Z:\Builder\Weaver Development Company, Inc\190717B Nicholson\190717B Nicholson.aec



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

MEAN ROOF HEIGHT: 25'-6	3"	HEIGHT TO RIDGE: 29'-9"			
CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A		
FENESTRATION U-FACTOR	0.35	0.35	0.35		
SKYLIGHT U-FACTOR	0.55	0.55	0.55		
GLAZED FENESTRATION SHGC	0.30	0.30	0.30		
CEILING R-VALUE	38 or 30d	38 or 30d	38 or 30d		
WALL R-VALUE	15	15	19		
FLOOR R-VALUE	19	19	30		
BASEMENT WALL R-VALUE	5/13	10/15	10/15		
** SLAB R-VALUE	0	10	10		
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19		

\*\* INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF

FOOTING; INSUL								
DESIGNED FOR WIN								
COMPONENT								
MEAN ROOF	UP T	O 30.	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8
ZONE 2	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	-17.5
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4
DESIGNED FOR WIN	D SPEED	OF 130 MF	H. 3 SEC	OND GUST	(101 FAS	TEST MILE	EXPOS	IRE "B"
COMPONENT	& CLA	DDING	DESIG	NED FO	R THE	FOLLO	WING	LOADS
MEAN ROOF	UP T	O 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	
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		-24.0	19.1	-25.2		-26.2		-26.9

#### **ROOF VENTILATION**

SECTION R806 SQUARE FOOTAGE OF ROOF TO BE VENTED = 1,344 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 8.96 SO.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 4.48 SQ.FT.

#### **GUARD RAIL NOTES**

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

intries (1/42 intim) from the state of the degle of the open side. Insect screening shall not be considered as a guard. R313.2. Relight. Required guards at open-sided walking surfaces, including states, porches, beloones or landings, shall be not less then 36 inches (1941) mit) high processor of sendings, shall be not less then 36 inches (1941) mit) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads. Exceptions

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.

- 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 4 3/8 inches (111 mm) in diamete

#### **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 scaling 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. Biocking and sealing floor/gelling 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.

## COMPOSITION SHINGLES AS SPECIFIED 12 TOP OF PLATE 12 SIDING AS SIDING AS SPECIFIED SHAKE AS SUB FLOOR TOP OF PLATE SUB FLOOR

RIDGE VENT AS REQUIRED

FRONT ELEVATION

RAIL AS NEEDED PER CODE

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"



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

PROCEDURES.

CODES AND CONDITIONS MAY WAY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTI SEFORE CONSTITUTION.

THISSE DRAWING ARE INSTRUMENTS OF SERVICE AN AS SUCH SHULL REMAIN PROPERTY OF THE DESIGNER.

ELEVATIONS

**NICHOLSON** 

FRONT

REAR

ంఠ

SQUARE FOOTAGE HEATED FIRST FLOOR 798 SQLF SECOND FLOOR 743 SQLF FLATROOH 194 SQLF UNHEATED GARAGE FRONT PORCH DECK/PORCH TOTAL

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PAGE 1 OF 8

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PROCEDURES.
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BEFORE CONSTILLATION.
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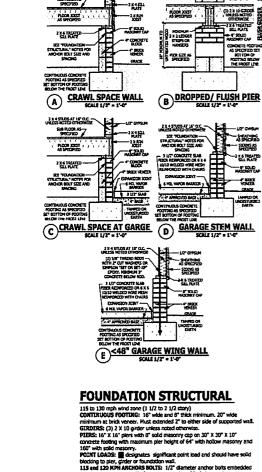
**NICHOLSON** 

SQUARE FOOTAGE HEATED HIST FLOOR 781 SQLF SXCOND FLOOR 781 SQLF PLAYROOH 194 SQLF PLAYROOH 194 SQLF UNHEATED

GARACE FRONT PORCH DECK/PORCH TOTAL

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OVERAP

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AS SPECIFIC

SEONGAS

-2 x 6 TREATE

- Proces

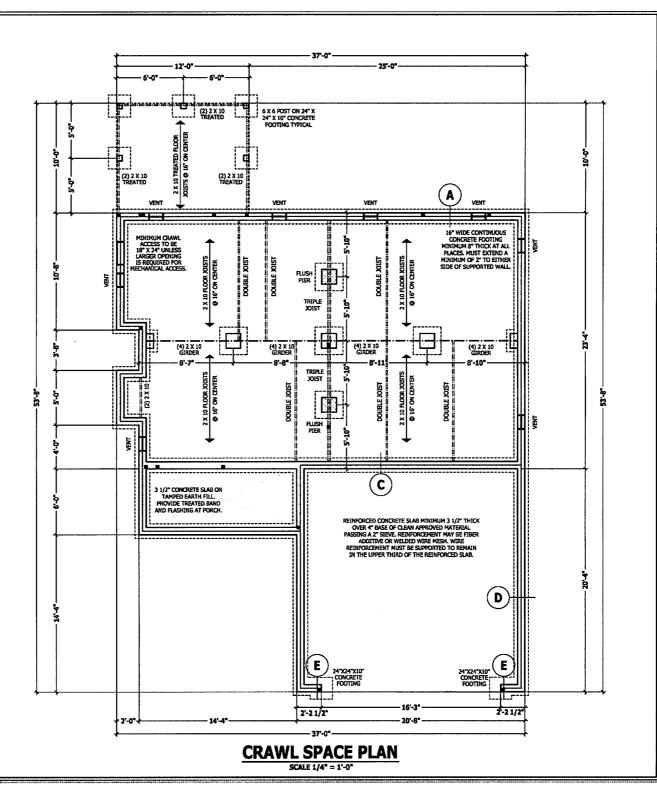
115 and 120 KPH AKKINOS BOLTS: 1/2" demeter anchor bots embedded minimum 7", maximum 6-4" on context, within 1/2" of plate ends, and minimum two enchor bots per plate. 130 KPH AKKINOS BOLTS: 1/2" demeter anchor bots embedded minimum 15°, maximum 4-4" on center, within 12" of plate ends, and minimum bwo anchor bots per plate. CONCRETE: Concrete that have a minimum 28 day strength of 3000 psi and a maximum 5" sturp. At extrained per table 402.2. At concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump. SOTLS: 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

#### WALL VENTED CRAWL SPACES

UNDER-FLOOR SPACE (SECTION R408)

SQUARE FOOTAGE OF FOUNDATION TO BE VENTED = 767 SQ.FT. WITHOUT CROSS VENTILATION AREA OF VENTING NEEDED = 5.11 SQ.FT. WITH CROSS VENTILATION AREA OF VENTING NEEDED = 0.51 SQ.FT. NOTE: NUMBER OF VENTS NEED WILL VARY DEPENDING ON VENTS USED AND CROSS VENTILATION.



REFORE CONSTRUCTION THESE DRAWING ARE

PLAN **NICHOLSON FOUNDATION** 

SQUARE FOOTAGE KEATED RESTAUDR 78 SQF REMANDER 78 SQF RUMROOM 19 SQF TOTAL
UNCHEATED
GARAE
FRONT RONCH
DESCRIPTION
TOTAL

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PAGE 3 OF 8

#### 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.

#### **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/celling assemblies used for separation required by this section.

STAIRS. A minimum of 1/2\* gypsum board must be installed on the underside and

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

CELLINGS. A minimum of 1/2" sypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage as minimum of 5/8" typs k gypsum board must be installed on the garage ceiling. OPENING PERITERATIONS. 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 honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeygrand core steel doors not less than 1 3/8 inches (35 mm) in thickness.

fre-rated doors.

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

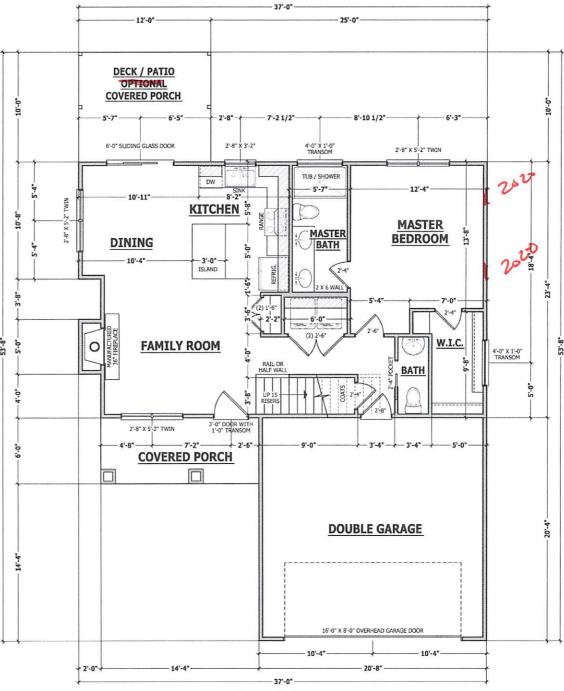
into the garage.

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

#### **SQUARE FOOTAGE** HEATED

798 SQ.FT. 743 SQ.FT. 194 SQ.FT. 1735 SQ.FT. FRST FLOOR SECOND FLOOR PLAYROOM TOTAL UNHEATED

GARAGE FRONT PORCH DECK/PORCH TOTAL 400 SQ.FT. 86 SQ.FT. 120 SQ.FT. 606 SQ.FT.



**FIRST FLOOR PLAN** 

SCALE 1/4" = 1'-0"

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FIRST FLOOR PLAN

NICHOLSON

SQUARE FOOTAGE
HEATED
FIST RUDGE 78 SQ.F
FLANEOM 19 SQ.F
TUTIA. 173 SQ.F
UNHEATED
GABAGE 600 SQ.F GARAGE FRONT PORCH DECK/PORCH TOTAL

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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	
Canw	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:

Emaintee where further (V.V.) = Fb=2600 PSI, Fv=265 PSI, E=1.9x10<sup>8</sup> PSI.

Brailed stand tumber (V.S.) = Fb=2600 PSI, Fv=280 PSI, E=1.9x10<sup>8</sup> PSI.

Brailed stand tumber (SSI) = Fb=2209 ESI, Fb=200 PSI, E=2.0x10<sup>8</sup> PSI.

Emainteed stand lumber (SSI) = Fb=2209 ESI, Fv=400 PSI, E=1.5x10<sup>8</sup> PSI.

Install al connections of manifectures instructions.

Brailed Standard (SSI) = Fb=220 PSI, Fv=200 PSI, Fb=200 PSI.

Brailed Standard (SSI) = Fb=2200 PSI, Fv=200 PSI, Fb=200 PSI.

Brailed Standard (SSI) = Fb=200 PSI.

Brailed Standar

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-toist 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 FLOOR SHEATHING: CSB or CLVs, minimum 5/8" thick for 19.2" or center joist spacing, and minimum 3/4" thick for 19.2" or center joist spacing, and minimum 3/4" thick for 124" 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**

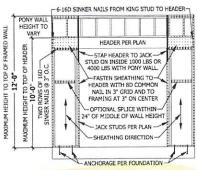
EXTERIOR WALLS: All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless

interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method

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

center at edges and 12" on center at intermediate supports with 6d common nails or 8d(2 1/2" long x 0.113" diameter).

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



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

SCALE 1/4" = 1'-0"

TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. BEARING. All trusses shall be designed for bearing on SPF #2 plates or

(2) 1.75" X 9.25" LVL

3 JACKS FACH END

TRUSS

**DOUBLE GARAGE** 

ROOF TRUSSES

BY MANUFACTURER

(2) 1.75" X 11.875" LVL

FLOOR

TRUSSES

GB

(3) SC

PF

4 X 4 TREATED POST OR EQUIVALENT TYPICAL

(2) 2 X 8

ATTACH RAFTERS TO HEADER WITH HURRICANE CONNECTORS (SIMPSON H2.5 OR EQUIVALENT). ATTACH HEADER TO POST AND POST TO BASE WITH POST CAP, METAL STRAPS, AND/OR POST BASE.

(2)

GB

KITCHEN MASTER BATH FLOOR TRUSSES FLOOR TRUSSES BY MANUFACTURER BY MANUFACTURER DINING MASTER **BEDROOM** 3) SC

(2) 2 X 8

(2) 2 X 10

DECK / PATIO

OPTIONAL **COVERED PORCH** 

ROOF TRUSSES

BY MANUFACTURER

(2) 1.75" X 9.25" LVL

3 JACKS FACH END

FAMILY ROOM

TRUSS

FLOOR TRUSSES

BY MANUFACTURER

COVERED PORCH

PLACE BEAM OVER BEARING

PROVIDED BY COLUMN(S)

AND FURR BEAM AS DESIRED

4 X 4 TREATED POST OR EQUIVALENT TYPICAL.

ATTACH RAFTERS TO HEADER WITH HURRICANE

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

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

(2) 1.75° X 9.25" LVL

3 JACKS EACH END

EXTERIOR HEADERS

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

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

UNLESS NOTED OTHERWISE

(3) SC

GYPSUM: All interior sides of exterior walls and both sides

GB to be fastered per table R602.10.1.
REQUIRED LENGTH OF BRACING: Required brace wall length

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 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

center at edges and 7" on center at Intermediate supports with PF: Portal fame per figure R602.10.1



- LOAD BEARING HEADERS (2) 2 X 6 WITH FIRST FLOOR STRUCTURAL 1 JACK STUD AND 1 KING STUD EACH END UNLESS NOTED OTHERWISE - NON LOAD BEARING HEADERS TO BE

(3) SC

PF

SCALE 1/4" = 1'-0"

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CODES AND CONDITIONS MAY DESIGNER, ARCHITECT OR GINEER SHOULD BE CONSULTI SEFORE CONSTRUCTION. THESE DRAWING ARE STRUMENTS OF SERVICE AN

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STRUCTURAL NICHOLSON FLOOR 9 FIRST

SQUARE FOOTAGE HEATED UNHEATED

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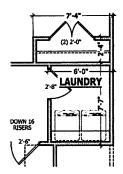
DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	1,/360
Fire escapes	40	10	L/360
Guardrails and handrails	200		_
Guardrali In-fill components	50		
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sieexing rooms	30	10	L/360
Stairs	40	-	1/360
Snow	70		-

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

Eminated veneer lumber (IV.1) = Ft=2600 PSI, Pv=285 PSI, E=1.9x109 PSI
Parallel strand lumber (PSL) = Ft=2900 PSI, Fv=290 PSI, E=2.0x109 PSI
Lominated strand lumber (LSL) Ft=2250 PSI, Pv=400 PSI, E=1.55x109 PSI Install all connections per manufacturers instructions.
TRUSS AND 1-JOIST MEMBERS: All roof truss and I-joist layouts shall be

TRUSS AND 1-DOIST MEMBERS. All not trust and 1-pics tayouts sheet be repeated in accordance with this document. Trusses and 1-picits tayouts sheet be installed according to the manufacture's specifications. Any change in truss or 1-pics tayout has be coordinated with Happers thomes Plans, Inc. LINTELS: thick linces shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6"0" spans. 6"x x 1", 5/16" steel angle with 6" log particular for spans up to 9"0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" stool angle with 1/2" botts at 2"0" on center for spans up to 18"4" unless noted otherwise. The CROOK STEERINGS GSG or CON floor Steeling minimum 1/2" thick for The 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, and minimum 3/4" thick for 24" on center joist spacing, RDQF SHEATHING: QSB 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.



#### **OPTIONAL LAUNDRY ROOM**

#### **ATTIC ACCESS**

SECTION R807 R807.1 Attic access. An attic access opening shall be provided habi/1, and access, an acce access opening share to provide to addit areas that exceed 400 square feet (37.1.6 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

1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

Pull down stair treads, stringers, handraks, and heroware may protrude trito the net clear opening.

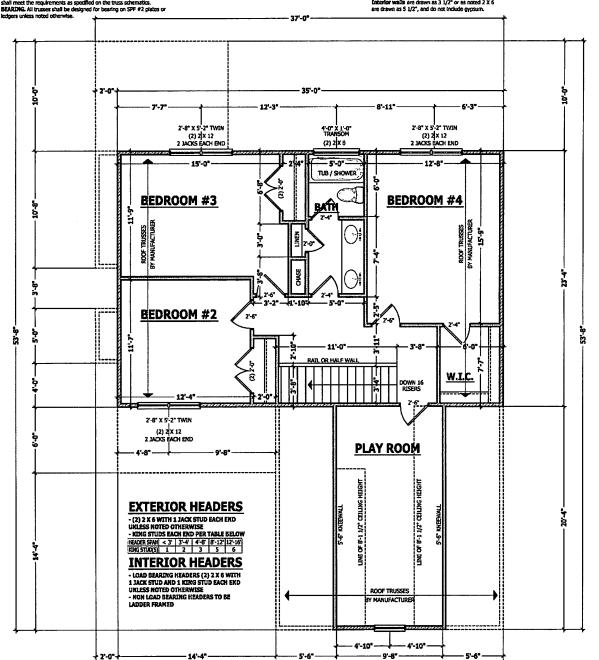
**ROOF TRUSS REQUIREMENTS** 

TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be trought to trayers them Files, Time. Statistion before construction begins. AMCHORAGE. All required anothers for trusses due to upfit or bearing shall meet the requirements as spondified on the truss schematics.

**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.

Enterior walls are drawn as 3 1/2" or as noted 2 X 6



**SECOND FLOOR PLAN** 

COORS AND CONDITIONS HAY MAY WITH LOCATION, A LOCA

DESIDED, ADDITION OR DESIDED SHOULD BE CONSTRUCTION. THESE DRANGING ARE JUSTICAL SHOULD SHOUL

**SECOND FLOOR PLAN** NICHOLSON

SQUARE FOOTAGE HEATED UNIZATED

GARAGE FRONT PORCH DECK/PORCH TOTAL

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#### **OPTIONAL COVERED PORCH**

**ROOF TRUSS REQUIREMENTS** TRUSS DESIGN Trusses to be designed and engineered in accordance with these drawings. Any vertision with these drawings must be brought to Hoynes Home Plan, Inc. attention before construction begins. RNEE WALL AND CELLING HEIGHTS. All inhelial once was I hospits and caking heights are shown furned down 10° from nord decking heights are shown furned down 10° from nord decking heights are shown furned down 10° from more decking heights are shown furned down 10° from more decking heights are years. Any version furned wheilings the finished square fordage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a subthe southout on the reached before construction begins. Any version due to these conditions not being met is the reasonability of the trust manufacture.

ANCHORAGE. All requirements as sportfed on the truss schematics.

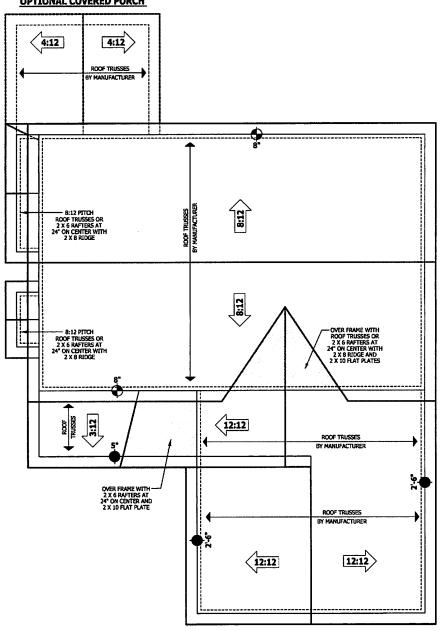
shall meet the requirements as specified on the truss schematics.

BEARTING. 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

HEEL HEIGHT ASOVE FIRST PLOOR PLATE

HEEL HEIGHT ABOVE SECOND FLOOR PLATE



**ROOF PLAN** 

SCALE 1/4" = 1'-0"

HAVNES HOME PLANS, DIC ASSURES NO LIZESLITY PO CONTRACTORS PRACTICES A PROCEDURES.

WAY WITH LOCATION. A LOCAL
DESIGNER, MIGHTEST OR
DEGREER SHOULD BE CONSULT.
THESE DRAWING ARE
INSTRUMENTS OF SERVICE AN
AS SUCH SHALL REMAIN
PROPERTY OF THE DESIGNER.

**NICHOLSON** ROOF PLAN

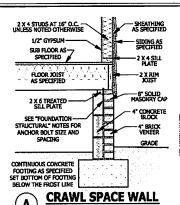
SQUARE FOOTAGE
HEATED
HISTALOSI
HIST

© Copyright 2019 Haynes Home Plans, Inc

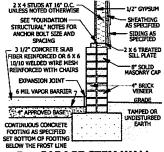
7/29/2019

190717B

PAGE 7 OF 8



A SCALE 3/4" = 1'-0"



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

#### **DECK STAIR NOTES**

SECTION AM110 AM110.1 States shall be constructed per Figure AM110. Stringer spans shall be no greater than 7 foot span bety supports. Spacing between stringers shall be based upon dodring material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step cut and back of stringer If used, suspended headers statil shall be attached with 3/8 inch galvanized botts with nuts and washers to securely support stringers at the top.

#### **DECK BRACING**

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

provide lateral stability.

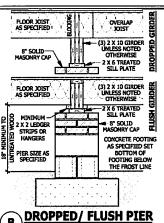
AM109.1.1. When the deck floor height is less than 4'-0" above finished grade per Floure AM109 and the dock is attached to the structure in accordance with Section AM104, lateral bracing is not required.

AM109.1.2. 4 x 4 wood lonce 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 broces 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 dip galvanized bolt with nut and washer at both ends of the brace per Figure AK109.1

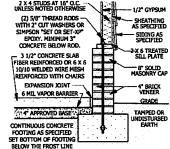
AMIO9.1.3. For freestanding decks without knee braces or diagonal bracing, lateral stability may be provided by embedding the post in accordance with Figure AM109.2

and the fo	lowing:								
POST	TRUBUTARY	KAX POST	BASEDKEYL BASEDKEYL	CONCRETE					
4X4	48 SF	4'-0"	2'-6"	1'-0"					
6 X 6	120 SF	6-0"	3-6*	1'-8"					
AMITO 1	MITTO 1 A 2 v 6 diagonal vertical cross bracing may								

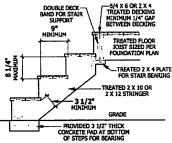
be provided in two perpendicular directions for freestanding decks or parallel to the structure at the exterior column line for attached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot disped galvanized bolt with nut and washer at each end of each bracing member per Figure AM109.3.
AM109.1.5. For embedment of piles in Coastal Regions, see Chapter 45.



#### В SCALE 3/4" = 1'-0"



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



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

-TO PAVEMENT

GRADE

SHEATHING-

LATH

SEE COUNDATION

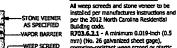
FOR FOUNDATION

**DETAILS** 

**WEEP SCREED** 

SCALE 3/4" = 1'-0"

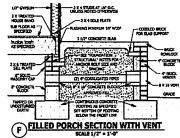
SCALE 3/4" = 1'-0" **WEEP SCREEDS** 

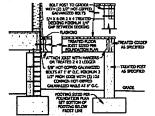


mm) (No. 26 galvanized sheet gage), resistant weep screed or plastic weep screed, with a minimum vertical MINIMUM 4" TO attachment flange of 31/2 inches (89 mm) shall be provided at or below the GROUND OR 2" foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above poved 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.

2 X 4 STUDS AT 16" O.C. --UNLESS NOTED OTHERWISE -1/2" GYPSUM SEE ROOF - EDGED OR PORCH FLOOR PLAN OR ELEVATION SUB FLOOR AS-SHINGLES AS SPECIFIED Z X 4 SPLL SPECIFIED FOR PITCH SHEATHING AS SPECIFIED 2 X RIM FLOOR JOIST - 15# BUILDING FELT -8" SOLID MASONRY CAP ← 2 X 6 SUB FASCIA ROOF TRUSSES BY 4" CONCRETE BLOCK 2 X 6 TREATED PORCH HEADER PER -4° BRICK VENEER SEE "FOUNDATION PLAN INSTALLED OVER EXPANSION JOINT STRUCTURAL® NOTES FOR CENTER OF COLUMN BASE VINYL OR HARDIE SOFFIT ANCHOR BOLT SIZE AND INSTALLED PER MANUFACTURERS BLOCKING INSTALLED-SPACING INSTRUCTIONS ON BOTH SIDES & UNDER 🚅 #: 3 1/2" SLAB HEADER AS DESIRED PAPERED COLUMN OVER 4 BASE MASONRY BASE ATTACHED TO HEADER 1 X MATERIAL CONTINUOUS CONCRETE TAMPED OR FOOTING AS SPECIFIED CENTER LINE OF HEADER SET BOTTOM OF FOOTING UNDISTURBED AND COLUMN FARTH BELOW THE FROST LINE **PORCH HEADER WITH** 

**CRAWL SPACE AT GARGE TAPERED COLUMN** SCALE 3/4" = 1'-0"





DECK ATTACHMENT

#### SMOKE ALARMS

on and notification. All smake alarms shall be listed in accordance with 18, 217 and installed in accordance with

listed in accordance with UL 217 and institled in accordance with the provisions of this code and the household fire warring equipment provisions of NFPA 72.

R334.2 Seocks detection systems. Household fire starm systems installed in accordance with NFPA 72 that thouse smoke starts, a combination of smoke detector and suddle 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 service a since determine the acceptability of the second process and acceptability of smoke detector and acceptabilities of combination of smoke detector and acceptabilities notification device(s), it shall become a permanent foture of the occupancy and owned by the homoowner. The system shall be monitored by an supervising station and be maintained in accordance with

Exception: Where smoke alarms are provided meeting the requirements of Section R314.4.
R334.3 Location. Smoke alarms shall be installed in the following

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

3. On each additional story of the dweding, including basements 3. On each additional story of the cheeding, including basements and each additional story of the cheeding, including basements unintrobled with cheeding and without a cheeding and without a cheeding and without part levels, a small without an intervening door between the adjacent levels, a small writing that the cheeding and the cheeding and a c 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. n such a manner that the actuation of one alarm will activate all of

in such a manner that the adustion of one elam will aduste all of the elams in the individual unit. R33.4.4 Power source. Smoke alums shall recover their primary power from the building widing when such withing is served from a commercial source, and when primary power is interrupted, shall recover power from a building. Wiffing shall be premanent and without a disconnecting which other than those required for overcurrant procedient. Similar sharins shall be historoanecood.

### **CARBON MONOXIDE ALARMS**

SCALE 3/4" = 1'-0"

R315.1 Carbon monoxide starms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm (installed outside of each separate sleeping area in the immediate vidnity of the bedroom(s) as directed by the siarm 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 rested, carbon monoride alarms shall be provided in accordance with Section

R315.3 Alarm regularements. The required carbon monoxide alarms shall be nations along requirements in the required cannot industrate each is used to audible in all bedrooms over bedroground notice 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 menufacturer's installation instructions.

### STAIRWAY NOTES

R311.7

R311.7.2 Headroom. The minimum headroom in all ports of the stainway shall not be less than 6 feet 8 Inches (2032 mm) measured vertically from the sloped line adjoining the bread nosing or from the floor surface of the landing or pletform 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 dimension and dimensioned surfaces shall be exclusive of carpets, rugs or runners. P311.7.4.1 Place height. The maximum rises height shall be 8 1/4 inches (210 mm). The riser shall be measured vertically between leading edges of the adjacent treeds.

the adjacent croscs.

R31.17.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured notzontally 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 depti 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

R331.7.7 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. Henrial height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 Inches (864 mm)and not more than 38 inches (965 mm).

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

Twent uses. 2. When handrall fixings or bendings are used to provide continuous trentition between flights, the transition from handrall to guardrall, or used at the start of a flight, the handrall height at the fixings or bendings shall be permitted to exceed the maximum height.

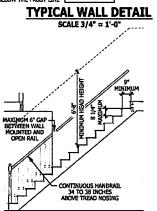
RSILIT.73.2 Deniability. Handralls for stainways shall be continuous for the

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

Hendrais shall be permitted to be interrupted by a newel post.
 The use of a volute, turnout, starting easing or starting newel shall be

allowed over the lowest tread 33. 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 handrall and a guardrall/handrall, the wall-mounted rail must return into the wall.

PITCH PER ROOF PLAN OR ELEVATIONS ROOF INSULATION PER CLIMATE ZONE SEE CODE NOTE ON SKINGLES AS SPECIFIED -15# SUILDING FELT CEILING JOISTS SHEATHING AS SPECIFIED (2) 2 X 4 TOP PLATE ---- 1/2" GYPSUM -SOFFTT WALL INSULATION -PER CLIMATE ZONE - SOFFIT VENTING - OPTIONAL 1 X 4 FRIEZ SEE CODE NOTE ON FLEVATION PAGES - SHEATHING AS SPECIFIED 2 X 4 STUDS AT 16" ON CENTER UNLESS NOTED OTHERWISE 3/4" SUBFLOOR 2 x BAND FLOOR JOIST (2) 2 X 4 TOP 1/2" GYPSUM -PLATE WALL INSULATION PER SIDING AS CLIMATE ZONE SEE CODE NOTE ON ELEVATION PAGES 2 X 4 STUDS AT 16° O.C. — UNLESS NOTED OTHERWISE - SHEATHING AS SPECIFIED 1/2" GYPSUM SIDING AS SPECIFIED SUB FLOOR AS-SPECIFIED 2 X 4 SILL FLOOR JOIST 2 X RIM AS SPECIFIED DOIST ---8" SOLID MASONRY CAP CONCRETE BLOCK SEE "FOLINDATION STRUCTURAL" NOTES FOR 4" BRICK VENEER ANCHOR BOLT SIZE AND SPACING GRADE CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF POOTING TYPICAL WALL DETAIL SCALE 3/4" = 1'-0"



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

PLACHASER PLIST VERDY AL DEVENISIONS AND CONDITION SUPORE CONSTRUCTION BOSS HAVINGS HOME PLAYS, DIC ASSLINES NO LIABILITY PO ONTRACTORS PRACTICES A

A SHORTBONGD OWN 20000 ARY WITH LOCATION, A LOCA DESIGNER, ARCHITECT OR GREEK SHOULD BE CONSULT BEFORE CONSTRUCTION.

BY GENERAL REPORT OF THE PROPERTY OF THE DESIGNATION OF THE DESIGNATIO

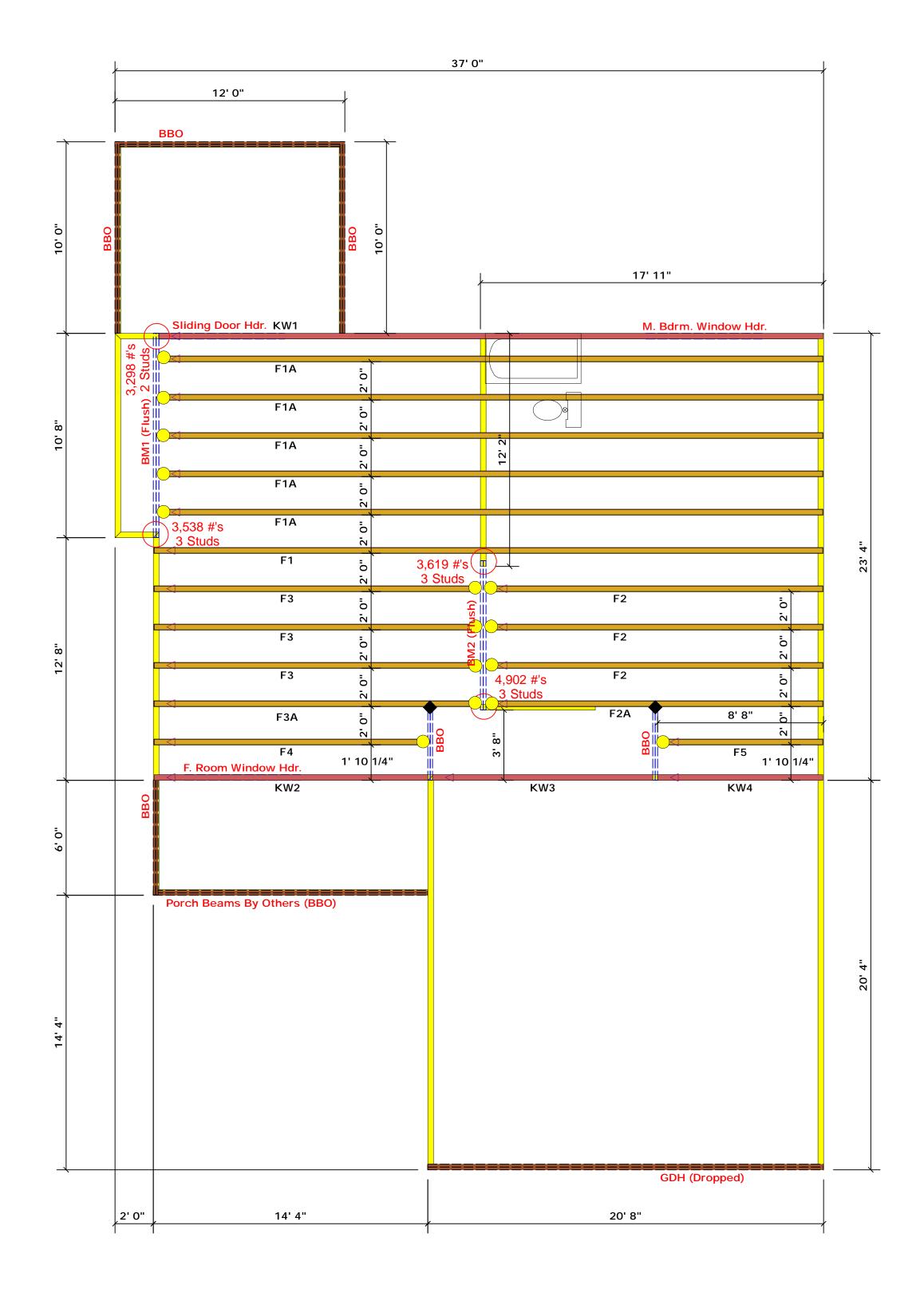
NICHOLSON DETAIL TYPICAL

SQUARE FOOTAGE UNHEATED HOKT PORCH 12 SQ1

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190717B

PAGE 8 OF 8



= HUS410 (Qty. 15) ◆ = MSH422 (Qty. 2)

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

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

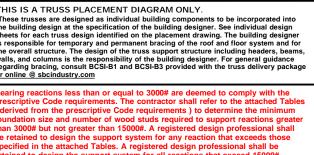
Products								
PlotID	Length	Product	Plies	Net Qty				
F. Room Window Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2				
M. Bdrm. Window Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2				
Sliding Door Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2				
GDH (Dropped)	21' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2				
BM1 (Flush)	11' 0"	1-3/4"x 14" LVL Kerto-S	2	2				
BM2 (Flush)	8' 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

LO	-	CHART FO		ACK STUD	5
NLA			Cours	CO @ CA CNO O	
END REACTION (OT FU)	SQ DISTUDS FOR COMPANY HEADER	PND PEACTION (LP TO)	REQUESTABLE FOR CORNEL CORNEL FOR THE PROPERTY OF THE PROPERTY	END REACTION (UF 179)	REQUESTABLE FOR (4) N.Y. HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6600	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	á	15300	6		
11900	7				
13600	8				
15300	9				

BUILDER	Weaver Development	CITY / CO.	Harnett Co. / Harnett	THIS IS A TRUSS PLACE These trusses are designed a the building design at the spe sheets for each truss design i
JOB NAME	Lot 3 Adcock Farm	ADDRESS	Lot 3 Adcock Farm	is responsible for temporary a the overall structure. The desi walls, and columns is the resp regarding bracing, consult BC
PLAN	Nicholson (190717B)	MODEL	Floor	or online @ sbcindustry.com  Bearing reactions less than
SEAL DATE	Seal Date	DATE REV.	/ /	prescriptive Code requirem ( derived from the prescript foundation size and number than 3000# but not greater be retained to design the su
QUOTE #	Quote #	DRAWN BY	Christine Shivy	specified in the attached Ta retained to design the supp
JOB #	J0520-2109	SALES REP.	Lenny Norris	Signature

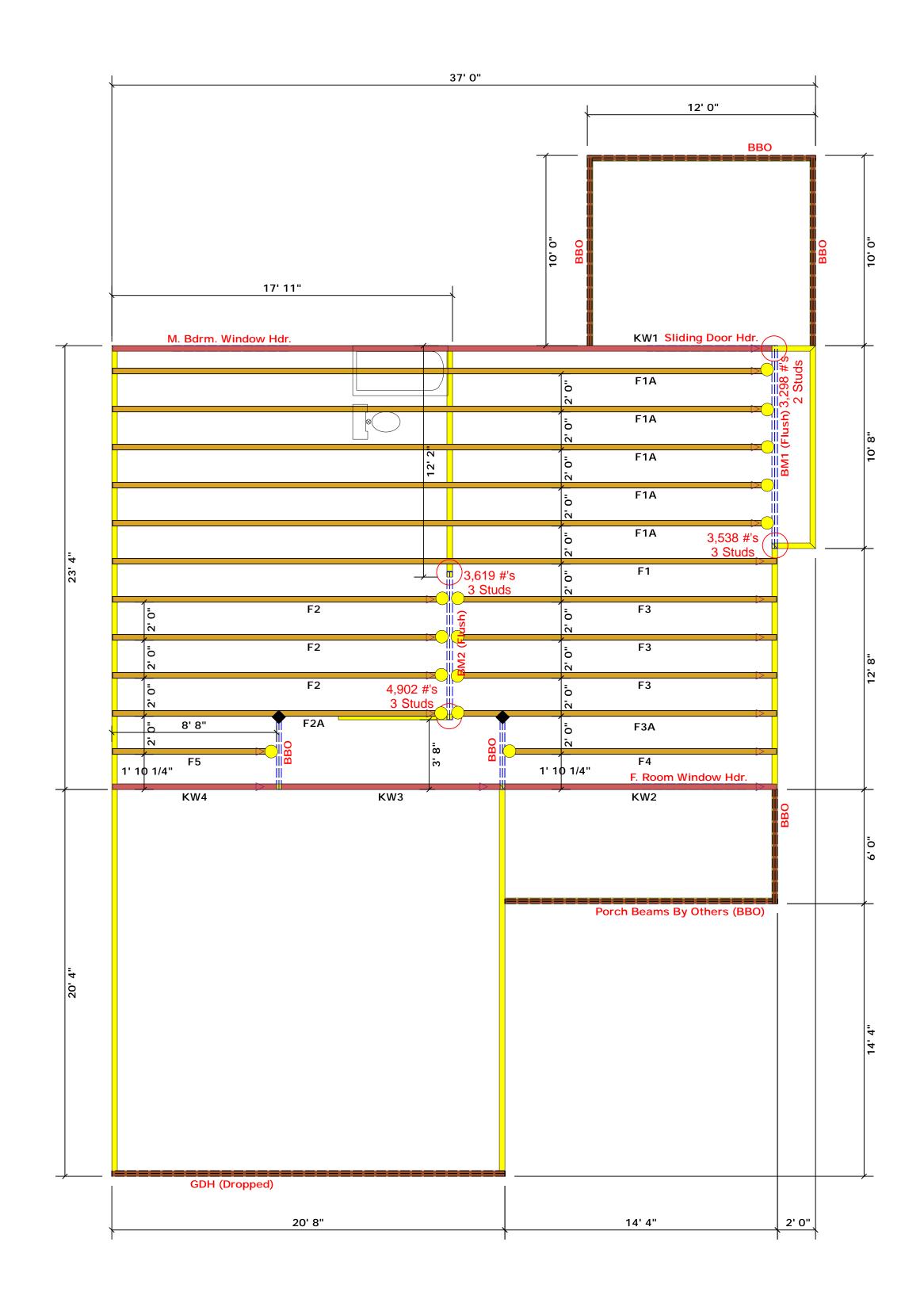


Christine Shivy

Christine Shivy

соттесн **ROOF & FLOOR TRUSSES & BEAMS** 

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444



■ HUS410 (Qty. 15)■ MSH422 (Qty. 2)

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

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

		Products		
PlotID	Length	Product	Plies	Net Qty
F. Room Window Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2
M. Bdrm. Window Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2
Sliding Door Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2
GDH (Dropped)	21' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2
BM1 (Flush)	11' 0"	1-3/4"x 14" LVL Kerto-S	2	2
BM2 (Flush)	8' 0"	1-3/4"x 14" LVL Kerto-S	2	2

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

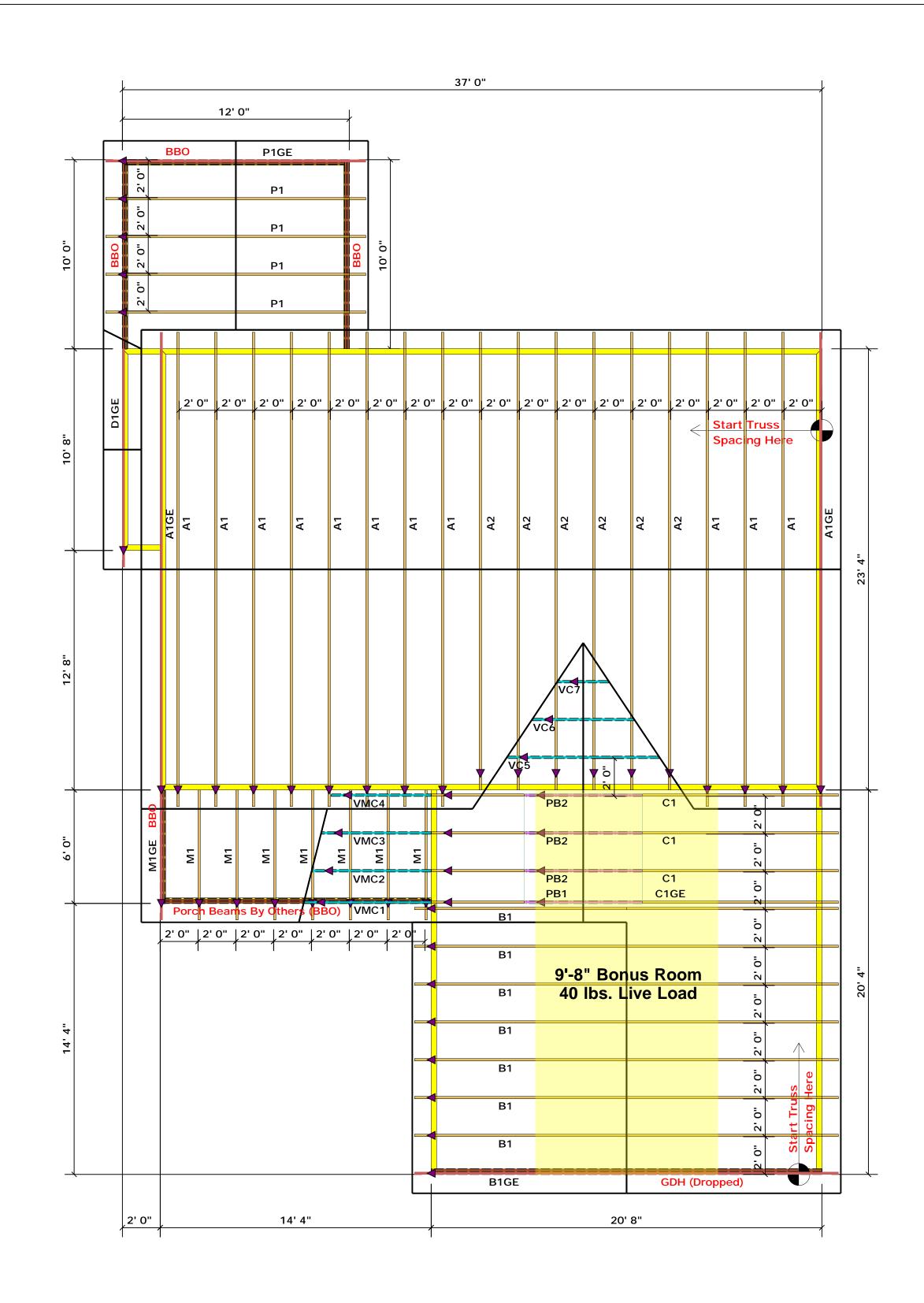
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-- Denotes Reaction Greater than 3,000 lbs.
Reaction / # of Studs

04	LOAD CHART FOR JACK STUDS  (044F6 ON 148F6 88925() J. (6)  (144F6 OF JACK STUDS ACCURATE (4 CM) of		BUILDER	Weaver Development	CITY / CO.	Harnett Co. / Harnett	THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.  These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer
NDC 00 PP FOR FOR	PEADERVERROER Z 95 E 6 85	NOC STORY	JOB NAME	Lot 3 Adcock Farm	ADDRESS	Lot 3 Adcock Farm	is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package
6N0 85AC 0 50 3 1 H V M (C)	Pope Property Propert	S O S S S S S S S S S S S S S S S S S S	PLAN	Nicholson (190717B)	MODEL	Floor	or online @ sbcindustry.com  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
3400 2 5100 3	100 3 7650 3 10200 3 SEAL DA	SEAL DATE	Seal Date	DATE REV.	/ /	( 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	
6800 4 8500 5 10200 6	10200 4 12750 5 15300 6	13600 4 17000 5	QUOTE #	Quote #	DRAWN BY	Christine Shivy	specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.  Christine Shivy
11900 7 13600 8 15300 9	11900 7 13600 8		JOB #	J0520-2109	SALES REP.	Lenny Norris	Christine Shivy



Phone: (910) 864-8787 Fax: (910) 864-4444



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

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

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

-- Denotes Reaction Greater than 3,000 lbs.

Reaction / # of Studs

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

LOAD CHART FOR JACK STUDS										
			ON LABLES A STUDO A					ı		
No.	MILL C	e and	PEADER/6			K END OF				
N S S	UDS FOR HEADER		2 6 8 p	82 SS 82 SS		S S	55 FUR 57 SE			
CONDIGERCO (OT FU)	#0.000 (0) NO.H		STEP PENCTIC CIT 410	980 B STU		END 40ACTO (01 ° U)	REQUESTUDS FI BOART HEADS			
1700	1		2550	1		3400	1	H		
3400	2		5100	2		6800	2	ı		
5100	3		7650	3		10200	3	ı		
6800	4		10200	4		13600	4	Н		
8500	5		12750	5		17000	5	ı		
10200	6		15300	6				ı		
11900	7							H		
13600	8							ı		
15300	9							ı		

	BUILDER	Weaver Development	CITY / CO.	Harnett Co. / Harnett	T th
A 0.00	JOB NAME	Lot 3 Adcock Farm	ADDRESS	Lot 3 Adcock Farm	is th w
(3) M. F.	PLAN	Nicholson (190717B)	MODEL	Roof	Bi pr
	SEAL DATE	Seal Date	DATE REV.	/ /	fo th
	QUOTE #	Quote #	DRAWN BY	Christine Shivy	sp re
	JOB #	J0520-2108	SALES REP.	Lenny Norris	

building design at the specification of the building designer. See individual design etes for each truss design identified on the placement drawing. The building designer esponsible for temporary and permanent bracing of the roof and floor system and for overall structure. The design of the truss support structure including headers, beams, is, and columns is the responsibility of the building designer. For general guidance arding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package online @ sbcindustry.com

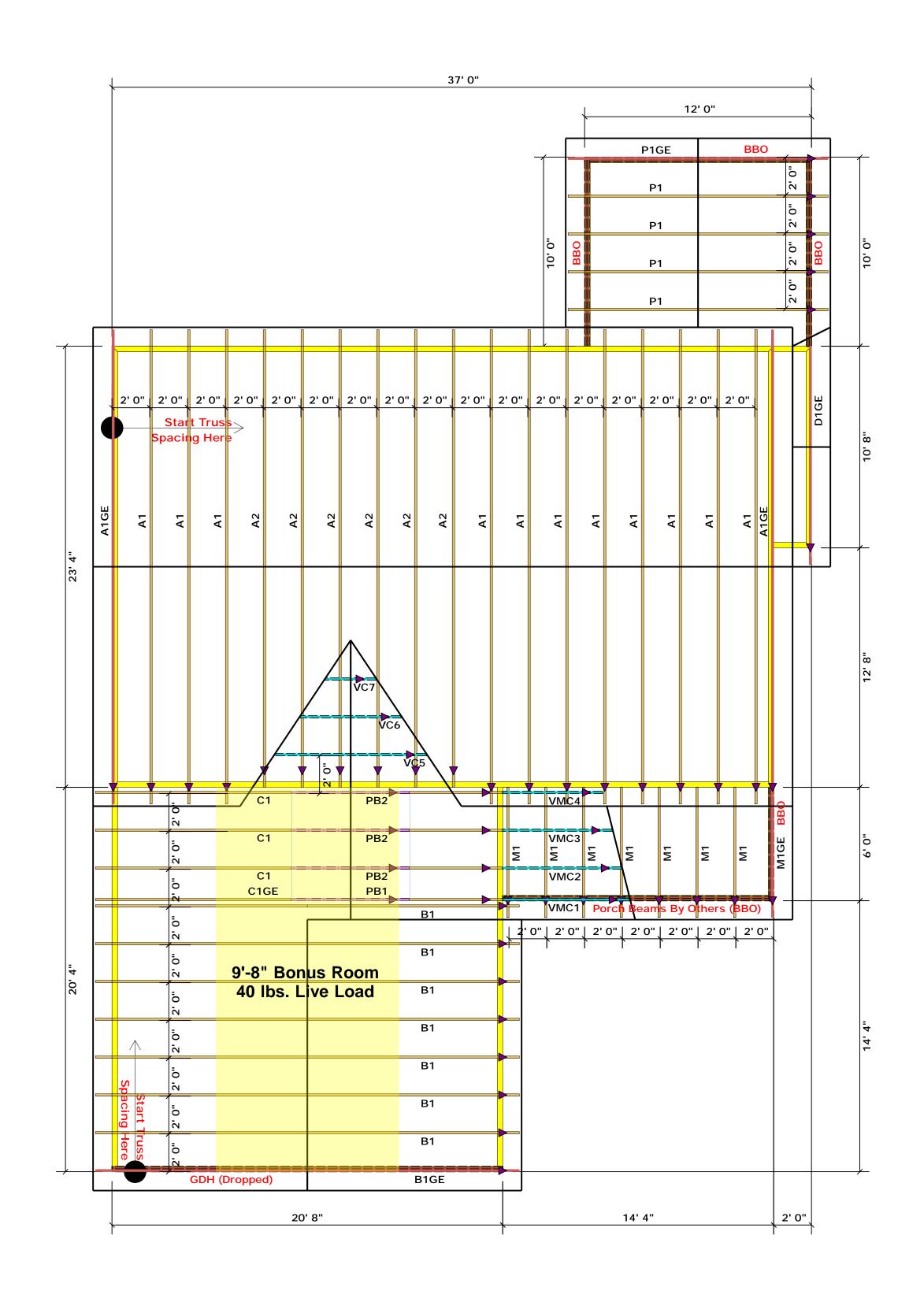
aring reactions less than or equal to 3000# are deemed to comply with the scriptive Code requirements. The contractor shall refer to the attached Tables prived from the prescriptive Code requirements) to determine the minimum notation size and number of wood studs required to support reactions greater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

Christine Shivy

**Christine Shivy** 

ROOF & FLOOR TRUSSES & BEAMS

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

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

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

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

			_		_	
END REACTION	(DASED ON LABLES R502.5	OAD CHART FOR JACK STUDS  (BASED ON LABLES \$502.5(), \$40)  MARKS OF JACK STUDG BOY BEING (A CORE OF		Weaver Development	CITY / CO.	Harnett Co. / Harnett
	HEADER/FERDER		JOB NAME	Lot 3 Adcock Farm	ADDRESS	Lot 3 Adcock Farm
			PLAN	Nicholson (190717B)	MODEL	Roof
	1700 1 2550 1 3400 2 5100 2 5100 3 7650 3		SEAL DATE	Seal Date	DATE REV.	/ /
	6800 4 10200 4 8500 5 12750 5 10200 6 15300 6		QUOTE #	Quote #	DRAWN BY	Christine Shivy
	11900 7 13600 8 15300 9		JOB #	J0520-2108	SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online because the seed of t

**Christine Shivy** 



Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444