PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT: 22'-8	HEIGHT TO RIDGE: 26'-4"			
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 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 115 MPH, 3 SECOND GUST (89 FASTEST MILE) EXPOSURE "B"								
COMPONENT	& CLA	DDING	DESIG	NED FO	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	13.1	-14.0	13.8	-14.7	14.3	-15.3	14.7	-15.7
ZONE 2	13.0	-13.0	13.7	-13.7	14.2	-14.2	14.6	-14.6
ZONE 3	13.1	-16.0	13.8	-16.8	14.3	-17.4	14.7	-17.9
ZONE 4	14.3	-15.0	15.0	-15.8	15.6	-16.4	16.0	-16.8
70NF 5	14.3	-19.0	15.0	-20.0	15.6	-20.7	16.0	-21.3

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:**

- 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 = 1,488 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 9.92 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 = 4.96 SQ.FT.

> EXTENED OVERHANG AS -NEEDED TO ALIGN BOXING

(APOXIMATE 1'-6" OVERHANG)

GUARD RAIL NOTES

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 *quard*.

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

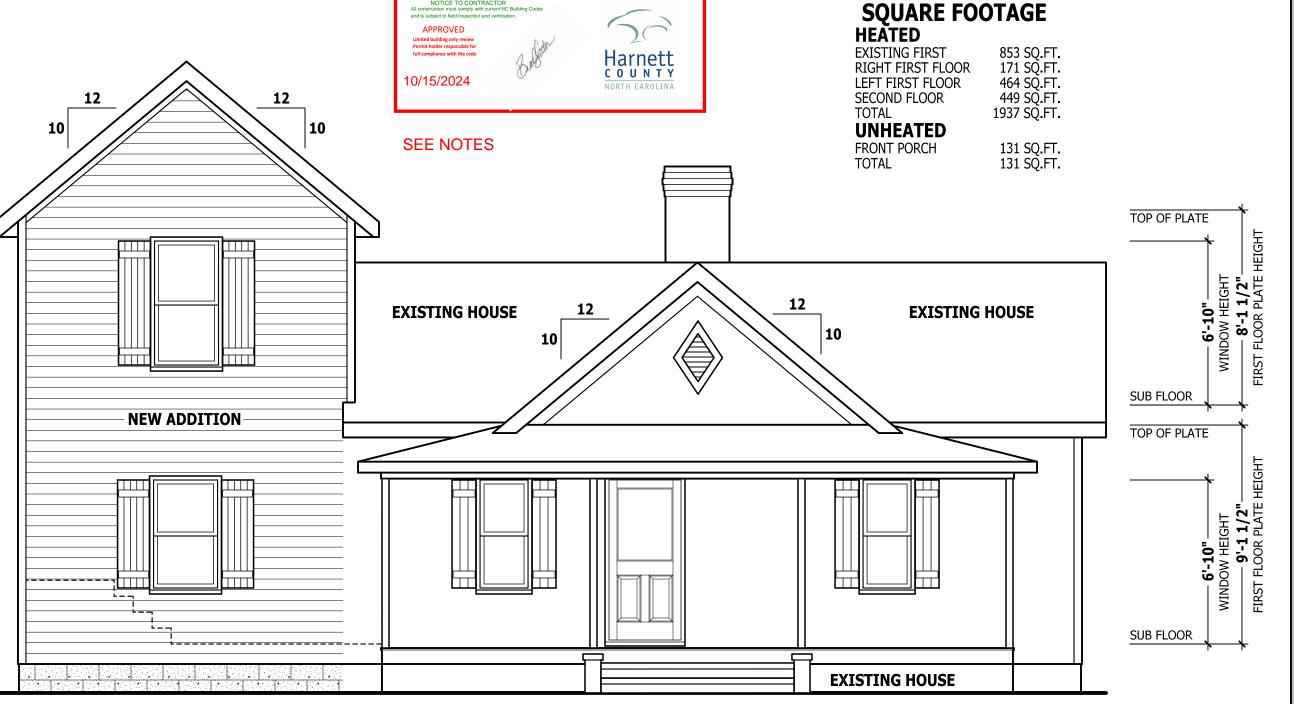
1. *Guards* on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.

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

R312.3 Opening limitations. Required *quards* 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:**

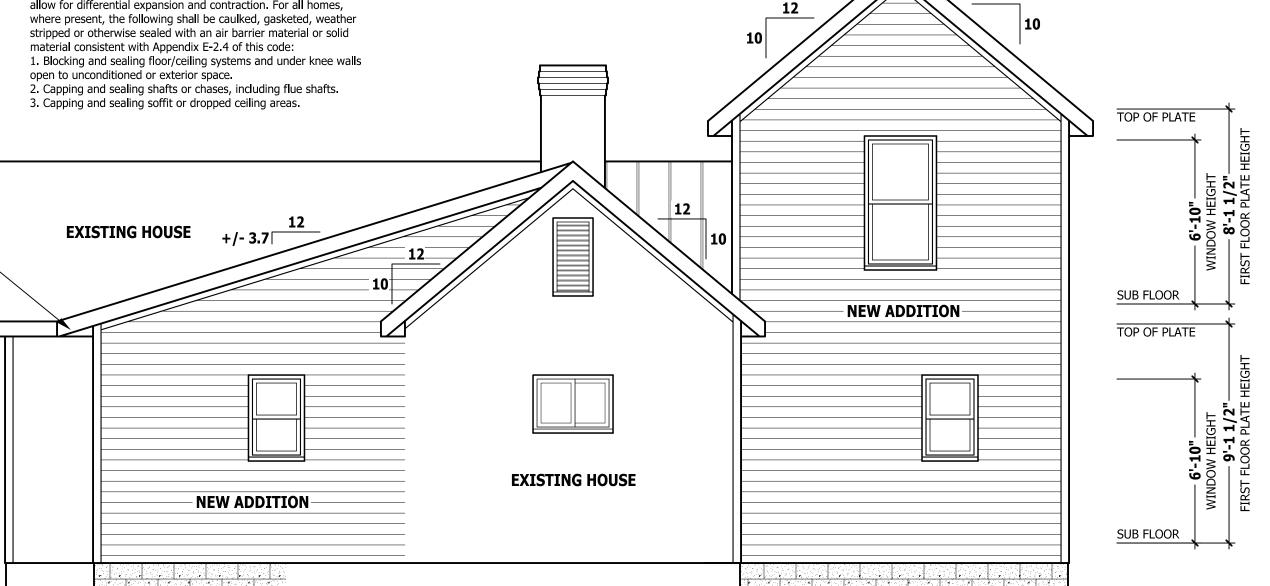
1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a *guard*, shall not allow passage of a sphere 6 inches (153

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.



AIR LEAKAGE

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:



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PROCEDURES. CODES AND CONDITIONS MAY ARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR IGINEER SHOULD BE CONSULTED

BEFORE CONSTRUCTION. THESE DRAWING ARE NSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

> **ELEVATIONS** REAR య **FRONT**

SQUARE FOOTAGE HEATED EXISTING FIRST RIGHT FIRST FLOOR LEFT FIRST FLOOR SECOND FLOOR TOTAL UNHEATED

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CODES AND CONDITIONS MAY

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LEFT & RIGHT ELEVATIONS

SQUARE FOOTAGE
HEATED
EXISTING FIRST
RIGHT FIRST FLOOR
LEFT FIRST FLOOR
SECOND FLOOR
TOTAL

WNHEATED
FRONT PORCH
TOTAL
131 SQ.FT.
131 SQ.FT.

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PAGE 2 OF 8

CRAWL SPACE PLAN

SCALE 1/4" = 1'-0"

CLOSED CRAWL PER R409 OR WALL VENTED CRAWL SPACE

UNDER-FLOOR SPACE (SECTION R408) TOTAL FOUNDATION

 $\overline{5}$ QUARE FOOTAGE OF FOUNDATION TO BE VENTED = 1,508 SQ.FT. WITHOUT CROSS VENTILATION AREA OF VENTING NEEDED = 10.05 SQ.FT. WITH CROSS VENTILATION AREA OF VENTING NEEDED = 1.005 SQ.FT. NOTE: NUMBER OF VENTS NEED WILL VARY DEPENDING ON VENTS USED AND CROSS VENTILATION.

PURCHASER MUST VERIFY ALL SEFORE CONSTRUCTION BEGINS HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND CODES AND CONDITIONS MAY

> DESIGNER, ARCHITECT OR NGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWING ARE NSTRUMENTS OF SERVICE AND

AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

FOUNDATION

SQUARE FOOTAGE HEATED EXISTING FIRST
RIGHT FIRST FLOOR
LEFT FIRST FLOOR
SECOND FLOOR
TOTAL
UNHEATED

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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

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.

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.

2 X 4 STUDS AT 16" O.C.

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UNLESS NOTED OTHERWISE

AS SPECIFIED

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

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BEFORE CONSTRUCTION.

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FIRST FLOOR PLAN

Miller Residence 8296 Christian Light Road

SQUARE FOOTAGE
HEATED

EXISTING FIRST
RIGHT FIRST FLOOR
LEFT FIRST FLOOR
SECOND FLOOR
TOTAL
UNHEATED
FRONT PORCH
TOTAL
131 SQ.FT.
131 SQ.FT.

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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

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

All construction shall conform to the latest requirements of the 2018 North

document in no way shall be construed to supersede the code.

Carolina Residential Building Code, plus all local codes and regulations. This

STRUCTURAL NOTES

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

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

ENGINEERED WOOD BEAMS:

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x106 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 for 16"

on center rafters and 7/16" for 24" on center rafters. **CONCRETE AND SOILS:** See foundation notes.

BRACE WALL PANEL NOTES

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

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

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

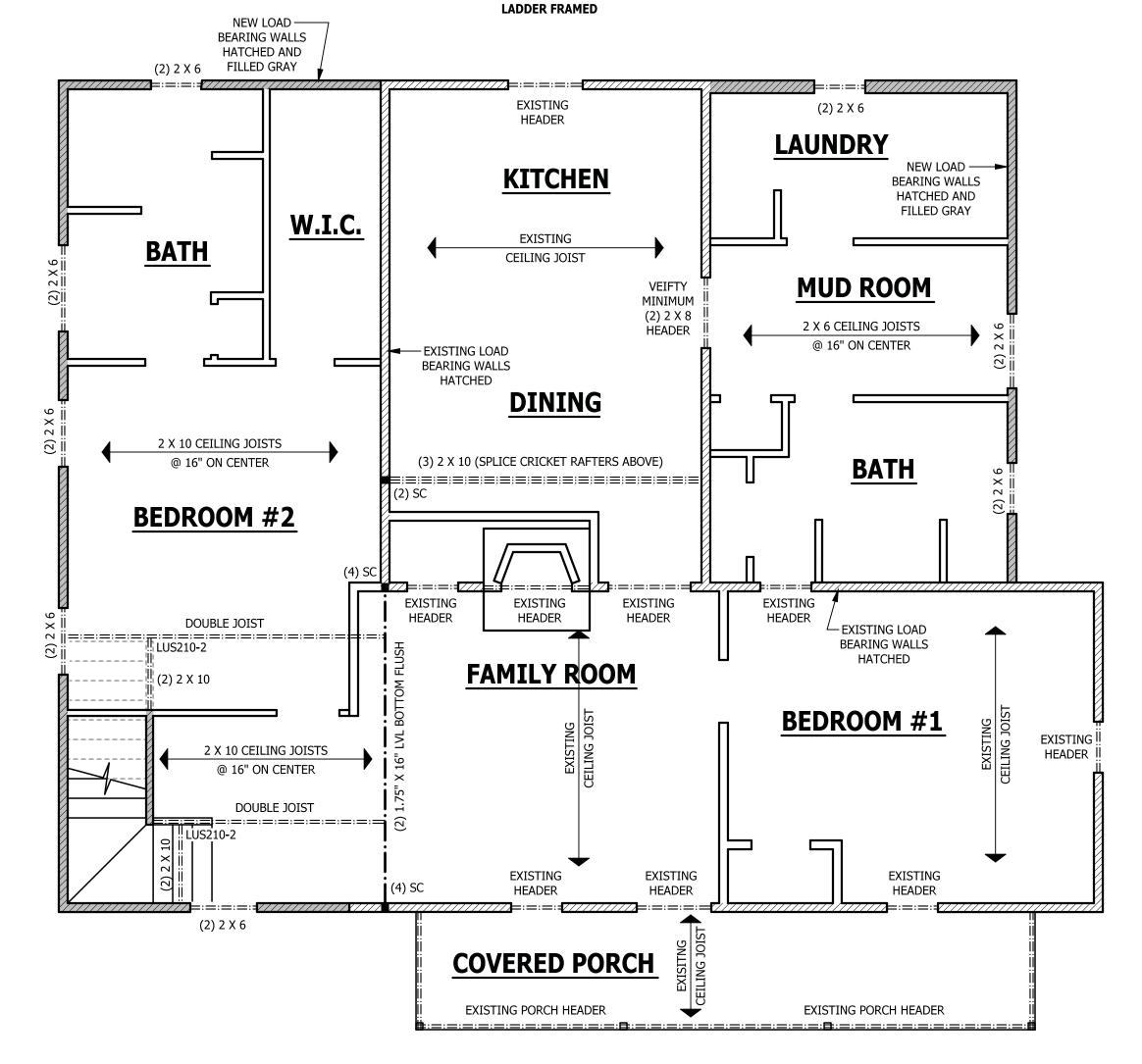
HD: 800 lbs hold down hold down device fastened to the edge of the brace wall panel closets to the corner.

Methods Per Table R602.10.1

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

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



FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

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> STRUCTURAL FLOOR **FIRST**



SQUARE FOOTAGE HEATED EXISTING FIRST
RIGHT FIRST FLOOR
LEFT FIRST FLOOR
SECOND FLOOR
TOTAL
UNHEATED

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STRUCTURAL NOTES

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DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION	
USE	(PSF)	(PSF)	(LL)	
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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			

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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.

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 ST	TUD(S)	1	2	3	5	6
IN'	ΓER	IO	RI	HE#	\DE	RS

- 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

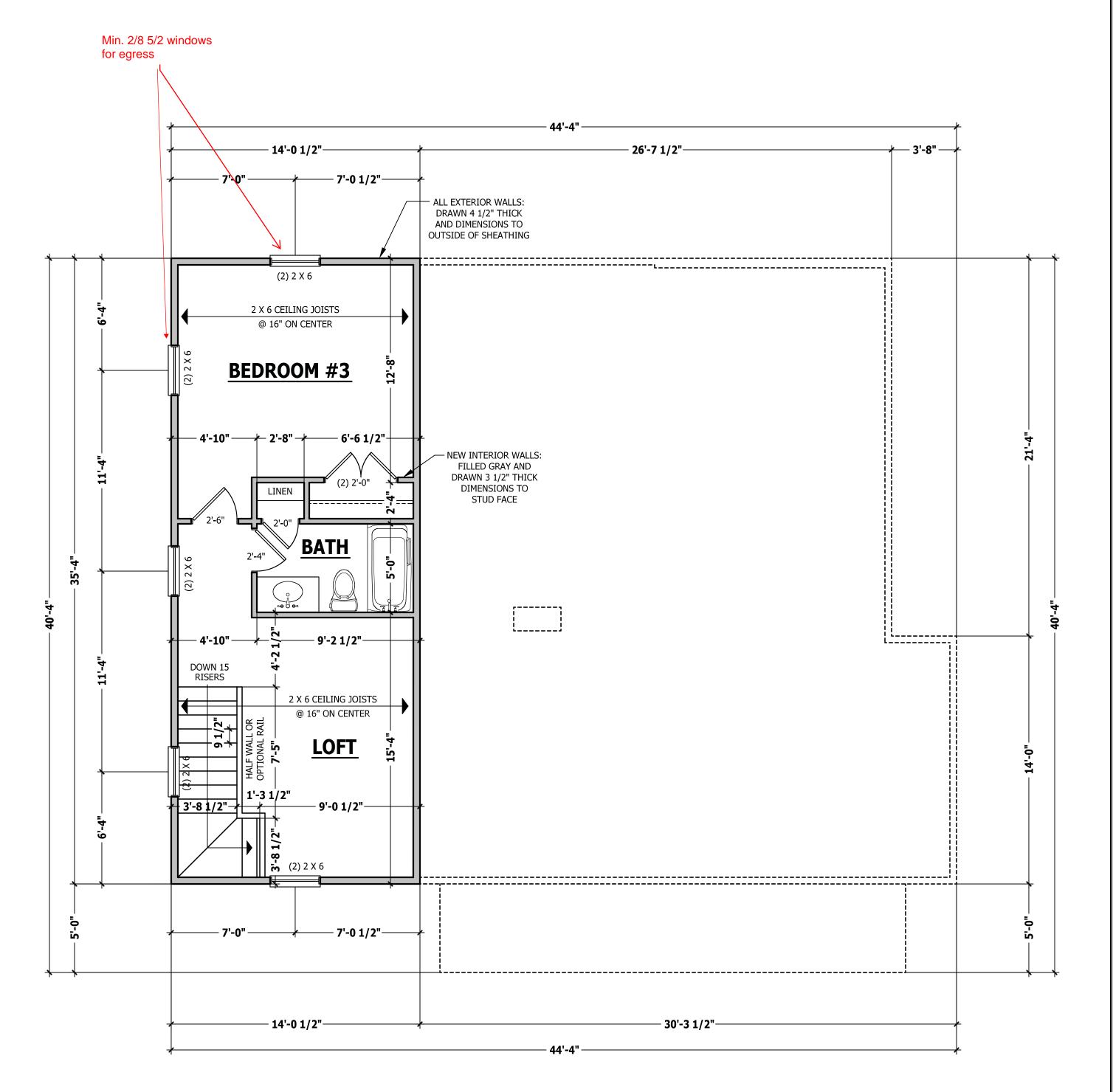
ATTIC ACCESS

SECTION R807

R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 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.



SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

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BEFORE CONSTRUCTION BEGINS.
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PROCEDURES.

CODES AND CONDITIONS MAY
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ENGINEER SHOULD BE CONSULTED
BEFORE CONSTRUCTION.
THESE DRAWING ARE

BEFORE CONSTRUCTION.
THESE DRAWING ARE
INSTRUMENTS OF SERVICE AND
AS SUCH SHALL REMAIN
PROPERTY OF THE DESIGNER.

SECOND FLOOR PLA

Miller Residence 3296 Christian Light Roa



SQUARE FOOTAGE
HEATED
EXISTING FIRST
RIGHT FIRST FLOOR
LEFT FIRST FLOOR
SECOND FLOOR
TOTAL
UNHEATED
FRONT PORCH
TOTAL
131 SQ.FT
131 SQ.FT

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ROOF PLAN SCALE 1/4" = 1'-0"

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PROCEDURES.

CODES AND CONDITIONS MAY
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ENGINEER SHOULD BE CONSULTED
BEFORE CONSTRUCTION.
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AS SUCH SHALL REMAIN
PROPERTY OF THE DESIGNER.

ROOF PLAN



SQUARE FOOTAGE
HEATED
EXISTING FIRST
RIGHT FIRST FLOOR
LEFT FIRST FLOOR
SECOND FLOOR
TOTAL

WNHEATED
FRONT PORCH
TOTAL
131 SQ.FT.
131 SQ.FT.

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2 X 4 STUDS AT 16" O.C. SHEATHING UNLESS NOTED OTHERWISE AS SPECIFIED 1/2" GYPSUM SIDING AS SPECIFIED SUB FLOOR AS-SPECIFIED -2 X 4 SILL PLATE - 2 X RIM JOIST FLOOR JOIST AS SPECIFIED MASONRY CAP 2 X 6 TREATED SILL PLATE " CONCRETE SEE "FOUNDATION STRUCTURAL" NOTES FOR 4" BRICK ANCHOR BOLT SIZE AND SPACING GRADE CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE CRAWL SPACE WALL

FLOOR JOIST OVERLAP AS SPECIFIED)\ JOIST\ (3) 2 X 10 GIRDER **UNLESS NOTED** 8" SOLID -OTHERWISE MASONRY CAP -2 X 6 TREATED SILL PLATE (3) 2 X 10 GIRDER FLOOR JOIST UNLESS NOTED AS SPECIFIED ~ OTHERWISE 2 X 6 TREATED SILL PLATE MINIMUM · ■-8" SOLID 2 X 2 LEDGER MASONRY CAP STRIPS OR HANGERS CONCRETE FOOTING AS SPECIFIED SET i PIER SIZE AS **BOTTOM OF** SPECIFIED FOOTING BELOW THE FROST LINE **DROPPED/ FLUSH PIER** SCALE 3/4" = 1'-0"

CARBON MONOXIDE ALARMS

AS SPECIFIED

SEE FOUNDATION

FOR FOUNDATION

DETAILS

WEEP SCREED

SCALE 3/4" = 1'-0"

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

R315.2 Where required in existing dwellings. In existing dwellings, where interior alterations, repairs, fuel-fired appliance replacements, or additions requiring a permit occurs, or where one or more sleeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section

R315.3 Alarm requirements. The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

STONE VEENER

AS SPECIFIED

-WEEP SCREED

MINIMUM 4" TO

GROUND OR 2"

-TO PAVEMENT

GRADE

WEEP SCREEDS

All weep screeds and stone veneer to be installed per manufactures instructions and per the 2012 North Carolina Residential Building code.

R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building. The weather-resistant barrier shall lap the attachment flange. The exterior lath shall cover and terminate on the

attachment flange of the weep screed.

SMOKE ALARMS

R314.1 Smoke detection and notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.

R314.2 Smoke detection systems. Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible notification device installed as required by this section for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required by this section for smoke alarms. Where a household fire warning system is installed using a combination of smoke detector and audible notification device(s), it shall become a permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by an approved supervising station and be maintained in accordance with NFPA 72.

Exception: Where smoke alarms are provided meeting the requirements of Section R314.4.

R314.3 Location. Smoke alarms shall be installed in the following locations:

In each sleeping room.

2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.

3. On each additional *story* of the *dwelling*, including *basements* and habitable attics (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) attic-stories. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit.

R314.4 Power source. Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.

STAIRWAY NOTES

R311.7.2 Headroom. The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the landing or platform on that portion of the stairway.

R311.7.4 Stair treads and risers. Stair treads and risers shall meet the requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners. **R311.7.4.1 Riser height.** The maximum riser height shall be 8 1/4 inches (210 mm). The riser shall be measured vertically between leading edges of

the adiacent treads. R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread depth of 9 inches (229 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 4 inches (102 mm) at any point.

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

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

continuous run of treads or flight with four or more risers. **R311.7.7.1 Height.** Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm)and not more than 38 inches (965 mm).

Exceptions: 1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.

2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

R311.7.7.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the handrails.

Exceptions:

1. Handrails shall be permitted to be interrupted by a newel post. 2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

3. Two or more separate rails shall be considered continuous if the termination of the rails occurs within 6 inches (152 mm) of each other. If transitioning between a wall-mounted handrail and a guardrail/handrail, the wall-mounted rail must return into the wall.

PITCH PER ROOF PLAN OR ELEVATIONS ROOF INSULATION PER CLIMATE ZONE SHINGLES AS SPECIFIED SEE CODE NOTE ON -15# BUILDING FELT **ELEVATION PAGES** CÉILING JOISTS SHEATHING /AS\SPECIFIED/ AS SPECIFIED (2) 2 X 4 TOP PLATE . 1/2" GYPSUM — —1 X 8 FASCI/ - SOFFIT WALL INSULATION SOFFIT VENTING PER CLIMATE ZONE - OPTIONAL 1 X 4 FRIEZE SEE CODE NOTE ON **ELEVATION PAGES** - SHEATHING 2 X 4 STUDS AT 16" ON CENTER AS SPECIFIED UNLESS NOTED OTHERWISE 3/4" SUBFLOOR 2 X 4 SILL PLATE - 2 x BAND FLOOR JOIST AS SPECIFIED (2) 2 X 4 TOP - 1/2" GYPSUM PLATE WALL INSULATION PER SIDING AS CLIMATE ZONE SEE CODE SPECIFIED NOTE ON ELEVATION PAGES 2 X 4 STUDS AT 16" O.C. SHEATHING AS SPECIFIED UNLESS NOTED OTHERWISE 1/2" GYPSUM SIDING AS SPECIFIED SUB FLOOR AS-SPECIFIED 2 X 4 SILL PLATE FLOOR JOIST - 2 X RIM JOIST AS SPECIFIED MASONRY CAP 2 X 6 TREATED SILL PLATE 4" CONCRETE SEE "FOUNDATION STRUCTURAL" NOTES FOR 4" BRICK ANCHOR BOLT SIZE AND VENEER SPACING **GRADE** CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING TYPICAL WALL DETAIL

MAXIMUM 6" GAP BETWEEN WALL MOUNTED AND OPEN RAIL CONTINUOUS HANDRAIL 34 TO 38 INCHES ABOVE TREAD NOSING

SCALE 3/4" = 1'-0"

TYPICAL STAIR DETAIL

LYPICAL

PURCHASER MUST VERIFY ALL SEFORE CONSTRUCTION BEGINS HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

CODES AND CONDITIONS MAY DESIGNER, ARCHITECT OR

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DETAILS

Miller Residence 8296 Christian Light Road

SQUARE FOOTAGE HEATED EXISTING FIRST RIGHT FIRST FLOOR LEFT FIRST FLOOR SECOND FLOOR UNHEATED 131 SQ.FT 131 SQ.FT RONT PORCH

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