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

MEAN ROOF HEIGHT: 19'-9" HEIGHT TO RIDGE: 27'-5"

ZONE 3A	ZONE 4A	ZONE 5A
0.35	0.35	0.35
0.55	0.55	0.55
0.30	0.30	0.30
38 or 30ci	38 or 30ci	38 or 30ci
15	15	19
19	19	30
5/13	10/15	10/15
0	10	10
5/13	10/15	10/19
	0.35 0.55 0.30 38 or 30ci 15 19 5/13	0.35         0.35           0.55         0.55           0.30         0.30           38 or 30ci         38 or 30ci           15         15           19         19           5/13         10/15           0         10

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

DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B"								
COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS								
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8
ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4
DECIDIED FOR MIXIN OPERS OF 420 MINU 2 OFFICE OUT (404 FACTOR MIXIN) DIVIDIGILIES								

	DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B"								
	COMPONENT	& CLA	DDING	DESIG	NED FC	R THE	<b>FOLLO</b>	WING	LOADS
ı	MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'
	ZONE 1	16.7	-18.0	17.5	-18.9	18.2	-19.6	18.7	-20.2
I	ZONE 2	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5
ı	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
ĺ	ZONE 5	18 2	-24 N	19 1	-25.2	19 R	-26.2	20 4	-26.9

DORMER HEIGHT 5'0"

SCALE 1/8" = 1'-0"

SIDING AS

SPECIFIED-

## **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 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

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

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

#### **Exceptions:**

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

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

## **ROOF VENTILATION**

PLUMBING: DOUBLE J

**ELECTRICAL: JM POPE** 

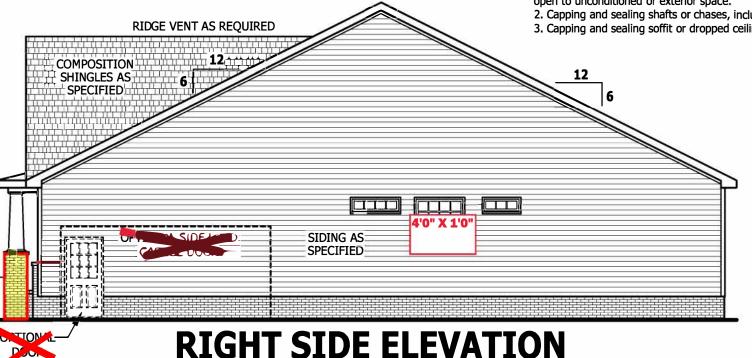
**HVAC: CAROLINA COMFORT** 

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,477 SQ.FT.

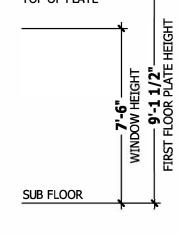
NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 16.51 SQ.FT.WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 8.26 SQ.FT.

# STONE



**3CG/ COVERED PORCH** SHAKE AS 1 X 4 TRIM AROUND WINDOW TOP OF PLATE BOARD SCIPPATTEN 7'-6".



WINDY HILL LOT 4 11205

**LILLINGTON, NC 27546** 

MCDOUGALD RD

DIMENSIONS AND CONDITIONS

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**ELEVATION** 

**SQUARE FOOTAGE** 1791 SQ.FT.

1791 SQ.FT. **HEATED OPTIONAL** CAROLINA ROOM

148 SQ.FT. 148 SQ.FT. **UNHEATED** 

188 SQ.FT. 469 SQ.FT. FRONT PORCH GARAGE 657 SQ.FT.

UNHEATED OPTIONAL 160 SQ.FT. 108 SQ.FT. SCREENED PORCH DECK OR PATIO

292 SQ.FT. 560 SQ.FT.

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, 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

2. Capping and sealing shafts or chases, including flue shafts.

3. Capping and sealing soffit or dropped ceiling areas.

SQUARE FOOTAGE HEATED TOTAL 1791 S
HEATED OPTIONAL
CAROLINA ROOM 148 ARULLI...
TOTAL

UNHEATED
FRONT PORCH
GARAGE
TOTAL

FRONT PORCH 188 SQ.FT.
GARAGE 469 SQ.FT.
TOTAL 657 SQ.FT.
UNHEATED OPTIONAL
SCREENED PORCH 160 SQ.FT.
DECK OR PATIO 108 SQ.FT.
THIRD GARAGE 292 SQ.FT.
TOTAL 560 SQ.FT.

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**FRONT ELEVATION - A** HEĂTED SCALE 1/4" = 1'-0" RIDGE VENT AS REQUIRED FIRST FLOOR TOTAL **COMPOSITION** SHINGLES AS THIRD GARAGE TOTAL **AIR LEAKAGE** SIDING AS SPECIFIED Section N1102.4 WINDOWS WITH SIDE LOAD **REAR ELEVATION** SCALE 1/8" = 1'-0" SCALE 1/8" = 1'-0"open to unconditioned or exterior space. RIDGE VENT AS REQUIRED COMPOSITION SHINGLES AS RIGHT SIDE ELEVATION **LEFT SIDE ELEVATION** SCALE 1/8" = 1'-0"

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. DEAD LOAD DEFLECTION

(PSF) (LL)

DESIGN LOADS	LIVE LOAD
USE	(PSF)
Attics without storage	10

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

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.

20 -- --

### **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" minimum 5d cooler nails or #6 screws.

**ROOF SHEATHING:** OSB or CDX roof sheathing minimum

**CONCRETE AND SOILS:** See foundation notes.

thick for 24" on center joist spacing.

**ROOF TRUSS REQUIREMENTS** 

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

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

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

## **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

**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

**PF**: Portal fame per figure R602.10.1

-6-16D SINKER NAILS FROM KING STUD TO HEADER-**PONY WALL HEIGHT TO** VARY **HEADER PER PLAN** STAP HEADER TO JACK STUD ON INSIDE 1000 LBS OR -FASTEN SHEATHING TO-HEADER WITH 8D COMMON NAIL IN 3" GRID AND TO FRAMING AT 3" ON CENTER OPTIONAL SPLICE WITHIN-4" OF MIDDLE OF WALL HEIGHT - JACK STUDS PER PLAN -SHEATHING DIRECTION

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

- ANCHORAGE PER FOUNDATION -

# **EXTERIOR HEADERS**

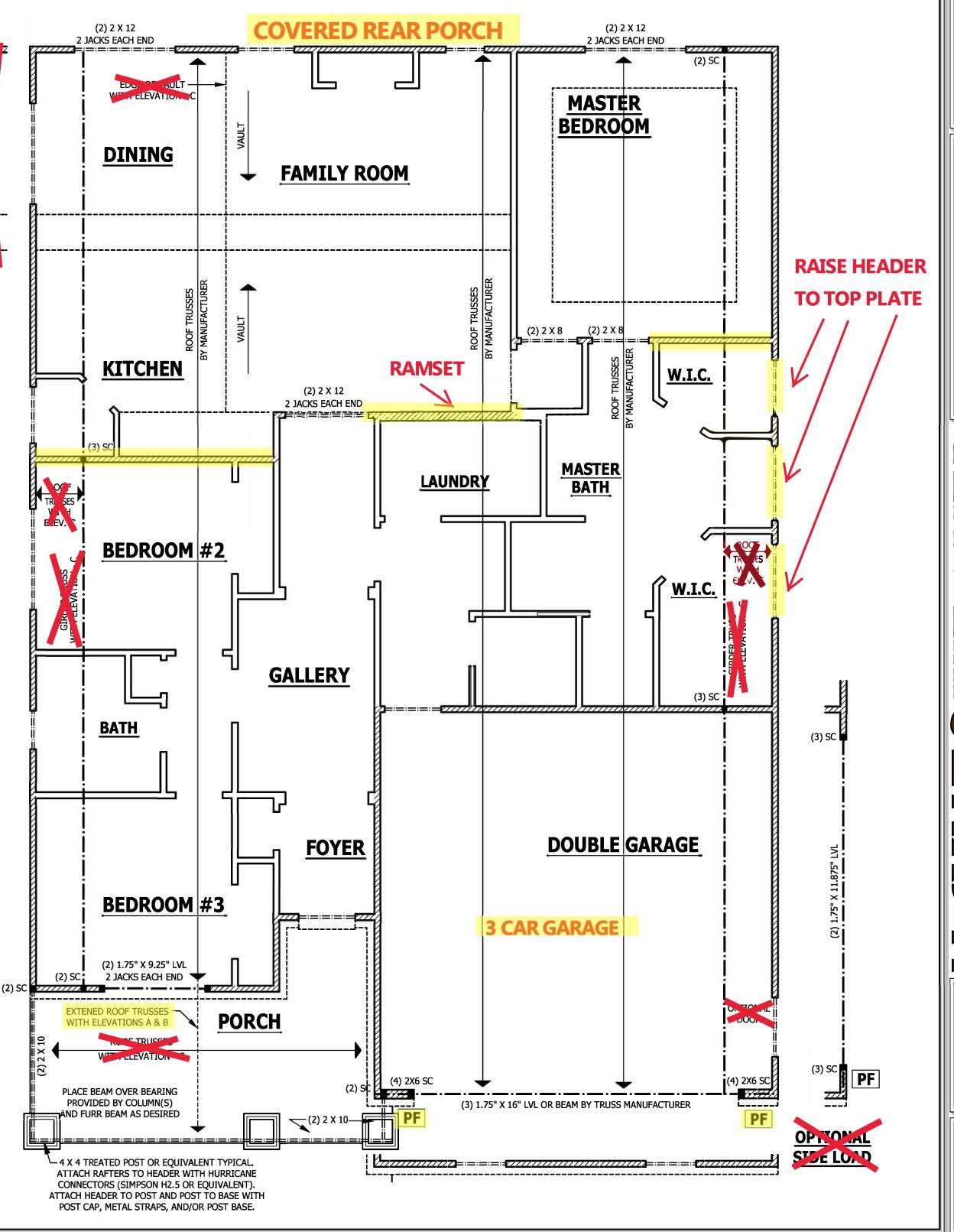
- (2) 2 X 6 WITH 1 JACK STUD EACH END **UNLESS NOTED OTHERWISE**
- KING STUDS EACH END PER TABLE BELOW HEADER SPAN < 3' | 3'-4' | 4'-8' | 8'-12' | 12'-16' KING STUD(S) 1 2 3 5 6

## **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

FIRST FLOOR STRUCTURAL

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



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STRUCTURAL FLOOR

SQUARE FOOTAGE HEATED HEATED OPTIONAL CAROLINA ROOM 148 UNHEATED TOTAL UNHEATED OPTIONAL 160 SO. SCREENED PORCH DECK OR PATIO

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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 Plan, Inc. attention before construction begins.

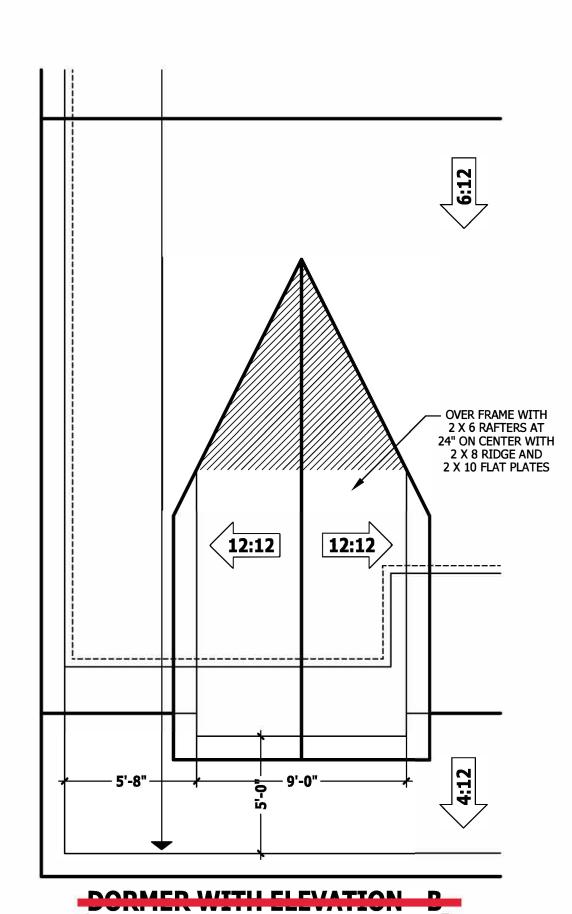
KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these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

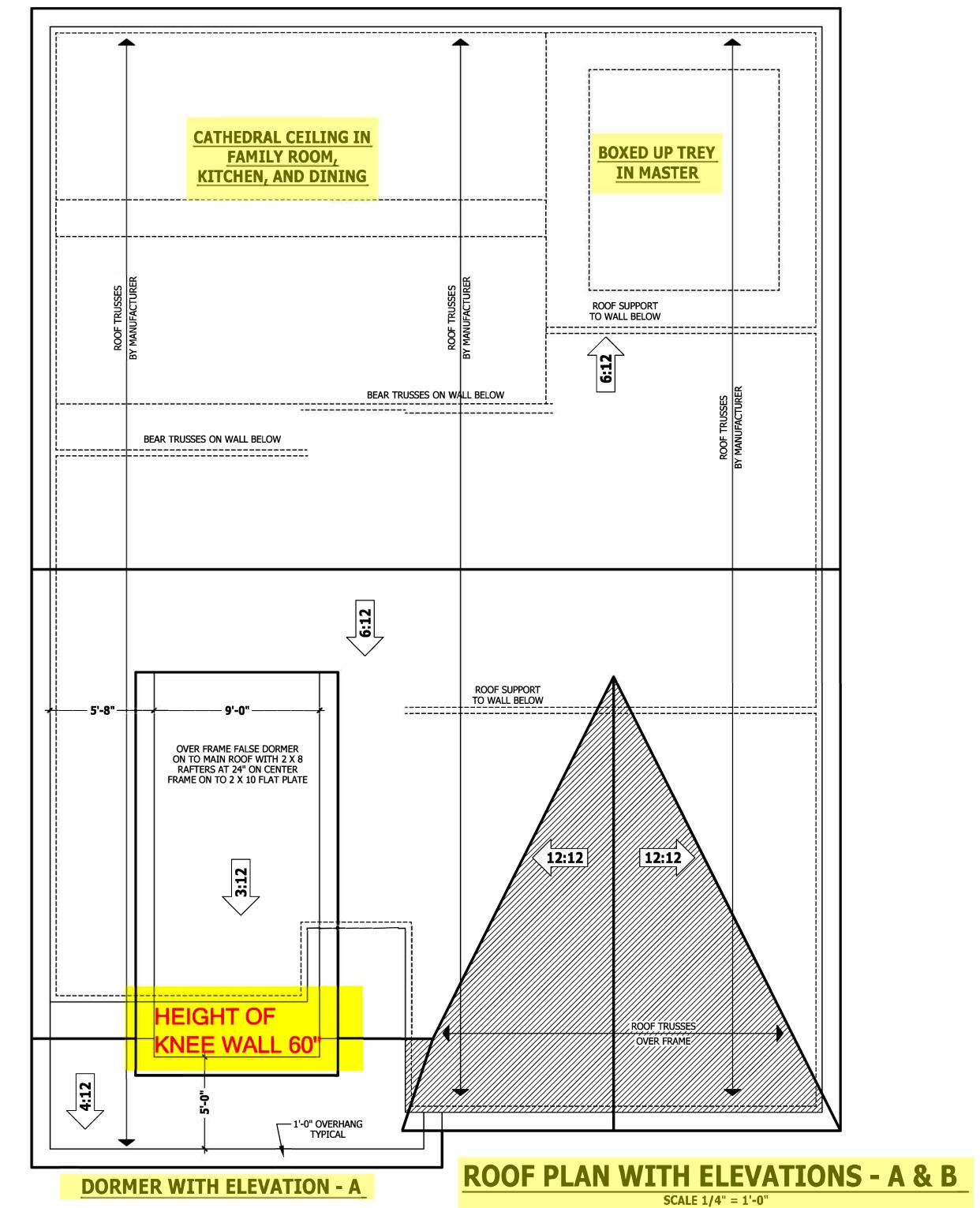
shall meet the requirements as specified on the truss schematics. **BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

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

HEEL HEIGHT ABOVE FIRST FLOOR PLATE

HEEL HEIGHT ABOVE SECOND FLOOR PLATE





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ROOF PLAN ELEVATIONS

 SQUARE FOOTAGE

 HEATED
 1791 SQ.FT.

 TISTS FLOOR
 1791 SQ.FT.

 HEATED OPTIONAL
 CAROLINA ROOM

 CAROLINA ROOM
 148 SQ.FT.

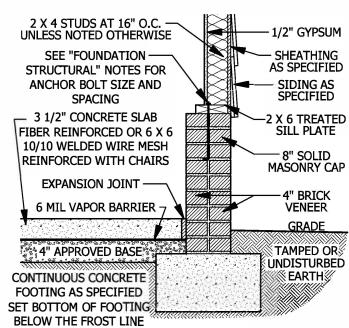
 TOTAL
 148 SQ.FT.

TOTAL
UNHEATED
FRONT PORCH
GARAGE | TOTAL | SCRENED PORCH | 160 SQ.FT. | TOTAL | SCRENED PORCH | 160 SQ.FT. | THIRD GARAGE | 292 SQ.FT. | TOTAL | 560 SQ.FT. |

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AM110.1 Stairs shall be constructed per Figure AM110. supports. Spacing between stringers shall be based upon If used, suspended headers shall shall be attached with 3/8 inch galvanized bolts with nuts and washers to securely support stringers at the top.

# **DECK BRACING**

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

above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section AM104, lateral bracing is not required.

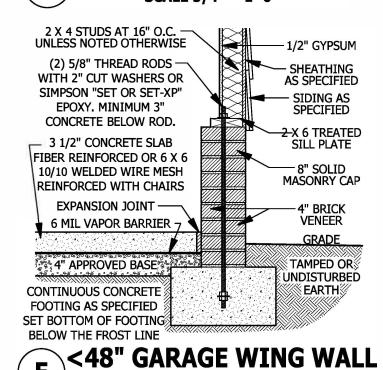
brace per Figure AM109.1

4'-0" 4 X 4 48 SF 2'-6" 6 X 6 | 120 SF | 6'-0" | 3'-6" 1'-8"

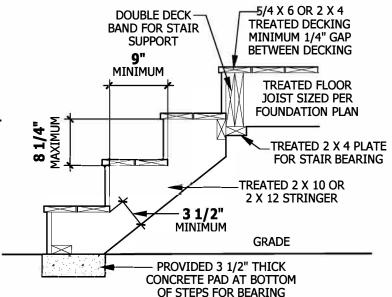
be provided in two perpendicular directions for freestanding decks or parallel to the structure at the exterior column line for attached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot dipped galvanized bolt with nut and washer at each end of each bracing member per Figure AM109.3. AM109.1.5. For embedment of piles in Coastal Regions,

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

#### 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 UNLESS NOTED OTHERWISE · FLOOR JOIST" AS SPECIFIED -2 X 6 TREATED SILL PLATE MINIMUM ■-8" SOLID 2 X 2 LEDGER MASONRY CAP STRIPS OR HANGERS CONCRETE FOOTING AS SPECIFIED SET PIER SIZE AS **BOTTOM OF** SPECIFIED FOOTING BELOW THE FROST LINE **DROPPED/ FLUSH PIER**



SCALE 3/4" = 1'-0"



# FIGURE AM110 TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

WEEP SCREED

MINIMUM 4" TO

**GROUND OR 2"** 

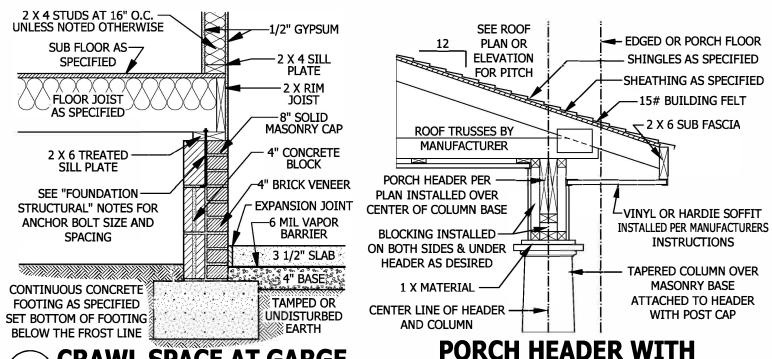
-TO PAVEMENT

**GRADE** 

# **WEEP SCREEDS**

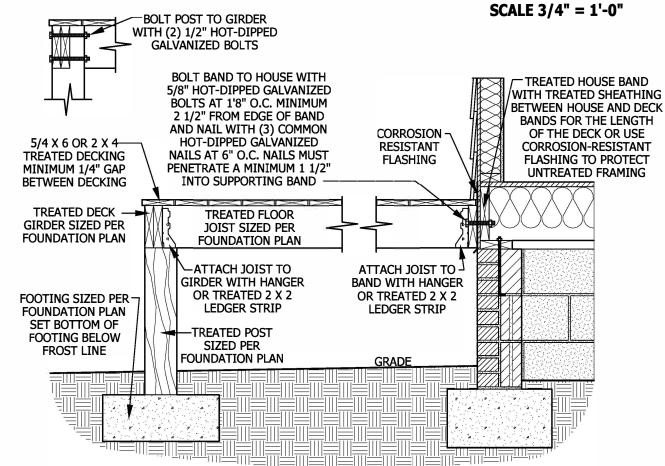
All weep screeds and stone veneer to be installed per manufactures instructions and per the 2012 North Carolina Residential Building code.

**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 shall cover and terminate on the attachment flange of the weep screed.



## CRAWL SPACE AT GARGE SCALE 3/4" = 1'-0"

# **PORCH HEADER WITH TAPERED COLUMN**



## **DECK ATTACHMENT DETAIL TO FRAMED WALL**

**SCALE 3/4" TO 1'-0"** 

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.

**STAIRWAY NOTES** 

**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

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 or y incnes (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.

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).

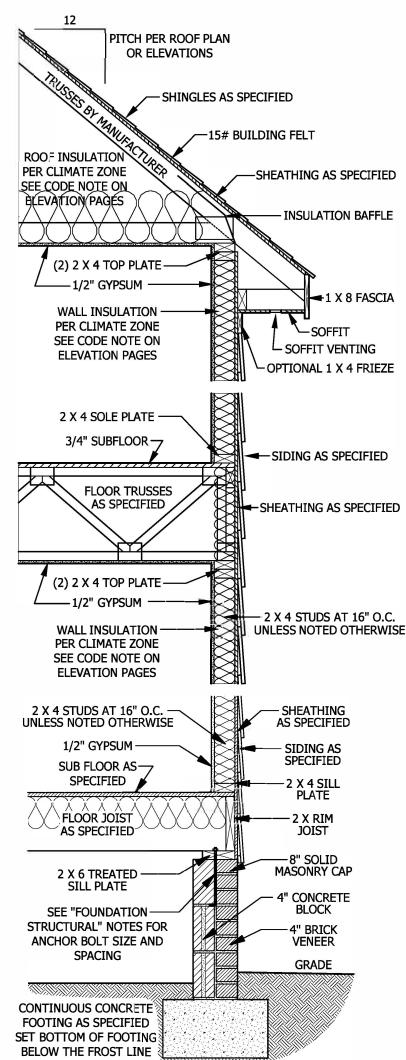
lowest tread

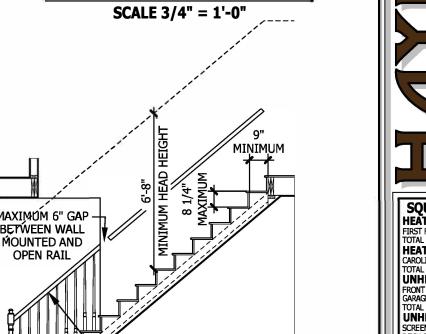
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

full length of the flight, from a point directly above the top riser of the flight between the wall and the handrails.

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 wall-mounted rail must return into the wall.





TYPICAL WALL DETAIL

**TYPICAL STAIR DETAIL** 

SCALE 1/4" = 1'-0"

**CONTINUOUS HANDRAIL** 

34 TO 38 INCHES

ABOVE TREAD NOSING

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IMENSIONS AND CONDITION

**DETAIL** Lauren **TYPICAL** The

SQUARE FOOTAGE HEATED **HEATED OPTIONAL** CAROLINA ROOM UNHEATED UNHEATED OPTIONAL Creened Porch ECK or Patio

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R311.7.7.1 Height. Handrail height, measured vertically from the sloped Maximum 6" gap -BETWEEN WALL

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

**R311.7.7.2 Continuity.** Handrails for stairways shall be continuous for the 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)

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

**GARAGE STEM WALL** D **DECK STAIR NOTES** SECTION AM110

Stringer spans shall be no greater than 7 foot span between decking material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step cut and back of stringer.

SCALE 3/4" = 1'-0"

#### **SECTION AM109**

see Chapter 45.

AM109.1.1. When the deck floor height is less than 4'-0"

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 girder/double band with one 5/8 inch hot dipped galvanized bolt with nut and washer at both ends of the

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

and the following TRIBUTARY MAX. POST EMBEDMENT CONCRETE DEPTH DIAMETER SEE FOUNDATION **AM109.1.4.** 2 x 6 diagonal vertical cross bracing may FOR FOUNDATION

SHEATHING AS SPECIFIED

AS SPECIFIED

**DETAILS** 

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 sar 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

**SMOKE ALARMS** 

equipment provisions of NFPA 72.

NFPA 72. **Exception:** Where smoke alarms are provided meeting the requirements of Section R314.4.

R314.1 Smoke detection and notification. All smoke alarms shall be

listed in accordance with UL 217 and installed in accordance with

R314.2 Smoke detection systems. Household fire alarm systems

installed in accordance with NFPA 72 that include smoke alarms, or

the provisions of this code and the household fire warning

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

1. In each sleeping room.

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

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

alarm installed on the upper level shall suffice for the adjacent

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 lap the attachment flange. The exterior lath 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.

