

**PLANS DESIGNED TO THE
2012 NORTH CAROLINA STATE
RESIDENTIAL BUILDING CODE**

CLIMATE ZONE	ZONE 3	ZONE 4	ZONE 5
PERMANENT INSULATION	0.55	0.55	0.55
CEILING INSULATION SPEC.	0.50	0.50	0.50
CEILING R-VALUE	3.0	3.8	3.8
FLOOR INSULATION SPEC.	1.5	1.5	1.5
FLOOR R-VALUE	1.3	1.3	1.3
FOUNDATION INSULATION SPEC.	0	0	0
FOUNDATION R-VALUE	10/13	10/13	10/13
FOUNDATION INSULATION SPEC.	0	0	0
FOUNDATION R-VALUE	10/13	10/13	10/13
FOUNDATION INSULATION SPEC.	0	0	0
FOUNDATION R-VALUE	10/13	10/13	10/13

ROOF VENTILATION

SECTION R806
Roof ventilation required enclosed attics and enclosed rafter spaces formed where ceilings are spaced directly to the underside of roof rafters protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.5 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 mesh having a mesh size of 1/8 inch (3.2 mm) maximum. The least dimension of 1/16 inch (1.5 mm) minimum and 1/4 inch (6.4 mm) maximum, openings in roof framing members shall conform to the requirements of Section R802.7.

1. The least net free ventilating area shall not be less than 1/150 of the area of the roof. The least net free ventilating area shall not be less than 1/200 of the area of the required ventilating area is provided by ventilators located on the upper portion of the space to be ventilated at least 18 inches (457 mm) above the ceiling. As an alternative, the required ventilation provided by one or more ventilators shall be the net free cross-ventilation area may be reduced to 1/200 when a class 1 or II vapor retarder is installed on the warm-in-winter side of the ceiling.

Exceptions:
1. Enclosed attic/rafter space 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 spaces may be vented with continuous soffit vent only.

SQUARE FOOTAGE OF ROOF TO BE VENTED = 1,231 SQ.FT.
NET FREE CROSS VENTILATION NEEDED:
WITHOUT 50% TO 80% OF VENTING: 3'-0" ABOVE EAVE = 8.81 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 = 4.40 SQ.FT.



FRONT ELEVATION - B

SCALE 1/8" = 1'-0"

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 at least 36 inches (914 mm) high, measured vertically above the adjacent walking surface, adjacent finished landing or balconies.

1. Guards on the open sides of stairs shall have a height not less than 34 inches (865 mm) measured vertically from a line connecting the leading edges of the treads.

2. The top of the guard shall not be less than 34 inches (865 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

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

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

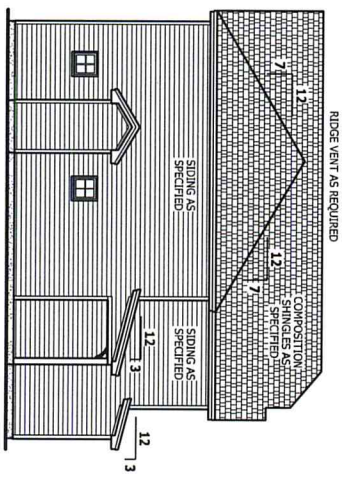
2. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 43/8 inches (111 mm) in diameter.

SQUARE FOOTAGE

HEATED	UNHEATED
FIRST FLOOR	775 SQ.FT.
SECOND FLOOR	1110 SQ.FT.
TOTAL	1885 SQ.FT.
GARAGE	449 SQ.FT.
FRONT PORCH	86 SQ.FT.
TOTAL	535 SQ.FT.

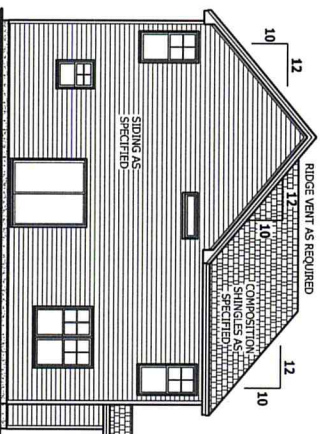
AIR LEAKAGE

Section M1102.4
M1102.4.1 building thermal envelope. The building thermal envelope shall be airtight sealed with an air barrier system to limit air leakage. The sealing method between dissimilar materials shall be as follows: 1. The following shall be caulked, gasketed, weatherstripped or otherwise sealed with an air barrier material or seal material consistent with Appendix E-2.1 of this code: a. All exterior doors and windows. b. All exterior doors and windows open to the outdoors or to other spaces and under-frame seals. c. All exterior doors and windows open to the outdoors or to other spaces and under-frame seals. 2. Capping and sealing soffits or dropped ceiling areas. 3. Capping and sealing soffits or dropped ceiling areas.



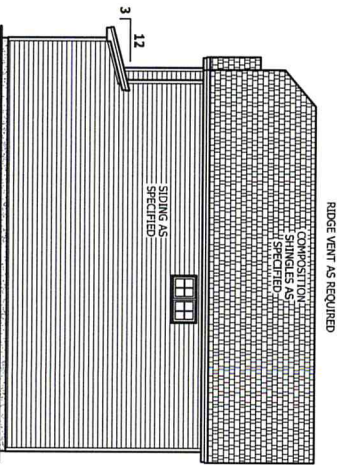
LEFT SIDE ELEVATION

SCALE 1/8" = 1'-0"



REAR ELEVATION

SCALE 1/8" = 1'-0"



RIGHT SIDE ELEVATION

SCALE 1/8" = 1'-0"

SQUARE FOOTAGE

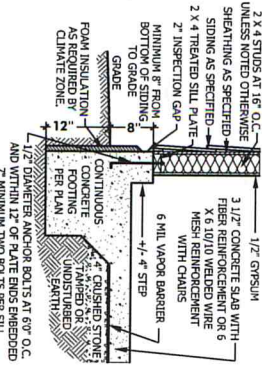
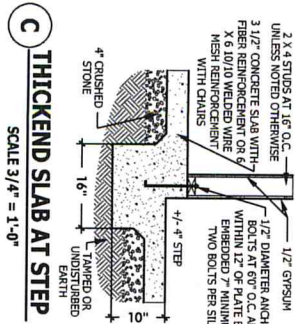
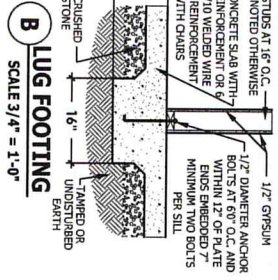
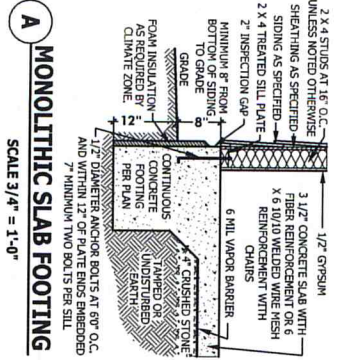
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HAYNES HOME PLANS, INC.

BEN STOUT Construction

FRONT ELEVATION - B
Northbrook 1885-212
Lot 22 Lakedale

PACKAGE NOT DESIGNED FOR CONSTRUCTION. ALL DIMENSIONS AND CONDITIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

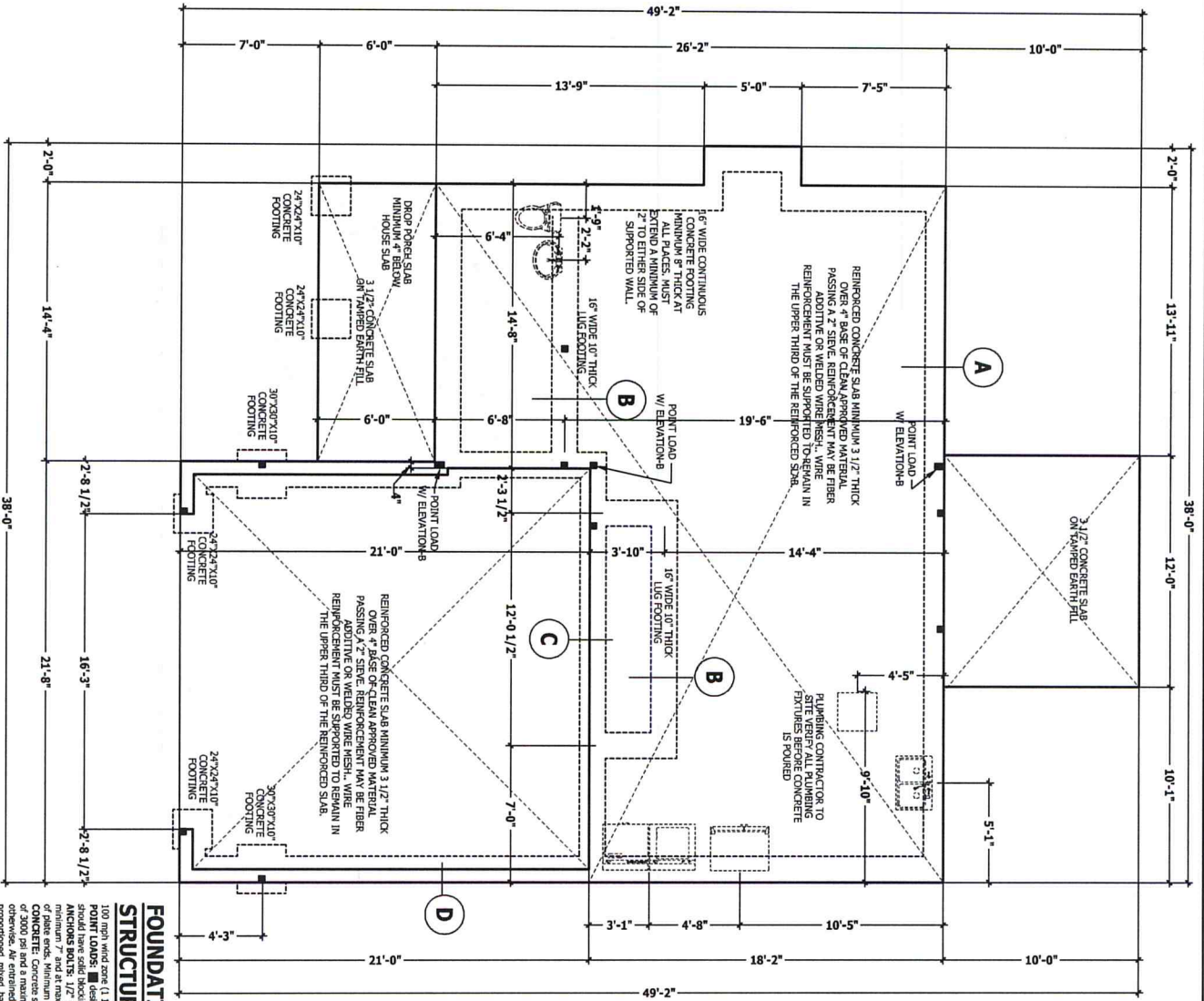


A MONOLITHIC SLAB FOOTING
SCALE 3/4\" = 1'-0"

B LUG FOOTING
SCALE 3/4\" = 1'-0"

C THICKEND SLAB AT STEP
SCALE 3/4\" = 1'-0"

D MONOLITHIC SLAB FOOTING
SCALE 3/4\" = 1'-0"



MONOLITHIC SLAB PLAN
SCALE 1/4\" = 1'-0"

FOUNDATION STRUCTURAL

100 lbs. per sq. ft. (1.12 to 2.17 day)

POINT LOADS: 1. 1 1/2\" diameter anchor bolts and 2. 1 1/2\" diameter anchor bolts should have side backing to pier, girder or foundation wall.

ANCHOR BOLTS: 1 1/2\" diameter anchor bolts embedded minimum 7\" and at maximum 6'-0\" on center and within 12\" of edge of concrete.

CONCRETE: Concrete shall have a minimum 38 day strength of 3000 psi and a maximum slump of 5\" unless noted otherwise. All entrained per table 402.2. All concrete shall be proportioned, mixed, hand-dumped, tested, and placed in accordance with the manufacturer's instructions for pumping shall be taken from the east end of the pour.

SOILS: Allowable soil bearing pressure assumed to be 2000 psf. The contractor must conduct a geotechnical engineer and a structural engineer if satisfactory subsurface conditions will not be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.

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MONOLITHIC SLAB PLAN
Northbrook 1885-212
Lot 22 Lakedale

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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 the attention of the architect and the truss manufacturer. Trusses shall be designed for a minimum snow load of 20 psf. **KNEE WALL AND CEILING HEIGHTS.** If for any reason the truss manufacturer fails to meet or exceed designated knee heights, finished knee wall heights, or finished ceiling height shown on these drawings the finished square footage may vary. Any discrepancy must be brought to the attention of the architect and the truss manufacturer before construction begins. Any variation due to these conditions will be the responsibility of the truss manufacturer. **ANCHORAGE.** All required anchors for trusses due to uplift or bearing shall meet the requirements specified on the truss schematics. Trusses shall be anchored to the foundation as designed for bearing on SFR #2 plates or ledgers unless noted otherwise.

EXTERIOR WINDOWS AND DOORS

SECTION R612

R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in walls. Windows and doors shall be installed and operated in accordance with the manufacturer's written instructions. Manufacturer's window and door openings shall be finished in accordance with Section R202.4. Installation instructions shall be provided by the fenestration manufacturer for each window or door.

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

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

2. Openings that are provided with window fall prevention devices that comply with Section R202.4.

3. Windows that are provided with fall prevention devices that comply with ASTM F 2090.

4. Windows that are provided with opening limiting devices that comply with Section R612.4.

R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.

DWELLING / GARAGE SEPARATION

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

Walls and floors separating the dwelling from the garage shall be constructed on all walls supporting floor/ceiling assemblies used for separation required by this section.

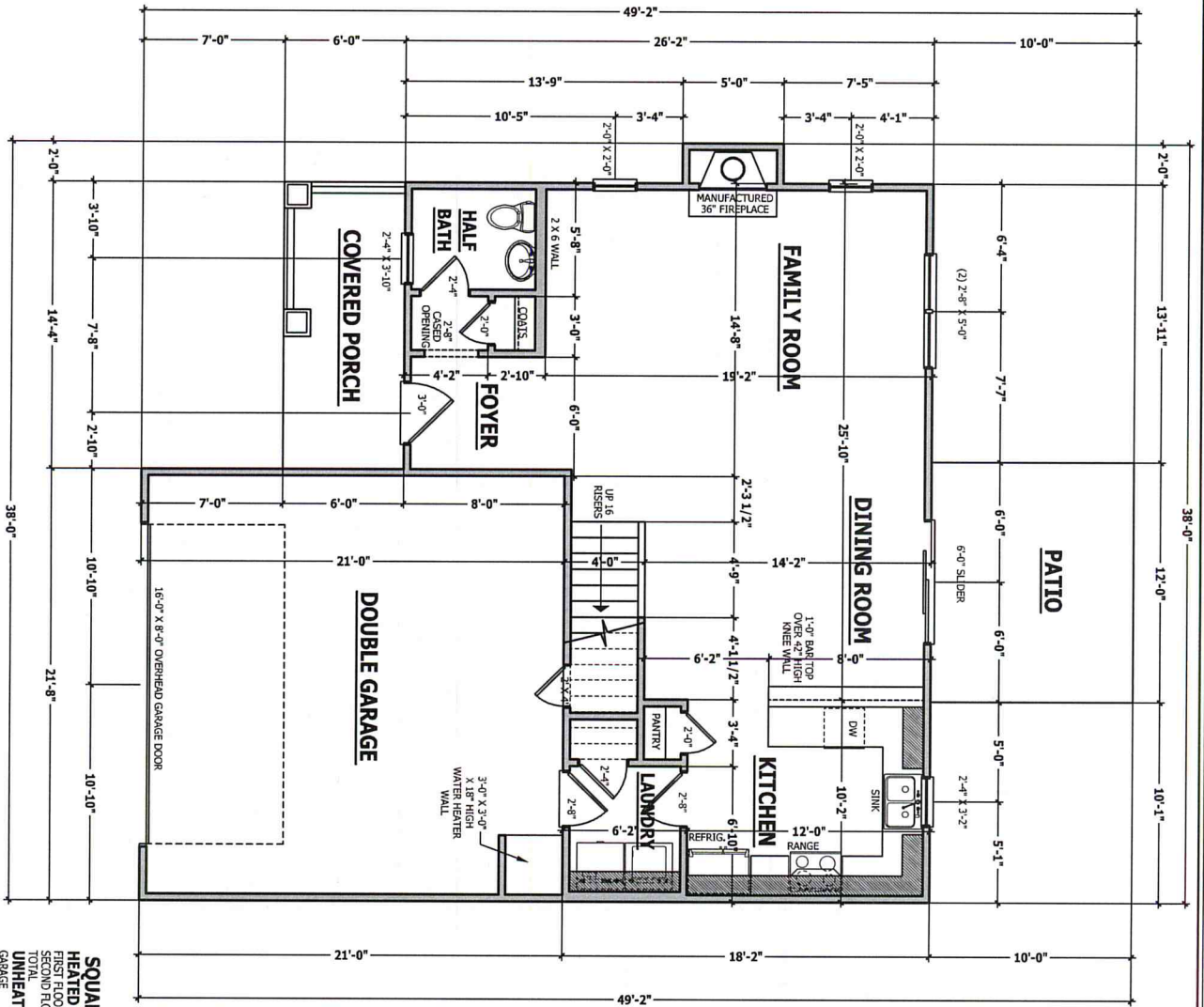
STAIRS. A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

CEILING. A minimum of 1/2" gypsum must be installed on the garage ceiling if there are any openings into the garage from the dwelling.

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 noncombustible 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 dwelling.

SEPARATION MEASUREMENTS. Measurements through the separation required in Section R302.6 shall be measured as required by Section R302.11, Item 4.



FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

SQUARE FOOTAGE	
HEATED	775 SQ. FT.
FIRST FLOOR	1110 SQ. FT.
SECOND FLOOR	1885 SQ. FT.
TOTAL	3000 SQ. FT.
UNHEATED	449 SQ. FT.
GARAGE	86 SQ. FT.
FRONT PORCH	535 SQ. FT.
TOTAL	535 SQ. FT.

PROVIDER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. MAKES NO WARRANTY, REPRESENTATION, OR CONTRACT FOR THE ACCURACY OF THESE DRAWINGS. THE USER SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR THE PERSONS.

FIRST FLOOR PLAN
Northbrook 1885-212
Lot 22 Lakedale

BEN STOUT
Construction
COMMERCIAL & RESIDENTIAL

HAYNES HOME PLANS, INC.
P.O. Box 702, Wake Forest, NC 27888 919-435-6180 Fax 1-866-491-0396

SQUARE FOOTAGE	
HEATED	775 SQ. FT.
FIRST FLOOR	1110 SQ. FT.
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TOTAL	3000 SQ. FT.
UNHEATED	449 SQ. FT.
GARAGE	86 SQ. FT.
FRONT PORCH	535 SQ. FT.
TOTAL	535 SQ. FT.

STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2012 International Residential Building Code and 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 responsibility for contractor practices and procedures or safety practices on the job site. The contractor shall be responsible for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be trained, anchored, and braced in accordance with good construction practice and the building code.

USE	(SF)	(SF)	(L)
Attics without storage	10	10	1/240
Attics with limited storage	20	10	1/360
Attics with full storage	40	10	1/480
Basements and cellars	40	10	1/360
Garage and porches	200	10	1/360
General livable floors	50	10	1/360
Passenger vehicle garages	50	10	1/360
Rooms other than sleeping	40	10	1/360
Sleeping rooms	30	10	1/360
Stairs	40	10	1/360

FRAMING MEMBERS: All non-bearing framing lumber shall be SPF #2 (Fb = 975 PSI) unless noted otherwise.

ENGINEERED WOOD BEAMS: Laminated veneer lumber (LVL) - 19-2001 PSI, 4+363 PSI, E=1,840,000 PSI. Parallel strand lumber (PSL) - 19-2500 PSI, 4+363 PSI, E=1,840,000 PSI. Glue laminated timber (GLT) - 19-2500 PSI, 4+363 PSI, E=1,840,000 PSI. All conditions per manufacturer's instructions.

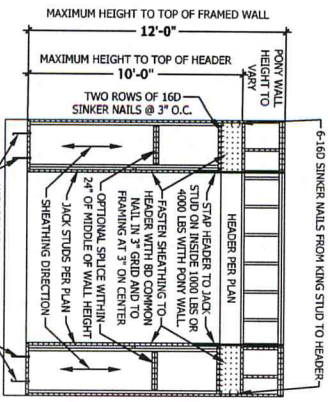
TRUSS AND JOIST MEMBERS: All roof truss and joist members shall be prepared in accordance with this document. Trusses shall be installed according to the manufacturer's instructions. All trusses shall be installed in accordance with the manufacturer's instructions. All trusses shall be installed in accordance with the manufacturer's instructions.

SOILS: Allowable soil bearing pressure assumed to be 2000 PSF. The contractor must conduct a geotechnical engineer and a structural engineer of satisfactory professional conditions and a soil test shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.

HEADER SCHEDULE

COMMON LOAD BEARING HEADERS	SIZE	COLUMNS
H-1	(2) 2 X 4	1 JACK 1 KING
H-2	(2) 2 X 6	1 JACK 1 KING
H-3	(2) 2 X 8	2 JACKS 1 KING
H-4	(2) 2 X 10	2 JACKS 1 KING
H-5	(2) 2 X 12	2 JACKS 1 KING
H-6	(2) 1.75" X 3.25" LVL	3 JACKS 1 KING

ALL COMMON LOAD BEARING HEADERS TO BE 1.75" X 3.25" LVL UNLESS NOTED OTHERWISE.

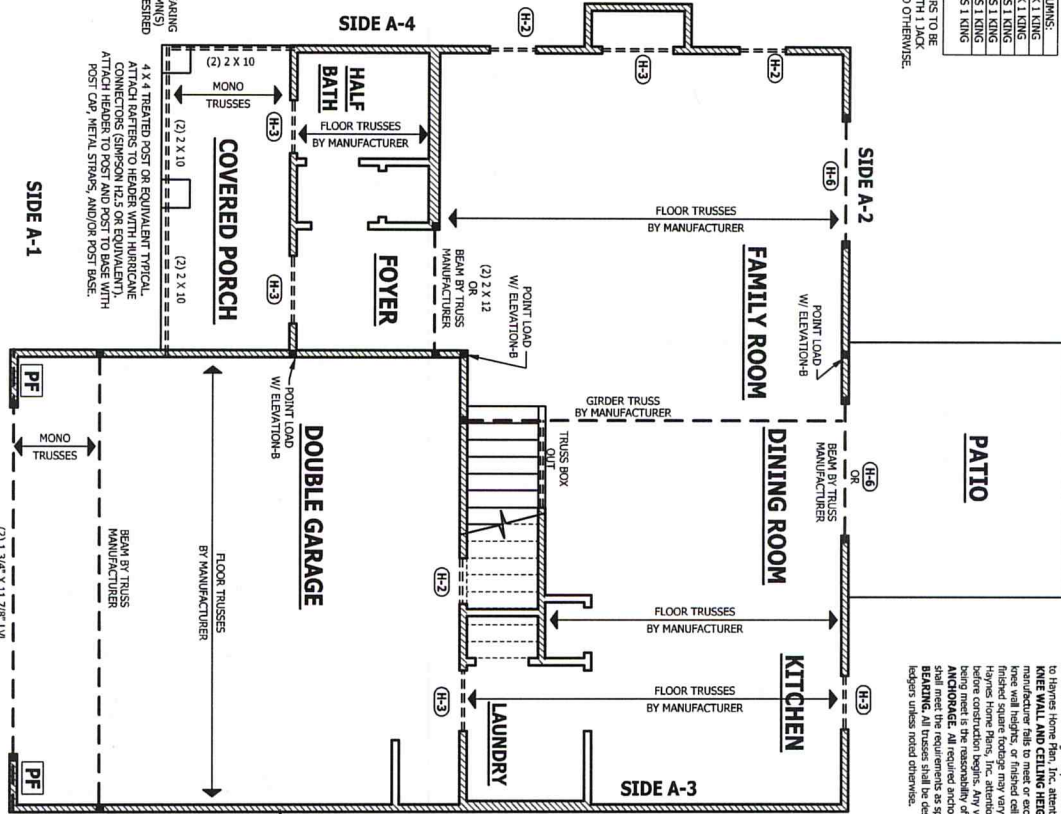


PF PORTAL FRAME AT OPENING
(METHOD PER PERICTION R602.10.1)
SCALE 1/4" = 1'-0"

BRACE WALL PANEL NOTES

EXTENSION WALLS: All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with the manufacturer's instructions. All interior walls, and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R602.3.5. Method GB to be required length of BRACING. Required brace wall length for each side of the circumference rectangle are indicated per table R602.10.1.3. Methods CS-WSP and CS-SFB contribute their actual length to the total length of bracing. Method PF contributes 1.5 times its actual length.

Methods: Per Table R602.10.1
CS-WSP: Shall be minimum 3/8" OSB or CDX called 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 called at 6" on center at edges and 7" on center at intermediate supports with minimum 5d code PF. Portal frame per figure R602.10.1.



ROOF TRUSS REQUIREMENTS

TRUSS DESIGN: Trusses to be designed and engineered in accordance with the manufacturer's instructions. All trusses shall be installed in accordance with the manufacturer's instructions. All trusses shall be installed in accordance with the manufacturer's instructions.

KNEE WALL AND CEILING HEIGHTS: If for any reason the truss manufacturer is able to meet or exceed designated heel heights, finished floor wall height, or finished ceiling height shown on these drawings the contractor shall be responsible for providing 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.

FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
1	36' 0"	13' 1"	15' 5"
2	36' 0"	21' 0"	21' 0"
3	36' 0"	13' 6"	21' 0"
4	36' 0"	13' 6"	34' 6"

MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
1	36' 0"	13' 1"	15' 5"
2	36' 0"	21' 0"	21' 0"
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MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
1	36' 0"	13' 1"	15' 5"
2	36' 0"	21' 0"	21' 0"
3	36' 0"	13' 6"	21' 0"
4	36' 0"	13' 6"	34' 6"

MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
1	36' 0"	13' 1"	15' 5"
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MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
1	36' 0"	13' 1"	15' 5"
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4	36' 0"	13' 6"	34' 6"

MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
1	36' 0"	13' 1"	15' 5"
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MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
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MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
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MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
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4	36' 0"	13' 6"	34' 6"

MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
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MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
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MAX EAVE TO RIDGE SPEED	BRACE WALL FACTORS	
	WIND EXPOSURE	SEISMIC CATEGORY
10' 0"	B	A OR B

SIDE	LENGTH	REQUIRED BRACING	
		REQUIRED	PROVIDED
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2	36' 0"	21' 0"	21' 0"
3	36' 0"	13' 6"	21' 0"
4	36' 0"	13' 6"	34' 6"

MAX EAVE TO RID

HEADER SCHEDULE

COMMON LOAD BEARING HEADERS	SIZE	COLUMNS
H-1	(2) 2 X 4	1 JACK 1 KING
H-2	(2) 2 X 6	1 JACK 1 KING
H-3	(2) 2 X 8	2 JACKS 1 KING
H-4	(2) 2 X 10	2 JACKS 1 KING
H-5	(2) 2 X 12	3 JACKS 1 KING
H-6	(2) 2 X 12	3 JACKS 1 KING
H-7	9.25" LVL	

- ALL NON-LOAD BEARING HEADERS TO BE LADDER FRAMED OR (2) X 4 WITH 1 JACK AND 1 KING STUD UNLESS NOTED OTHERWISE.

STRUCTURAL NOTES

All construction shall conform to the latest requirements of the International Building Code, the International Residential Code and all applicable 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 contractor practices and procedures. The contractor shall be responsible for the safety of all workers on the job site. The contractor shall be responsible for the safety of all workers on the job site. The contractor shall be responsible for the safety of all workers on the job site.

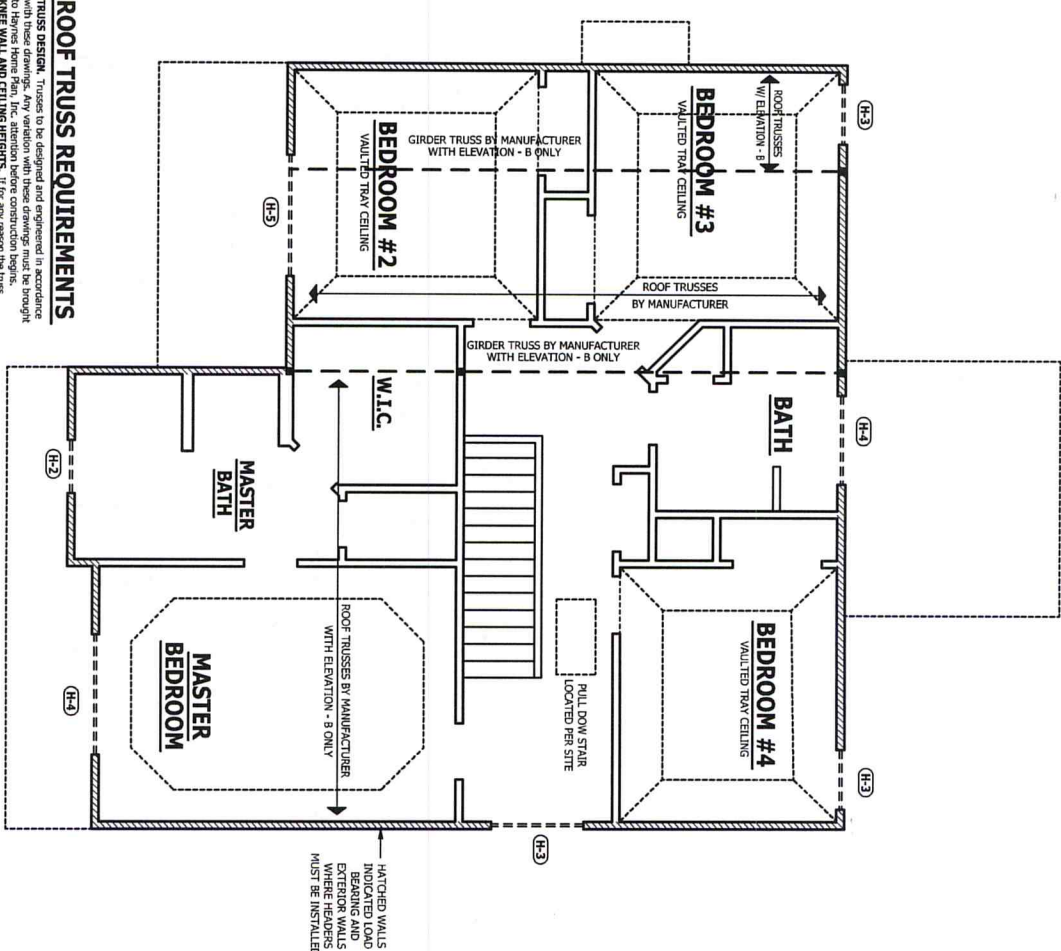
DESIGN LOADS	USE	TRUSS (PSF)	CEILING (PSF)	FLOOR (PSF)	WALL (PSF)
Attics without storage	10	10	L/240		
Attics with limited storage	20	10	L/240		
Attics with full storage	40	10	L/240		
Bedroom and decks	40	10	L/240		
Garage	40	10	L/240		
Garage in full components	50	10	L/240		
Passenger vehicle garage	40	10	L/240		
Rooms other than sleeping	30	10	L/240		
Sleeping rooms	40	10	L/240		
Stairs	20				

PLAINING LUMBER: All non-treated framing lumber shall be specified as SYP #2 (F_v = 975 PSI) unless noted otherwise.

ENGINEERED WOOD BEAMS: Laminated veneer lumber (LVL) - 70-2500 PSI, 4x8 SPS, E=1,910,000 PSI. Parallel strand lumber (PSL) - 70-2500 PSI, 4x8 SPS, E=1,910,000 PSI. I-joists - 1600 PSI, E=1,500,000 PSI. All joists shall be installed in accordance with the manufacturer's instructions.

TRUSS AND JOIST MEMBERS: All roof truss and I-joist trusses shall be prepared in accordance with the manufacturer's instructions. All truss and I-joist members shall be installed in accordance with the manufacturer's instructions.

CONCRETE: All concrete shall be placed in accordance with the manufacturer's instructions. All concrete shall be placed in accordance with the manufacturer's instructions. All concrete shall be placed in accordance with the manufacturer's instructions. All concrete shall be placed in accordance with the manufacturer's instructions.



ROOF TRUSS REQUIREMENTS
 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.
TRUSS DESIGN: Trusses shall 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.
MANUFACTURER: Trusses shall be manufactured by a manufacturer able to meet or exceed designated load heights, finished square footage may vary. Any discrepancy on site should 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 meet the requirements of the truss manufacturer.
INSTALLATION: Trusses shall be installed in accordance with the manufacturer's instructions. All trusses shall be designed for bearing on SPS #2 plates or ledgers unless noted otherwise.

SECOND FLOOR STRUCTURAL
 SCALE 1/4" = 1'-0"

BRACING NOT SHOWN ON UPPER STORY PER R602.10.3.2 (5) & (6)

HAYNES HOME PLANS, INC.

P.O. Box 702, Wake Forest, NC 27588 919-435-8180 Fax 1-866-681-0398

BEN STOUT Construction

COMMERCIAL & RESIDENTIAL

SECOND FLOOR STRUCTURAL

Northbrook 1885-212

Lot 22 Lakedale

DISCLAIMER: WESTERN ALL INFORMATION IS FOR INFORMATIONAL PURPOSES ONLY. THIS DOCUMENT IS NOT A CONTRACT. CONTRACTS ARE TO BE MADE BY THE CONTRACTOR AND OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

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 9/4/2014
 140903B
 PAGE 6 OF 9

SQUARE FOOTAGE

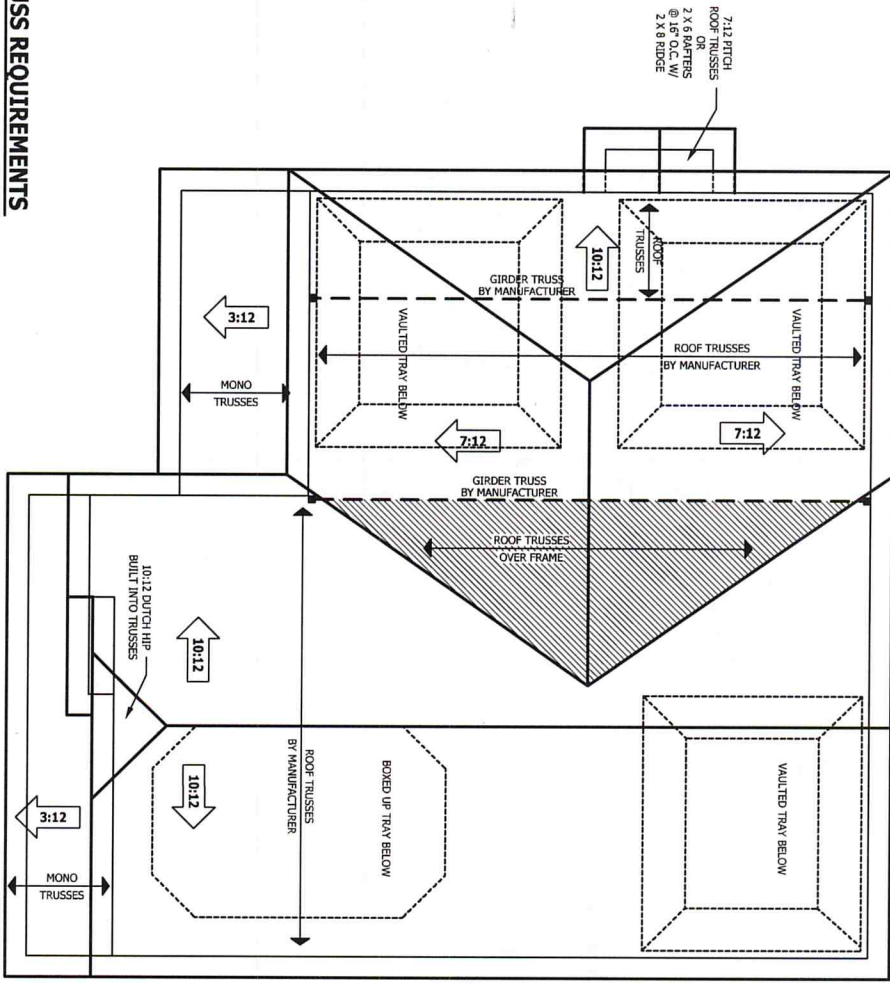
FIRST FLOOR: 773 SQ. FT.
 SECOND FLOOR: 1188 SQ. FT.
 TOTAL: 1961 SQ. FT.
 UNFINISHED: 441 SQ. FT.
 OVER FLOOR: 25 SQ. FT.

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 the attention of the truss manufacturer. If for any reason the truss manufacturer fails to meet or exceed designated head heights, finished frame wall heights, or finished ceiling height shown on these drawings the finished square footage may vary. Any discrepancy must be brought to the attention of the truss manufacturer 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.

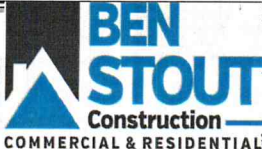


ROOF PLAN WITH ELEVATION - B

SCALE 1/4" = 1'-0"

PACKAGES MUST BEY ALL
 BEFORE CONSTRUCTION BEGINS.
 HAYNES HOME PLANS, INC.
 CONTRACTORS, MANUFACTURERS AND
 OTHERS ARE ADVISED THAT ANY
 CHANGES OR VARIATIONS MAY
 BE NECESSARY. IT IS THE BUYER'S
 RESPONSIBILITY TO VERIFY ALL
 DIMENSIONS AND CONDITIONS
 BEFORE CONSTRUCTION.
 THE BUYER'S CONTRACTOR
 SHALL BE RESPONSIBLE FOR
 VERIFYING ALL DIMENSIONS AND
 CONDITIONS OF THE SITE AND
 PROPERTY OF THE DESIGNER.

ROOF PLAN WITH ELEVATION - B
Northbrook 1885-212
 Lot 22 Lakedale



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 P.O. Box 702, Wake Forest, NC 27588 919-435-6180 Fax 1-866-481-0396

SQUARE FOOTAGE
775 SQ FT
1112 SQ FT
188 SQ FT
UNFINISHED
188 SQ FT
188 SQ FT
TOTAL
2225 SQ FT

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 9/4/2014
 140903B
 PAGE 7 OF 9

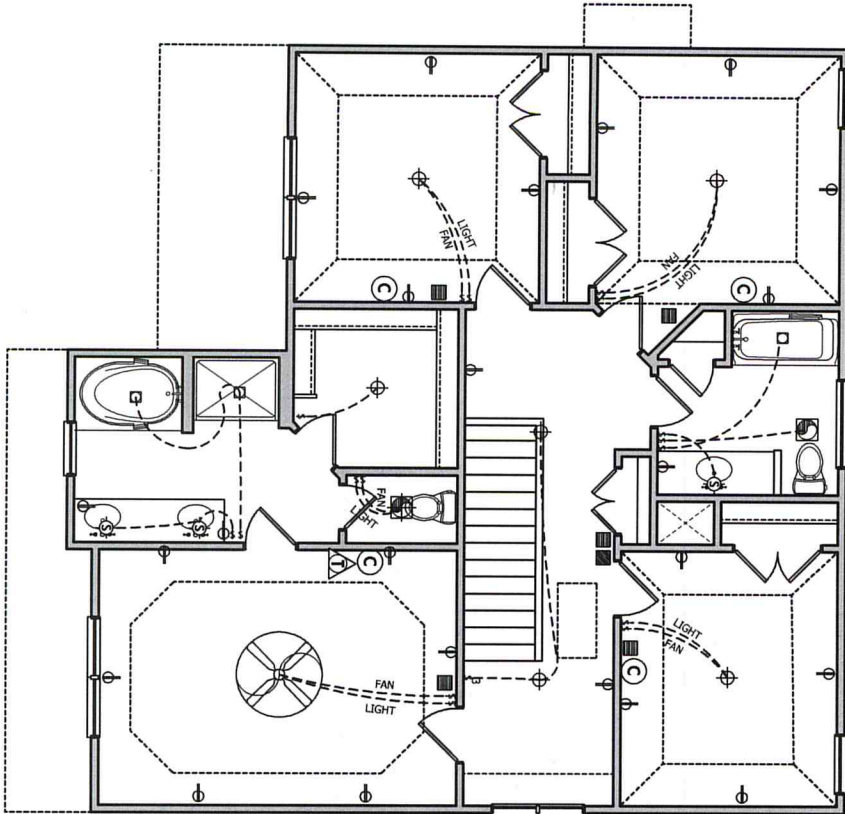
SMOKE ALARMS

SECTION R314
Smoke detection and notification. All smoke alarms shall be listed in accordance with the requirements of the National Fire Protection Association (NFPA) code and the household fire warning equipment provisions of NFPA 72.
R314.2 Smoke detection system. Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke alarms and photoelectric or ionization smoke detectors, shall be installed in accordance with NFPA 72. The house and the entire fire alarm system shall provide the same level of smoke detection and alarm as required by the section for smoke alarms. Where a household fire warning system is installed, it shall become a permitted smoke detector and audible notification device. It shall become a permitted smoke detector and audible notification device if the homeowner. The system shall be monitored by an approved supervising station and be maintained in accordance with NFPA 72.
Section R314.3. Where smoke alarms are provided meeting the requirements of R314.2 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 entrance to the sleeping room.
 3. On each additional story of the dwelling, including basements and habitable attic (finished) but not including crawl spaces, unfinished (unhabitable) attics and unfinished (unhabitable) attics. In dwellings or structures with multiple 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. Alarm is required to be located within an individual dwelling unit the alarm device shall be interconnected with the alarm device in the other dwelling units in the same building.
 The building owner shall ensure that the alarm device shall be interconnected with the alarm device in the other dwelling units in the same building 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.

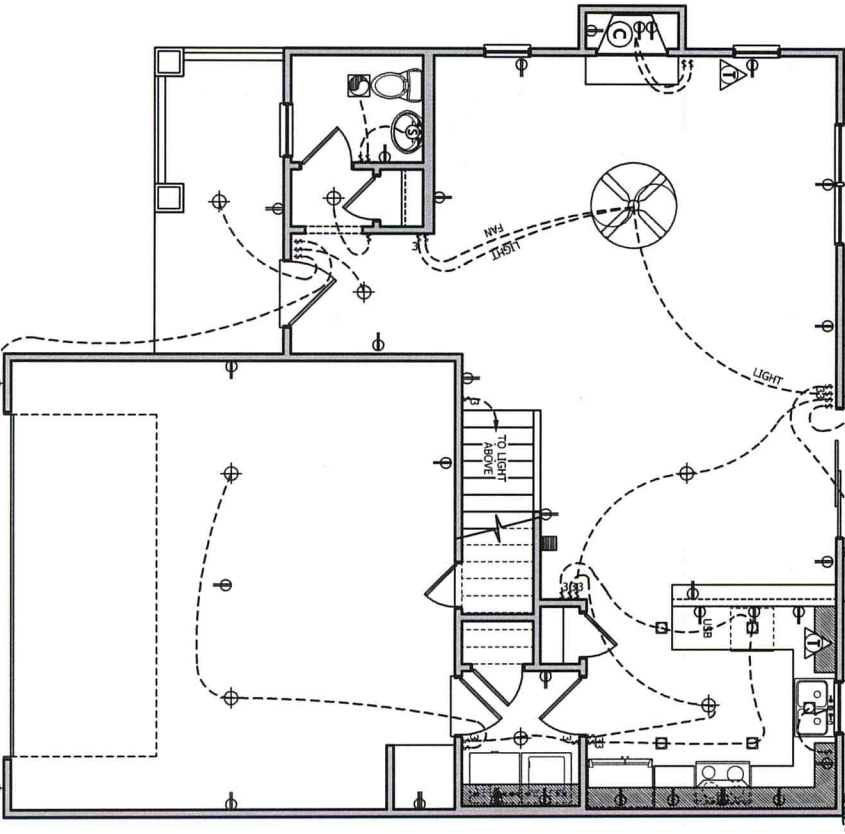
ELECTRICAL SCHEDULE						
SWITCH	⊕	CABLE TV	Ⓢ	SMOKE DETECTOR	⚡	FLOOR LIGHT
DIMMER SWITCH	Ⓢ	SPEAKER	Ⓢ	EXHAUST FAN	Ⓢ	EXHAUST FAN WITH LIGHT
THREE WAY SWITCH	Ⓢ	TELEPHONE	Ⓢ	2-0' FLORESCENT	Ⓢ	
FOUR WAY SWITCH	Ⓢ	CHIMES	Ⓢ	(2) BULB 4'-0" FLORESCENT	Ⓢ	
110 OUTLET	Ⓢ	INTERCOM	Ⓢ	(1) BULB 4'-0" FLORESCENT	Ⓢ	CEILING FAN
220 OUTLET	Ⓢ	LIGHT	Ⓢ	RECESSED LIGHT	Ⓢ	
SWITCHED 110 OUTLET	Ⓢ	SCENE	Ⓢ		Ⓢ	
GAS TIE	Ⓢ		Ⓢ		Ⓢ	

CARBON MONOXIDE ALARMS

SECTION R315
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. In existing dwellings, where interior alterations, repairs, finished appliance replacements, or additions requiring a permit occur, or where one or more sleeping rooms are added or replaced, carbon monoxide alarms shall be provided in accordance with Section R315.3 Alarm requirements. The required carbon monoxide alarms shall be installed in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed in accordance with UL 2034 and shall be installed in accordance with the code and the manufacturer's installation instructions.



SECOND FLOOR PLAN
 SCALE 1/4" = 1'-0"



FIRST FLOOR PLAN
 SCALE 1/4" = 1'-0"

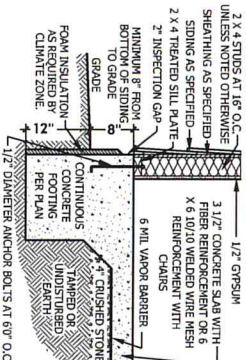
SQUARE FOOTAGE	
APPROXIMATE SQUARE FOOTAGE	1172 SQ FT
FINISHED AREA	1172 SQ FT
UNFINISHED AREA	1888 SQ FT
TOTAL AREA	3060 SQ FT
NET AREA	448 SQ FT
NET AREA	2835 SQ FT

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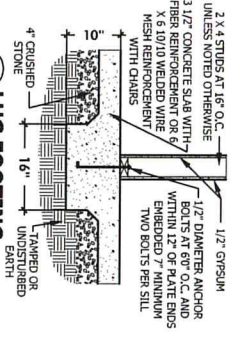
BEN STOUT Construction
 COMMERCIAL & RESIDENTIAL

ELECTRICAL
 Northbrook 1885-212
 Lot 22 Lakedale

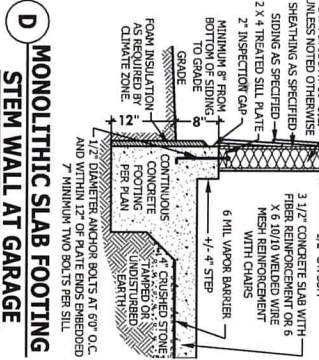
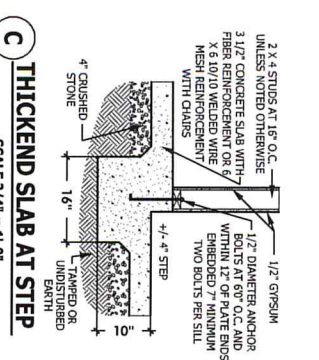
PROVIDER MUST VERIFY ALL ELECTRICAL WORK IS IN ACCORDANCE WITH ALL APPLICABLE CODES AND CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE.



A MONOLITHIC SLAB FOOTING
SCALE 3/4" = 1'-0"



B LUG FOOTING
SCALE 3/4" = 1'-0"



SMOKE ALARMS
SECTION R313.1. Smoke detector 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 housing and the warning equipment provisions of NFPA 72.

SECTION R313.2. Smoke detector system. Hardwired fire alarm systems installed in smoke detector and audible notification devices shall be installed in accordance with the manufacturer's listing and the requirements of NFPA 72.

SECTION R313.3. Location. Smoke alarms shall be installed in the following locations:
1. In each sleeping room.
2. In each sleeping area in the immediate vicinity of the bedrooms.
3. On each additional story of the dwelling, including basement and finished attics, and in each sleeping porch, including sleeping porch or sleeping porch area with solid walls and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the lower level provided that the lower level is less than one full story above the upper level.
4. In each living area, including living area, dining area, kitchen, breakfast room, family room, living room, parlor, den, study, office, or sun room, when more than one smoke alarm is required to be installed within an individual dwelling unit, the alarm device shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms in the dwelling unit.

SECTION R313.4. Power source. Smoke alarms shall receive their primary power from the building wiring when such wiring is derived from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring required for conventional protection. Smoke alarms shall be interconnected.

SECTION R313.5. Carbon monoxide alarms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each bedroom by the alarm system installer.

R313.2.2. When required in existing dwellings. In existing dwellings, where existing alterations, repairs, finished appliance replacements, or additions requiring a permit occur, or where one or more sleeping rooms are added or replaced, carbon monoxide alarms shall be provided in accordance with Section R313.1.

R313.3. Alarm requirements. The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors UL 2034 and shall be installed in accordance with the code and the manufacturer's installation instructions.

EXTERIOR WINDOWS AND DOORS
SECTION R612. This section prescribes performance and construction requirements for exterior windows and doors installed in walls, windows and doors shall be installed and opened in accordance with the manufacturer's listing and the requirements of the manufacturer's listing. Window and door openings shall be flashed in accordance with Section R703.8. Window installation instructions shall be provided by the manufacturer for each window or door.

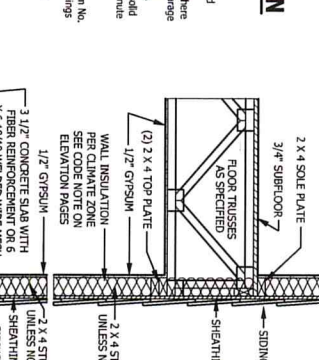
R612.1. Window egress. In dwelling units, where the opening of an operable window is located more than 22 inches (1825 mm) above the finished floor, the window shall have a minimum clear opening of 20 inches (508 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere through the opening when the opening is in its largest open position.

R612.2. Window egress. Windows shall be provided with fall prevention devices that comply with Section R612.4.

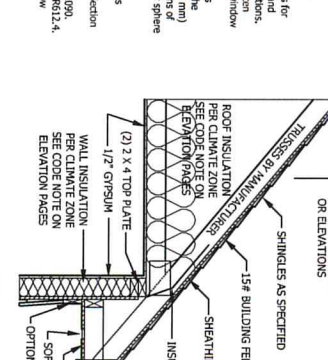
R612.3. Window egress. Windows shall be provided with fall prevention devices that comply with Section R612.4.

R612.4. Window egress. Window fall prevention devices shall comply with Section R612.4.

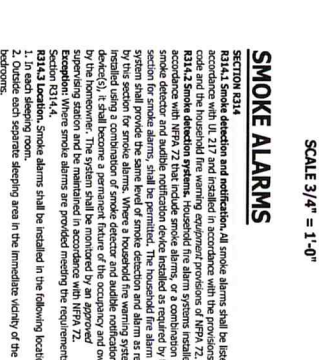
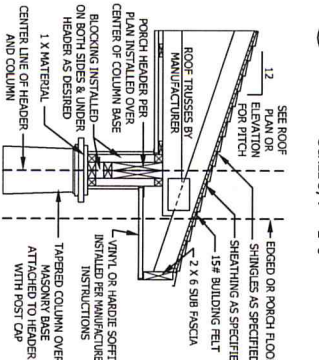
R612.5. Window egress. Window fall prevention devices shall comply with Section R612.4.



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



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



SECTION R314.1. Headroom. The minimum headroom in all parts of the dwelling shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the finished floor to the lowest obstruction of the stairway.

R314.2. Stair treads and risers. Stair treads and risers shall meet the requirements of this section for the purpose of this section all treads and risers shall be measured vertically between nosings or treads.

R314.3. Stair height. The maximum riser height shall be 8 1/4 inches (210 mm). The tread depth shall be measured horizontally between nosings or treads.

R314.4. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.5. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.6. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.7. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.8. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.9. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.10. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.11. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.12. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.13. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.14. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.15. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

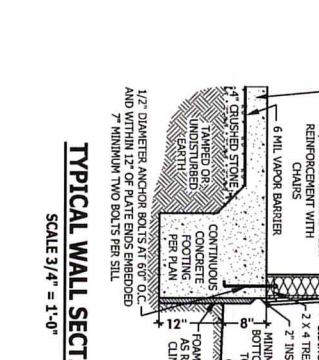
R314.16. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.17. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

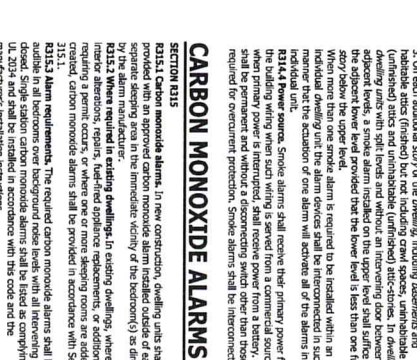
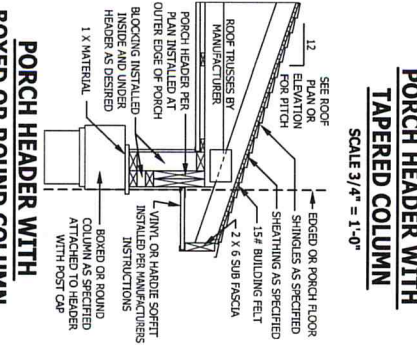
R314.18. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.19. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.

R314.20. Stair nosing. The nosing of the tread shall be 1/4 inch (6 mm) thick and shall be made of a material that is harder than the tread material.



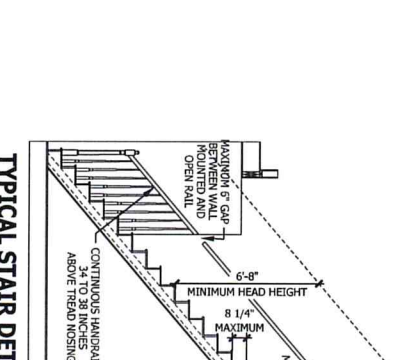
I TYPICAL STAIR SECTION
SCALE 1/4" = 1'-0"



SECTION R315. Carbon monoxide alarms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each bedroom by the alarm system installer.

R315.2. When required in existing dwellings. In existing dwellings, where existing alterations, repairs, finished appliance replacements, or additions requiring a permit occur, or where one or more sleeping rooms are added or replaced, carbon monoxide alarms shall be provided in accordance with Section R315.1.

R315.3. Alarm requirements. The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors UL 2034 and shall be installed in accordance with the code and the manufacturer's installation instructions.



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

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Northbrook 1885-212 Lot 22 Lakedale

TYPICAL DETAILS

PACKAGE NOT VALID FOR REVISIONS TO THE ORIGINAL CONTRACT DOCUMENTS. ANY CHANGES TO THE ORIGINAL CONTRACT DOCUMENTS SHALL BE MADE BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

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