SQUARE FOOTAGE

# FRONT ELEVATION WITH SIDE LOAD GARAGE

SCALE 1/8" = 1'-0"

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

MEAN ROOF HEIGHT 25'-8	HEIGHT TO RIDGE 30'-0"		
CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
ENESTRATION U-FACTOR	0.35	0.35	0.35
KYLIGHT U-FACTOR	0.55	0.55	0.55
GLAZED FENESTRATION SHGC	0.30	0.30	0.30
TEILING R-VALUE	38 or 30ct	38 or 30cl	38 or 30d
WALL R-VALUE	15	15	19
LOOR 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 INS	JUATION OR R-13 C	AVITY INSULATION	

\*\* INSULATION DEPTH WITH MONOUTHIC 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 MULE) EXPOSURE "8"

COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS.

MEAN ROOF	UP T	O 30.	30-1	10 35	35-1	TO 40	40'-1"	10 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
DESIGNED FOR WIN								
MEAN ROOF		O 30						TO 451
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	-26.2	20.4	-26.9

### **AIR LEAKAGE**

#### Section N1102.4

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N1102 A 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, weathe 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.

Capping and sealing shafts or chases, including flue shafts. 3. Capping and sealing soffit or dropped ceiling areas

### **ROOF VENTILATION**

#### SECTION RADA

SECTION ROBUS

R805.1 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 Intily inaction. Vertilation operating a least dimension larger than 1/4 linch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, herdware 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.

R808.2 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 comice 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 = 1558 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 10.39 SQ.FT. WITH 50% TO 80% OF VENTING 3'-0" AROVE FAVE: OR WITH O ASS 1 OR 11 VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 5.16 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

R312.2 Height. Required guards at open-sided walking surfaces, including stalls, porches, balconies or landings, shall be not less than 36 inches (914). mm) high measured vertically above the adjacent welking 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

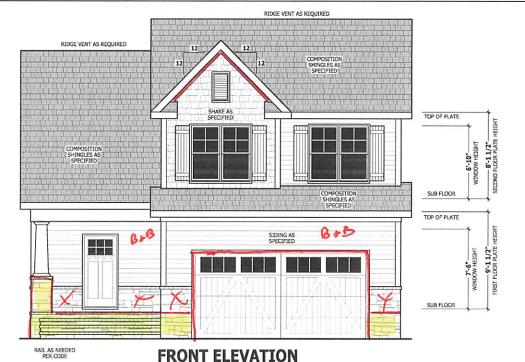
2. Where the top of the guard also serves as a handrail on the open sides of stairs, the top of the guard shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

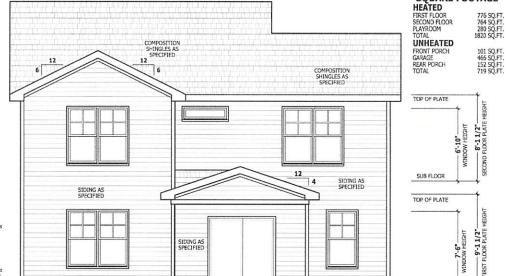
R312.3 Opening limitations, Required guards shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 inches (102 mm)in diameter

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

and oction rail of a guard, stail not allow passage or a sphere of incres ( 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.





SCALE 1/4" = 1'-0"

RIDGE VENT AS REQUIRED

**REAR ELEVATION** 

SCALE 1/4" = 1'-0"

PARGE

SUB FLOOR

HAYNES HOME PLANS, INC. ASSUMES NO LEABELITY FOR ENTRACTORS PRACTICES AN PROCEDURES.

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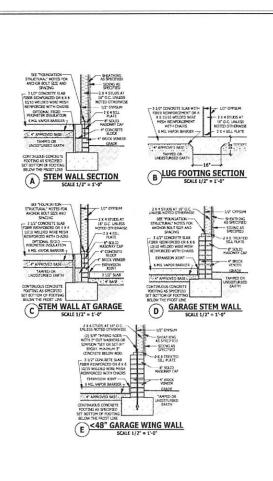


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101 SQF 466 SQF 157 SQF 719 SQF

TOTAL UNHEATED FRONT PORCH GAPAGE REAR POPCH

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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 extended 2" to either side of supported wall

GIRDERS: (3) 2 x 10 girder unless noted otherwise.

PIERS: 16" X 16" plers 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.

minimum two anchor boxs per plate.

130 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum

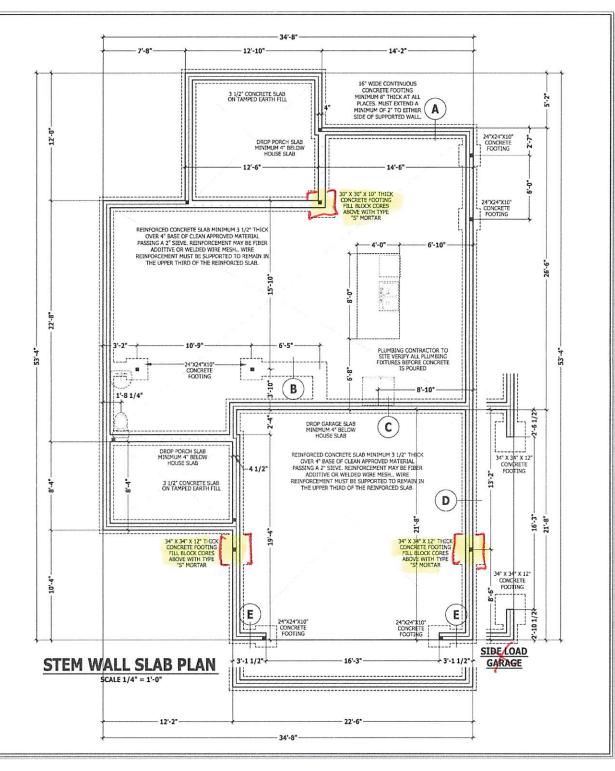
15", maximum 4"-0" on center, within 12" of plate ends, and minimum two

anchor botts per plate.

CONCRETE: Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5' slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken

from the exit end of the pump.

SOILS: Allowable soil bearing pressure assumed to be 2000 PSF. The contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.



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PLAN GASTON FOUNDATION 里

SOUARE FOOTAGE 776 SQ.FT. 764 SQ.FT. 280 SQ.FT. 1820 SQ.FT. UNHEATED 101 SQ.FT 466 SQ.FT 157 SQ.FT 719 SQ.FT

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FIRST FLOOR PLAN

GASTON 岩上

SQUARE FOOTAGE HEATED 775 SQ F 784 SQ F 280 SQ F 1820 SQ F

UNHEATED FRONT PORCH GAPAGE REAR PORCH 101 SQ FT 466 SQ FT 157 SQ FT 719 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 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	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
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

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

#### ENGINEERED WOOD BEAMS

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>4</sup> PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10<sup>6</sup> PSI Leminated strand lumber (LSL) Fib=2300 PSI, Fy=400 PSI, E=1.55x106 PSI
Leminated strand lumber (LSL) Fib=2350 PSI, Fy=400 PSI, E=1.55x106 PSI
Linstall 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" strel 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 toist spacing, minimum 5/8" thick for 19.2" on center toist spacing, and minimum 3/4" thick for 24" on center loist spacing. ROOF SHEATHING: OSB or CDX roof sheathing minimum 3/8" thick. CONCRETE AND SOILS: See foundation notes.

### **ROOF TRUSS REQUIREMENTS**

TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Havnes 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 Havnes 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 upilft 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 atherwise.

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

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

### **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

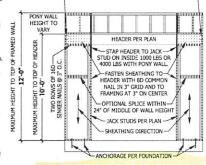
GB to be fastened per table R602.10.1.
REQUIRED LENGTH OF BRACING: Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 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

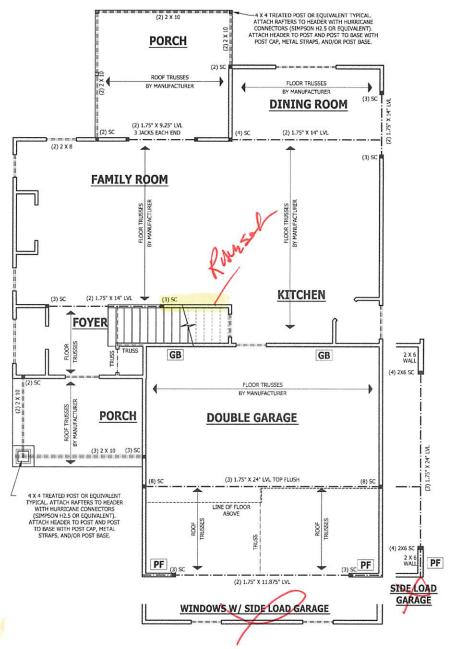
CS-WSP: Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or 8d/2 1/2" iong x 0.113" diameter). CS-SFB: Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports 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



#### PORTAL FRAME AT OPENING ( METHOD PF PER FIGURE AND SECTION R602.10.1 )

SCALE 1/4" = 1'-0"



FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

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CODES AND CONDITIONS MAY

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FLOOR STRUCTURAL GASTON

FIRST

SQUARE FOOTAGE HEATED UNHEATED FRONT PORCH

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be construed to supersede the code. TOR CITE DEACTICES AND SAFETY: Hauman Homa Diane Inc. assumes no liability for contractors practices and procedures or safety program. Havnes 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

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DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(U)
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		
Guardrall 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 SPE #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

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nt Company,

Laminated veneer lumber (LVL) = Fb=2500 PSI, Fy=285 PSI, E=1.9x106 PSI Parallel strand imber (PSL) = Fh= 2900 PSL Fv= 290 PSL E= 2.0x106 PSL Perais stand under (PSL) = PS-RM PSL PSL PSL PSL ESLEVIBLES.

Laminated strand lumber (LSL) PS-2230 PSL, FV-400 PSL E-1.55x106 PSL

Install all connections per manufactures 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-loist layout shall be coordinated with Havnes Homes Plans. Inc. LINTELS: Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" stee 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

CONCRETE AND SOILS: See foundation notes

### ATTIC ACCESS

#### SECTION R807

RB07.1 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 dear 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 a 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

### **EXTERIOR HEADERS**

- (2) 2 X 6 WITH 1 JACK STUD EACH END UNLESS NOTED OTHERWISE . KING STIIDS EACH END DED TARIE RELOW HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16'

### INTERIOR HEADERS

- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END LINI ESS 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 Plan, Inc. attention before construction begins. KNEE WALL AND CEILING HEIGHTS. All finished knee wall belobts and celling 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 celling 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 atherwise

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

### WALL THICKNESSES

Exterior walls and walls adjacent to a parage 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.

10'-1" - 2'-10 2'-8" X 5'-2" TWIN ROOF TRUSSES MASTER BEDROOM 4'-0" X 1'-0" 2'-6" X 5'-2" TWIN (2) 2 X 10 2 JACKS EACH END (2) 2 X 10 2 JACKS EACH END CIDDED TRUCK (4) SC 14'-2" 14'-2" **PLAY ROOM** W.I.C. LINEN 2 X 6 WALL 2'-6" 4'-0" X 1'-0" MASTER SET AT 7'-5" **BATH** HEADER HEIGH 2'-6" | 2'-6' 10'-10 53 4'-0" X 1'-0" RATI OR HALF WALL LINE TRANSOM SET AT 7'-5" STORAGE BATH HATCHED WALLS — INDICATED LOAD BEARING AND EXTERIOR WALLS WHERE HEADERS 2'-3 1/2" MUST BE INSTALLED. BEDROOM #2 BEDROOM #3 10'-10" GIRDER TRUSS BY MANUFACTURER (3) 90 (3) SC - POOF TRUSSES 2'-8" X 5'-2" TWIN 2'-8" X 5'-2" TWIN (2) 2 X 12 **BRACING NOT SHOWN** 11'-2" ON UPPER STORY PER R602.10.3.2 (5) & (6) 12'-2" 22'-6"

SECOND FLOOR PLAN

20'-2"

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PROCEDURES. CODES AND CONDITIONS MAY MAY WITH LOCATION, A LOCA

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PLAN GASTON SECOND FLOOR 罪

SQUARE FOOTAGE 7% SQ F1 764 SQ F1 280 SQ F1 1820 SQ F1 TOTAL UNHEATED FRONT PORCH GAPACE REAR PORCH TOTAL 101 SQ F1 466 SQ F1 157 SQ F1 719 SQ F1

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### EXTERIOR WINDOWS AND DOORS

#### SECTION R617

R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in walls. Windows and doors shall be installed and flashed in accordance with the fenestration manufacturer's written installation instructions. Window and door openings shall be flashed in accordance with Section R703.8. Written installation instructions shall be provided by the fenestration manufacturer for each window

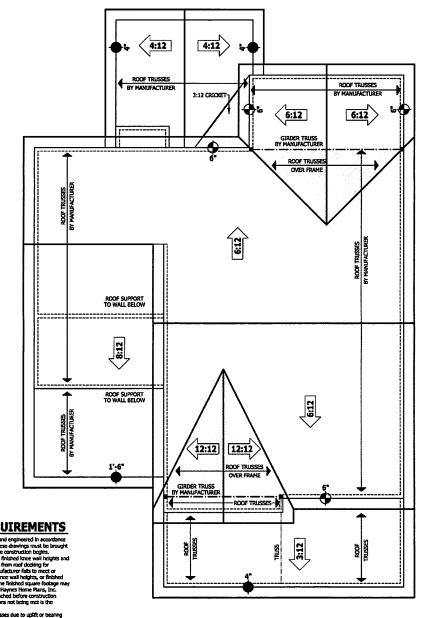
R612.2 Window sills. In dwelling units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere where such openings are located within 24 inches (610 mm) of the finished floor.

1. Windows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.

2. Openings that are provided with window fall prevention devices that comply with Section

3. Openings that are provided with fall prevention devices that comply with ASTM E 2090.

 Windows that are provided with opening limiting devices that comply with Sarting R612.4.
 R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.



**ROOF TRUSS REQUIREMENTS** 

TRUSS DESIGN. Trusses to be designed and engineeral in accordance with these drawings. Any versistion with these drawings must be brought to layers know pain, and established before construction bogins.

INSEE WALL ARD CELLING NEIGHTS. All finished ince wash heights and calling heights are shown furred down 10° from road dodding for insulation. If for any reason the truss manufacture rifes to meet or exceed designated hach heights, finished ince wash heights and calling heights also when on these deswings the finished square floatage may vary. Any discrepancy must be brought to Haymas Home Plans, Inc. sateroine, so a sustaine suchain can be reached before construction logists. Any version due to these conditions not being main to the reasonability of the busin smartfacturer.

ANCHORAGE. All required anchors for usees due to upfilt or bearing shall most the engineenist as specified on the trus scrematics.

BEASITIOR, All trusses shall be designed for bearing on SPF #2 pistes or ledgers unless noted otherwise.

educations for discuss sale to design or observing on SPF #2 places or leaders unless noted otherwise.

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

HEEL HEIGHT ABOVE FIRST PLOOR PLATE

HEEL HEIGHT ABOVE SECOND FLOOR PLATE

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

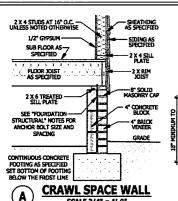
I GASTON ROOF PLAN THE

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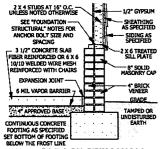
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SCALE 3/4" = 1'-0"



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

## **DECK STAIR NOTES**

SECTION AM110

AM110.1 Stairs shall be constructed per Figure AM110. Stringer spens shall be no greater than 7 foot span between supports. Specing between stringers shall be based upon deciding material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step out and back of stringer d headers shall shall be attached with 3/8 Inch galvanized bots with nuts and washers to securely

### **DECK BRACING**

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

AM109.3.1. When the deck floor height is less than 4'-0" ove finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section AM104, lateral bracing is not required.

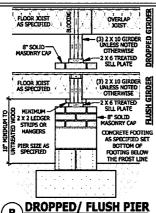
AM109.1.2. 4 x 4 wood knee braces may be provided or

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 botted 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 Floure AM109.1

AM109.1.3. For forestanding 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	HAX POST HEIGHT	EHBEDKENT DEFTH	CONCRETE DIAMETER
4X4	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 perpondicular directions for freestanding decks or parallel to the structure at the exterior column line for strached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot dipped zed bolt with nut and washer at each end of ch brading member per Figure AMIC AM109.1.5. For embedment of piles in Coastal Regions

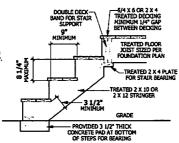


В SCALE 3/4" = 1'-0" 2 X 4 STUDS AT 16° O.C. — UNLESS NOTED OTHERWISE 1/2" GYPSUN (2) 5/8" THREAD RODS WITH 2" CUT WASHERS OF EPOXY, MINIMUM 3\* CONCRETE BELOW ROD. 2 X 6 TREATED SILL PLATE 3 1/2" CONCRETE SLAR FIBER REINFORCED OR 6 X 6 10/10 WELDED WIRE MESH ---- 8" SOLID MASONRY CAP REINFORCED WITH CHAIRS EXPANSION JOINT 4" BRICK VENEER 6 MIL VAPOR BARRIER CRADE 4" APPROVED BASE" TAMPED OR

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

CONTINUOUS CONCRETT

SET BOTTOM OF POOTING



### **FIGURE AM110** TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

#### STONE VEENER AS SPECIFIED VAPOR BARRIER WEED SCREEN MINIMUM 4" TO GROUND OR 2

TO PAVEMENT SEE FOUNDATION FOR FOUNDATION GRADE

SHEATHING-AS SPECIFIED

LATE

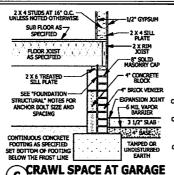
**WEEP SCREED** SCALE 3/4" = 1'-0"

# **WEEP SCREEDS**

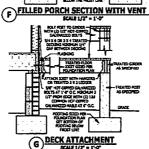
EARTH

All weep screeds and stone veneer to be per the 2012 North Carolina Residential

R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), n-resistant ween screed or plastic extraorresistant weep screet or passe 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 izp the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed



SCALE 3/4" = 1'-0" - 2 X 4 STRES AT 16" O.C. - 2 X 4 STALE PLATE SUBTROOP AS SPECIFIED CONCR. 2 X 6 TREATES message. CRUC (2) & CORALGATED FIFES - 8 X 18 YOU F CONCETT APPROVED FELL CRACE



### **SMOKE ALARMS**

SECTION 8314

listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning

or provisors of NFPA 72.

R314.2 Smolar detaction systems. Household fire alarm systems installed in accordance with NFPA 72 that include smoke starms, a combination of smoke detactor and suddle notification device. installed as recurred by this section for smoke alarms, shall be recursor as required by this section for smooth 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 suctive notification devica(s), it will become a permanent finite of the occupancy at owned by the homeowner. The system shall be monitored by an ed supervising station and be maintained in accordance with NEPA 77.

lion: Where smoke alarms are provided meeting the requirements of Section R314.4.
R324-3 Location. Smoke elements that be installed in the following

locations:

1. In each slooping room.

2. Outside each separate slooping area in the Immediate vicinity of

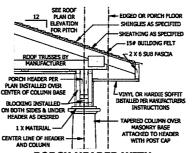
the bodizational.

3. On each additional story of the dwellings including besoments and helistable situs (filestreal) but not including carely speace, unstrabilitable infribations) attempting until within situation (unfilmsheet) assistant unstrabilitable (unfilmsheet) and electrical production of the displaced tender of the displaced between the di below the upper level.

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

the same in the enrollment text.

REJAA Power source. Snoke alarms shall recove their primary power from the budding wiring when such withing is served from a commercial source, and when primary power is interrupted, shall recove power from a buttery. Wiring shall be permanent and without a disconnecting withor other than those required for ent protection. Smoke starms shall be inte



## **PORCH HEADER WITH TAPERED COLUMN**

SCALE 3/4" = 1'-0"

### **CARBON MONOXIDE ALARMS**

SECTION R315

R315.1 Carbon de alarms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each

separate aborting area in the immediate vicinity of the bodroots) as directed by the latim manufacturer. RS15.2 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 mores are added a created, carbon monoxide alarms shall be provided in accordance with Section

R315.3 Alasm requirements. The required carbon monoxide alarms shall be was as a seem requirements. The required carbon monotone amins shall be audible in all bedrooms over background notes levels with all intervening doors closed. Single station carbon monotode alarms shall be listed as complying with UI, 2014 and shall be installed in accordance with this code and the

## STAIRWAY NOTES

R311.7.2 Has room. The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches (2022 mm) measured vertically from the sloped line adjusting the tread nosing or from the floor surface of the landing or platform on their portion of the stainway. 8311.7.4 Stair breads and risons. Stair treads and risons shall meet the

ents of this section. For the purposes of this section all dimensioned surfaces shall be exclusive of carpets, rugs or runners. RS11.7A.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 adjacent treads.

the adjoinst treads. The dispits. 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 adjoinst treads and at a right angle to the tread's leading edge. Whiteir treads shall have a minimum tread depth of the tread's leading edge. Whiteir 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. 8311.7.4.3 Profile. The radius of curvature at the rosing shall be no greater than 9/15 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 stainways with solid

R311.7.7 Handralis, Handralis shall be provided on at least one side of each IRSILIZ/ Interdets Hendrets shall be provided on at less one side of each continuous run of treads or flight with four or more reserRSILIZ/A Height. Hendrall height, measured vertically from the ploped plane adjoining the tread nosing, or firsth surface of ramp slope, shall be not less than 34 Inches (645 mm) and not more than 38 Inches (64

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

lowest trad.

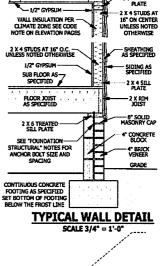
2. When hanning fittings or bendings are used to provide continuous transition between flights, the transition from handrals to quadrals, or used at the sizer of a flight, the handral heigh at the fittings or bendings shall be permitted to second the maximum height.

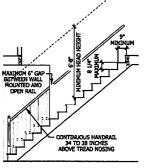
2. State of the flight, from a poten directly above the top rises of the flight to the flight, from a poten directly above the top rises of the flight to extinute or of the flight continuous flight to extinute or of the flight continuous flight to extinute or of the flight continuous flight to extinute or of the between the wall and the handralis.

andrails 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 troad.
 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

PITCH PER ROOF PLAN OR ELEVATIONS - SKINGLES AS SPECIFIED 15# BUILDING FELT ROOF INSULATION PER CLIMATE ZONE SHEATHING AS SPECIFIED SEE CODE NOTE ON **ELEVATION PAGES** INSULATION BAFFLE (2) 2 X 4 TOP PLATE-- 1/2" GYPSLIN X S FASCIA WALL INSULATION PER CLIMATE ZONE -90FFIT SEE CODE NOTE ON - SOFFIT VENTING **ELEVATION PAGES** -OPTIONAL 1 X 4 FRIEZE 3/4" SUBPLOOP SHEATHING AS SPECIFIED LOOR TRUSSES AS SPECIFIED 2) 2 X 4 TOP PLATE - 1/2" GYPSUM X 4 STUDS AT WALL INSULATION PER 16" ON CENTER CLIMATE ZONE SEE CODE NOTE ON ELEVATION PAGES CONFERMICE





TYPICAL STAIR DETAIL

HAVRES HOME PLANS, INC ISSUMES NO LIABILITY FO INTRACTORS PRACTICES A PROCEDURES. CODES AND CONDITIONS HA NEY WITH LOCATION, A LOC SER ARCHITECT THESE DRAWING ARE

DETAILS GASTON

**IYPICAL** ш Ξ

SCHARF FOOTAGE 78 ST TOTAL LINCHEATED FRORT FORCH GARACE BLAR FORCH 111 S.F.

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