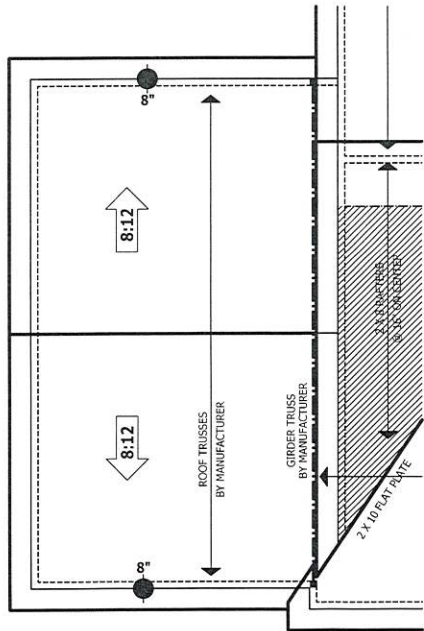
**LEFT SIDE ELEVATION**

SCALE 1/4" = 1'-0"



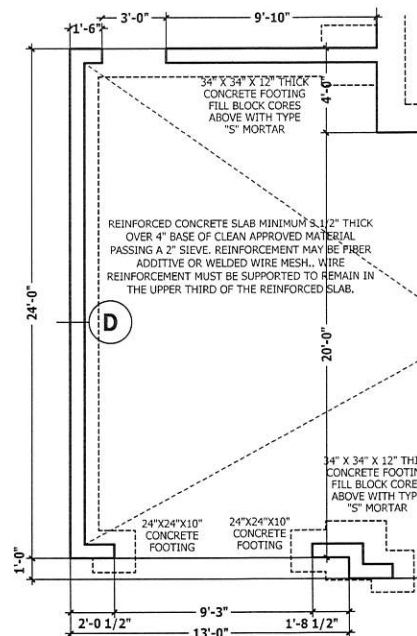
**FRONT ELEVATION**

SCALE 1/4" = 1'-0"



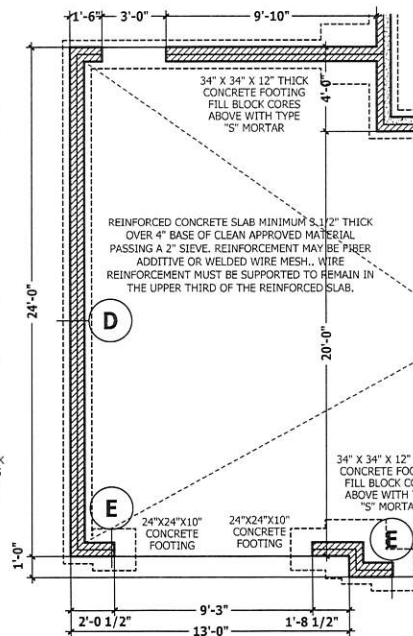
**ROOF PLAN**

SCALE 1/4" = 1'-0"



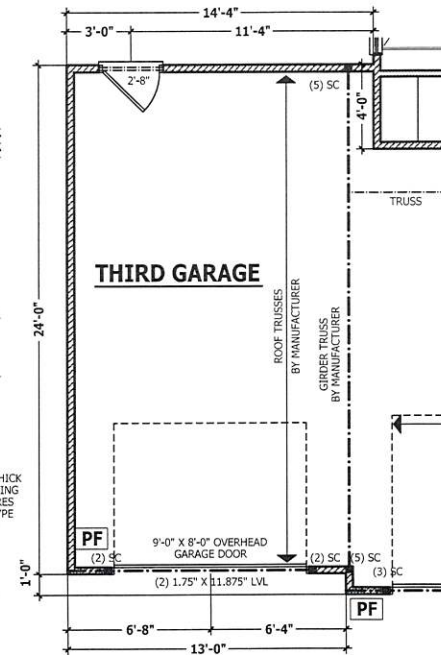
**MONOLITHIC PLAN**

SCALE 1/4" = 1'-0"



**CRAWL / STEMWALL PLAN**

SCALE 1/4" = 1'-0"



**FIRST FLOOR PLAN**

SCALE 1/4" = 1'-0"

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**THIRD CAR GARAGE**  
**SINCLAIR**

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910.630.2100 • 919.606.4696

**HAYNES WEAVER HOMES**  
**HOME PLANS, INC.**  
P.O. Box 702, Wake Forest, NC 27588 919.356.6180 Fax 1-866-491-0336

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1351.50 SF
LAUNDRY	222.50 SF
TOTAL	1574.00 SF
HEATED OPTIONAL	
THIRD GARAGE	389.50 SF
TOTAL	1963.50 SF
UNHEATED	
FRONT PORCH	134.00 SF
GARAGE	40.50 SF
REAR PORCH	113.50 SF
TOTAL	297.50 SF
UNHEATED OPTIONAL	
THIRD GARAGE	389.50 SF
TOTAL	389.50 SF

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**3/6/2020**  
**190320B**  
**ADDENDUM**