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

MEAN ROOF HEIGHT: 26'-6	HEIGHT TO RIDGE: 31'-8"			
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 30d	38 or 30d	38 or 30d	
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	

⇒ DISULATION DEPTH WITH MONOLITHIC SUAS 24" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING; INSULATION DEPTH WITH STEM WALL SUAS 24" OR TO BOTTOM OF FOUNDATION WALL.

MEAN ROOF	UPT	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		-18.0						
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
ZONE 4		-16.0						
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17,4	-22.4

DESIGNED FOR WIN	D SPEED	OF 130 NF	H, 3 5EO	OND GUST	(101 FAS	TEST MILE	DPOS	JRE "B"
COMPONENT	& CLA	DDING	DESIG	NED FC)R THE	FOLLO	WING	LOADS
MEAN ROOF	UP T	LO 30,	30'-1"	TO 35	35'-1"	TO 40'	40'-1"	TO 45
ZONE 1								-20.2
ZONE 2								-23.5
ZONE 3								-23.5
ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21.3
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	-26.9

GUARD RAIL NOTES

SECTION R312

SECLIAN K312.

R33.2.1 Where required. Guards shall be located along open-sided walking surfaces, including stairs, ramps and landings, thet are located more than 30 inches (752 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, balconles or landings, shall be not less than 36 inches (914 most light programs) bids may use the surface of the stairs. 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

town min measured verticely from a mire durinesting the leading studes to treats.

2. Where the top of the guard also serves as a handrall on the open sides of statins, 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 egoes of the treats.

R31.2.3 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.

 The triangular openings at the open side of a stair, formed by the risor, tread and bottom rall 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.

RIDGE VENT AS REQUIRED COMPOSITION SHINGLES AS SPECIFIED COMPOSITION SHINGLES AS SPECIFIED TOP OF PLATE SIDING AS COMPOSITION 12 SHINGLES AS SPECIFIED COMPOSITION SUB FLOOR TOP OF PLATE FIRST FLOOR PLATE HEIGHT WIND SUB FLOOR STONE VENEED - AS SPECIFIED

RIDGE VENT AS DECUMPED

FRONT ELEVATION - B

SCALE 1/4" = 1'-0"

ROOF VENTILATION

SECTION RROS

SQUARE FOOTAGE OF ROOF TO BE VENTED = 1,726 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

RIDGE VENT AS REQUIRED.

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE FAVE = 11.51 SO.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 5.75 SQ.FT. RAIL AS NEEDED PER CODE

SIDING AS

RIDGE VENT AS REQUIRED

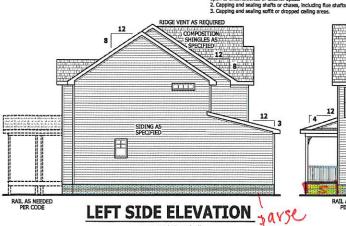
12

SQUARE FOOTAGE HEATED FIRST FLOOR SECOND FLOOR 964 SQ.FT. 1154 SQ.FT.

2118 SQ.FT. OPTIONAL UNHEATED DECK/PATIO/PORCH 167 SQ.FT. 167 SQ.FT.

UNHEATED FRONT PORCH GARAGE

223 SQ.FT. 472 SQ.FT. 695 SQ.FT.



SCALE 1/8" = 1'-0"

AIR LEAKAGE

Section #1.102.4 Sulfding thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit. Infiltration. The sealing methods between dissafing materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulized, gesketed, weether stripped or otherwise sealed with an air barrier material or solid

material consistent with Appendix E-2.4 of this code:

1. Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.

Section N1102.4

COMPOSITION SHINGLES AS STOTING AS SPECIFIED

RAILAS NEDPED PER CODE REAR ELEVATION SCALE 1/8" = 1'-0"

RIGHT SIDE ELEVATION

OMPOSITION SHINGLES AS SPECIFIED

SQUARE FOOTAGE HEATED HEATED
FIRST ROOR 964 SQ.FT.
SCOME ROOR 1154 SQ.FT.
TOTAL 2118 SQ.FT.
OPTIONAL UNHEATED
BEOXPAINGFORCH 167 SQ.FT.
TOTAL 167 SQ.FT. TOTAL UNHEATED

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PAGE 1 OF 7

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PROCEDURES.

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DESIGNER, ARCHITECT OR
NOMERES SHOULD BE CONSULTE
BEFORE CONSTRUCTION.
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INSTRUMENTS OF SERVICE AN

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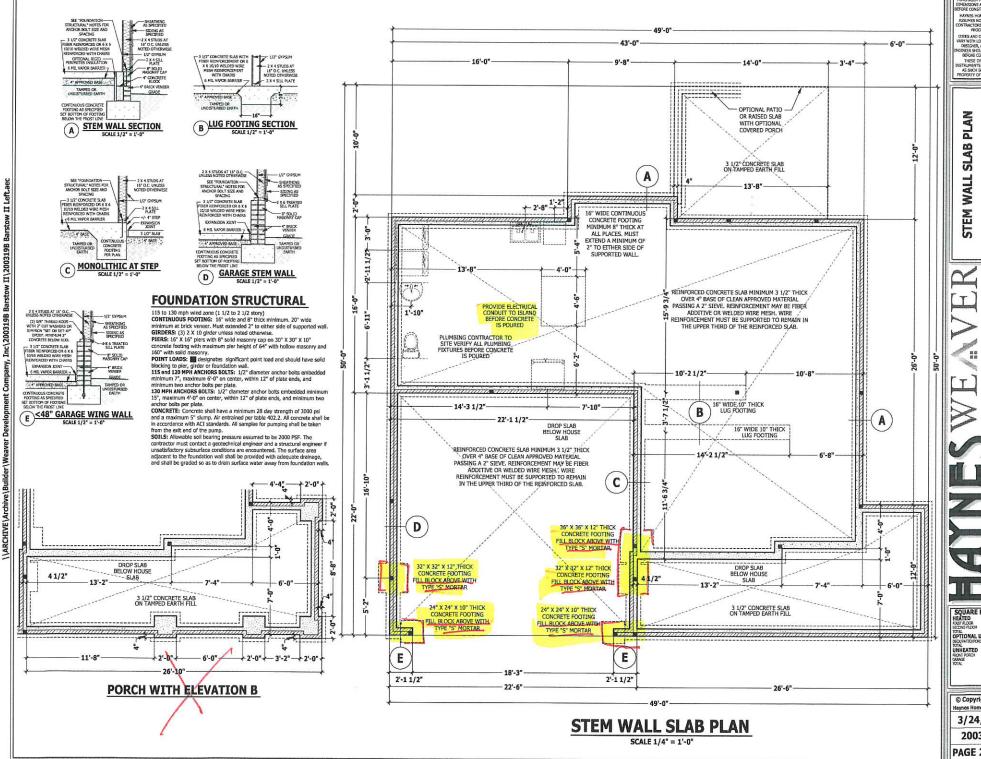
8

ELEVATION

RAIL AS NEEDED

SCALE 1/8" = 1'-0"

12



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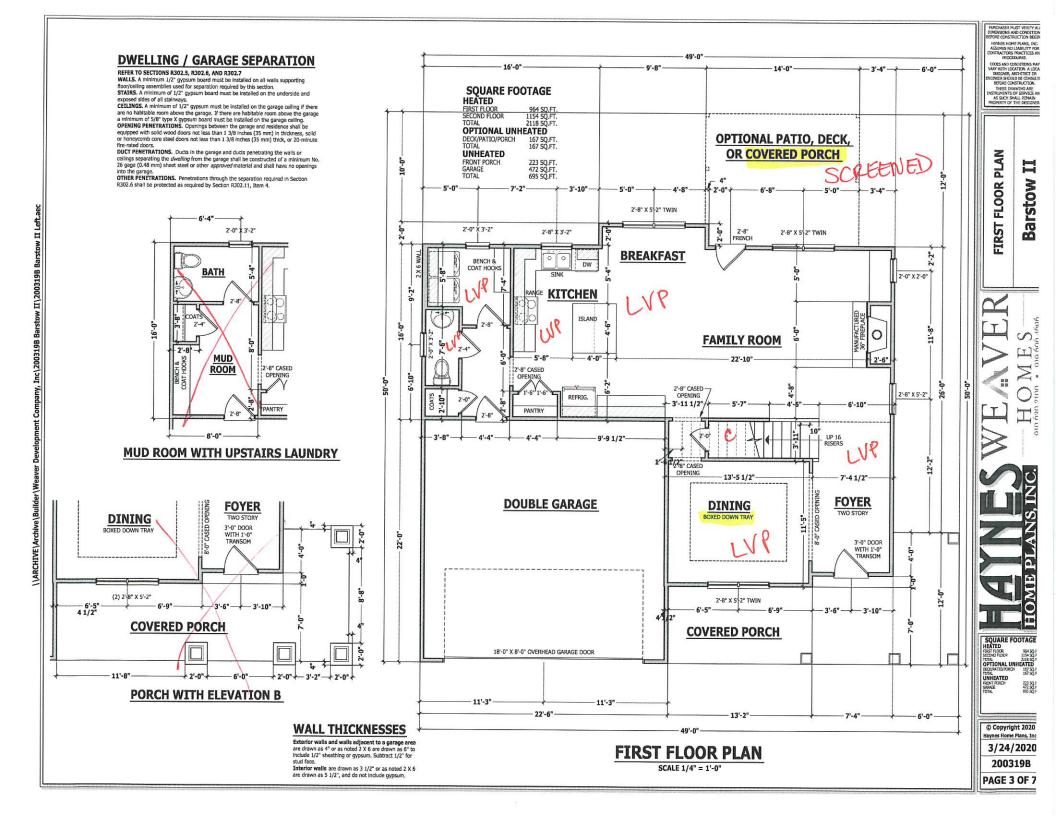
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SQUARE FOOTAGE HEATED FIRST FLOOR 964 SQ.F SECOND FLOOR 1154 SQ.F PTIONAL UNHEATED

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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.

DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTIO
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/350
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 REAMS

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

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(2) SC

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" ieg 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 canter for spans up to 16-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX foot sheathing minimum 1/2" thick for 16" on center jost spandig, minimum 3/8" thick for 1-12" on center jost spacing, and minimum 3/4" thick for 24" on center jost 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 Plan, Inc. attention before construction begins. 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.

(3) 2 X 10

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

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 nalls 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

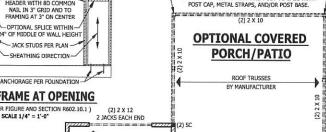
GB: Interior walls show as GB are to have minimum 1/2 gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws.

PF: Portal fame per figure R602.10.1

PONY WAL HEIGHT TO HEADER PER PLAN STAP HEADER TO JACK-STUD ON INSIDE 1000 LBS OR 4000 LBS WITH PONY WALL. 5 P. 0 -FASTEN SHEATHING TO-HEADER WITH 8D COMMON NAIL IN 3" GRID AND TO FRAMING AT 3" ON CENTER MAXIMUM HEIGHT OPTIONAL SPLICE WITHIN-24" OF MIDDLE OF WALL HEIGHT - JACK STUDS PER PLAN -SHEATHING DIRECTION PORTAL FRAME AT OPENING (METHOD PF PER FIGURE AND SECTION R602.10.1)

(2) 2 X 8

6-16D SINKER NAILS FROM KING STUD TO HEADER-



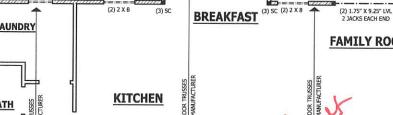
-4 X 4 TREATED POST OR EQUIVALENT TYPICAL. ATTACH RAFTERS TO HEADER WITH HURRICANE

CONNECTORS (SIMPSON H2.5 OR EQUIVALENT). ATTACH HEADER TO POST AND POST TO BASE WITH

(2) SC

ATTACH HEADER TO POST AND POST TO BASE WITH

POST CAP, METAL STRAPS, AND/OR POST BASE.



- 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

EXTERIOR HEADERS

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

UNLESS NOTED OTHERWISE

- 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

FOYER DINING (2) SC BOXED DOWN TRAY (2) 2 X 10 ROOF (2) 2 X 8 (8) SC (2) 2 X 12 (6) SC **COVERED PORCH**

4 X 4 TREATED POST OR EQUIVALENT TYPICAL. -ATTACH RAFTERS TO HEADER WITH HURRICANE PLACE BEAM OVER REARING CONNECTORS (SIMPSON HZ.5 OR EQUIVALENT). ATTACH HEADER TO POST AND POST TO BASE WITH POST CAP, METAL STRAPS, AND/OR POST BASE

(2) 2 X 10

AND FURR BEAM AS DESIRED

(2) 2 X 10

PORCH WITH ELEVATION B



FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0'

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STRUCTURAL Barstow FLOOR

FIRST

SQUARE FOOTAGE HEATED FIRST FLOOR 964 SQ.F TOTAL 2118 SC OPTIONAL UNHEATED UNHEATED

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STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code.

JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no

liability for contractors practices and procedures or safety program. Haynes Home Pians, 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	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconiae and dacke	40	10	1/260

Attics with fixed stairs	40	10	L/360
Balconles 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:

Eminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10^a PSI
Parallel strand lumber (PSI.) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10^a PSI
Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x10^a PSI Install all connections per manufacturers instructions.

TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be

TRUSS AND 1-JOIST MEMBERS: All root truss and 1-joist typouts shall be prepared in accordance with this document. Trusses and 1-joist shall be installed according to the manufacture's specifications, Any change in truss or 1-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 "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" bolls at 2"-0" or enter for spans up to 16"-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" brick 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 Plan, Inc. attention before construction begins. 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.

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.

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.

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

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.

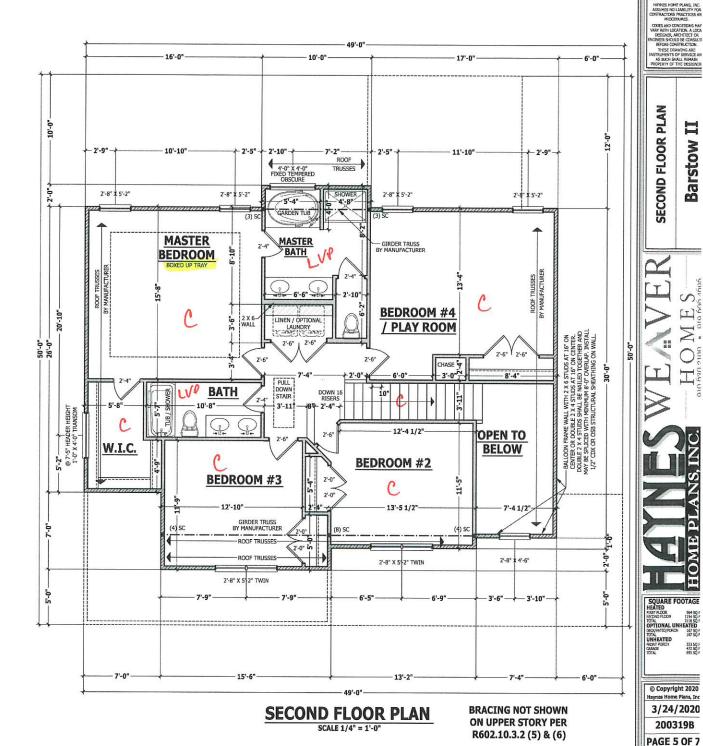
EXTERIOR HEADERS

- (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



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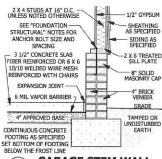
PROCEDURES.

ODES AND COMBITIONS MAY WATH LOCATION. A LOCA DESIDER, ARCHITECT LOCA ENGINEER SHOULD BE CONSULTI BEFORE CONSTRUCTION. THESE DRAWING ARE INSTRUMENTS OF SERVICE AN AS SUCH SHALL REPMAIN PROPERTY OF THE DESIGNER.

8 ROOF PLAN

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

DECK STAIR NOTES

SECTION AM110

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AM110.1 Stairs shall be constructed per Figure AM110. Stringer spans shall be no greater than 7 foot span between supports. Spacing between stringers shall be based upon decking material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step cut and back of stringer. 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

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.

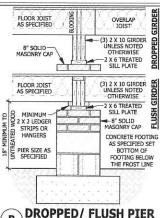
AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall be bolted to the post and the girder/double band with one 5/8 Inch hot dipped galvanized bolt with nut and washer at both ends of the 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 accordance with Figure AM109.2

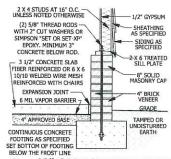
POST SIZE	TRIBUTARY	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE
4 X 4	48 SF	4'-0"	2'-6"	1'-0"
6 X 6	120 SF	6'-0"	3'-6"	1'-8"

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 bracing member per Figure AM109.3.

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



SCALE 3/4" = 1'-0"



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

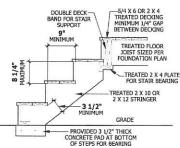


FIGURE AM110 TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

-STONE VEENER

AS SPECIFIED

VAPOR BARRIER

WEEP SCREED

MINIMUM 4" TO

GROUND OR 2"

GRADE

TO PAVEMENT

SHEATHING.

AS SPECIFIED

LATH-

SEE FOUNDATION

FOR FOUNDATION

WEEP SCREED

SCALE 3/4" = 1'-0"

WEEP SCREEDS

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

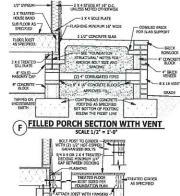
R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 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 harrier shall lap the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed

2 X 4 SILL PLATE SPECIFIED 2 X RIM JOIST FLOOR JOIST AS SPECIFIED 4" CONCRETE BLOCK PORCH HEADER PER -4" BRICK VENEER SEE "FOUNDATION PLAN INSTALLED OVER EXPANSION JOINT STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND -6 MIL VAPOR BARRIER SPACING . 3 1/2" SI AR HEADER AS DESIRED 4" BASE CONTINUOUS CONCRETE 1 X MATERIAL FOOTING AS SPECIFIED TAMPED OR UNDISTURBED SET BOTTOM OF FOOTING AND COLUMN FARTH CRAWL SPACE AT GARGE C SCALE 3/4" = 1'-0"

-1/2" GYPSUM

2 X 4 STUDS AT 16" O.C. — UNLESS NOTED OTHERWISE

SUB FLOOR AS-



OR TREATED 2 X 2 LEDGER G DECK ATTACHMENT

SMOKE ALARMS

R314.1 Smoke detection and notification. All smoke alarms shall be issed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NEPA 77

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 acc

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

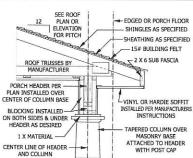
R314.3 Location. Smoke alarms shall be installed in the following

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

 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

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. Wring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.



PORCH HEADER WITH **TAPERED COLUMN**

SCALE 3/4" = 1'-0"

CARBON MONOXIDE ALARMS

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.

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

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 denth 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 stalrways with solid

risers.

R311.7.7 Handralls. Handralls 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. Handrall 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).

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

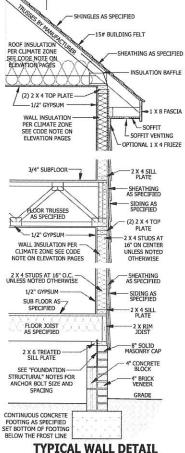
When handrall fittings or bendings are used to provide continuous transition between flights, the transition from handrall to guardrall, or used at the start of a flight, the handrall height at the fittings or bendings shall

be permitted to exceed the maximum height.

R311.7.7.2 Continuity. Handrails for stainways 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. Handrall ends shall be returned or shall terminate in newel posts or safety terminats. Handralls adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the handrails.

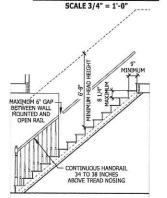
 Handrails shall be permitted to be interrupted by a newel post. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

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



TYPICAL STAIR DETAIL

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY AL DIMENSIONS AND CONDITION BEFORE CONSTRUCTION BEGIN HAYNES HOME PLANS, INC

CODES AND CONDITIONS MAY ARY WITH LOCATION. A LOCA DESIGNER, ARCHITECT OR GINER SHOULD BE CONSULTI BEFORE CONSTRUCTION. THESE DRAWING ARE ISTRUMENTS OF SERVICE AN

AS SUCH SHALL REMAIN ROPERTY OF THE DESIGN

DETAILS

Barstow TYPICAL

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SQUARE FOOTAGE HEATED FIRST FLOOR 964 SQ F SECOND FLOOR 1154 SQ F OPTIONAL UNHEATED 167 SQ F UNHEATED

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