SHAKE MM-27
3CAR

PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT: 17'-2" HEIGHT TO RIDGE: 25'-6"

CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
FENESTRATION U-FACTOR	0.35	0.35	0.35
SKYLIGHT U-FACTOR	0.55	0.55	0.55
GLAZED FENESTRATION SHGC	0.30	0.30	0.30
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci
WALL R-VALUE	15	15	19
FLOOR R-VALUE	19	19	30
* BASEMENT WALL R-VALUE	5/13	10/15	10/15
** SLAB R-VALUE	0	10	10
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19

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

DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 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	-17.9
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4

DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 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	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

ROOF VENTILATION

SECTION R806

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,111 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 14.07 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 = 7.04 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:

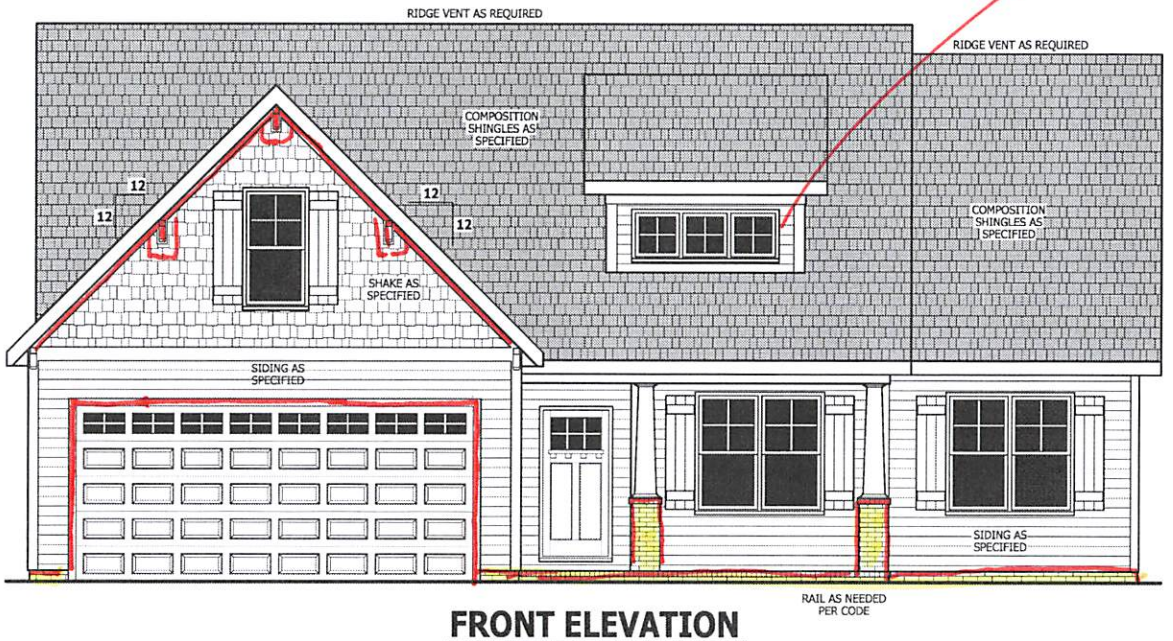
1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a *guard*, shall not allow passage of a sphere 6 inches (153 mm) in diameter.
2. *Guards* on the open sides of stairs shall not have openings which allow passage of a sphere 43/8 inches (111 mm) in diameter.

AIR LEAKAGE

Section N1102.4

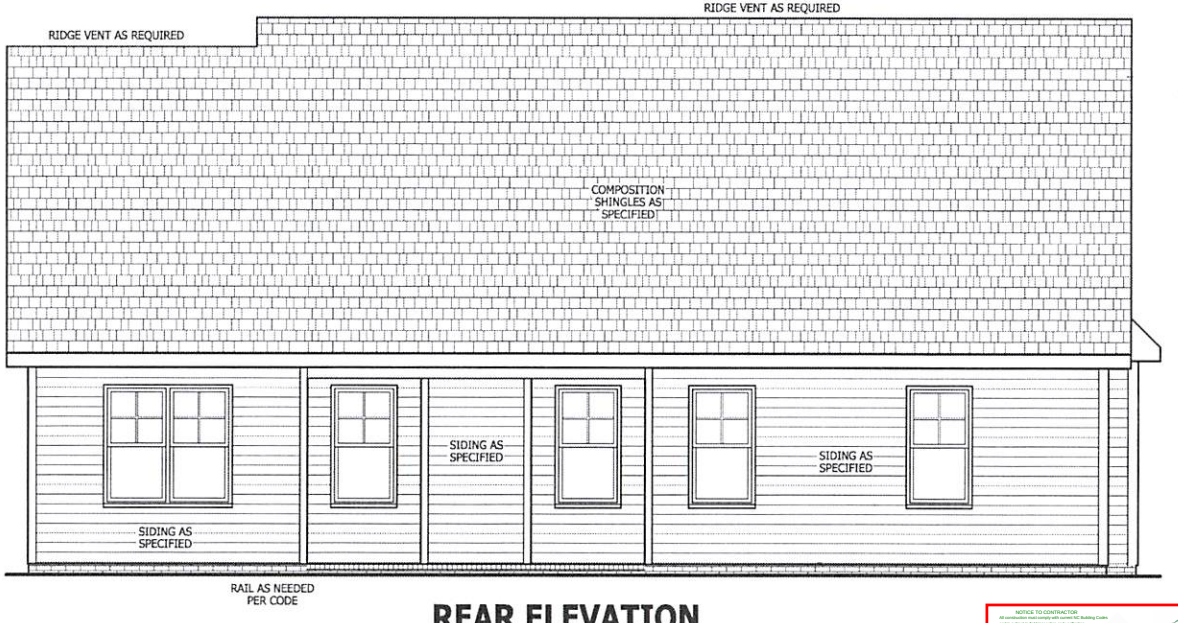
N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, 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 flue shafts.
3. Capping and sealing soffit or dropped ceiling areas.



FRONT ELEVATION

SCALE 1/4" = 1'-0"



REAR ELEVATION

SCALE 1/4" = 1'-0"

SQUARE FOOTAGE

HEATED	
FIRST FLOOR	1351 SQ.FT.
PLAYROOM	221 SQ.FT.
TOTAL	1572 SQ.FT.
HEATED OPTIONAL	
HALF BATH	28 SQ.FT.
TOTAL	28 SQ.FT.
UNHEATED	
FRONT PORCH	134 SQ.FT.
GARAGE	447 SQ.FT.
REAR PORCH	113 SQ.FT.
TOTAL	694 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.FT.
TOTAL	307 SQ.FT.

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.
APPROVED
Harnett County NORTH CAROLINA
12/07/2020

FRONT & REAR ELEVATIONS

SINCLAIR

WEAVER HOMES

HAYNES HOME PLANS, INC.

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1351 SQ.F
PLAYROOM 221 SQ.F
TOTAL 1572 SQ.F
HEATED OPTIONAL
HALF BATH 28 SQ.F
TOTAL 28 SQ.F
UNHEATED
FRONT PORCH 134 SQ.F
GARAGE 447 SQ.F
REAR PORCH 113 SQ.F
TOTAL 694 SQ.F
UNHEATED OPTIONAL
THIRD GARAGE 307 SQ.F
TOTAL 307 SQ.F

3/6/2020

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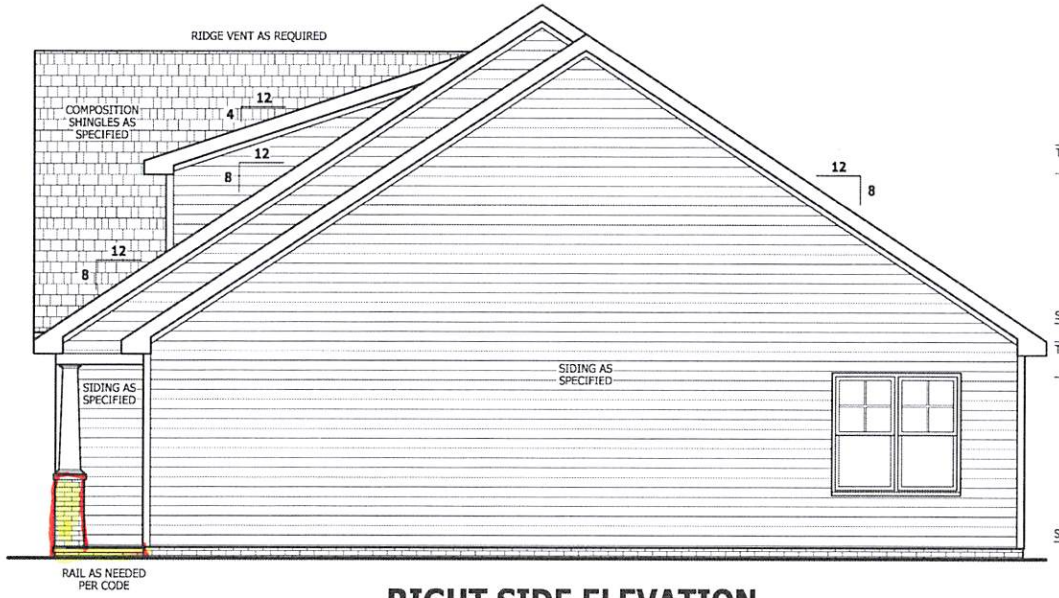
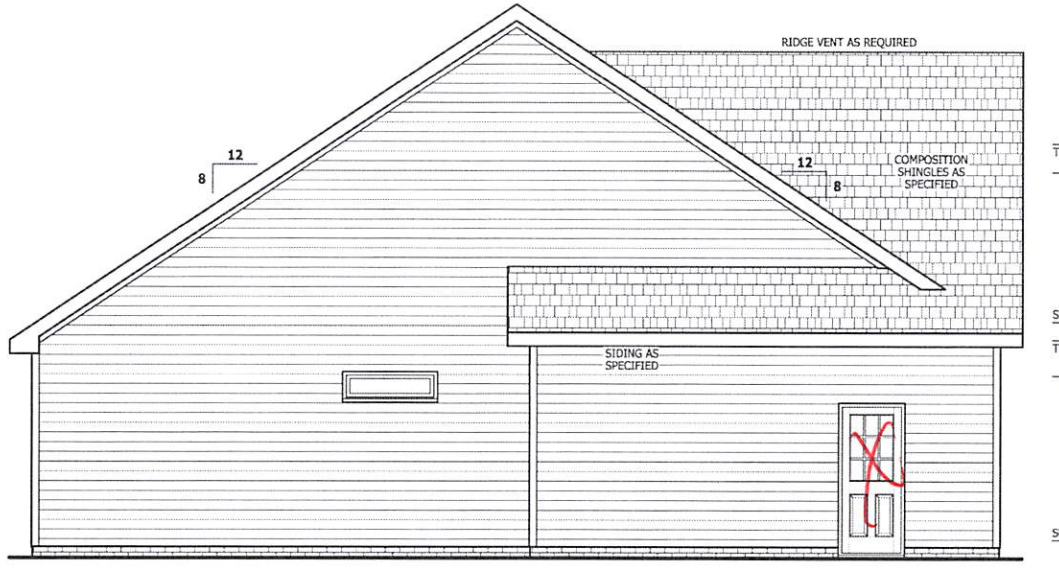


RIGHT SIDE ELEVATION

SCALE 1/4" = 1'-0"



LEFT SIDE ELEVATION

SCALE 1/4" = 1'-0"

LEFT & RIGHT ELEVATIONS

SINCLAIR

WEAVER HOMES

HAYNES HOME PLANS, INC.

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1351 SQ.F
PLAYROOM	221 SQ.F
TOTAL	1572 SQ.F
HEATED OPTIONAL	
HALF BATH	28 SQ.F
TOTAL	28 SQ.F
UNHEATED	
FRONT PORCH	134 SQ.F
GARAGE	447 SQ.F
REAR PORCH	113 SQ.F
TOTAL	694 SQ.F
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.F
TOTAL	307 SQ.F

3/6/2020

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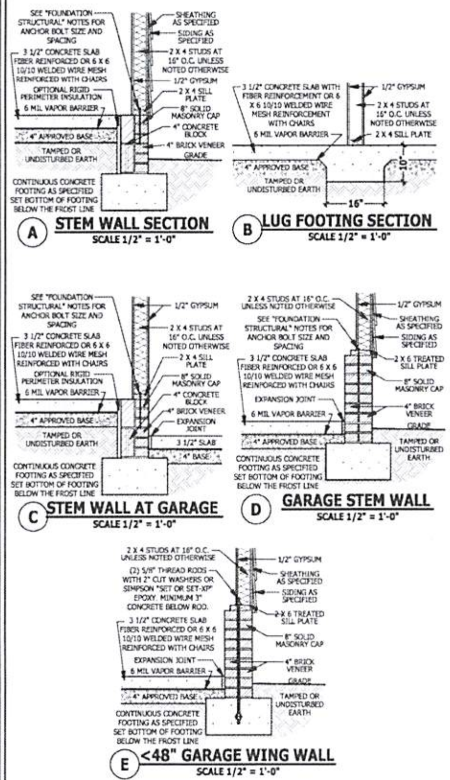

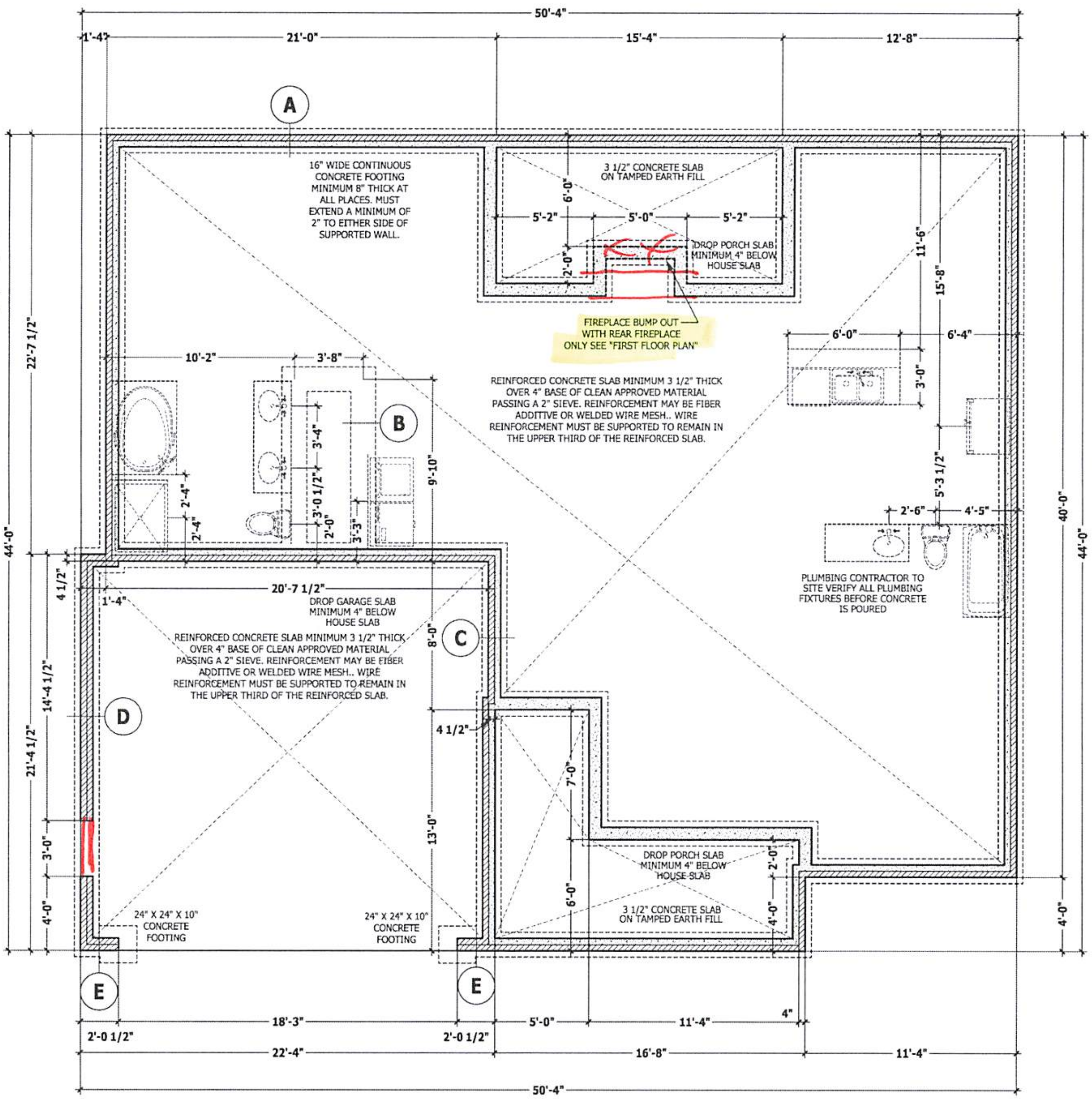
50'-4"
21'-0"
15'-4"
12'-8"
16" WIDE CONTINUOUS CONCRETE FOOTING MINIMUM 8" THICK AT ALL PLACES. MUST EXTEND A MINIMUM OF 2" TO EITHER SIDE OF SUPPORTED WALL.
3 1/2" CONCRETE SLAB ON TAMPED EARTH FILL
DROP PORCH SLAB MINIMUM 4" BELOW HOUSE SLAB
FIREPLACE BUMP OUT WITH REAR FIREPLACE ONLY SEE "FIRST FLOOR PLAN"
REINFORCED CONCRETE SLAB MINIMUM 3 1/2" THICK OVER 4" BASE OF CLEAN APPROVED MATERIAL PASSING A 2" SIEVE. REINFORCEMENT MAY BE FIBER ADDITIVE OR WELDED WIRE MESH.. WIRE REINFORCEMENT MUST BE SUPPORTED TO REMAIN IN THE UPPER THIRD OF THE REINFORCED SLAB.
PLUMBING CONTRACTOR TO SITE VERIFY ALL PLUMBING FIXTURES BEFORE CONCRETE IS POURED
DROP GARAGE SLAB MINIMUM 4" BELOW HOUSE SLAB
24" X 24" X 10" CONCRETE FOOTING
44'-0"
40'-0"
22'-4"
16'-8"
11'-4"

STEM WALL SLAB PLAN

SCALE 1/4" = 1'-0"

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

POINT LOADS: ■ designates significant point load and should have solid blocking to pier, girder or foundation wall.

115 and 120 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 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.

FOUNDATION PLAN

SINCLAIR

WEAVER HOMES

HAYNES HOME PLANS, INC.

SQUARE FOOTAGE

HEATED	
FIRST FLOOR	1351 SQ.F
PLAYROOM	221 SQ.F
TOTAL	1572 SQ.F
HEATED OPTIONAL	
HALF BATH	28 SQ.F
TOTAL	28 SQ.F
UNHEATED	
FRONT PORCH	134 SQ.F
GARAGE	447 SQ.F
REAR PORCH	113 SQ.F
TOTAL	694 SQ.F
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.F
TOTAL	307 SQ.F

3/6/2020

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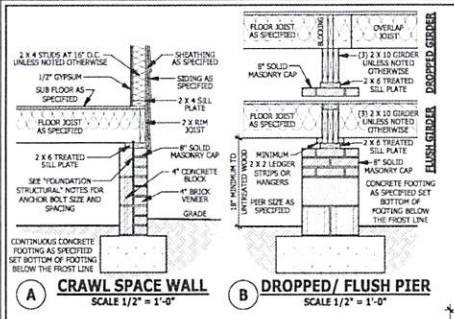


FOUNDATION STRUCTURAL

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

POINT LOADS: ■ designates significant point load and should have solid blocking to pier, girder or foundation wall.

115 and 120 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 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.

WALL VENTED CRAWL SPACES

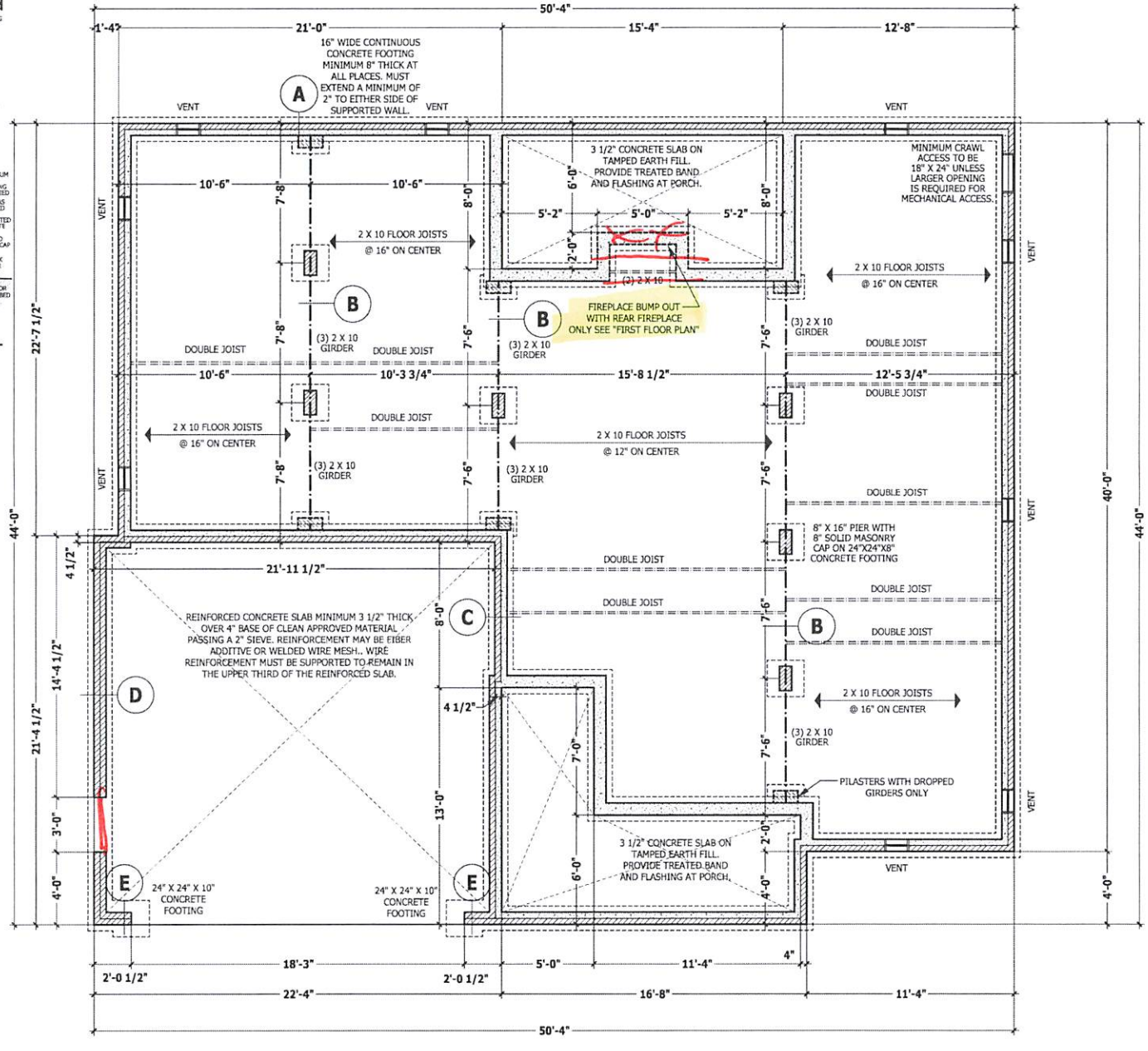
UNDER-FLOOR SPACE (SECTION R408)

SQUARE FOOTAGE OF FOUNDATION TO BE VENTED = 1,296 SQ.FT.

WITHOUT CROSS VENTILATION AREA OF VENTING NEEDED = 8.64 SQ.FT.

WITH CROSS VENTILATION AREA OF VENTING NEEDED = 0.864 SQ.FT.

NOTE: NUMBER OF VENTS NEED WILL VARY DEPENDING ON VENTS USED AND CROSS VENTILATION.



CRAWL SPACE PLAN

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITION BEFORE CONSTRUCTION BEGIN

HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AN PROCEDURES.

CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCA DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTI BEFORE CONSTRUCTION.

THESE DRAWING ARE INSTRUMENTS OF SERVICE AN AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER

FOUNDATION PLAN

SINCLAIR

HAYNES WEAVER HOMES

HAYNES HOME PLANS, INC.

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1351 SQ.F
PLAYROOM	221 SQ.F
TOTAL	1572 SQ.F
HEATED OPTIONAL	
HALF BATH	28 SQ.F
TOTAL	28 SQ.F
UNHEATED	
FRONT PORCH	134 SQ.F
GARAGE	447 SQ.F
REAR PORCH	113 SQ.F
TOTAL	694 SQ.F
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.F
TOTAL	307 SQ.F

3/6/2020

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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.

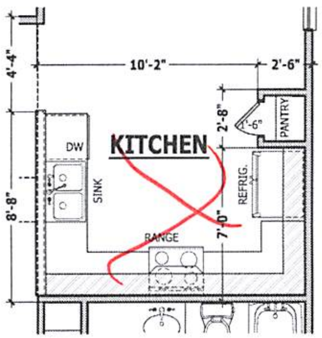
STAIRS. A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

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

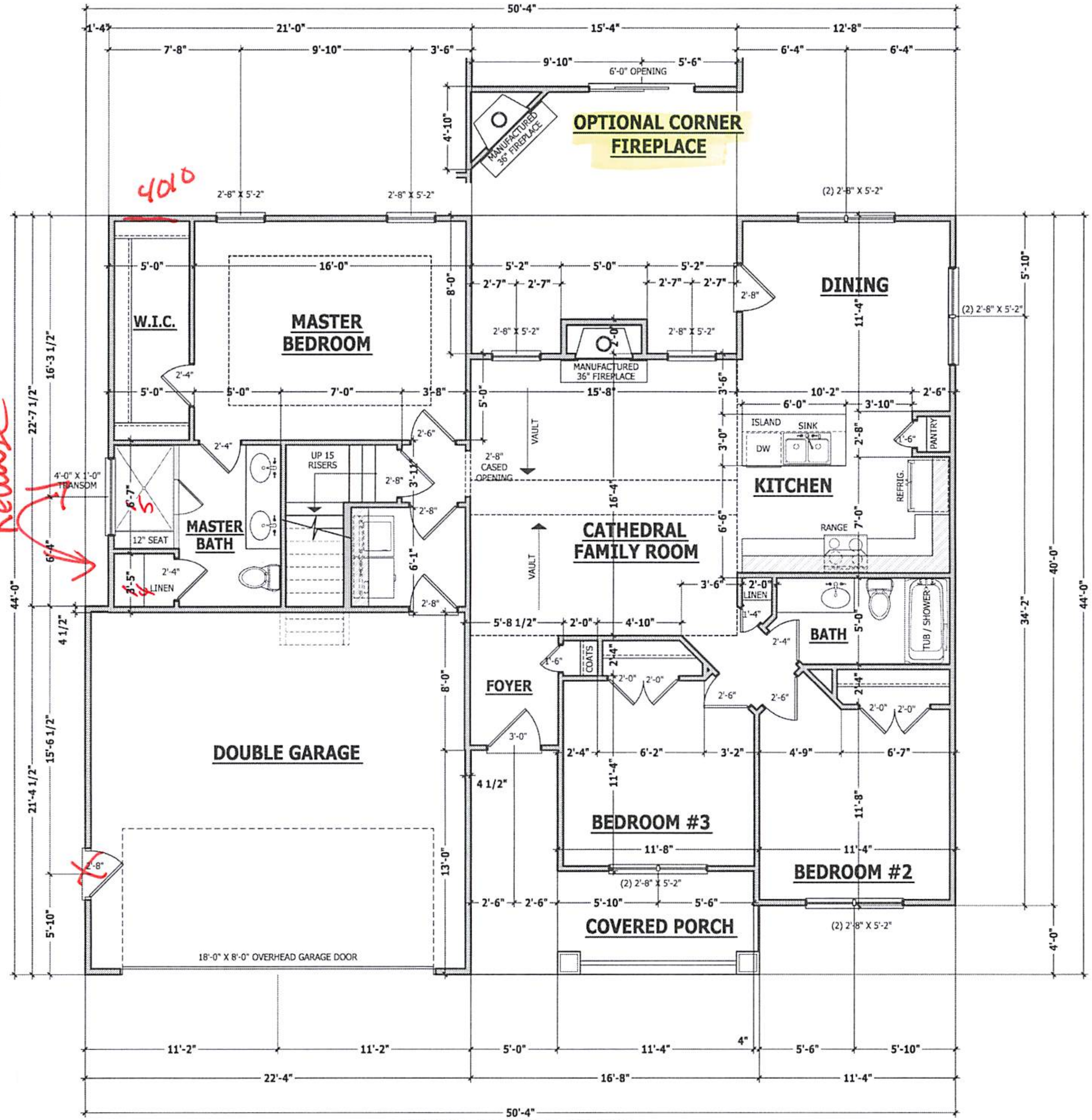
OPENING PENETRATIONS. Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

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.



OPTIONAL KITCHEN LAYOUT



FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

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 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.

SQUARE FOOTAGE

HEATED	
FIRST FLOOR	1351 SQ.FT.
PLAYROOM	221 SQ.FT.
TOTAL	1572 SQ.FT.
HEATED OPTIONAL	
HALF BATH	28 SQ.FT.
TOTAL	28 SQ.FT.
UNHEATED	
FRONT PORCH	134 SQ.FT.
GARAGE	447 SQ.FT.
REAR PORCH	113 SQ.FT.
TOTAL	694 SQ.FT.
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.FT.
TOTAL	307 SQ.FT.

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FIRST FLOOR PLAN

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WEAVER HOMES

HAYNES HOME PLANS, INC.

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1351 SQ.FT.
PLAYROOM 221 SQ.FT.
TOTAL 1572 SQ.FT.
HEATED OPTIONAL
HALF BATH 28 SQ.FT.
TOTAL 28 SQ.FT.
UNHEATED
FRONT PORCH 134 SQ.FT.
GARAGE 447 SQ.FT.
REAR PORCH 113 SQ.FT.
TOTAL 694 SQ.FT.
UNHEATED OPTIONAL
THIRD GARAGE 307 SQ.FT.
TOTAL 307 SQ.FT.

3/6/2020

190320B

STRUCTURAL NOTES

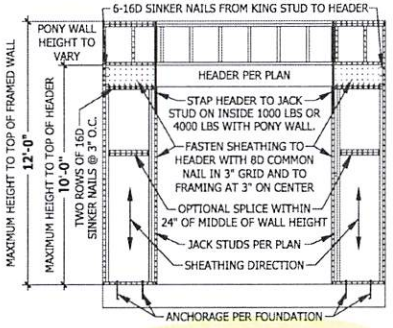
All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code.
JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no liability for contractors 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 USE	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200	--	--
Guardrail in-fill components	50	--	--
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40	--	L/360
Snow	20	--	--

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.
ENGINEERED WOOD BEAMS:
Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10⁶ PSI
Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10⁶ PSI
Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x10⁶ PSI
Install all connections per manufacturers instructions.
TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc.
LINTELS: Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise.
FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing.
ROOF SHEATHING: OSB or CDX roof sheathing minimum 3/8" thick for 16" on center rafters and 7/16" for 24" on center rafters.
CONCRETE AND SOILS: See foundation notes.

BRACE WALL PANEL NOTES

EXTERIOR WALLS: All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless noted otherwise.
GYPSUM: All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.
REQUIRED LENGTH OF BRACING: Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length.
HD: 800 lbs hold down hold down device fastened to the edge of the brace wall panel closets to the corner.
Methods Per Table R602.10.1
CS-WSP: Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or 8d(2 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 nails.
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



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

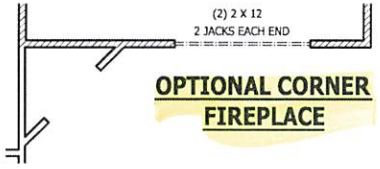
EXTERIOR HEADERS

- (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

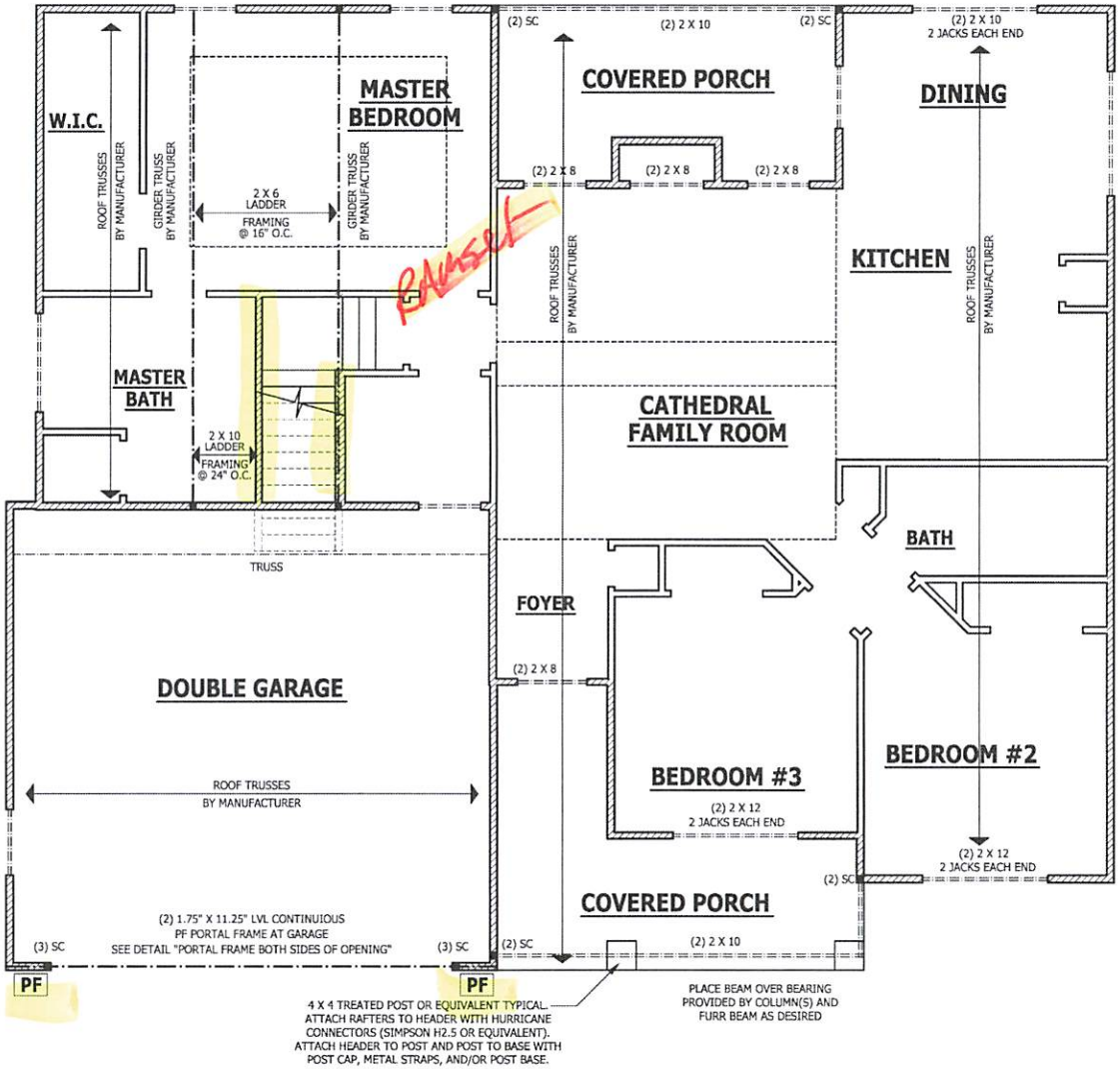
INTERIOR HEADERS

- 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



ROOF TRUSS REQUIREMENTS

TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins.
KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.
ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics.
BEARING. All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.
Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.



FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

FIRST FLOOR STRUCTURAL
SINCLAIR

WEAVER HOMES
HAYNES HOME PLANS, INC.
910.695.2100 • 910.695.2106

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1351 SQ F
PLAYROOM	221 SQ F
TOTAL	1572 SQ F
HEATED OPTIONAL	
HALF BATH	28 SQ F
TOTAL	28 SQ F
UNHEATED	
FRONT PORCH	134 SQ F
GARAGE	447 SQ F
REAR PORCH	113 SQ F
TOTAL	694 SQ F
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ F
TOTAL	307 SQ F

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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
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200	--	--
Guardrail in-fill components	50	--	--
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40	--	L/360
Snow	20	--	--

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

ENGINEERED WOOD BEAMS :
Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10⁶ PSI
Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10⁶ PSI
Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x10⁶ PSI
Install all connections per manufacturers instructions.

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

LINTELS: Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise.

FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing.

ROOF SHEATHING: OSB or CDX roof sheathing minimum 3/8" thick for 16" on center rafters and 7/16" for 24" on center rafters.

CONCRETE AND SOILS: See foundation notes.

ROOF TRUSS REQUIREMENTS

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

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

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

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

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

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

ATTIC ACCESS

SECTION R807

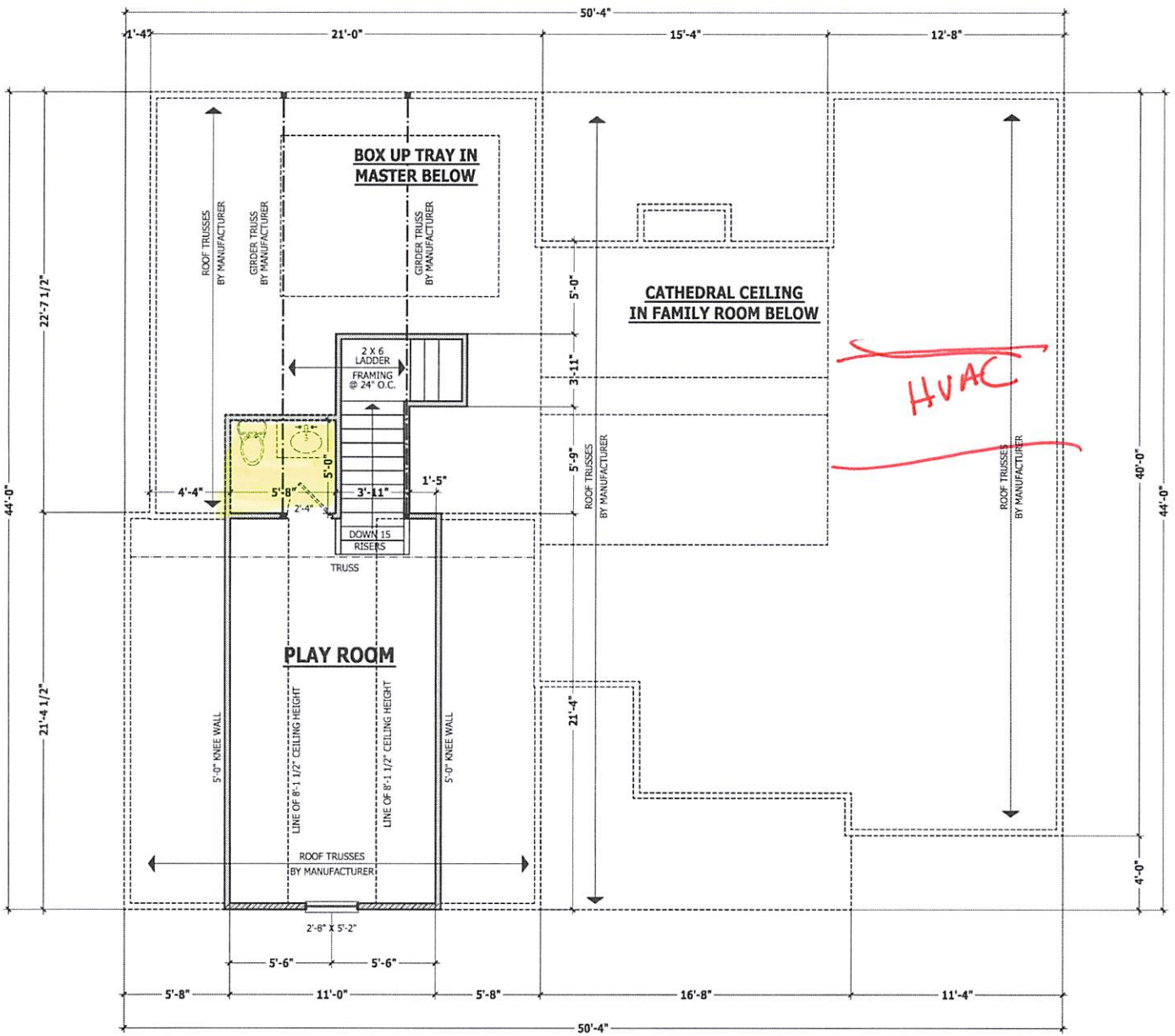
R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

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

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 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.



SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

SECOND FLOOR PLAN
SINCLAIR

HAYNES WEAVER HOMES
HOME PLANS, INC.

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1351 SQ.F
PLAYROOM	221 SQ.F
TOTAL	1572 SQ.F
HEATED OPTIONAL	
HALF BATH	28 SQ.F
TOTAL	28 SQ.F
UNHEATED	
FRONT PORCH	134 SQ.F
GARAGE	447 SQ.F
REAR PORCH	113 SQ.F
TOTAL	694 SQ.F
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.F
TOTAL	307 SQ.F

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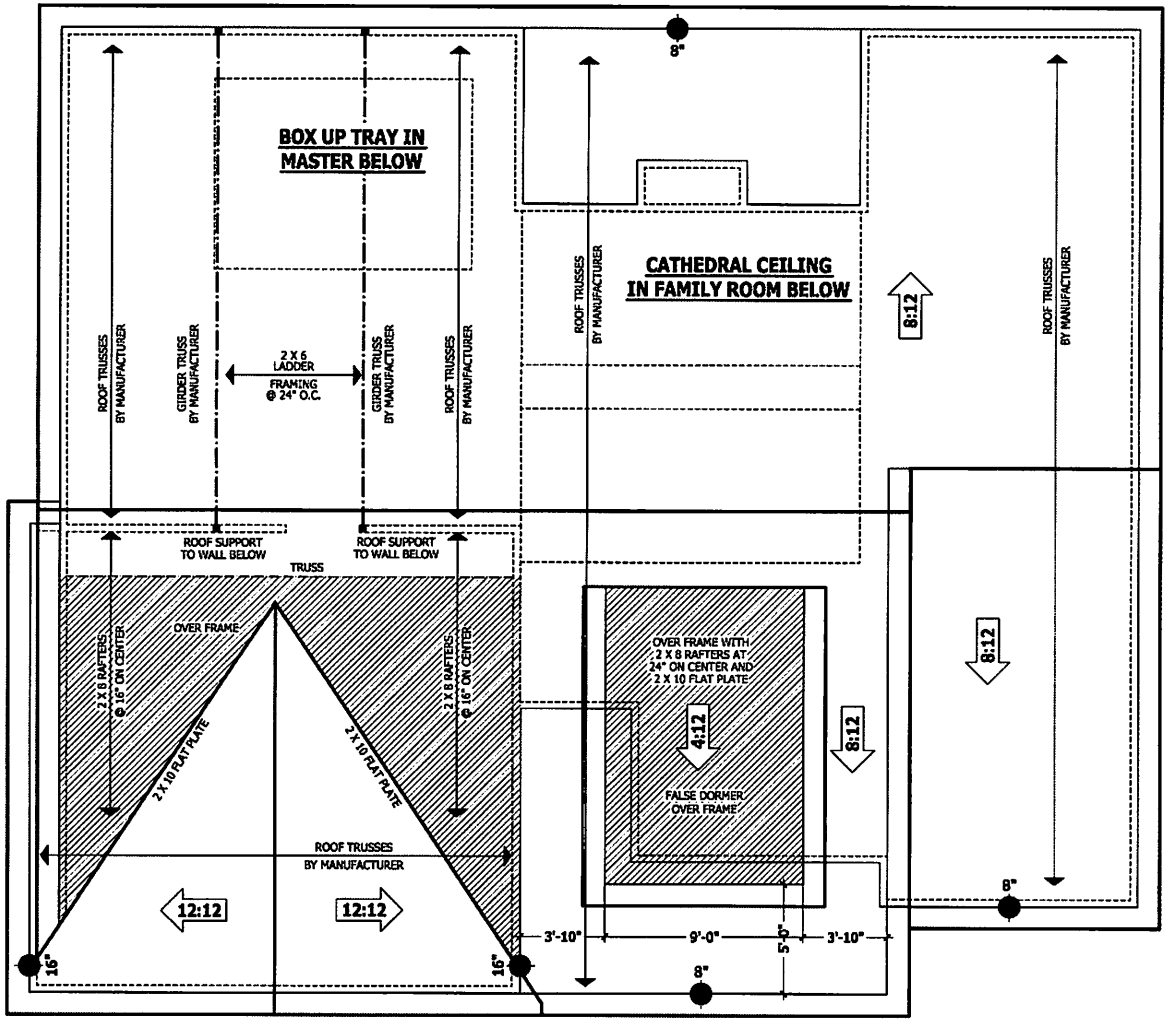
ROOF TRUSS REQUIREMENTS

TRUSS DESIGN. Trusses to be designed and engineered in accordance with those drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins.
KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.
ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics.
BEARING. All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.
Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.

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



ROOF 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 DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION.
THESE DRAWING ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER

ROOF PLAN
SINCLAIR

WEAVER HOMES
HAYNES HOME PLANS, INC.

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1151 SQ.FT.
PLAYROOM 221 SQ.FT.
TOTAL 1372 SQ.FT.
HEATED OPTIONAL
HALF BATH 28 SQ.FT.
TOTAL 28 SQ.FT.
UNHEATED
FRONT PORCH 134 SQ.FT.
GARAGE 441 SQ.FT.
REAR PORCH 113 SQ.FT.
TOTAL 688 SQ.FT.
UNHEATED OPTIONAL
THIRD GARAGE 317 SQ.FT.
TOTAL 317 SQ.FT.

3/6/2020
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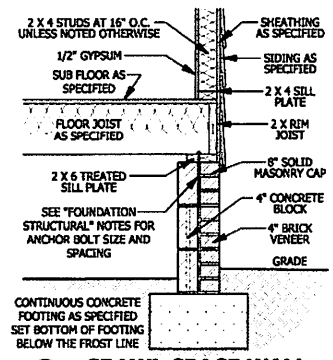
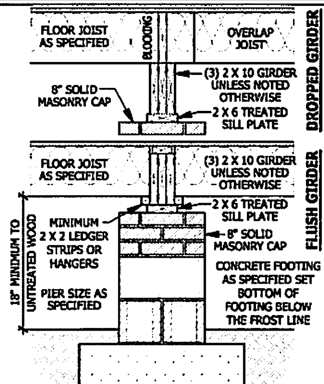
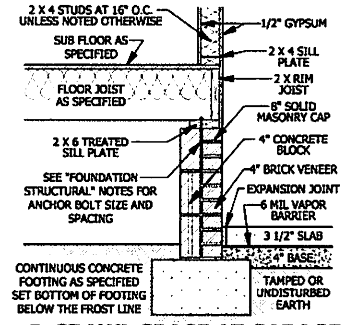

2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE
1/2" GYPSUM
SUB FLOOR AS SPECIFIED
FLOOR JOIST AS SPECIFIED
2 X 6 TREATED SILL PLATE
SEE "FOUNDATION STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND SPACING
CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE
SHEATHING AS SPECIFIED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

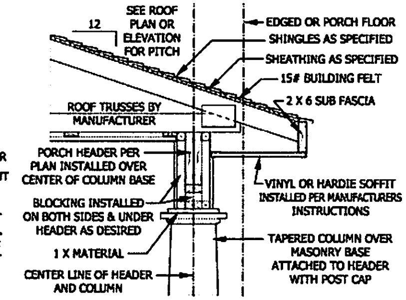
A **CRAWL SPACE WALL**
SCALE 3/4" = 1'-0"


FLOOR JOIST AS SPECIFIED
BLOCKING
OVERLAP JOIST
8" SOLID MASONRY CAP
(3) 2 X 10 GIRDER UNLESS NOTED OTHERWISE
2 X 6 TREATED SILL PLATE
DROPPED GIRDER
FLOOR JOIST AS SPECIFIED
(3) 2 X 10 GIRDER UNLESS NOTED OTHERWISE
2 X 6 TREATED SILL PLATE
8" SOLID MASONRY CAP
FLUSH GIRDER
MINIMUM 2 X 2 LEDGER STRIPS OR HANGERS
PIER SIZE AS SPECIFIED
18" MINIMUM TO UNTREATED WOOD
CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE

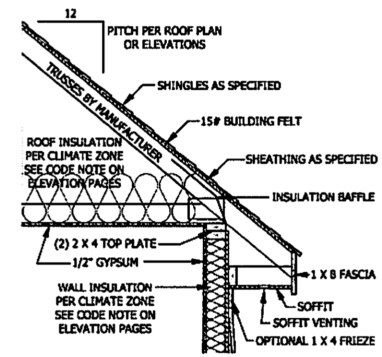
B **DROPPED/ FLUSH PIER**
SCALE 3/4" = 1'-0"

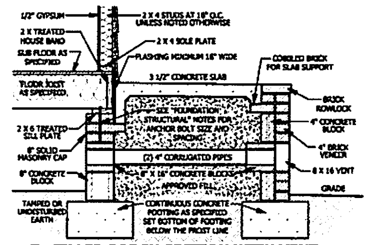

2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE
SUB FLOOR AS SPECIFIED
FLOOR JOIST AS SPECIFIED
2 X 6 TREATED SILL PLATE
SEE "FOUNDATION STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND SPACING
CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE
1/2" GYPSUM
2 X 4 SILL PLATE
2 X RIM JOIST
8" SOLID MASONRY CAP
4" CONCRETE BLOCK
4" BRICK VENEER
EXPANSION JOINT
6 MIL VAPOR BARRIER
3 1/2" SLAB
4" BASE
TAMPED OR UNDISTURBED EARTH

C **CRAWL SPACE AT GARAGE**
SCALE 3/4" = 1'-0"

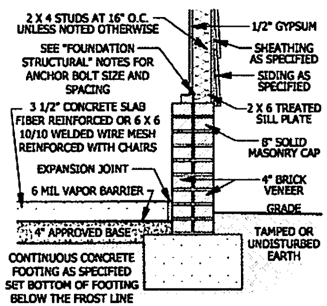

12
SEE ROOF PLAN OR ELEVATION FOR PITCH
ROOF TRUSSES BY MANUFACTURER
PORCH HEADER PER PLAN INSTALLED OVER CENTER OF COLUMN BASE
BLOCKING INSTALLED ON BOTH SIDES & UNDER HEADER AS DESIRED
1 X MATERIAL
CENTER LINE OF HEADER AND COLUMN
EDGED OR PORCH FLOOR
SHINGLES AS SPECIFIED
SHEATHING AS SPECIFIED
15# BUILDING FELT
2 X 6 SUB FASCIA
VINYL OR HARDIE SOFFIT INSTALLED PER MANUFACTURERS INSTRUCTIONS
TAPERED COLUMN OVER MASONRY BASE ATTACHED TO HEADER WITH POST CAP

PORCH HEADER WITH TAPERED COLUMN
SCALE 3/4" = 1'-0"

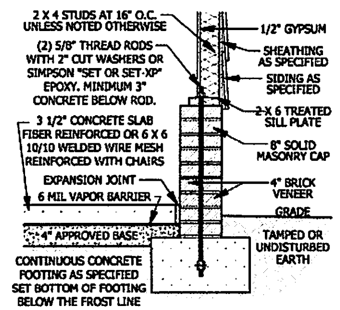

12
PITCH PER ROOF PLAN OR ELEVATIONS
TRUSSES BY MANUFACTURER
SHINGLES AS SPECIFIED
15# BUILDING FELT
ROOF INSULATION PER CLIMATE ZONE SEE CODE NOTE ON ELEVATION PAGES
SHEATHING AS SPECIFIED
INSULATION BAFFLE
(2) 2 X 4 TOP PLATE
1/2" GYPSUM
WALL INSULATION PER CLIMATE ZONE SEE CODE NOTE ON ELEVATION PAGES
1 X 8 FASCIA
SOFFIT
SOFFIT VENTING
OPTIONAL 1 X 4 FRIEZE


1/2" GYPSUM
2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE
2 X 4 SOLE PLATE
FLASHING MINIMUM 16" WIDE
3 1/2" CONCRETE SLAB
CORBELED BRICK FOR SLAB SUPPORT
BRICK ROWLOCK
4" CONCRETE BLOCK
4" BRICK VENEER
8 X 16 VENT
GRADE
(2) 4" CORRUGATED PIPES
APPROVED FILL
TAMPED OR UNDISTURBED EARTH
CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE

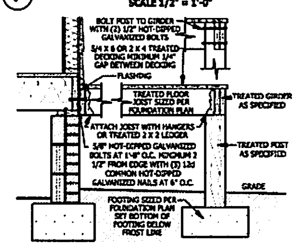
F **FILLED PORCH SECTION WITH VENT**
SCALE 1/2" = 1'-0"


2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE
SEE "FOUNDATION STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND SPACING
3 1/2" CONCRETE SLAB FIBER REINFORCED OR 6 X 6 10/10 WELDED WIRE MESH REINFORCED WITH CHAIRS
EXPANSION JOINT
6 MIL VAPOR BARRIER
4" APPROVED BASE
CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE
1/2" GYPSUM
SHEATHING AS SPECIFIED
SIDING AS SPECIFIED
2 X 6 TREATED SILL PLATE
8" SOLID MASONRY CAP
4" BRICK VENEER
GRADE
TAMPED OR UNDISTURBED EARTH

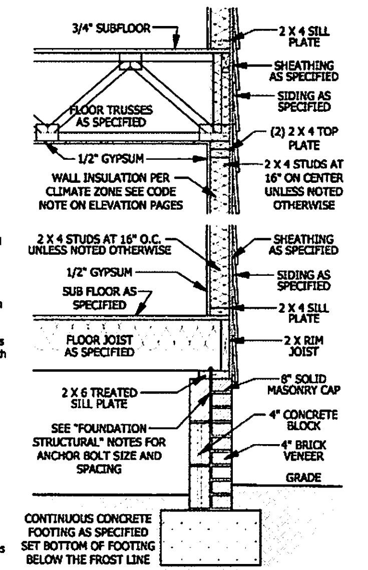
D **GARAGE STEM WALL**
SCALE 3/4" = 1'-0"


2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE
(2) 5/8" THREAD RODS WITH 2" CUT WASHERS OR SIMPSON "SET OR SET-XP" EPOXY. MINIMUM 3" CONCRETE BELOW ROD.
3 1/2" CONCRETE SLAB FIBER REINFORCED OR 6 X 6 10/10 WELDED WIRE MESH REINFORCED WITH CHAIRS
EXPANSION JOINT
6 MIL VAPOR BARRIER
4" APPROVED BASE
CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE
1/2" GYPSUM
SHEATHING AS SPECIFIED
SIDING AS SPECIFIED
2 X 6 TREATED SILL PLATE
8" SOLID MASONRY CAP
4" BRICK VENEER
GRADE
TAMPED OR UNDISTURBED EARTH

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



G **DECK ATTACHMENT**
SCALE 1/2" = 1'-0"


3/4" SUBFLOOR
FLOOR TRUSSES AS SPECIFIED
1/2" GYPSUM
WALL INSULATION PER CLIMATE ZONE SEE CODE NOTE ON ELEVATION PAGES
2 X 4 SILL PLATE
SHEATHING AS SPECIFIED
SIDING AS SPECIFIED
(2) 2 X 4 TOP PLATE
2 X 4 STUDS AT 16" ON CENTER UNLESS NOTED OTHERWISE
2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE
1/2" GYPSUM
SUB FLOOR AS SPECIFIED
FLOOR JOIST AS SPECIFIED
2 X 6 TREATED SILL PLATE
SEE "FOUNDATION STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND SPACING
CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE
SHEATHING AS SPECIFIED
SIDING AS SPECIFIED
2 X 4 SILL PLATE
2 X RIM JOIST
8" SOLID MASONRY CAP
4" CONCRETE BLOCK
4" BRICK VENEER
GRADE

TYPICAL WALL DETAIL
SCALE 3/4" = 1'-0"

DECK STAIR NOTES

SECTION AM110

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 out 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.

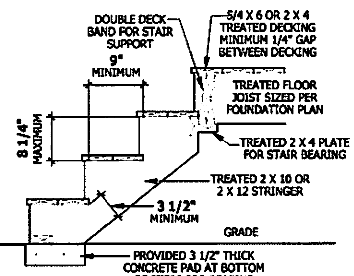

DOUBLE DECK BAND FOR STAIR SUPPORT
9" MINIMUM
5/4 X 6 OR 2 X 4 TREATED DECKING MINIMUM 1/4" GAP BETWEEN DECKING
TREATED FLOOR JOIST SIZED PER FOUNDATION PLAN
8 1/4" MAXIMUM
TREATED 2 X 4 PLATE FOR STAIR BEARING
TREATED 2 X 10 OR 2 X 12 STRINGER
3 1/2" MINIMUM
GRADE
PROVIDED 3 1/2" THICK CONCRETE PAD AT BOTTOM OF STEPS FOR BEARING

FIGURE AM110
TYPICAL DECK STAIR DETAIL
SCALE 3/4" = 1'-0"

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.

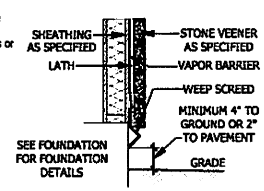
AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall 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 and the following:

POST SIZE	MAX TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
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.



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 Building code.

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

SMOKE ALARMS

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 permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by an *approved* supervising station and be maintained in accordance with NFPA 72.

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

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

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* below the upper level.

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

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

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.

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. Winder treads shall have a minimum tread depth of 9 inches (229 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 4 inches (102 mm) at any point.

R311.7.4.3 Profile. The radius of curvature at the nosing shall be no greater than 9/16 inch (14 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid 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 surface of ramp slope, shall be not less than 34 inches (864 mm)and not more than 38 inches (965 mm).

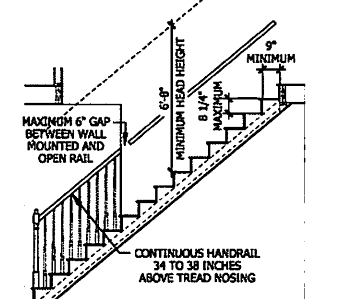
Exceptions:

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

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

Exceptions:

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



TYPICAL STAIR DETAIL
SCALE 1/4" = 1'-0"

TYPICAL DETAILS

SINCLAIR

WEAVER HOMES
919.620.2100 • 919.606.1606

HAYNES HOME PLANS, INC.

SQUARE FOOTAGE

HEATED	
FIRST FLOOR	1351 SQ.F
PLAYROOM	221 SQ.F
TOTAL	1572 SQ.F
HEATED OPTIONAL	
HALF BATH	28 SQ.F
TOTAL	28 SQ.F
UNHEATED	
FRONT PORCH	134 SQ.F
GARAGE	447 SQ.F
REAR PORCH	113 SQ.F
TOTAL	694 SQ.F
UNHEATED OPTIONAL	
THIRD GARAGE	307 SQ.F
TOTAL	307 SQ.F

3/6/2020

190320B

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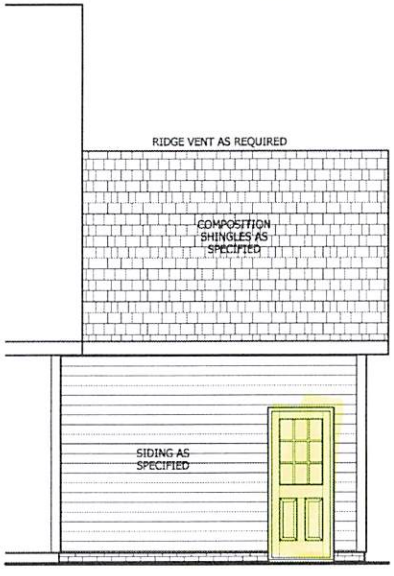
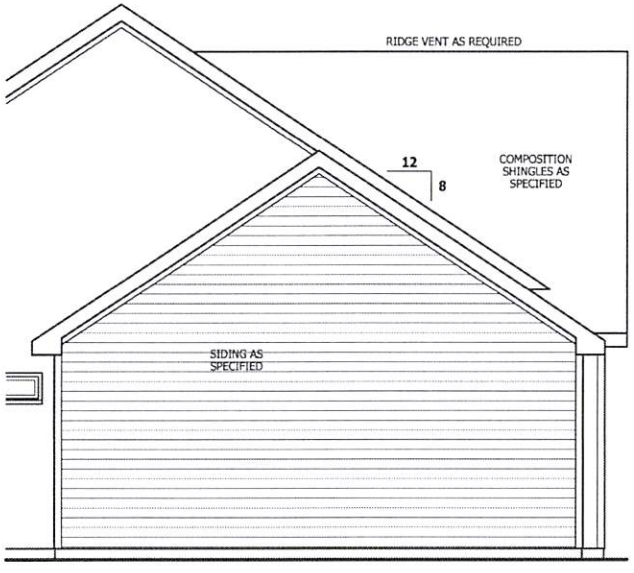


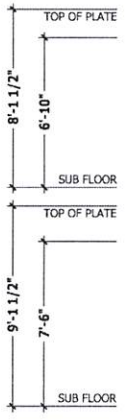
REAR ELEVATION

SCALE 1/4" = 1'-0"



LEFT SIDE ELEVATION

SCALE 1/4" = 1'-0"



FRONT ELEVATION

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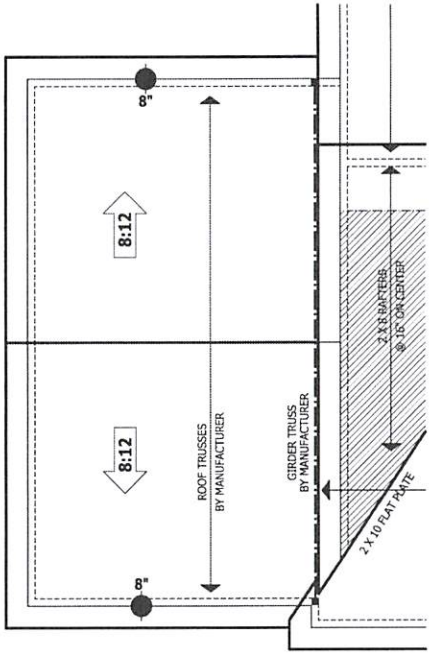
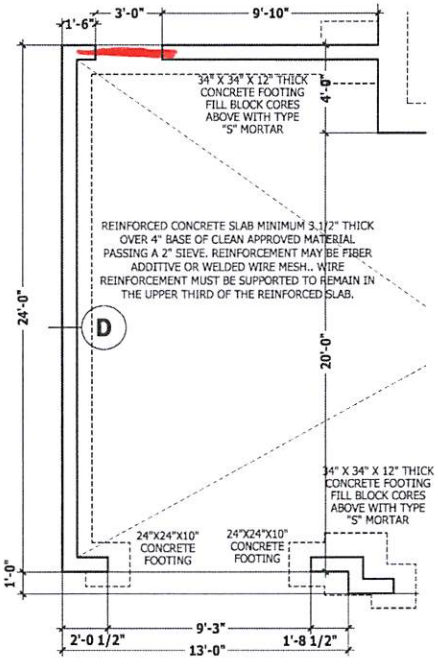


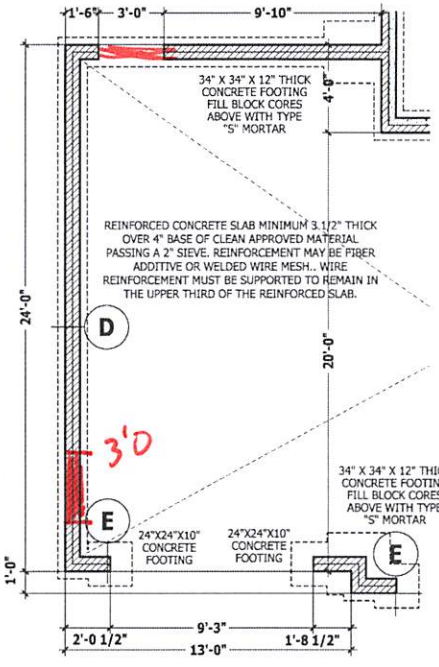
ROOF PLAN

SCALE 1/4" = 1'-0"



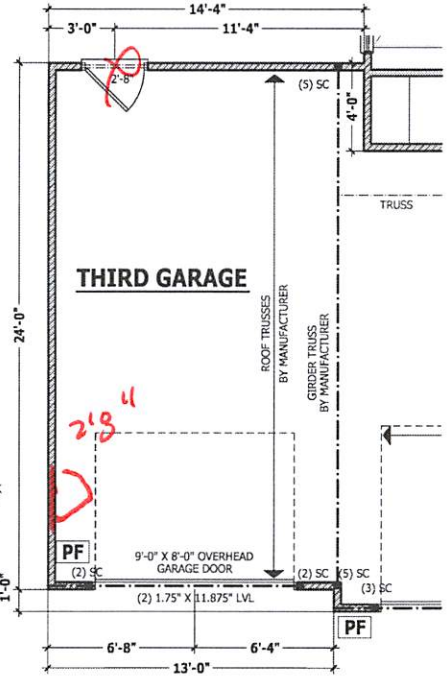
MONOLITHIC PLAN

SCALE 1/4" = 1'-0"



CRAWL / STEMWALL PLAN

SCALE 1/4" = 1'-0"



FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

THIRD CAR GARAGE

SINCLAIR

WEAVER HOMES

HAYNES HOME PLANS, INC.

SQUARE FOOTAGE	
HEATED	
FIRST FLOOR	1351 SQ.F
PLAYROOM	221 SQ.F
TOTAL	1572 SQ.F
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TOTAL	28 SQ.F
UNHEATED	
FRONT PORCH	134 SQ.F
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REAR PORCH	113 SQ.F
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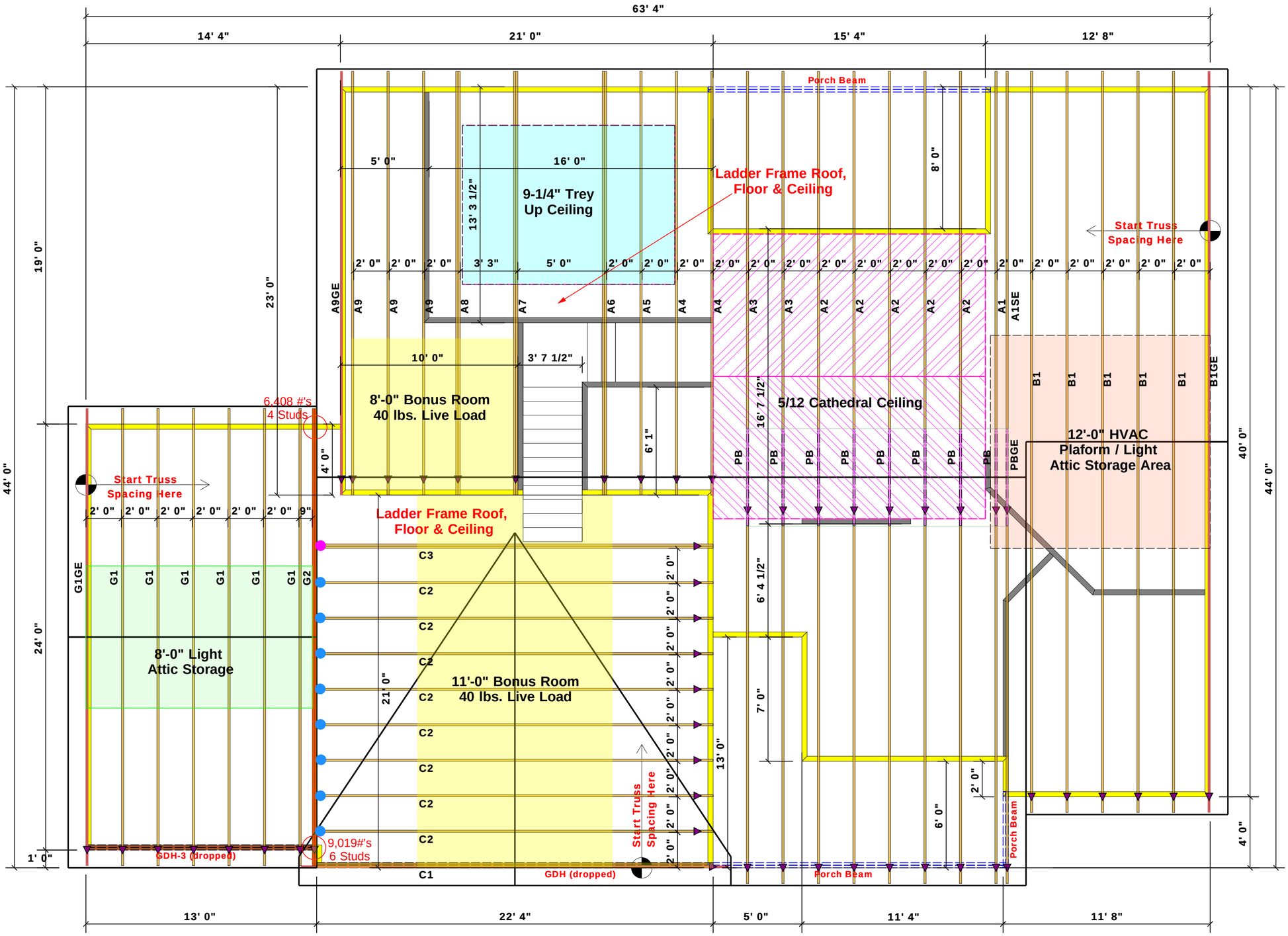
3/6/2020

190320B

ADDENDUM



● = THD26-2 (Qty. 1)

● = HUS26 (Qty. 8)

Truss Placement Plan
SCALE: 1/4" = 1'0"

▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)

Products				
PlotID	Length	Product	Plies	Net Qty
GDH-3 (dropped)	13' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2
GDH (dropped)	23' 0"	1-3/4"x 14" LVL Kerto-S	2	2

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature _____

Lenny Norris

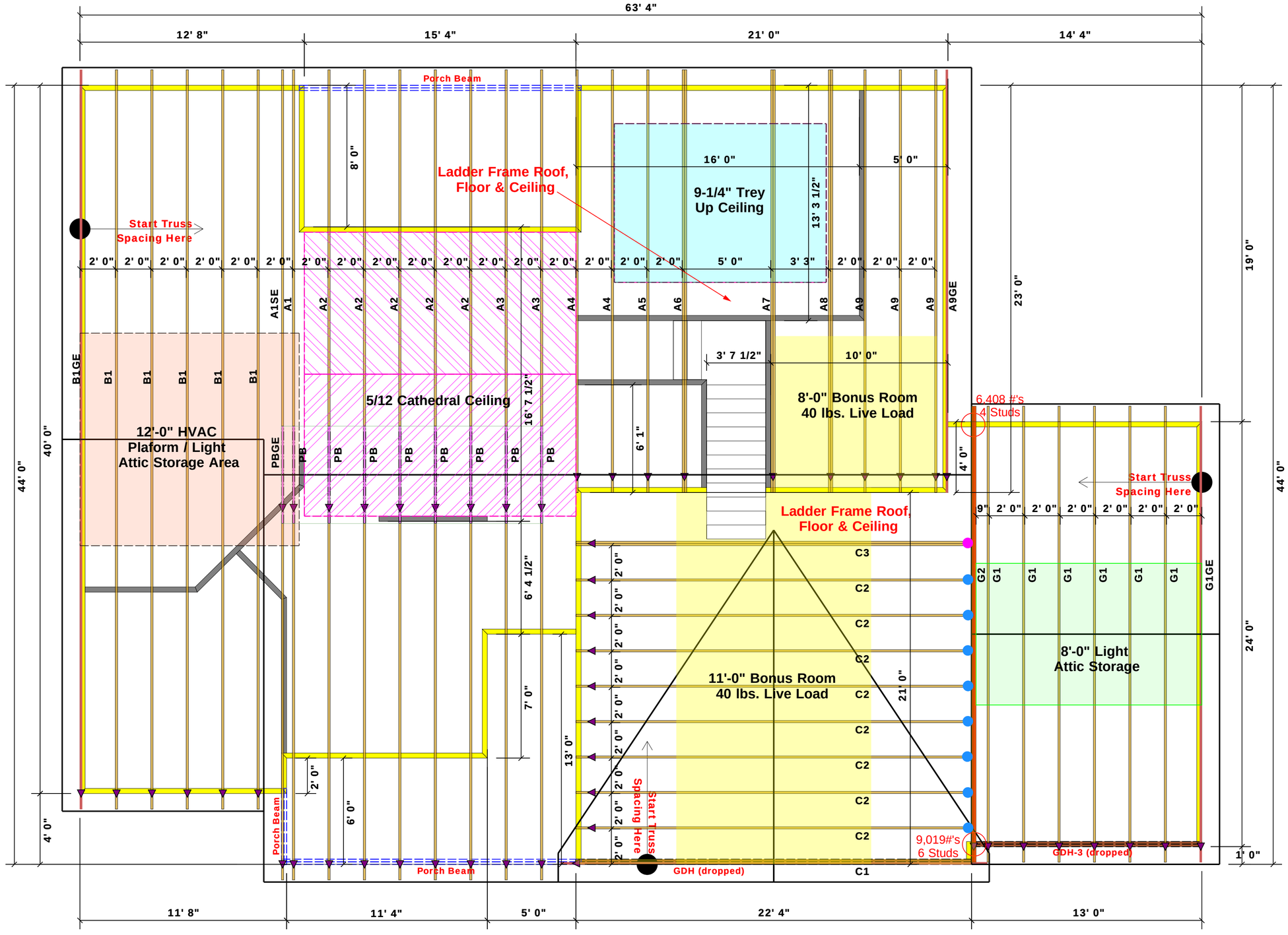
LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (2))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

END REACTION (LBS)	REQ'D # STUDS FOR (2) 1-1/2" HEADER	END REACTION (LBS)	REQ'D # STUDS FOR (3) 1-1/2" HEADER	END REACTION (LBS)	REQ'D # STUDS FOR (4) 1-1/2" HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Weaver Development Co. Inc.
JOB NAME	Lot 27 Mitchell Manor
PLAN	Sinclair w/ 3rd Car (190320B)
SEAL DATE	Seal Date
QUOTE #	Quote #
JOB #	J0520-2117
COUNTY	Harnett
ADDRESS	Lot 27 Mitchell Manor
MODEL	Model
DATE REV.	/ /
DRAWN BY	Lenny Norris
SALESMAN	Lenny Norris



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15300	9				

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