

# PLANS DESIGNED TO THE .018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

|                                                                                                                                                                    |            |                         |               |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|---------------|---------------|
| MEAN ROOF HEIGHT: 17'-0"                                                                                                                                           |            | HEIGHT TO RIDGE: 24'-0" |               |               |
| CLIMATE ZONE                                                                                                                                                       | ZONE 3A    | ZONE 4A                 | ZONE 5A       |               |
| PENETRATION U-FACTOR                                                                                                                                               | 0.35       | 0.35                    | 0.35          |               |
| SKYLIGHT U-FACTOR                                                                                                                                                  | 0.55       | 0.55                    | 0.55          |               |
| GLAZED PENETRATION SHGC                                                                                                                                            | 0.30       | 0.30                    | 0.30          |               |
| CEILING R-VALUE                                                                                                                                                    | 38 or 30c1 | 38 or 30c1              | 38 or 30c1    |               |
| WALL R-VALUE                                                                                                                                                       | 13         | 13                      | 13            |               |
| FLOOR R-VALUE                                                                                                                                                      | 19         | 19                      | 30            |               |
| * BASEMENT WALL R-VALUE                                                                                                                                            | 5/13       | 10/15                   | 10/15         |               |
| ** SLAB R-VALUE                                                                                                                                                    | 0          | 10                      | 10            |               |
| * CRANK SPACE WALL R-VALUE                                                                                                                                         | 5/13       | 10/15                   | 10/15         |               |
| * "10/15" 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 (31 FASTEST MILE) EXPOSURE "B"                                                                                   |            |                         |               |               |
| COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS                                                                                                              |            |                         |               |               |
| MEAN ROOF:                                                                                                                                                         | UP TO 30"  | 30"-1" TO 35"           | 35"-1" TO 40" | 40"-1" TO 45" |
| ZONE 1                                                                                                                                                             | 14.2 -15.0 | 14.9 -15.8              | 15.5 -16.4    | 15.9 -16.8    |
| ZONE 2                                                                                                                                                             | 14.2 -18.0 | 14.9 -18.9              | 15.5 -19.6    | 15.9 -20.2    |
| ZONE 3                                                                                                                                                             | 14.2 -18.0 | 14.9 -18.9              | 15.5 -19.6    | 15.9 -20.2    |
| ZONE 4                                                                                                                                                             | 15.5 -16.0 | 16.3 -16.8              | 16.9 -17.4    | 17.4 -18.0    |
| ZONE 5                                                                                                                                                             | 15.5 -20.0 | 16.3 -21.0              | 16.9 -21.8    | 22.4 -23.4    |

## ROOF VENTILATION

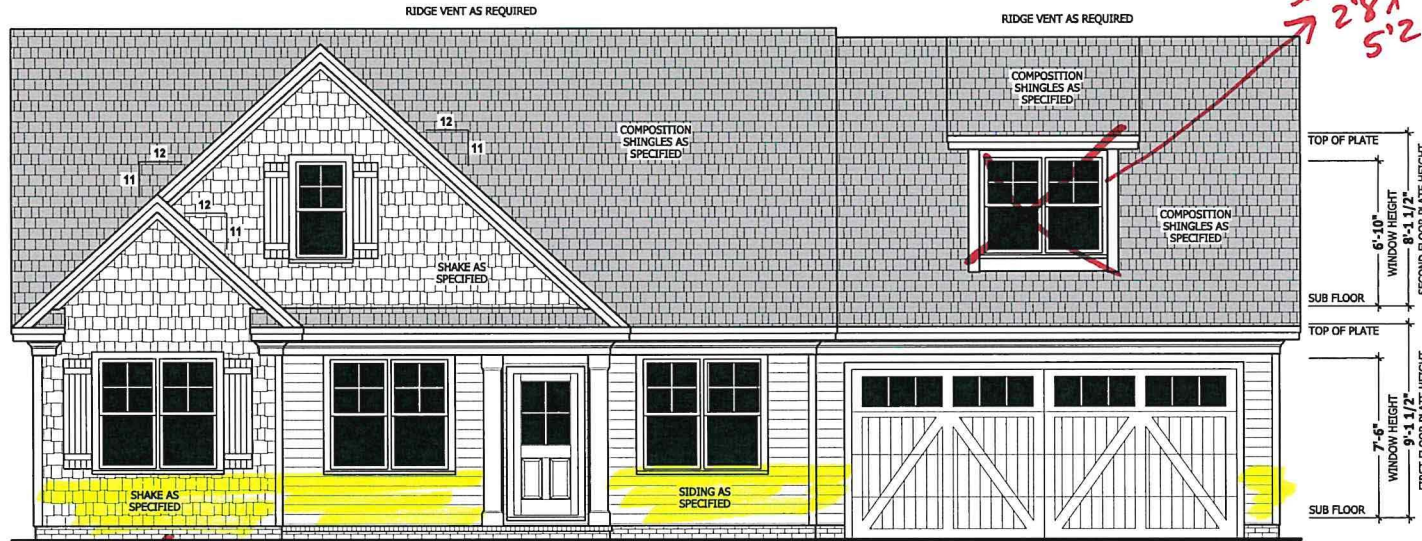
**SECTION R806**  
**R806.1** Ventilation required. Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.  
**R806.2** Minimum area. The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/200 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.  
**Exceptions:**  
 1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only.  
 2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit vent only.  
 SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,465 SQ. FT.  
 NET FREE CROSS VENTILATION NEEDED:  
 WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 16.43 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 = 8.22 SQ. FT.

## GUARD RAIL NOTES

**SECTION R312**  
**R312.1** Where required. Guards shall be located along open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.  
**R312.2** Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads.  
**Exceptions:**  
 1. Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.  
 2. Where the top of the guard also serves as a handrail on the open sides of stairs, the top of the guard shall not be 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 43/8 inches (111 mm) in diameter.

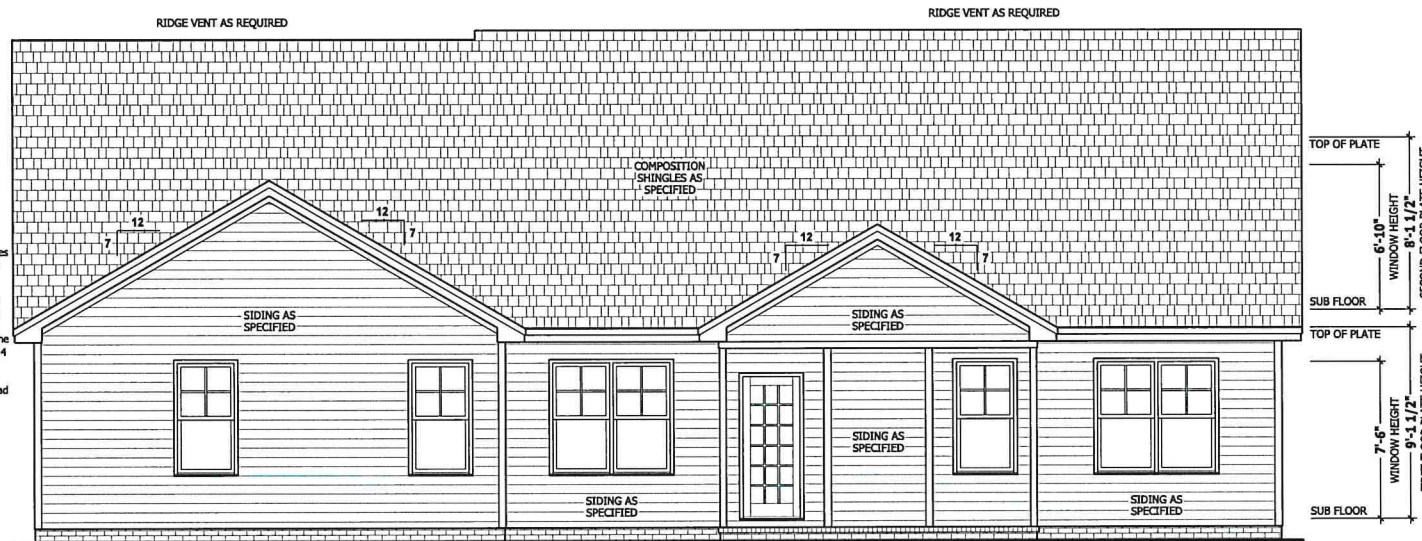
## AIR LEAKAGE

**Section N1102.4**  
**N1102.4.1** Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code:  
 1. Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.  
 2. Capping and sealing shafts or chases, including fire shafts.  
 3. Capping and sealing soffit or dropped ceiling areas.



## FRONT ELEVATION

SCALE 1/4" = 1'-0"



## REAR ELEVATION

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES. CODES AND CONDITIONS MAY VARY WITH LOCATION, A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

FRONT & REAR ELEVATIONS

Marie

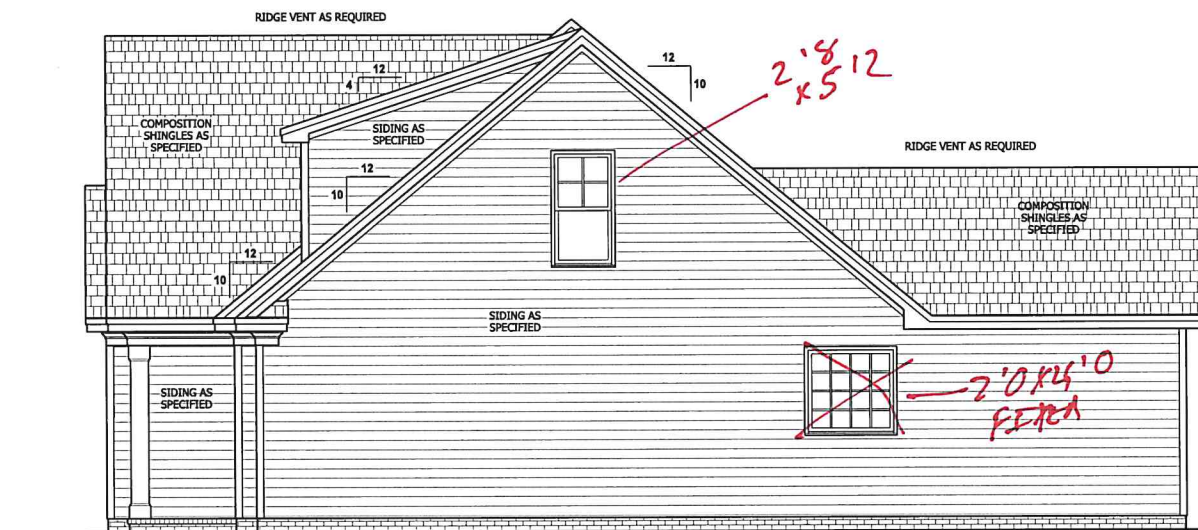
Thompson Homebuilders, LLC  
 Raeford, NC

**HAYNES**  
 HOME PLANS, INC.  
 P.O. Box 702, Wake Forest, NC 27588 919-435-6180 Fax 919-435-6386

|                   |              |
|-------------------|--------------|
| SQUARE FOOTAGE    |              |
| HEATED            | 1711 SQ. FT. |
| FIRST FLOOR       | 361 SQ. FT.  |
| SECOND FLOOR      | 350 SQ. FT.  |
| TOTAL             | 711 SQ. FT.  |
| UNHEATED          | 85 SQ. FT.   |
| FRONT PORCH       | 400 SQ. FT.  |
| GAZEBO            | 600 SQ. FT.  |
| TOTAL             | 1400 SQ. FT. |
| UNHEATED OPTIONAL | 140 SQ. FT.  |
| REAR PORCH        | 140 SQ. FT.  |
| TOTAL             | 1540 SQ. FT. |

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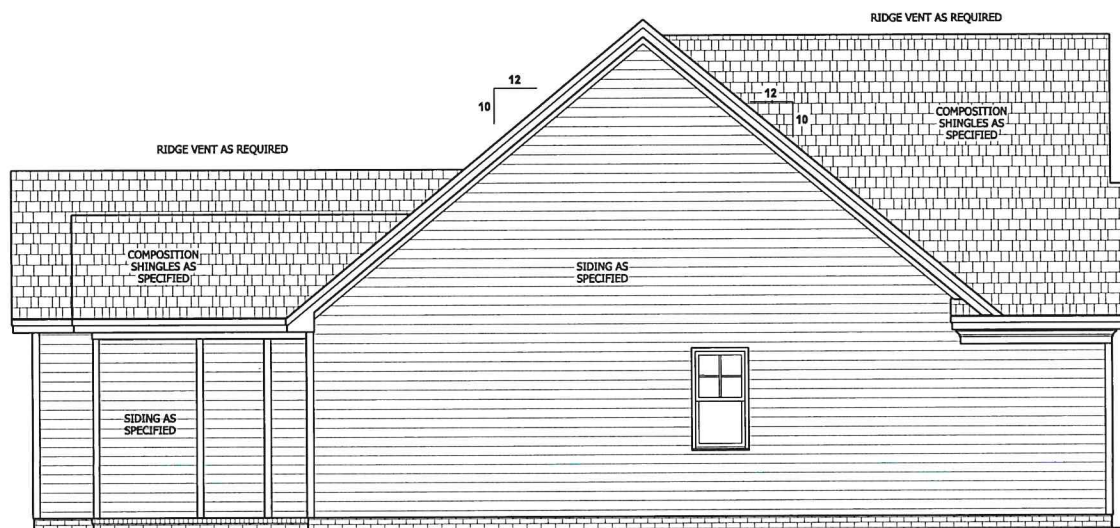
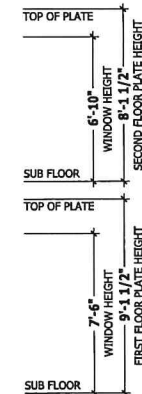




RAIL AS NEEDED  
PER CODE

## RIGHT SIDE ELEVATION

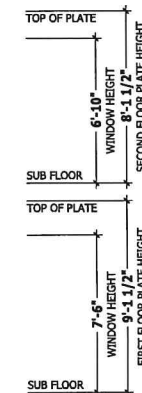
SCALE 1/4" = 1'-0"



OPTIONAL PORCH

## LEFT SIDE ELEVATION

SCALE 1/4" = 1'-0"



PURCHASER MUST VERIFY ALL  
DIMENSIONS AND CONDITIONS  
BEFORE CONSTRUCTION BEGINS.  
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LEFT & RIGHT ELEVATIONS

Marie

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| SQUARE FOOTAGE    |             |
|-------------------|-------------|
| HEATED            |             |
| FIRST FLOOR       | 1711 SQ.FT. |
| SECOND FLOOR      | 361 SQ.FT.  |
| TOTAL             | 2072 SQ.FT. |
| UNHEATED          |             |
| REAR PORCH        | 85 SQ.FT.   |
| CARAGE            | 400 SQ.FT.  |
| TOTAL             | 485 SQ.FT.  |
| UNHEATED OPTIONAL |             |
| REAR PORCH        | 140 SQ.FT.  |
| TOTAL             | 140 SQ.FT.  |

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## ATTIC ACCESS

### SECTION R807

**R807.1 Attic access.** An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m<sup>2</sup>) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

### Exceptions:

1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.
2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

## DWELLING / GARAGE SEPARATION

REFER TO SECTIONS R302.5, R302.6, AND R302.7

**WALLS.** A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.

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

**CEILINGS.** A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable rooms above the garage. If there are habitable rooms above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling.

**OPENING PENETRATIONS.** Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

**DUCT PENETRATIONS.** Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

**OTHER PENETRATIONS.** Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

### SQUARE FOOTAGE

#### HEATED

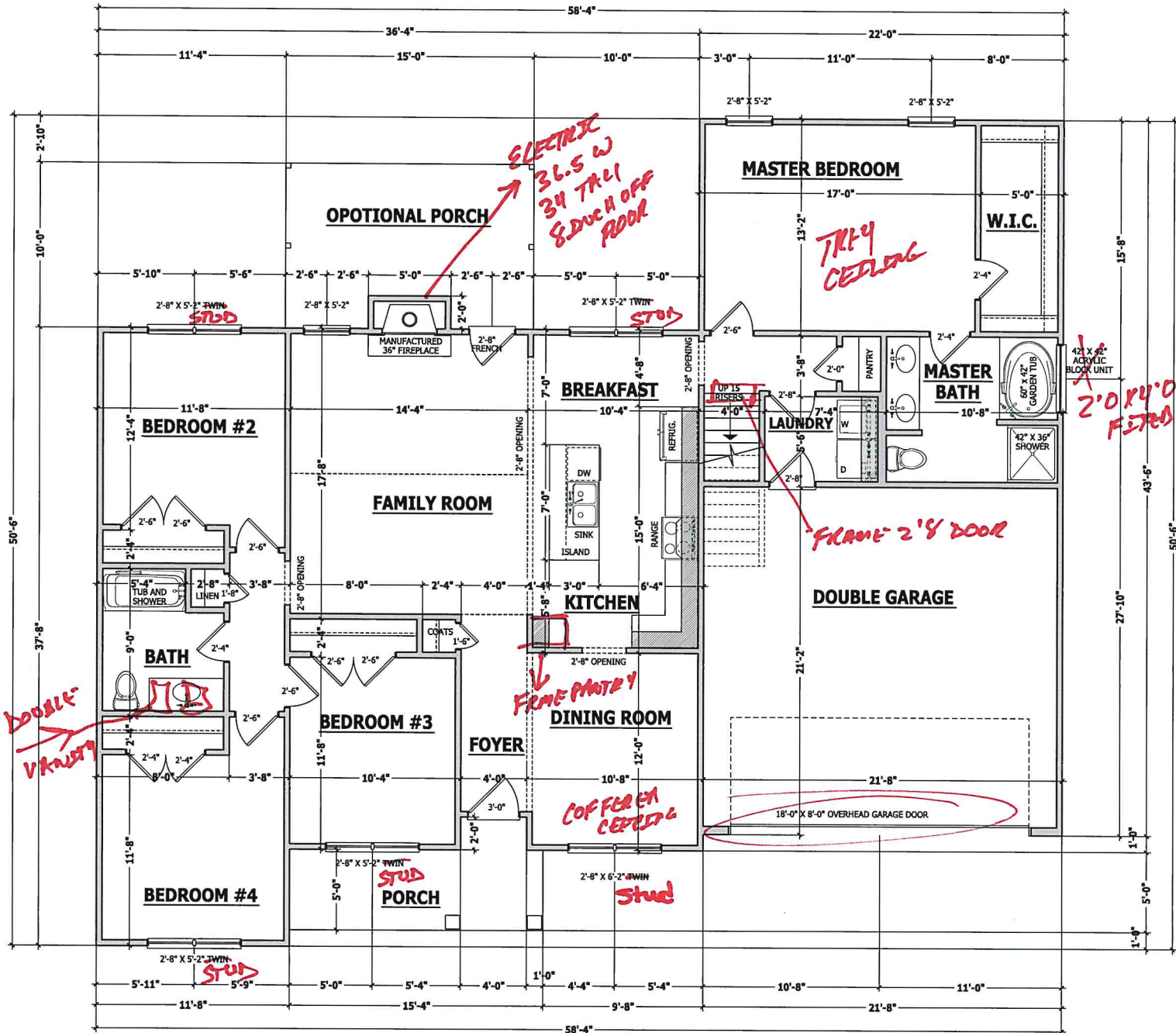
|              |              |
|--------------|--------------|
| FIRST FLOOR  | 1711 SQ. FT. |
| SECOND FLOOR | 301 SQ. FT.  |
| TOTAL        | 2012 SQ. FT. |

#### UNHEATED

|             |             |
|-------------|-------------|
| FRONT PORCH | 85 SQ. FT.  |
| GARAGE      | 459 SQ. FT. |
| TOTAL       | 544 SQ. FT. |

#### UNHEATED OPTIONAL

|            |             |
|------------|-------------|
| REAR PORCH | 140 SQ. FT. |
| TOTAL      | 140 SQ. FT. |



## FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES. CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL RESIDENTIAL ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN THE PROPERTY OF THE DESIGNER.

FIRST FLOOR PLAN

Marie

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P.O. BOX 102, WILKE GREEN, NC 27258, 919-455-1807 FAX 919-455-1085

| SQUARE FOOTAGE    |              |
|-------------------|--------------|
| HEATED            |              |
| FIRST FLOOR       | 1711 SQ. FT. |
| SECOND FLOOR      | 301 SQ. FT.  |
| TOTAL             | 2012 SQ. FT. |
| UNHEATED          |              |
| FRONT PORCH       | 85 SQ. FT.   |
| GARAGE            | 459 SQ. FT.  |
| TOTAL             | 544 SQ. FT.  |
| UNHEATED OPTIONAL |              |
| REAR PORCH        | 140 SQ. FT.  |
| TOTAL             | 140 SQ. FT.  |

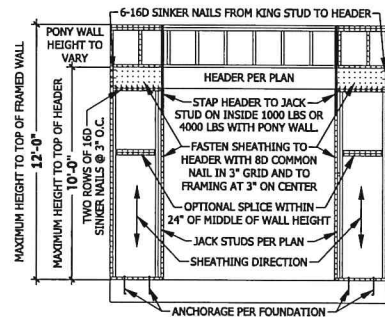
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**PF PORTAL FRAME AT OPENING**  
(METHOD PF PER FIGURE AND SECTION R602.10.1)  
SCALE 1/4" = 1'-0"

## 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.

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

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

**ENGINEERED WOOD BEAMS:** Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>6</sup> PSI  
Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10<sup>6</sup> PSI  
Laminated strand lumber (LSL) = Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> PSI  
Install all connections per manufacturer's instructions.

**TRUSS AND JOIST MEMBERS:** All roof truss and I-joint layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacturer's specifications. Any change in truss or I-joint layout shall be coordinated with Haynes Home Plans, Inc.

**LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for spans 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 7/16" thick.  
**CONCRETE AND SOILS:** See foundation notes.

## ROOF TRUSS REQUIREMENTS

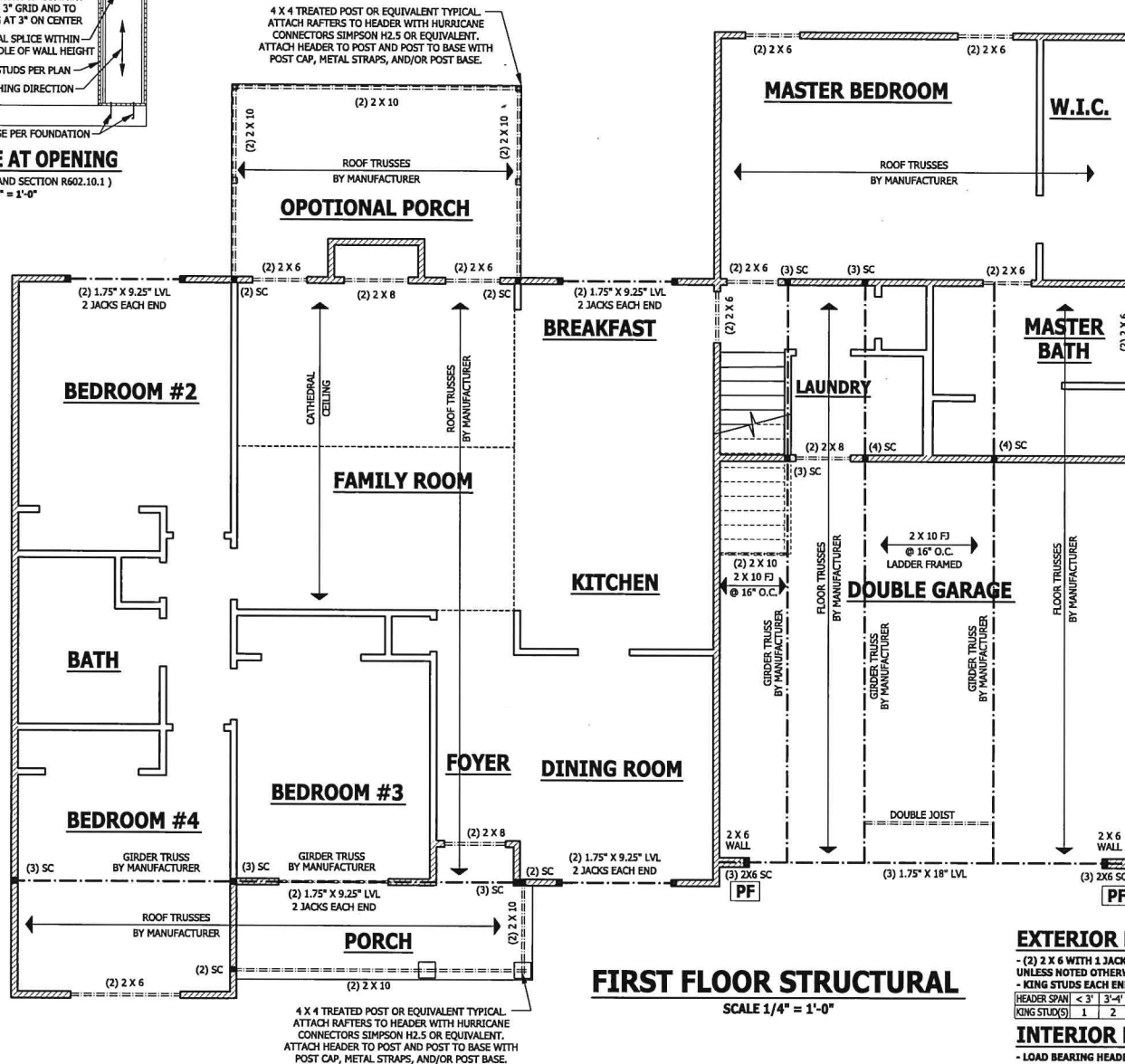
**TRUSS DESIGN.** Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins.

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

**ANCHORAGE.** All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics.

**BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

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



## FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

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THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

**FIRST FLOOR STRUCTURAL**  
**Marie**

**Thompson Homebuilders, LLC**  
Raeftord, NC

**HAYNES**  
**HOME PLANS, INC.**  
P.O. Box 702, Wile Forest, NC 27388 919-435-6180 Fax 1-866-891-0395

| SQUARE FOOTAGE                     |             |
|------------------------------------|-------------|
| FIRST FLOOR                        | 1711 SQ.FT. |
| SECOND FLOOR                       | 361 SQ.FT.  |
| TOTAL                              | 2072 SQ.FT. |
| UNHEATED FRONT PORCH               | 88 SQ.FT.   |
| GAUGE                              | 409 SQ.FT.  |
| TOTAL UNHEATED OPTIONAL REAR PORCH | 544 SQ.FT.  |
| TOTAL                              | 1460 SQ.FT. |

## 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 STUDS  | 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

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**TRUSS DESIGN.** Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be approved by Haynes Home Plans, Inc. after notification before construction begins.

**KNEE WALL AND CEILING HEIGHTS.** All finished knee wall heights and ceiling heights must be as shown on these drawings. If for any reason the truss manufacturer fails to meet or exceed designated head heights, finished knee wall heights must be as shown. If shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a mutual agreement can be reached before construction begins. Any variation due to these conditions not being met is the responsibility of the truss manufacturer.

**ANCHORAGE.** All required anchors for trusses to be uplift or bearing shall meet the requirements as specified on the truss schedule.

**BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

**ROOFING.** See the Roofing System. See elevation page(s) for plate heights and floor system thicknesses.

**SECTION 8807**  
**8807.1 Attic access.** An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m<sup>2</sup>) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located within 10 feet (3048 mm) of the access 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 M105.1.3 for access requirements where mechanical equipment is located in attics.

**Exceptions:**

1. Concrete 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.



SCALE 1/4" = 1'-0"

**PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS.**

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## SECOND FLOOR PLAN

## Marie

**Thompson Homebuilders, LLC**  
Raeferd, NC

# HAYNES

| SQUARE FOOTAGE           |             |
|--------------------------|-------------|
| <b>HEATED</b>            |             |
| FIRST FLOOR              | 1711 SQ.FT. |
| SECOND FLOOR             | 361 SQ.FT.  |
| TOTAL                    | 2012 SQ.FT. |
| <b>UNHEATED</b>          |             |
| FRONT PORCH              | 85 SQ.FT.   |
| GARAGE                   | 459 SQ.FT.  |
| TOTAL                    | 544 SQ.FT.  |
| <b>UNHEATED OPTIONAL</b> |             |
| REAR PORCH               | 140 SQ.FT.  |
| TOTAL                    | 140 SQ.FT.  |

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## ROOF TRUSS REQUIREMENTS

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

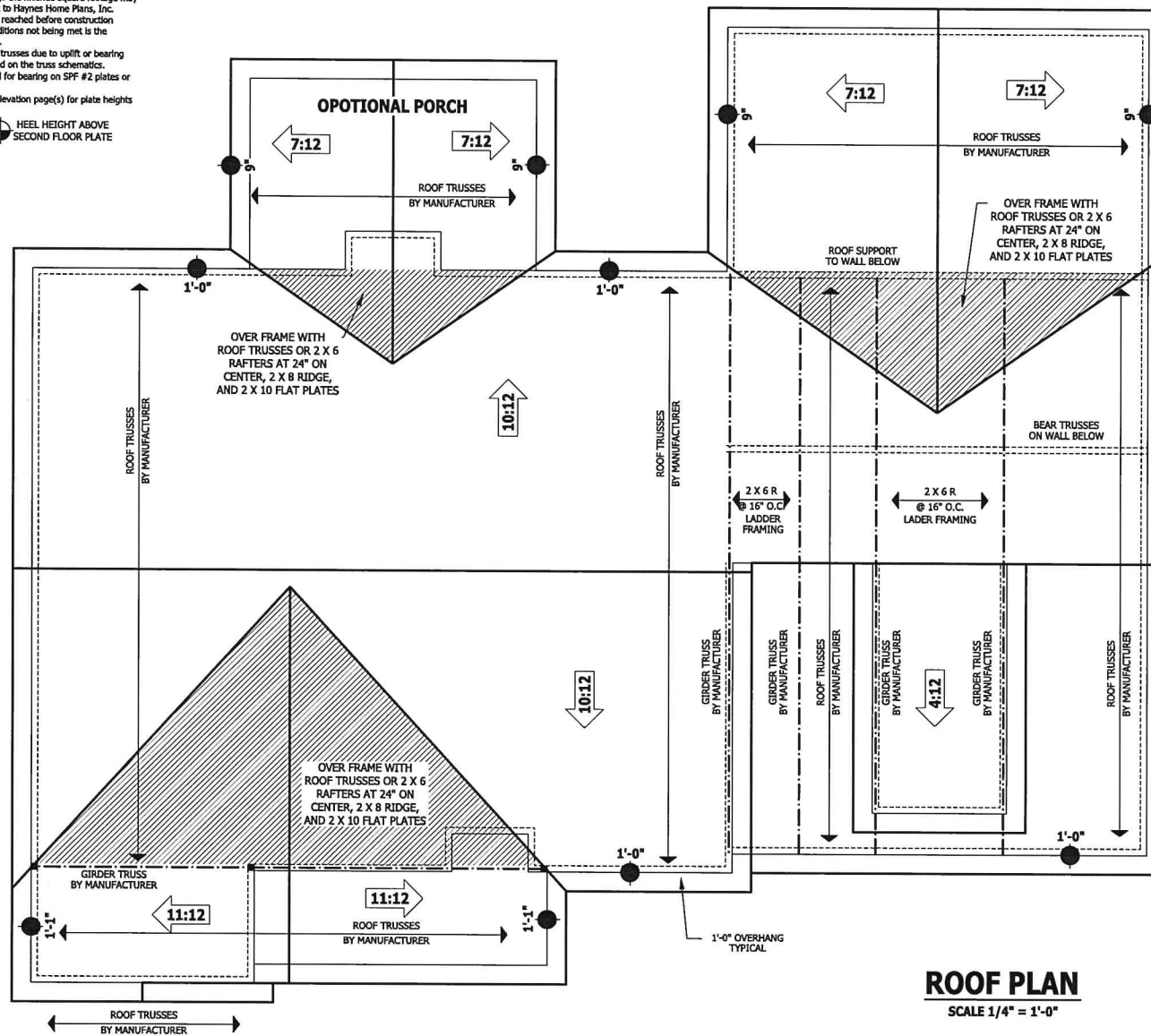
**KNEE WALL AND CEILING HEIGHTS.** All finished knee wall heights and ceiling heights are shown turned down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on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

**ANCHORAGE.** All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics.

**BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

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

● HEEL HEIGHT ABOVE FIRST FLOOR PLATE  
● HEEL HEIGHT ABOVE SECOND FLOOR PLATE



## ROOF PLAN

SCALE 1/4" = 1'-0"

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ROOF PLAN

Marie

Thompson Homebuilders, LLC  
Raeford, NC

**HAYNES**  
HOME PLANS, INC.  
P.O. BOX 102, WAKE FOREST, NC 27538 919-485-1180 FAX 1865-491-4365

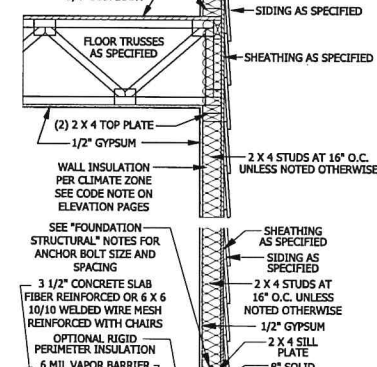
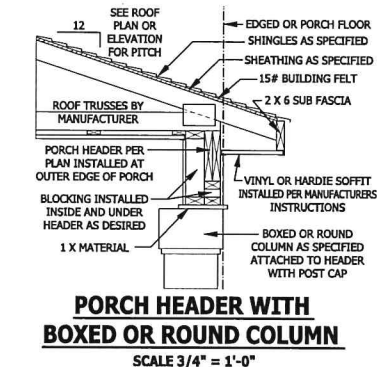
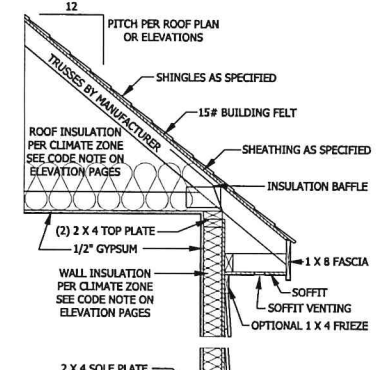
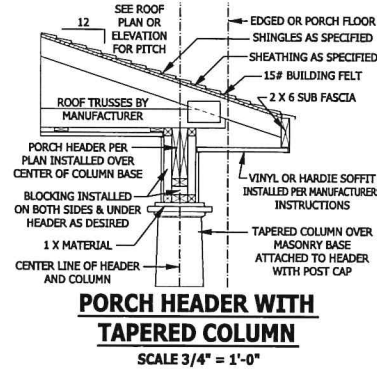
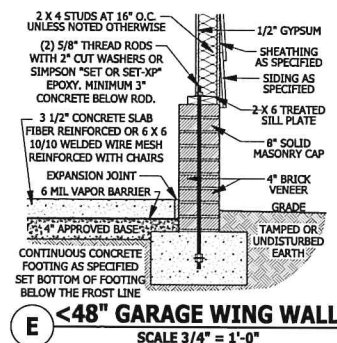
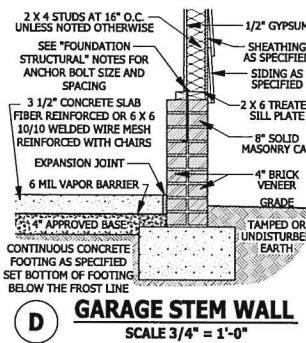
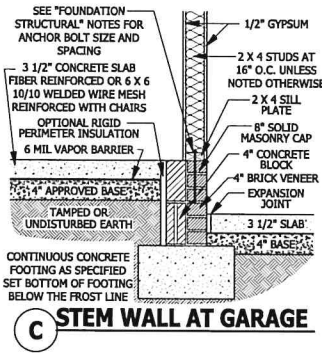
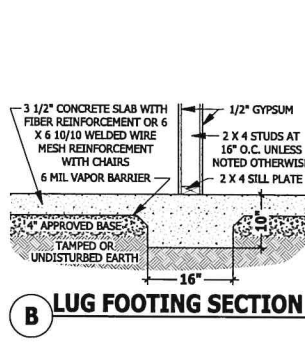
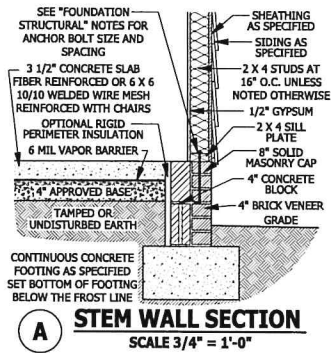
| SQUARE FOOTAGE               |              |
|------------------------------|--------------|
| HEATED FIRST FLOOR           | 1711 SQ. FT. |
| SECOND FLOOR                 | 361 SQ. FT.  |
| TOTAL                        | 2072 SQ. FT. |
| UNHEATED FRONT PORCH         | 85 SQ. FT.   |
| UNHEATED REAR PORCH          | 944 SQ. FT.  |
| TOTAL                        | 1429 SQ. FT. |
| UNHEATED OPTIONAL REAR PORCH | 146 SQ. FT.  |
| TOTAL                        | 146 SQ. FT.  |

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## CARBON MONOXIDE ALARMS

### SECTION R315

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.

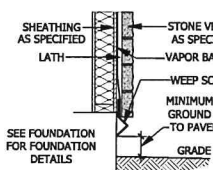
R315.2 Where required in existing dwellings. In existing dwellings, where interior alterations, repairs, fuel-fired appliance replacements, or additions requiring a permit occurs, or where one or more sleeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section 315.1.

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.

## WEEP SCREEDS

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

R703.4.2.4 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building. The weather-resistant barrier shall lap the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed.



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

## SMOKE ALARMS

### SECTION R314

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

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

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

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

1. In each sleeping room.
2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.
3. On each additional story of the dwelling, including basements and habitable attics (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) attic stories. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story above the upper level.

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

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

## STAIRWAY NOTES

### R311.7

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

R311.7.4 Stair treads and risers. Stair treads and risers shall meet the requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners.

R311.7.4.1 Riser height. The maximum riser height shall be 8 1/4 inches (210 mm). The riser shall be measured vertically between leading edges of the adjacent treads.

R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Wider 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. Wider 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 1/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers.

R311.7.7 Handrails. Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers.

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

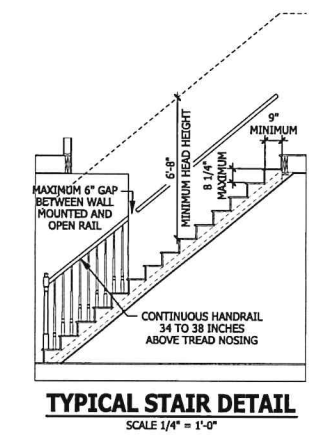
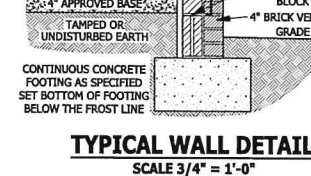
Exceptions:

1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

R311.7.7.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 1 1/2 inch (38 mm) between the wall and the handrails.

Exceptions:

1. Handrails shall be permitted to be interrupted by a newel post.
2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.
3. Two or more separate rails shall be considered continuous if the termination of the rails occurs within 6 inches (152 mm) of each other. If transitioning between a wall-mounted handrail and a guardrail/handrail, the wall-mounted rail must return into the wall.



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TYPICAL DETAILS

Marie

Thompson Homebuilders, LLC  
Raeftord, NC

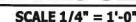
**HAYNES**  
HOME PLANS, INC.  
P.O. Box 702, Wake Forest, NC 27586 919-435-4160 Fax 919-435-4166

| SQUARE FOOTAGE       |              |
|----------------------|--------------|
| HEATED FIRST FLOOR   | 2711 SQ. FT. |
| SECOND FLOOR         | 2811 SQ. FT. |
| UNHEATED FRONT PORCH | 85 SQ. FT.   |
| UNHEATED REAR PORCH  | 94 SQ. FT.   |
| UNHEATED OPTIONAL    | 140 SQ. FT.  |
| TOTAL                | 3431 SQ. FT. |

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**D MONOLITHIC AT GARAGE**  
SCALE 1/2" = 1'-0"



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# FOUNDATION STRUCTURAL

115 to 130 mph wind zone (1 1/2 to 2 1/2 story)  
CONTINUOUS FOOTING: 16" wide and 8" thick minimum.  
20" wide minimum at brick veneer. Must extend 2" to  
either side of supported wall.

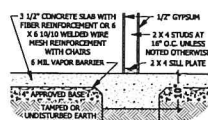
GIRDERS: (3) 2 X 10 girder unless noted otherwise.

PIERS: 16" X 16" piers with 8" solid masonry cap on 30" X  
30" X 10" concrete footing with maximum pier height of 64"  
with hollow masonry and 160" with solid masonry.

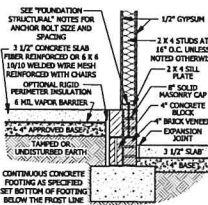
POINT LOADS: ■ designates significant point load and  
should have solid blocking to pier, girder or foundation wall.  
115 and 130 MPH ANCHORS BOLTS: 1/2" diameter anchor  
bolts embedded minimum 7", maximum 6'-0" on center,  
within 12" of plate ends, and minimum two anchor bolts per  
plate.

130 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts  
embedded minimum 15", maximum 4'-0" on center, within  
12" of plate ends, and minimum two anchor bolts per plate.  
CONCRETE: Concrete shall have a minimum 28 day strength  
of 3000 psi and a maximum 5" slump. Air entrained per table  
402.2. All concrete shall be in accordance with ACI standards.  
All samples for pumping shall be taken from the exit end of  
the pump.

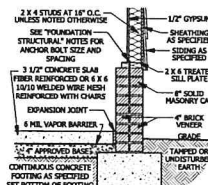
SOILS: Allowable soil bearing pressure assumed to be 2000  
PSF. The contractor must contact a geotechnical engineer  
and a structural engineer if unsatisfactory subsurface  
conditions are encountered. The surface area adjacent to the  
foundation wall shall be provided with adequate drainage  
and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



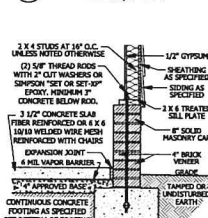
**A LUG FOOTING SECTION**  
SCALE 1/2" = 1'-0"



**B STEM WALL SECTION**  
SCALE 1/2" = 1'-0"

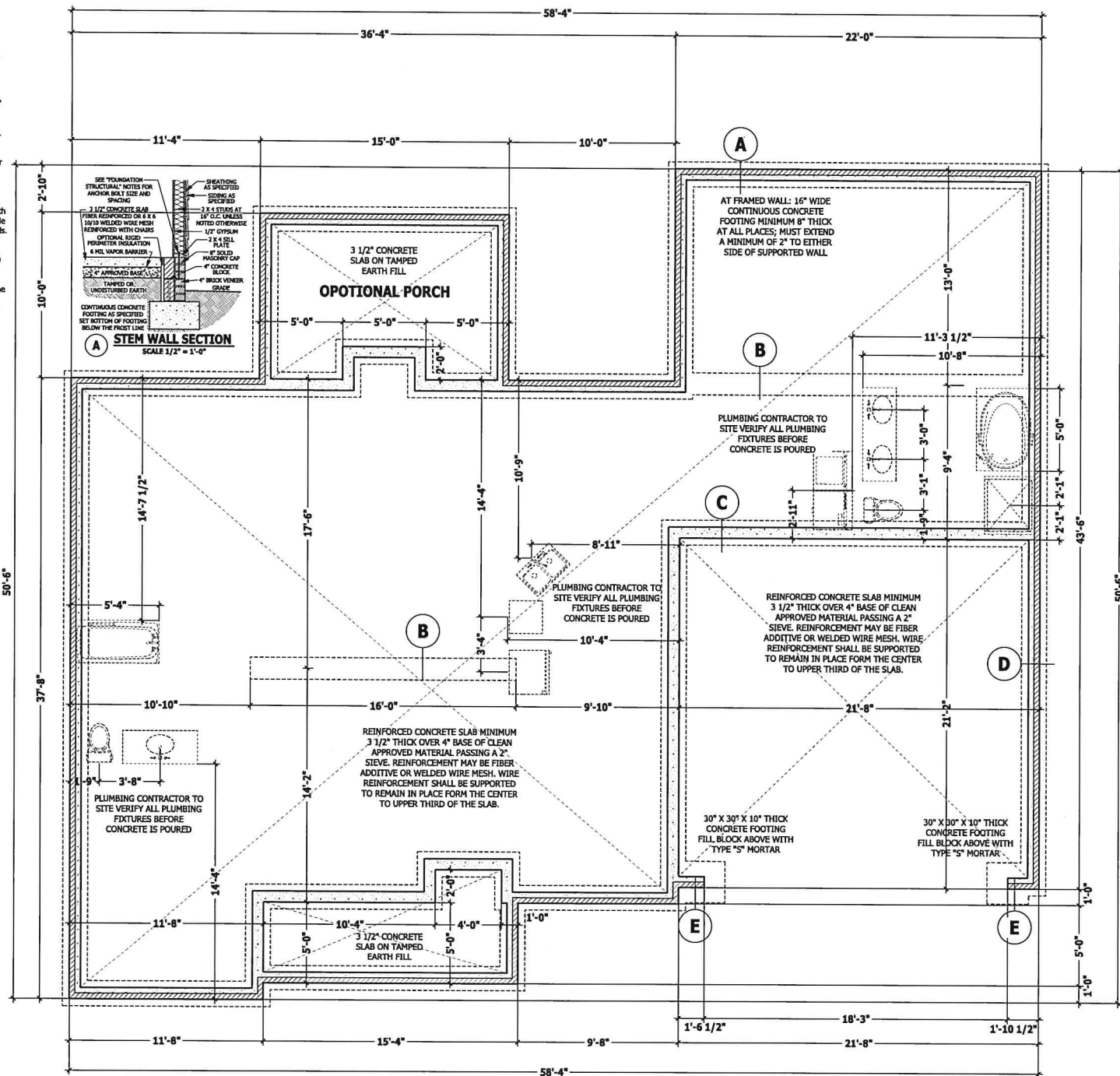


**C GARAGE STEM WALL**  
SCALE 1/2" = 1'-0"



**D GARAGE WING WALL**  
SCALE 1/2" = 1'-0"

**E <48" GARAGE WING WALL**  
SCALE 1/2" = 1'-0"



## STEM WALL SLAB PLAN

SCALE 1/4" = 1'-0"

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DIMENSIONS AND CONDITIONS  
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STEM WALL SLAB PLAN  
Marie

Thompson Homebuilders, LLC  
Raeftord, NC

**HAYNES**  
HOME PLANS, INC.  
P.O. BOX 702, WIRE FOSTER, NC 27588 919-485-4169 Fax 919-485-4355

| SQUARE FOOTAGE    |              |
|-------------------|--------------|
| HEATED            |              |
| FIRST FLOOR       | 1711 SQ. FT. |
| SECOND FLOOR      | 362 SQ. FT.  |
| TOTAL             | 2073 SQ. FT. |
| UNHEATED          |              |
| FRONT PORCH       | 85 SQ. FT.   |
| REAR PORCH        | 94 SQ. FT.   |
| TOTAL             | 179 SQ. FT.  |
| UNHEATED OPTIONAL |              |
| FRONT PORCH       | 140 SQ. FT.  |
| REAR PORCH        | 140 SQ. FT.  |
| TOTAL             | 280 SQ. FT.  |

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# FOUNDATION STRUCTURAL

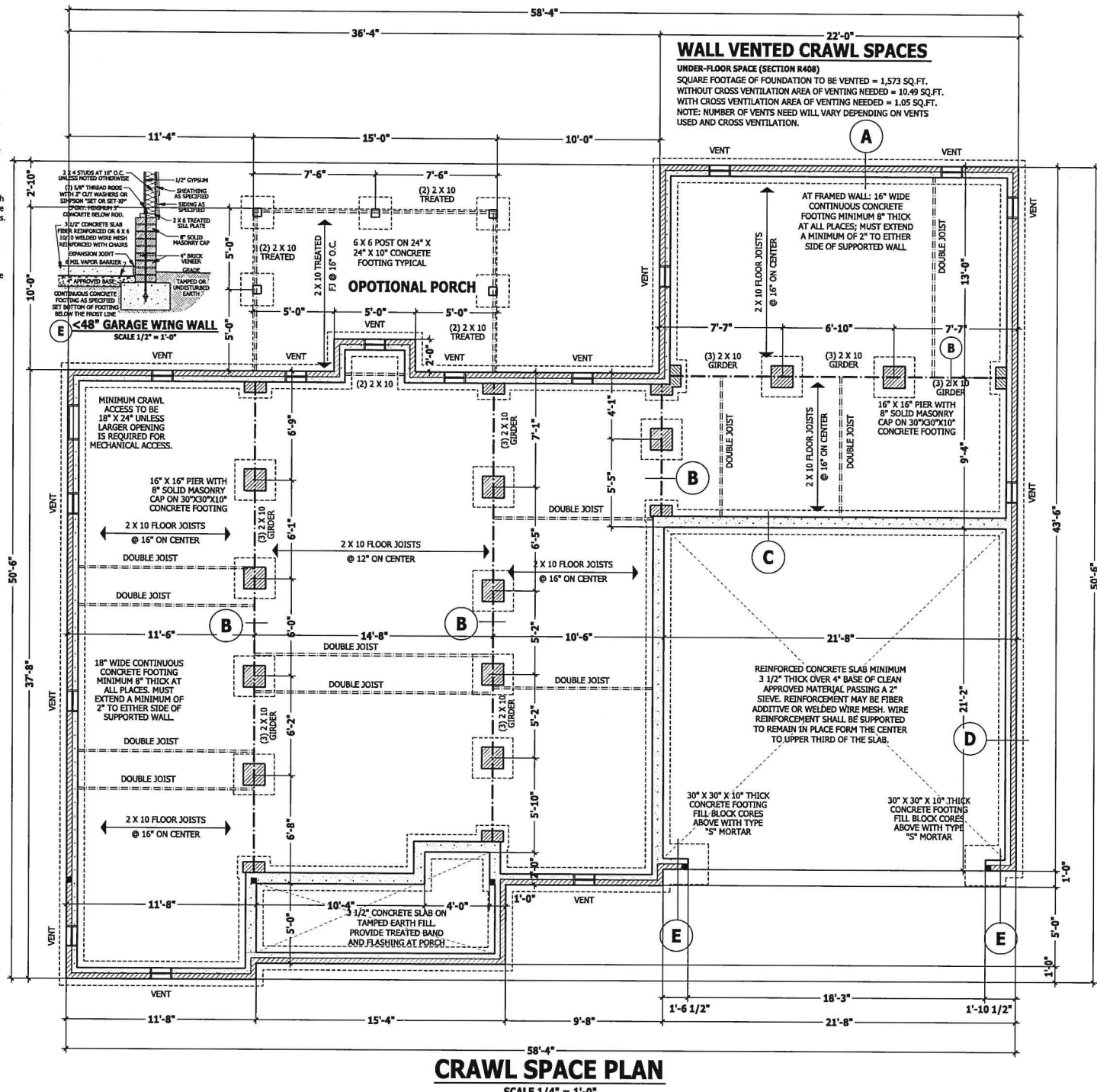
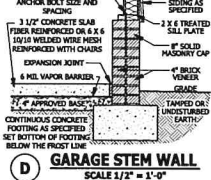
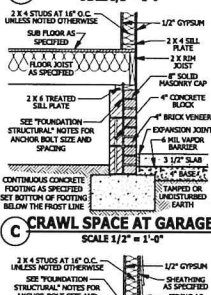
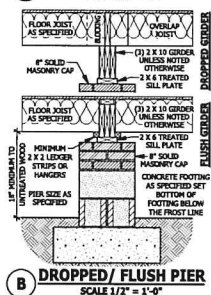
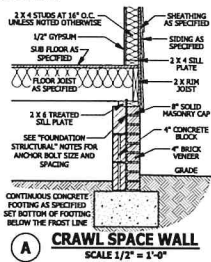
115 to 130 mph wind zone (1 1/2 to 2 1/2 story)  
**CONTINUOUS FOOTING:** 16" wide and 8" thick minimum.  
20" wide minimum at brick veneer. Must extend 2" to either side of supported wall.

**GIRDERS:** (3) 2 X 10 girder unless noted otherwise.  
**PIERS:** 16" X 16" piers with 8" solid masonry cap on 30" X 30" X 10" concrete footing with maximum pier height of 64" with hollow masonry and 160" with solid masonry.

**POINT LOADS:** [Symbol] designates significant point load and should have solid blocking to pier, girder or foundation wall.  
**115 and 120 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

**130 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum 15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.  
**CONCRETE:** Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5" slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump.

**SOILS:** Allowable soil bearing pressure assumed to be 2000 PSF. The contractor must 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.



**CRAWL SPACE PLAN**  
SCALE 1/4" = 1'-0"

## WALL VENTED CRAWL SPACES

**UNDER-FLOOR SPACE (SECTION R408)**  
SQUARE FOOTAGE OF FOUNDATION TO BE VENTED = 1,573 SQ. FT.  
WITHOUT CROSS VENTILATION AREA OF VENTING NEEDED = 10.49 SQ. FT.  
WITH CROSS VENTILATION AREA OF VENTING NEEDED = 1.05 SQ. FT.  
NOTE: NUMBER OF VENTS WILL VARY DEPENDING ON VENTS USED AND CROSS VENTILATION.

**CRAWL SPACE PLAN**  
**Marie**

**Thompson Homebuilders, LLC**  
Raeftord, NC

**HAYNES**  
**HOME PLANS, INC.**  
P.O. Box 702 Wade Forest, NC 27388 919-435-4180 At 1-866-91-0085

| SQUARE FOOTAGE    |              |
|-------------------|--------------|
| HEATED            |              |
| FIRST FLOOR       | 1711 SQ. FT. |
| SECOND FLOOR      | 381 SQ. FT.  |
| TOTAL             | 2092 SQ. FT. |
| UNHEATED          |              |
| FRONT PORCH       | 85 SQ. FT.   |
| GAUGE             | 400 SQ. FT.  |
| TOTAL             | 485 SQ. FT.  |
| UNHEATED OPTIONAL |              |
| REAR PORCH        | 140 SQ. FT.  |
| TOTAL             | 140 SQ. FT.  |

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