PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT: 25'-6"

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 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

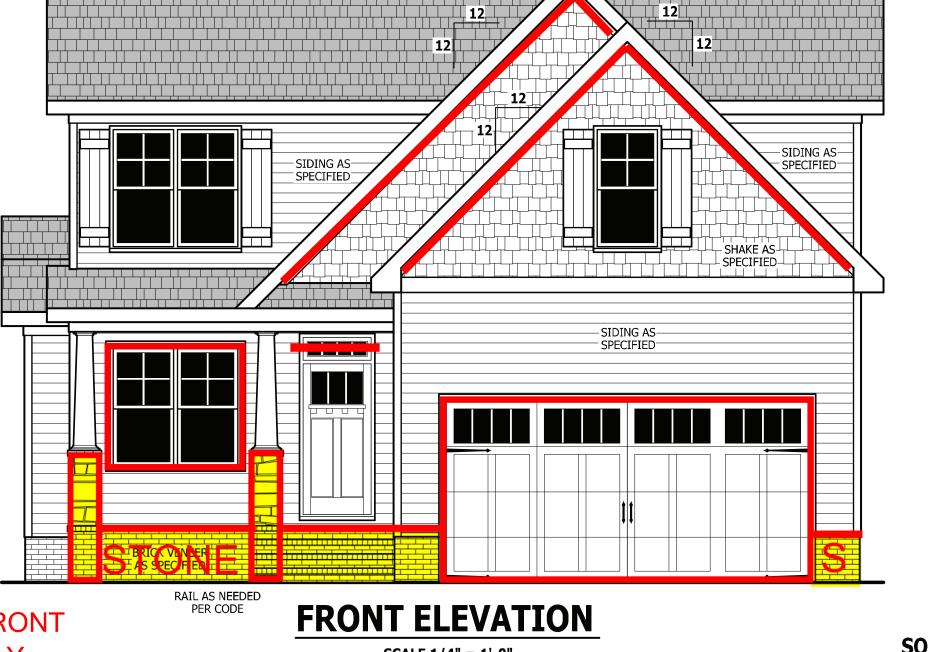
FOOTING; INSULATION DEPTH WITH STEM WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B"

DESIGNED FOR WIN	D JI LLD	OI 120 MI	II, J OLG	וכטט טווול	וכחו ככן	LOT MILL)	L/II 030I	(L D
COMPONENT	& CLA	DDING	DESIG	NED FO	R THE	FOLLO'	WING I	LOADS
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	-17.9
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	PH, 3 SEC0	OND GUST	(101 FAS	TEST MILE	E) EXPOSU	IRE "B"
COMPONENT	& CLA	DDING	DESIG	NED FC	R THE	FOLLO	WING I	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	-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

***STONE ON FRONT **ELEVATION ONLY.**

Harnett



RIDGE VENT AS REQUIRED

COMPOSITION SHINGLES AS

SCALE 1/4" = 1'-0"

SHINGLES AS

SIDING AS-

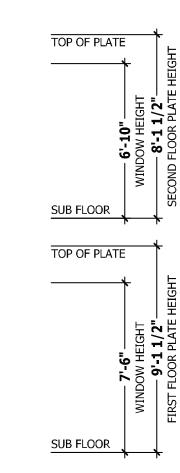
REAR ELEVATION

BRICK VENEER =

SCALE 1/4" = 1'-0"

LOT 16 MITCHELL MANOR TBD WENDYWOOD DR ANGIER, NC 27501

3 CAR GARAGE



SQUARE FOOTAGE HEATED

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

UNHEATED

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

UNHEATED OPTIONAL 270 SQ FT. 270 SQ FT. THIRD GARAGE GARAGE

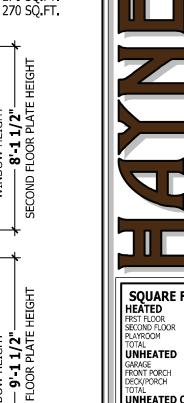
TOP OF PLATE

SUB FLOOR

TOP OF PLATE

SUB FLOOR

RAIL AS NEEDED PER CODE



SQUARE FOOTAGE
HEATED
FRST FLOOR
SECOND FLOOR
PLAYROOM
1743 SQ.FT
TOTAL
1735 SQ.FT
UNHEATED
CAPAGE
400 SQ. ET UNHEATED OPTIONAL

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ROOF VENTILATION

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 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 = 4.48 SQ.FT.

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.

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 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 *quards* 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

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 4 3/8 inches (111 mm) in diameter.

PARGE

AS SPECIFIED $^{\pm}$

ELEVATIONS REAR

S0 NICHOL 8 **FRONT**

PURCHASER MUST VERIFY ALI

DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGIN

HAYNES HOME PLANS, INC.

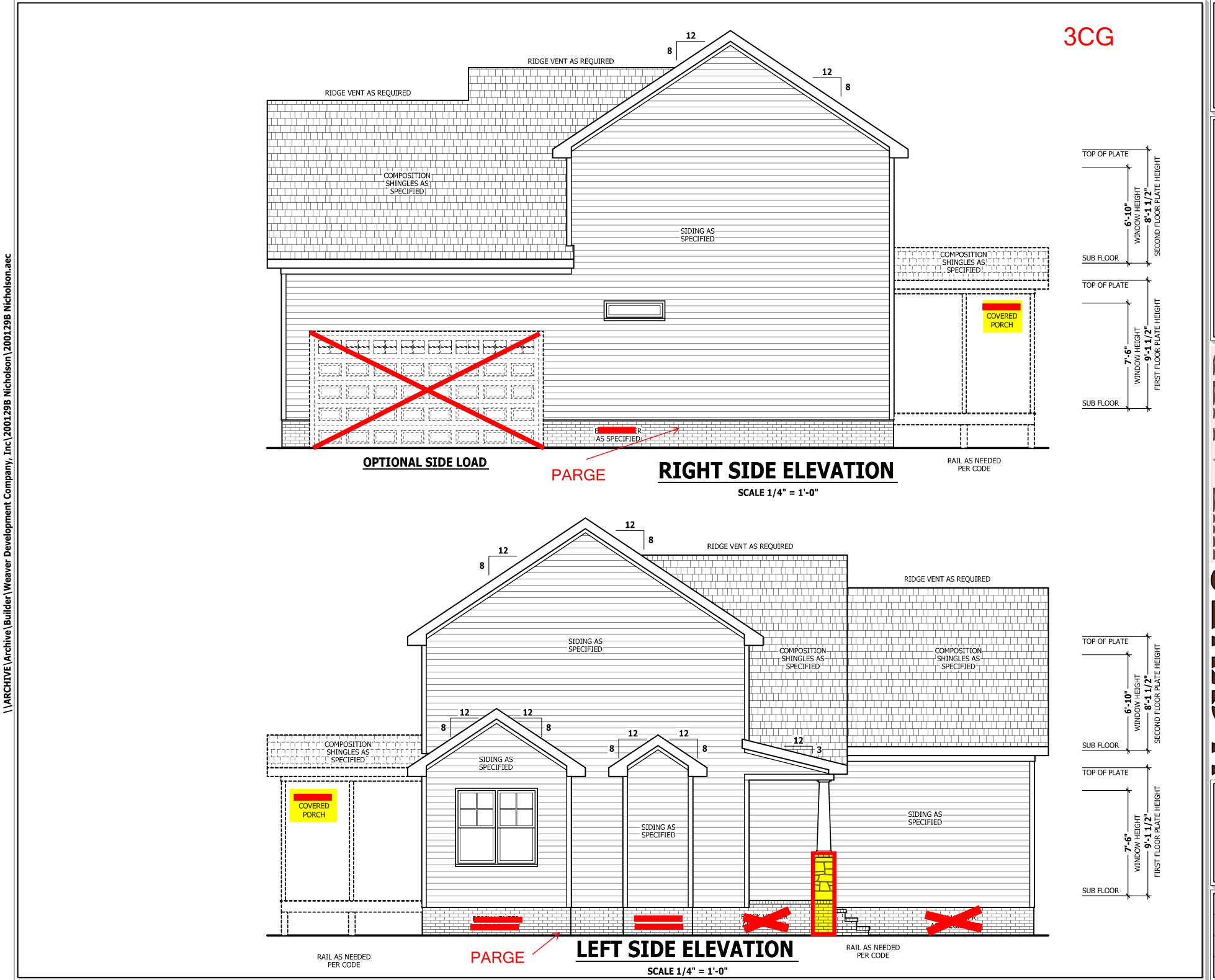
ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

CODES AND CONDITIONS MA

VARY WITH LOCATION. A LOCA

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PAGE 1 OF 8



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.

ELEVATIONS RIGHT

∞

NICHOLSON

 SQUARE FOOTAGE

 HEATED
 798 SQ.FT.

 FRST FLOOR
 743 SQ.FT.

 SECOND FLOOR
 743 SQ.FT.

 TOTAL
 194 SQ.FT.

 TOTAL
 1735 SQ.FT.

 UNHEATED
 400 SQ.FT.

 FRONT PORCH
 86 SQ.FT.

 DECK/PORCH
 120 SQ.FT.

 TOTAL
 605 SQ.FT.

 UNHEATED
 OPTIONAL

 THIRD GARAGE
 270 SQ.FT.

 GARAGE
 270 SQ.FT.

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IMENSIONS AND CONDITION BEFORE CONSTRUCTION BEGIN: HAYNES HOME PLANS, INC. CONTRACTORS PRACTICES AND CODES AND CONDITIONS MA VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR

NGINEER SHOULD BE CONSULTE THESE DRAWING ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

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SQUARE FOOTAGE
HEATED
FRST FLOOR 798 SQ.FT
SECOND FLOOR 743 SQ.FT
TOTAL 1735 SQ.FT
UNHEATED
CARACTE
400 SQ. FT TOTAL 606 SQ.F

UNHEATED OPTIONAL

THIRD GARAGE 270 SQ.F

GARAGE 270 SQ.F

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PAGE 3 OF 8



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/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.

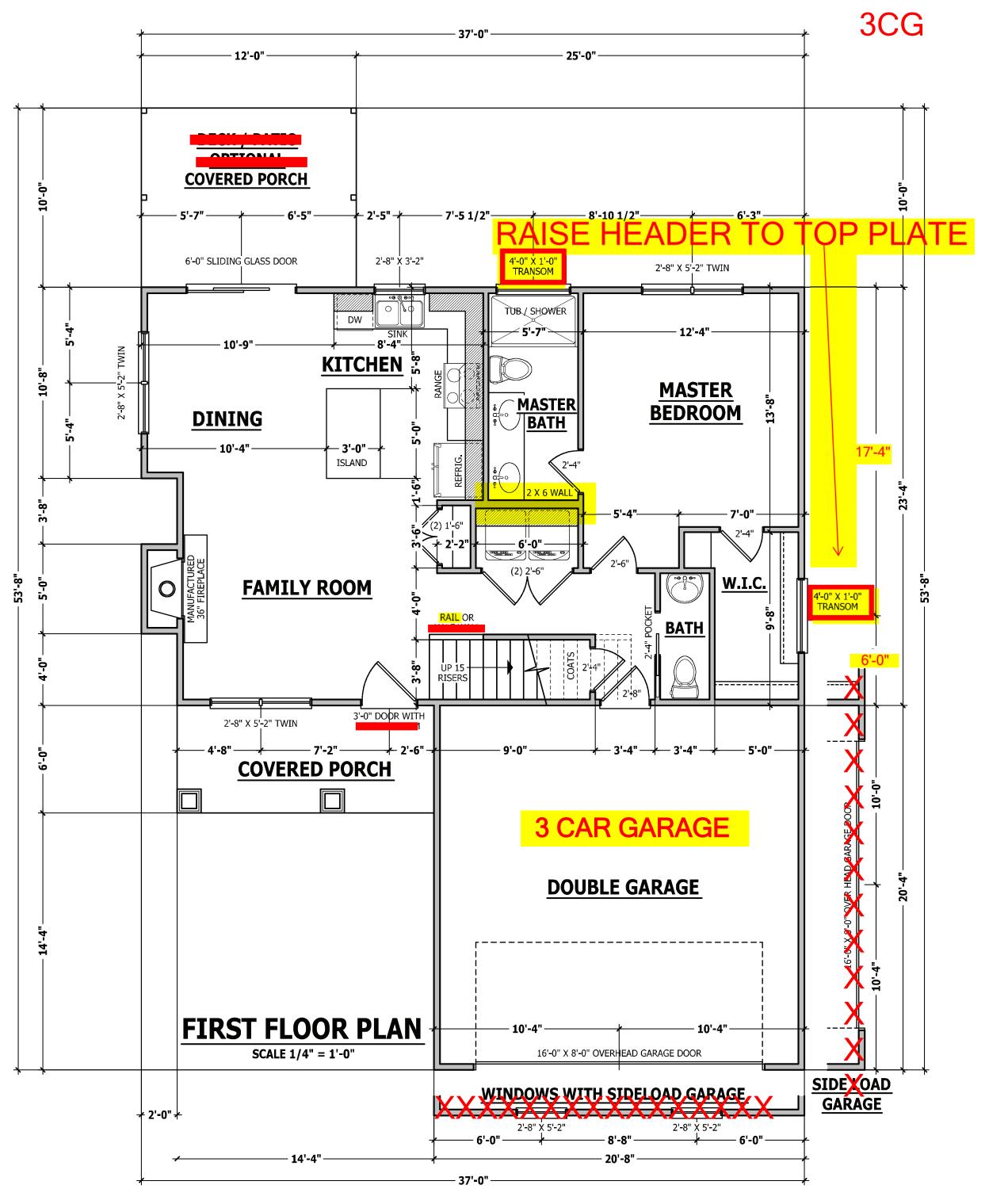
OPENING PENETRATIONS. Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

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.

SQUARE FOOTAGE HEATED

FRST FLOOR 798 SQ.FT. SECOND FLOOR 743 SQ.FT. 194 SQ.FT. 1735 SQ.FT. PLAYROOM UNHEATED 400 SQ.FT. 86 SQ.FT. 120 SQ.FT. 606 SQ.FT. GARAGE FRONT PORCH DECK/PORCH **UNHEATED OPTIONAL** THIRD GARAGE 270 SQ.FT. GARAGE 270 SQ.FT.



PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

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.

FLOOR PLAN

FIRST

NICHOLSO

HOME SING. 1960. 1960. 1960.

SQUARE FOOTAGE
HEATED
FRST FLOOR 798 SQ.FT
SECOND FLOOR 743 SQ.FT
PLAYROOM 194 SQ.FT
TOTAL 1735 SQ.FT
UNHEATED
GARAGE 400 SQ. ET

GARAGE 400 SQ.FT.
FRONT PORCH 86 SQ.FT.
DECK/PORCH 120 SQ.FT.
TOTAL 606 SQ.FT.
UNHEATED OPTIONAL
THIRD GARAGE 270 SQ.FT.
GARAGE 270 SQ.FT.

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PAGE 4 OF 8

JOB SITE PRACTICES AND SAFETY: Havnes 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.

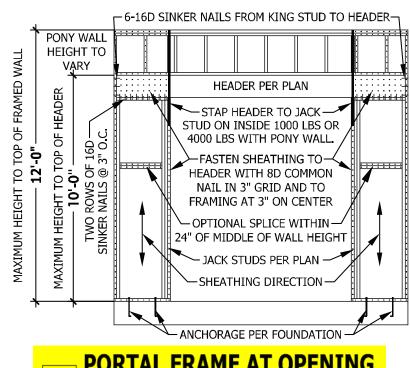
BRACE WALL PANEL NOTES

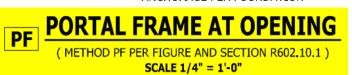
GYPSUM: All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using

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.

of the brace wall panel closets to the corner.

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.





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. 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.

-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

(2) 2 X 10

DECV / DATIO

COVERED PORCH

1 JACK STUD AND 1 KING STUD EACH END

- NON LOAD BEARING HEADERS TO BE

UNLESS NOTED OTHERWISE

LADDER FRAMED

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

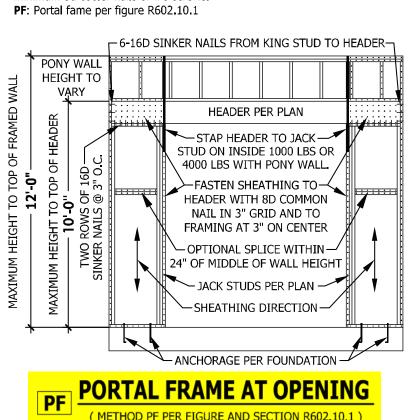
method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1. **REOUIRED LENGTH OF BRACING:** Required brace wall length

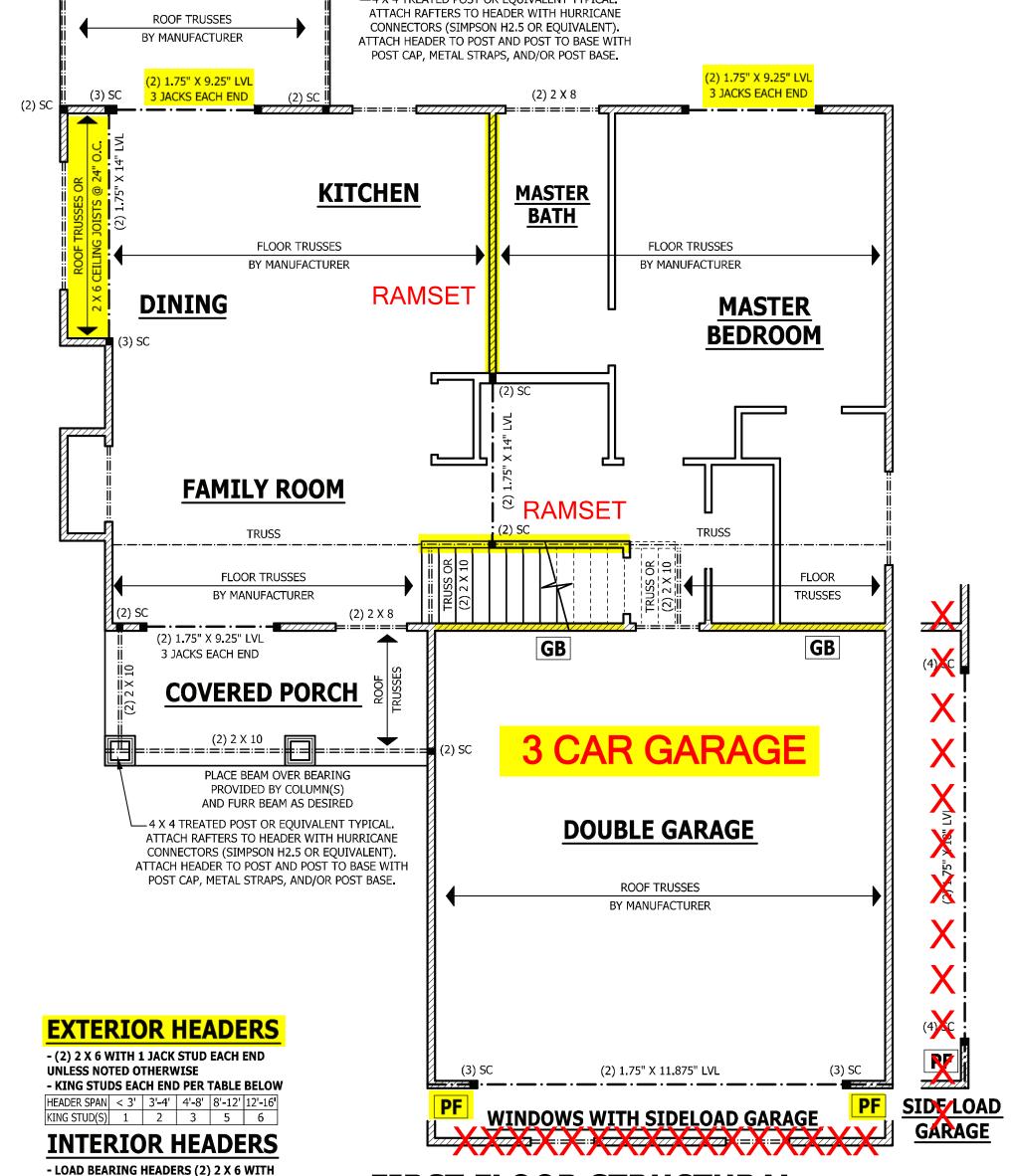
HD: 800 lbs hold down hold down device fastened to the edge

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

GB: Interior walls show as GB are to have minimum 1/2"





FIRST FLOOR STRUCTURAL

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 NGINEER SHOULD BE CONSULTED

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

> STRUCTURAL 0 S FLOOR

NICHOL

SQUARE FOOTAGE
HEATED FRST FLOOR SECOND FLOOR PLAYROOM TOTAL UNHEATED GARAGE FRONT PORCH DECK/PORCH UNHEATED OPTIONAL

© Copyright 2019 Haynes Home Plans, Inc 4/7/2020 190717B PAGE 5 OF 8 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		

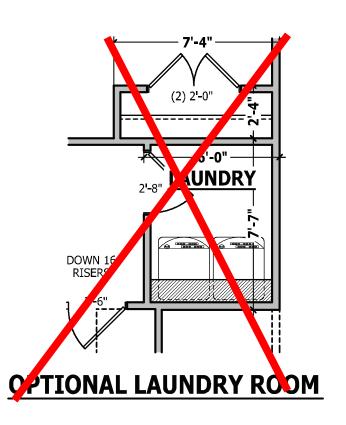
FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.

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.



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.

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. **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

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.

WALL THICKNESSES

3CG

ECOND FLOOR PLAN

S

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 INGINEER SHOULD BE CONSULTED

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INSTRUMENTS OF SERVICE AND

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PROPERTY OF THE DESIGNER

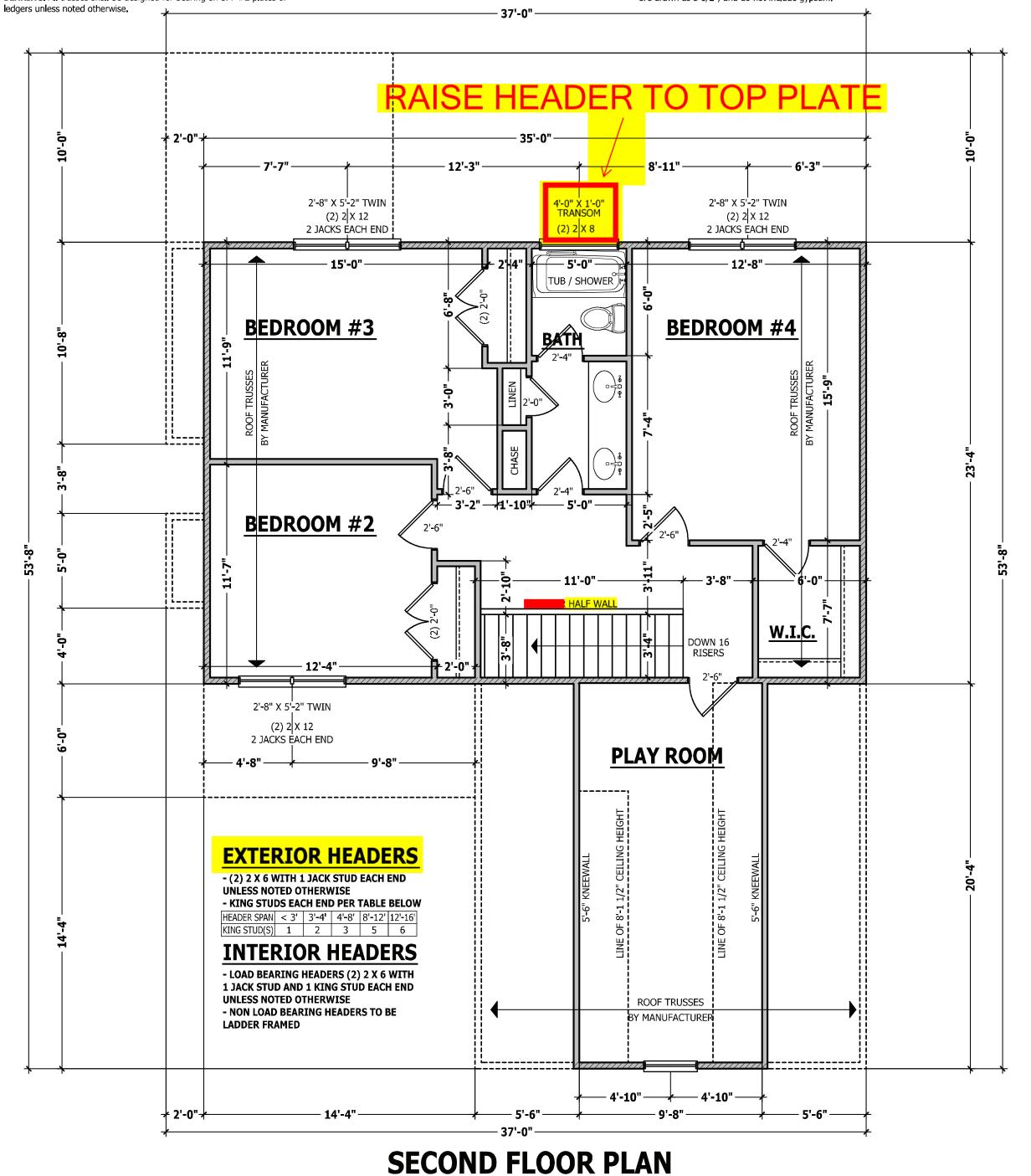
NICHOLSO

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PAGE 6 OF 8



SCALE 1/4" = 1'-0"

OPTIONAL COVERED PORCH

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

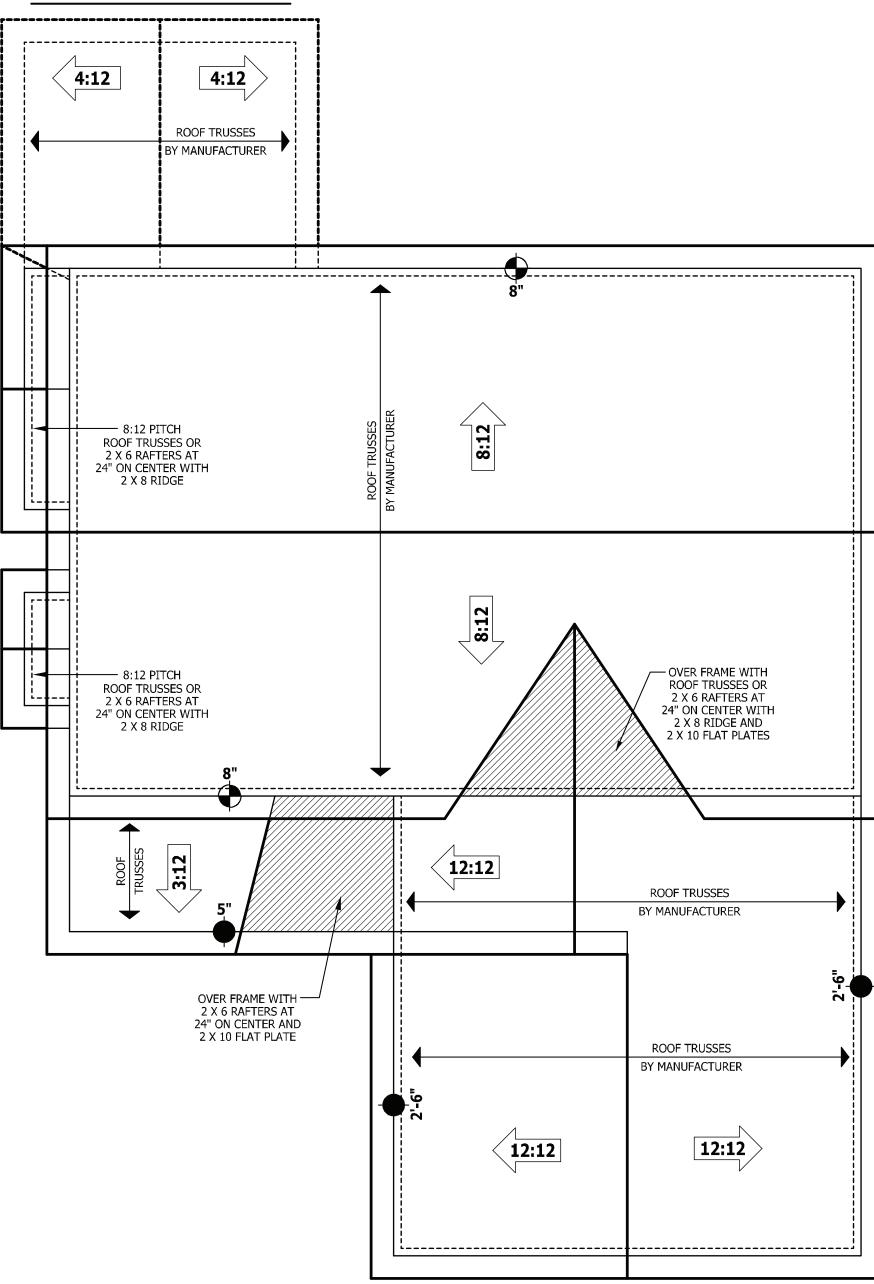
ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. **BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

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

HEEL HEIGHT ABOVE FIRST FLOOR PLATE

reasonability of the truss manufacturer.





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

S0

ROOF PLAN NICHOL



 SQUARE FOOTAGE

 HEATED
 798 SQ.FT.

 FRST FLOOR
 743 SQ.FT.

 SECOND FLOOR
 743 SQ.FT.

 TOTAL
 1735 SQ.FT.

 UNHEATED
 400 SQ.FT.

 FRONT PORCH
 86 SQ.FT.

 DECK/PORCH
 120 SQ.FT.

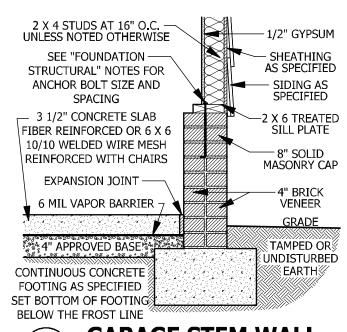
 TOTAL
 606 SQ.FT.

 UNHEATED
 OPTIONAL

 THIRD GARAGE
 270 SQ.FT.

 GARAGE
 270 SQ.FT.

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GARAGE STEM WALL 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 cut 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.

DECK BRACING

SECTION AM109

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

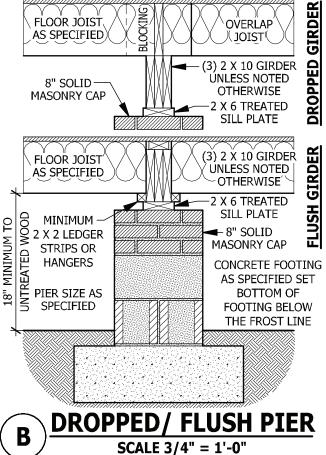
above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section AM104, lateral bracing is not required.

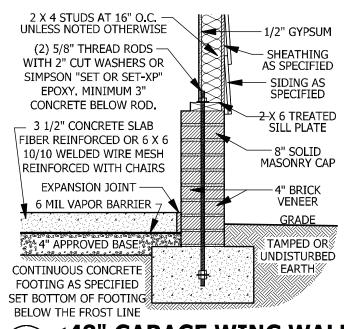
each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall be bolted to the post and the girder/double band with one 5/8 inch hot dipped galvanized bolt with nut and washer at both ends of the

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

dil	a the foll	owing.			
	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,





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

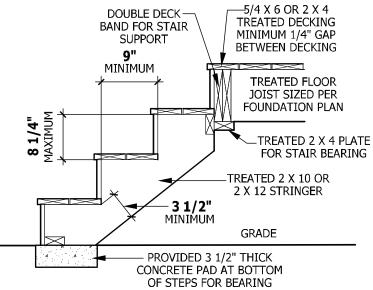


FIGURE AM110 TYPICAL DECK STAIR DETAIL

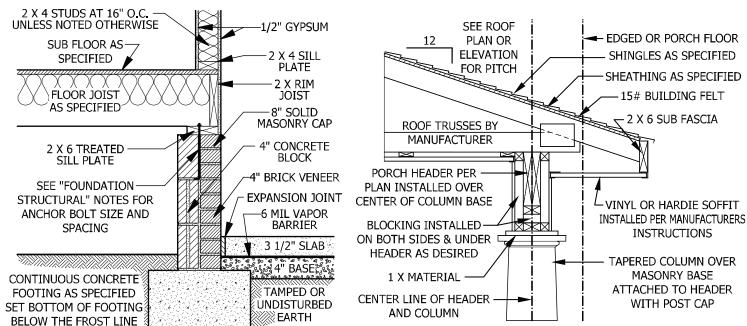
SCALE 3/4" = 1'-0"

WEEP SCREEDS

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

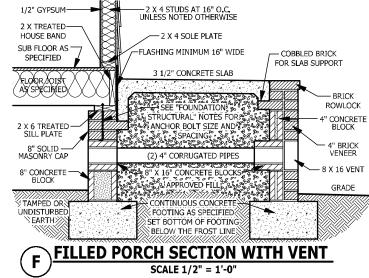
R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls

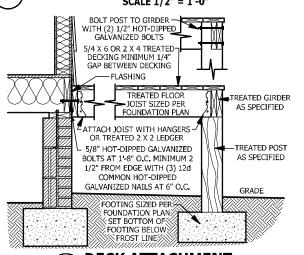
in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the lap the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed.



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

- 2 X 4 STUDS AT 16" O.C.





DECK ATTACHMENT

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 d 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 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:

In each sleeping room.

2. Outside each separate sleeping area in the immediate vicinity of

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 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 building. The weather-resistant barrier shall 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.

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

PORCH HEADER WITH

CARBON MONOXIDE ALARMS

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

R315.3 Alarm requirements. The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors dosed. 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

R311.7.2 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 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 device(s), it shall become a permanent fixture of the occupancy and 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

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:**

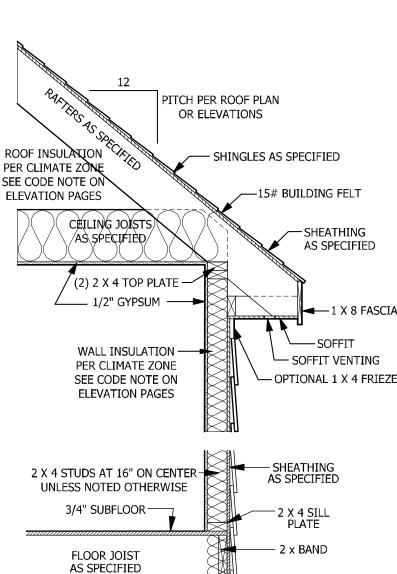
1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.

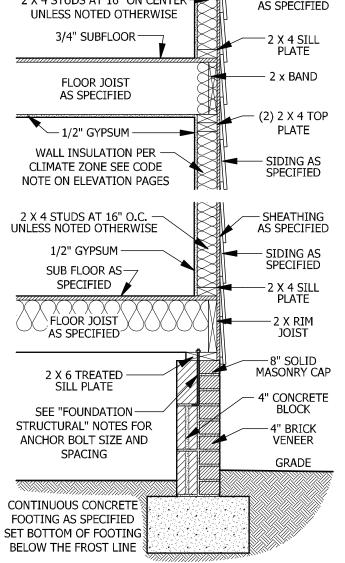
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to quardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

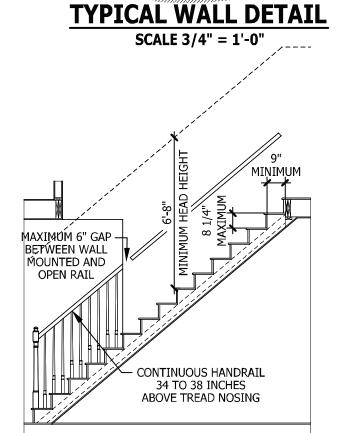
R311.7.7.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails an individual dwelling unit the alarm devices shall be interconnected 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"

PURCHASER MUST VERIFY ALL EFORE CONSTRUCTION BEGIN: HAYNES HOME PLANS, INC. CONTRACTORS PRACTICES AND PROCEDURES. CODES AND CONDITIONS MA VARY WITH LOCATION, A LOCAL DESIGNER, ARCHITECT OF NGINEER SHOULD BE CONSULTE THESE DRAWING ARE NSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER

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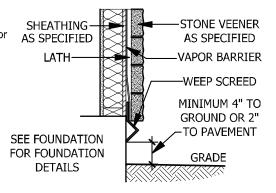
SQUARE FOOTAGE HEĂTED FRST FLOOR SECOND FLOOR PLAYROOM UNHEATED Garage Front Porch UNHEATED OPTIONAL

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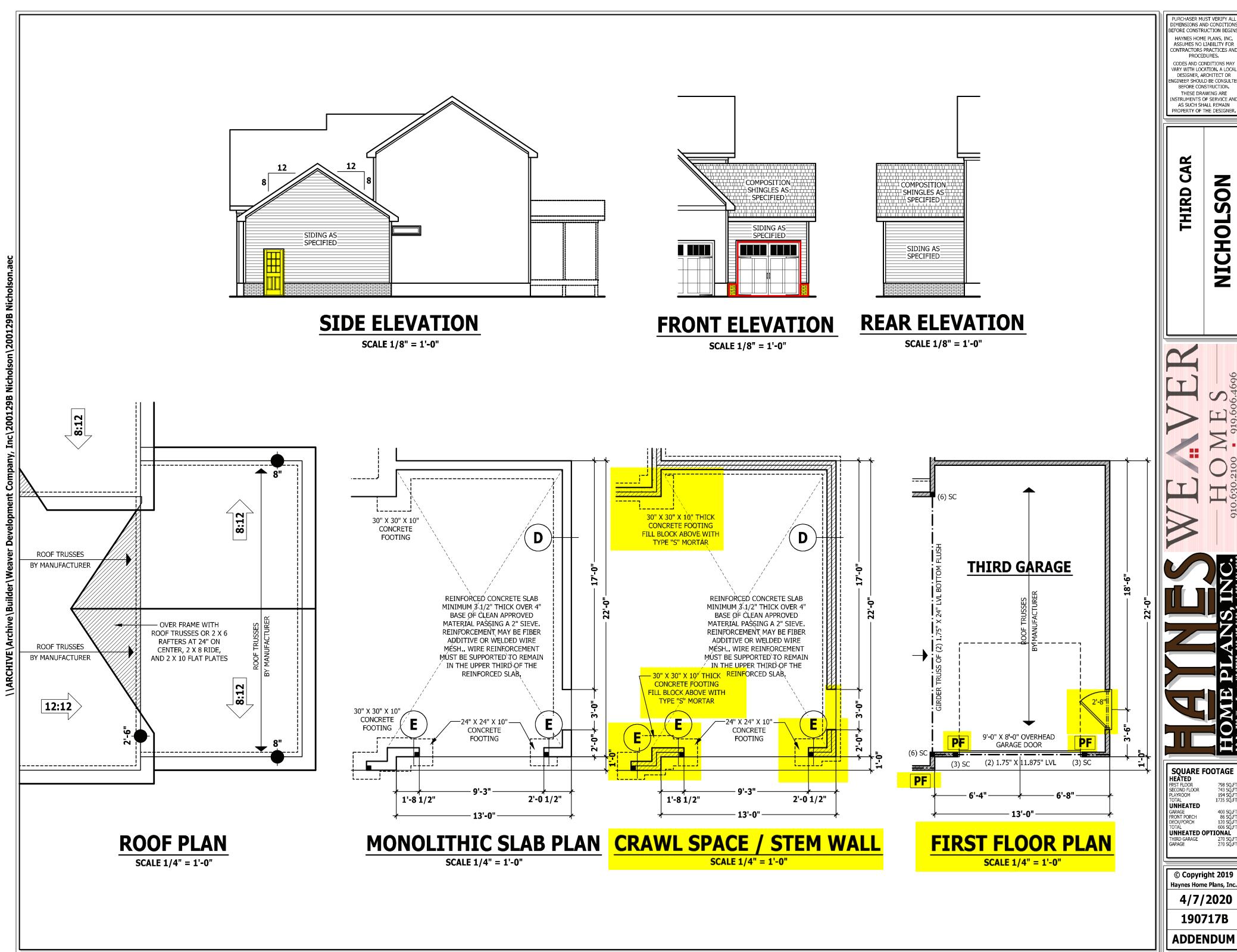
PAGE 8 OF 8

AM109.1.1. When the deck floor height is less than 4'-0" **AM109.1.2.** 4 x 4 wood knee braces may be provided on brace per Figure AM109.1

see Chapter 45.



WEEP SCREED SCALE 3/4" = 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 MA VARY WITH LOCATION. A LOCAL
DESIGNER, ARCHITECT OR
ENGINEER SHOULD BE CONSULTED
BEFORE CONSTRUCTION. THESE DRAWING ARE INSTRUMENTS OF SERVICE AND

.SO NICHOL

 SQUARE FOOTAGE

 HEATED
 798 SQ.FT.

 FRST FLOOR
 743 SQ.FT.

 SECOND FLOOR
 743 SQ.FT.

 PLAYROOM
 194 SQ.FT.

 TOTAL
 1735 SQ.FT.

 UNHEATED
 86 SQ.FT.

 GARAGE
 400 SQ.FT.

 FRONT PORCH
 28 SQ.FT.

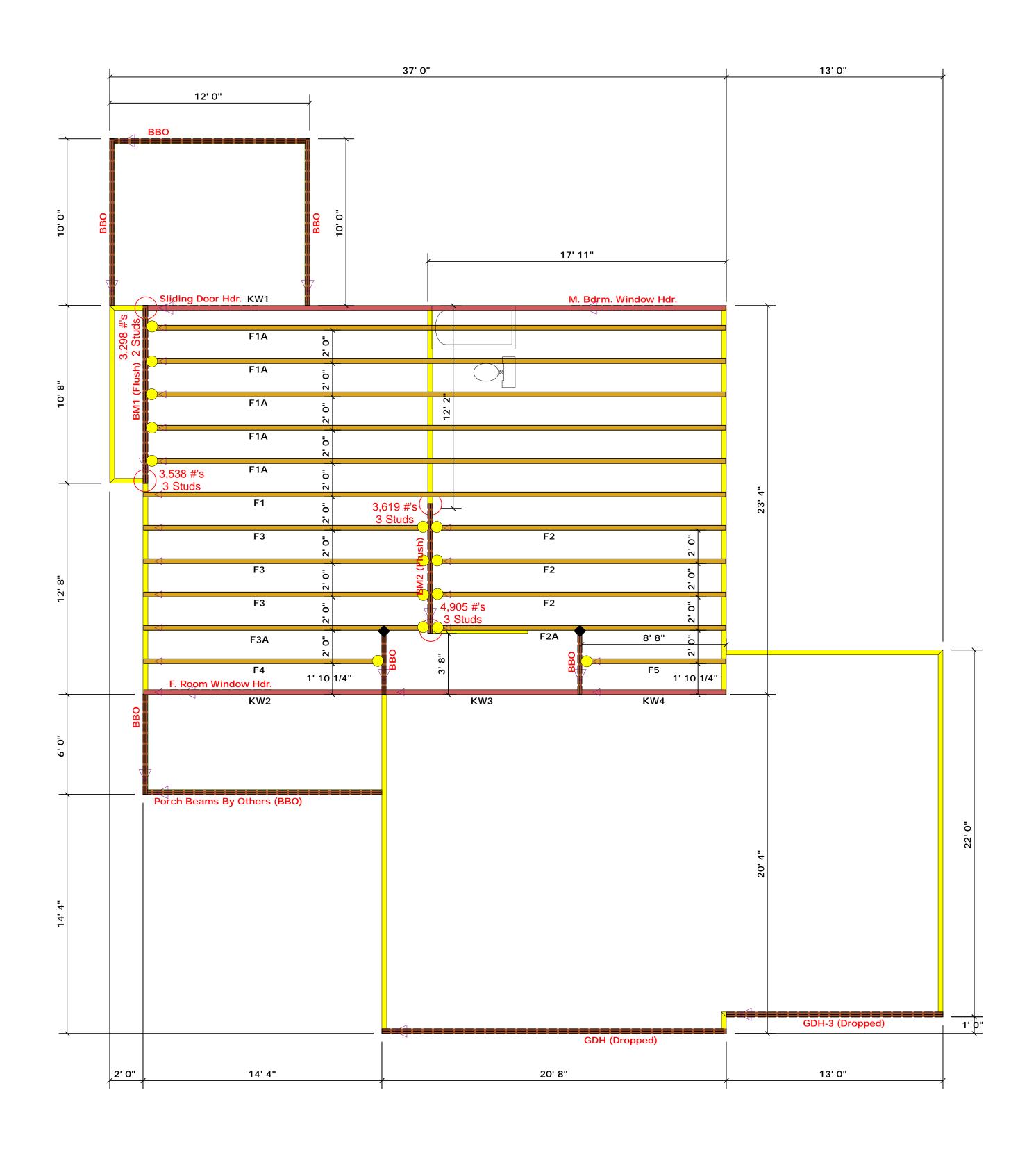
 TOTAL
 606 SQ.FT.

 UNHEATED
 OPTIONAL

 THIRD GARAGE
 270 SQ.FT.

 GARAGE
 270 SQ.FT.

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

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

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
F. Room Window Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
M. Bdrm. Window Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
Sliding Door Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH (Dropped)	21' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
GDH-3 (Dropped)	13' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
BM1 (Flush)	11' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM2 (Flush)	8' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

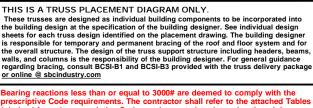
than 3,000 lbs. Unless Noted Otherwise.

All Truss Reactions are Less

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

LO	4D 6	HA	RT FO	RЈ	ACK.	STUD	5
			N LABLES			**	
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ON SEACTION (UT PU)	80, bis ubsites (1) RIV HEADER		NOTE VEHICLE	SEQ 3 STUDS FOR		ENB NIACTION (0° TO)	REQIDISTILDS FOR (4) MLY HEADER
1700	1		2550	1		3400	1
3400	2		5100	2		6800	2
5100	3		7650	3		10200	3
0086	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.	Angier / Harnett	THIS IS A These truss the building sheets for ea
JOB NAME	Lot 16 Mitchell Manor	ADDRESS	58 Wendywood Drive	is responsib the overall s walls, and co regarding br
PLAN	Nicholson 3 Car	MODEL	Floor	or online @ Bearing rea prescriptive
SEAL DATE	Seal Date	DATE REV.	/ /	(derived fro foundation than 3000# be retained
QUOTE #	Quote #	DRAWN BY	Christine Shivy	specified in retained to
JOB #	J1221-7066	SALES REP.	Lenny Norris	Signatu



ROOF & FLOOR TRUSSES & BEAMS

ppport system for any reaction that exceeds those bles. A registered design professional shall be ort system for all reactions that exceed 15000#.

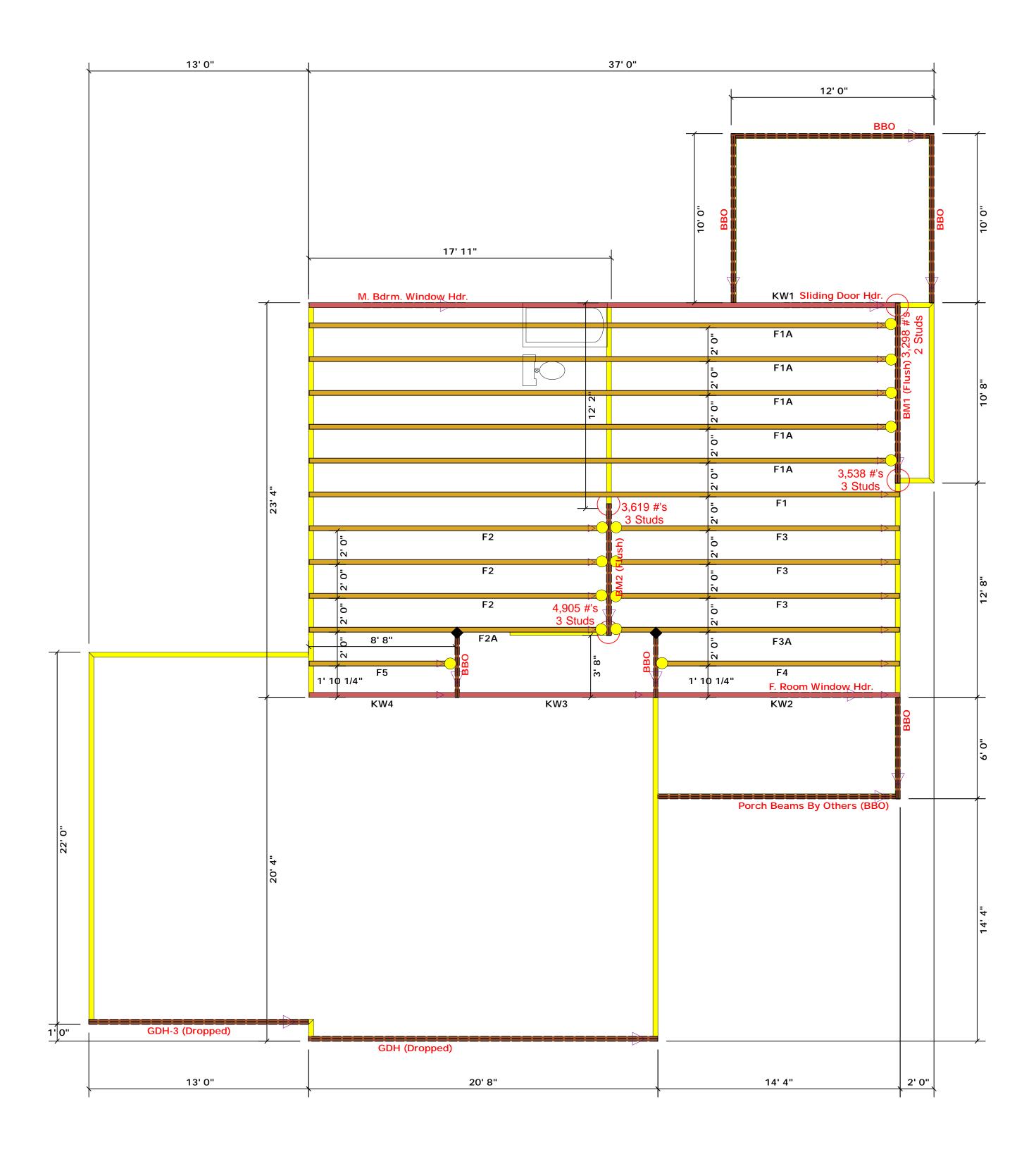
Christine Shivy

Christine Shivy

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	Fab Type
F. Room Window Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
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Sliding Door Hdr.	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH (Dropped)	21' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
GDH-3 (Dropped)	13' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
BM1 (Flush)	11' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM2 (Flush)	8' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

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

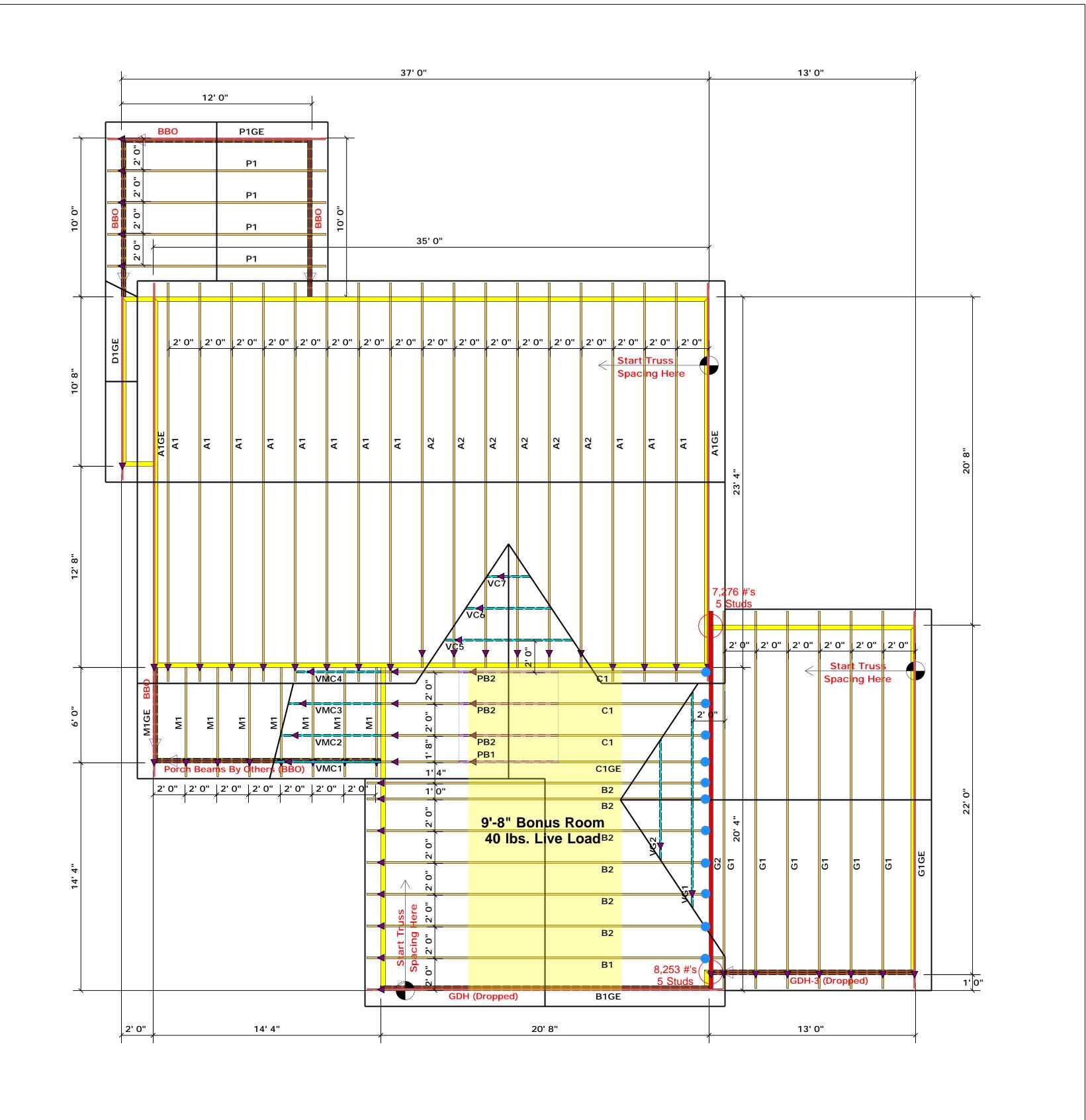
-- Denotes Reaction Greater than 3,000 lbs.
Reaction / # of Studs

LO	-				ACK STUD	5
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ND BLACTION (0T PU)	SEC DISTUDS FOR CORN HEADER		SND PEACTION (I.P.A.)	REQUESTUDS FOR COURT - CARCIN	END NIACTOON (0° 10)	REQUESTABLE FOR
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	á		15300	6		
11900	7					
13600	8					
15300	9					

BUILDER	Weaver Development	CITY / CO.	Angier / 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 designe
JOB NAME	Lot 16 Mitchell Manor	ADDRESS	58 Wendywood Drive	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, bean 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 packe
PLAN	Nicholson 3 Car	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 Tabl
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 great 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
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#.
Q001E#	Quote #	DRAWINDI	Chilistine Shivy	Christine Shivy
IOD	11001 7077	CALEC DED	Lawaria	Signature
JOB #	J1221-7066	SALES REP.	Lenny Norris	Christine Shivy



Fax: (910) 864-4444



= HUS26 (Qty. 11)

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

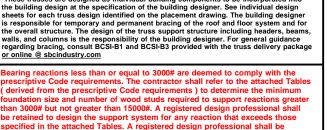
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

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

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

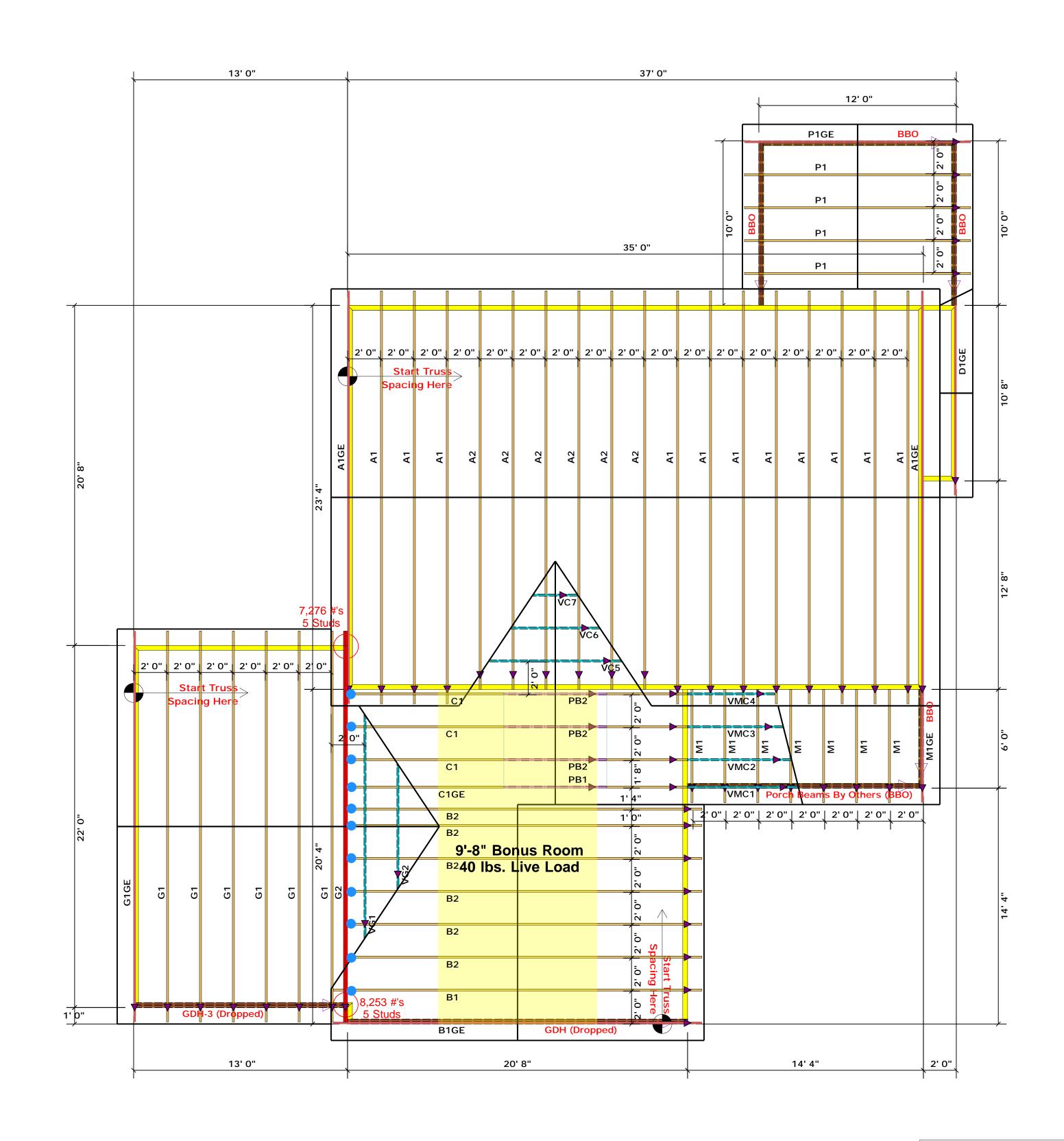
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3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	á	15300	6		
11900	7				
13600	8				
15300	9				

	BUILDER	Weaver Development	CITY / CO.	Angier / Harnett	THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorposed the building design at the specification of the building designer. See individual sheets for each truss design identified on the placement drawing. The build
	JOB NAME	Lot 16 Mitchell Manor	ADDRESS	58 Wendywood Drive	is responsible for temporary and permanent bracing of the roof and floor sy the overall structure. The design of the truss support structure including he walls, and columns is the responsibility of the building designer. For genera regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss de
	PLAN	Nicholson 3 Car	MODEL	Roof	or online @ sbcindustry.com Bearing reactions less than or equal to 3000# are deemed to comply prescriptive Code requirements. The contractor shall refer to the attractor shall refer to the
	SEAL DATE	Seal Date	DATE REV.	/ /	(derived from the prescriptive Code requirements) to determine the foundation size and number of wood studs required to support react than 3000# but not greater than 15000#. A registered design professibe retained to design the support system for any reaction that excee
	QUOTE #		DRAWN BY	Christine Shivy	specified in the attached Tables. A registered design professional shartened to design the support system for all reactions that exceed 1 Christine Shivy
-	JOB #	J1221-7065	SALES REP.	Lenny Norris	Christine Shivy



соттесн **ROOF & FLOOR TRUSSES & BEAMS**

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



= HUS26 (Qty. 11)

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

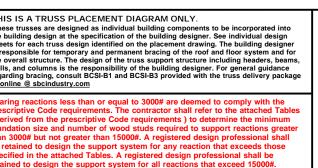
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

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

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

	LO.	AD (CHA	RT FO	RJ	4CK	STUD	5			
	(045Fb ON 1404F5 R502 5(1) Å (b))										
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I	1700	1		2550	1		3400	1			
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l	5100	3		7650	3		10200	3			
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	8500	5		12750	5		17000	5			
ŀ	10200	á		15300	6						
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ŀ	15300	9									

	BUILDER	Weaver Development	CITY / CO.	Angier / Harnett	THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be inct the building design at the specification of the building designer. See individual sheets for each truss design identified on the placement drawing. The bu		
1000	JOB NAME	Lot 16 Mitchell Manor	ADDRESS	58 Wendywood Drive	is responsible for temporary and permanent bracing of the roof and floor sy the overall structure. The design of the truss support structure including he walls, and columns is the responsibility of the building designer. For genera regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss de		
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-	I LAIN	TVICTIOISOIT 5 Cai	WIODEL	1001	Bearing reactions less than or equal to 300# are deemed to comply prescriptive Code requirements. The contractor shall refer to the atta (derived from the prescriptive Code requirements) to determine the		
_	SEAL DATE	Seal Date	DATE REV.	/ /	foundation size and number of wood studs required to support react than 3000# but not greater than 15000#. A registered design professi be retained to design the support system for any reaction that excee		
	QUOTE #		DRAWN BY	Christine Shivy	specified in the attached Tables. A registered design professional shretained to design the support system for all reactions that exceed 1		
-	20012 //		BIO CONTROL ON		Christine Shivy		
-	JOB#	J1221-7065	SALES REP.	Lenny Norris	Christine Shivy		
		4		· · · · · · · · · · · · · · · · · · ·	•		





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



Client: Weaver Development Project: The Nicholson Address:

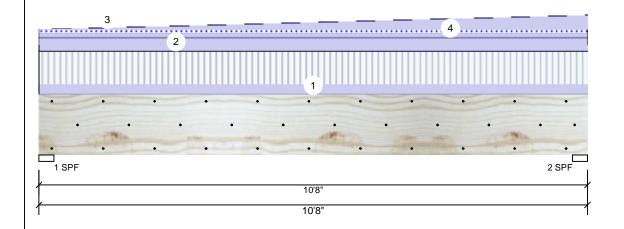
The Nicholson

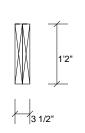
Date: 4/14/2022 Input by: Christine Shivy Job Name: Nicholson

Project #:

Kerto-S LVL 2-Ply - PASSED 1.750" X 14.000" BM₁

Level: Level





Page 1 of 1

Member Information

Type

турс.	Ollder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Girder

Application: Floor ASD Design Method: **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Brg Wind Direction Live Dead Snow Const Vertical 1600 1698 213 0 0 1 1938 2 Vertical 1600 213 0 0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	63%	1698 / 1600	3298	L	D+L
2 - SPF	3.500"	Vert	68%	1938 / 1600	3538	1	D+I

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8351 ft-lb	5'5"	26999 ft-lb	0.309 (31%)	D+L	L
Unbraced	8351 ft-lb	5'5"	10599 ft-lb	0.788 (79%)	D+L	L
Shear	3001 lb	9'2 1/2"	10453 lb	0.287 (29%)	D+L	L
LL Defl inch	0.055 (L/2228)	5'4"	0.255 (L/480)	0.215 (22%)	L	L
TL Defl inch	0.117 (L/1043)	5'4 3/8"	0.340 (L/360)	0.345 (35%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

o Lateral Sierius	erness ratio based on single	piy widiri.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	100 PLF	300 PLF	0 PLF	0 PLF	0 PLF	F1A
2	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Wall Load
3	Tapered Start	0-0-0		Тор	0 PLF	0 PLF	0 PLF	0 PLF	0 PLF	A1GE
	End	10-8-0			130 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
4	Uniform			Тор	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	2'-0" Roof Load
	Self Weight				11 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
 - LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 - Damaged Beams must not be used

 - Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







Client: Weaver Development Project:

The Nicholson The Nicholson

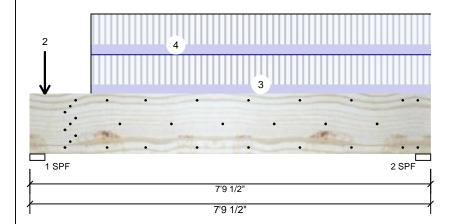
Date: 4/14/2022 Input by: Christine Shivy Job Name: Nicholson

Project #:

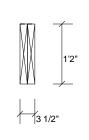
Kerto-S LVL 1.750" X 14.000" BM₂

2-Ply - PASSED

Level: Level



Address:



Page 1 of 1

Member Information

Туре: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II Temperature: Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3644	1261	0	0	0
2	Vertical	2679	939	0	0	0

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	94%	1261 / 3644	4905	L	D+L
2 - SPF	3 500"	Vert	70%	939 / 2679	3619	1	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6133 ft-lb	3'11 1/2"	26999 ft-lb	0.227 (23%)	D+L	L
Unbraced	6133 ft-lb	3'11 1/2"	13870 ft-lb	0.442 (44%)	D+L	L
Shear	3460 lb	1'5 1/2"	10453 lb	0.331 (33%)	D+L	L
LL Defl inch	0.038 (L/2320)	3'11 1/8"	0.183 (L/480)	0.207 (21%)	L	L
TL Defl inch	0.051 (L/1717)	3'11 1/8"	0.244 (L/360)	0.210 (21%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.

o Lateral sieriderness ratio based on single ply width.										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	0-3-8		Near Face	306 lb	917 lb	0 lb	0 lb	0 lb	F3A
2	Point	0-3-8		Far Face	264 lb	790 lb	0 lb	0 lb	0 lb	F2A
3	Part. Uniform	1-2-4 to 7-9-8		Near Face	115 PLF	344 PLF	0 PLF	0 PLF	0 PLF	F3
4	Part. Uniform	1-2-4 to 7-9-8		Far Face	119 PLF	355 PLF	0 PLF	0 PLF	0 PLF	F2
	Self Weight				11 PLF					

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







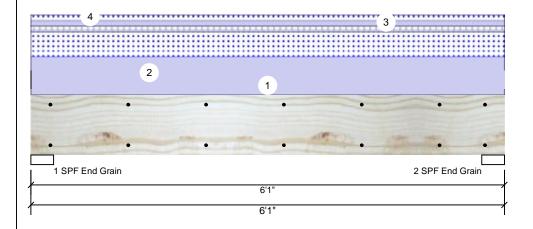
Client: Weaver Development Project: The Nicholson

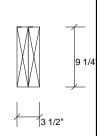
Date: 4/14/2022 Input by: Christine Shivy Job Name: Nicholson The Nicholson

Project #:

1.750" X 9.250" 2-Ply - PASSED Level: Level F. Room Window Hdr. **Kerto-S LVL**

Address:





Page 1 of 1

Member Information							
Type:	Girder						
Plies:	2						
Moisture Condition:	Dry						
Deflection LL:	480						
Deflection TL:	360						
Importance:	Normal - II						
Temperature:	Temp <= 100°F						

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Rea	ctions UNPA	ATTERNED	lb (Uplift)		
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	122	1375	928	0	0
2	Vertical	122	1375	928	0	0

Analysis Results Analysis Actual Comb. Case Location Allowed Capacity 3' 1/2" 14423 ft-lb Moment 2995 ft-lb 0.208 (21%) D+S L Unbraced 2995 ft-lb 3' 1/2" 10944 ft-lb 0.274 (27%) D+S L 1504 lb 1' 3/4" 7943 lb 0.189 (19%) D+S Shear ī LL Defl inch 0.019 (L/3521) 3' 1/2" 0.141 (L/480) 0.136 (14%) S TL Defl inch 0.048 (L/1418) 3' 1/2" 0.188 (L/360) 0.254 (25%) D+S

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 1375 / 928 2303 I D+S End Grain 2 - SPF 3.500" 1375 / 928 2303 L D+S Vert 22% End Grain

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

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ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Load	
2	Uniform			Тор	249 PLF	0 PLF	249 PLF	0 PLF	0 PLF	A1	
3	Uniform			Тор	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	1'-0" Floor Load	
4	Uniform			Тор	56 PLF	0 PLF	56 PLF	0 PLF	0 PLF	M1	
	Self Weight				7 PLF						

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







Client: Weaver Development Project:

Address:

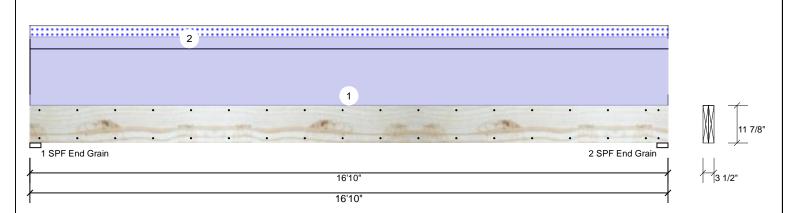
The Nicholson The Nicholson Date: 4/14/2022

Christine Shivy Input by: Job Name: Nicholson

Project #:

GDH Kerto-S LVL 1.750" X 11.875"

Level: Level 2-Ply - PASSED



Member Information Reactions UNPATTERNED Ib (Uplift) Type: Girder Application: Floor Brg Wind Direction Live Dead Snow Const Plies: 2 Design Method: ASD Vertical 0 2098 337 0 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 0 2098 337 0 0 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F Bearings Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500' Vert 24% 2098 / 337 2434 I D+S End Grain Analysis Results D+S 2 - SPF 3.500" Vert 24% 2098 / 337 2434 L Analysis Comb. Actual Location Allowed Case Capacity End 8'5" 17919 ft-lb Moment 8354 ft-lb 0.466 (47%) D Uniform Grain Unbraced 9694 ft-lb 8'5" 9704 ft-lb 0.999 D+S L (100%)

Uniform

ī.

TL Defl inch Design Notes

Shear

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.

7980 lb

8'5 1/16" 0.409 (L/480) 0.171 (17%) S

0.546 (L/360) 0.927 (93%) D+S

0.224 (22%) D

- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.

1'3 3/8"

8'5 1/16"

- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 9'6 3/4" o.c.
- 7 Bottom must be laterally braced at end bearings.

1788 lb

0.506 (L/388)

LL Defl inch 0.070 (L/2809)

8 Lateral slenderness ratio based on single ply width

o Lateral Sic	naciness ratio basea or	i sirigic pry widiri.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Loads (Siding/ Plywood, etc.)	
2	Uniform			Тор	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	2'0" Roof Load	
	Self Weight				9 PLF						

Notes

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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Manufacturer Info

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Page 1 of 1

CSD I



Client: Project: Address:

Weaver Development The Nicholson The Nicholson

Date: 4/14/2022 Input by: Christine Shivy

Job Name: Nicholson

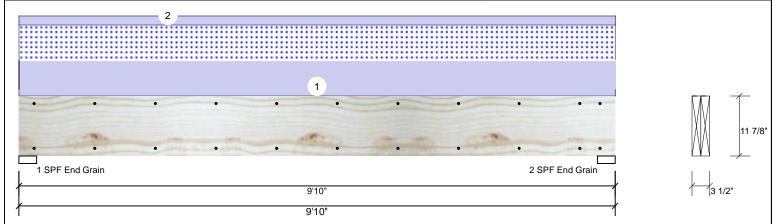
Project #:

Kerto-S LVL GDH-3

1.750" X 11.875"

2-Ply - PASSED

Level: Level



Member Info	rmation				Read	ction	ns UNPA	ATTERN	NED I	b (Uplift)			
Type:	Girder	Application:	Floor		Brg	Dire	ection	Live	:	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD		1	Vert	ical	C)	1476	1136	0	0
Moisture Condition	on: Dry	Building Code:	IBC/IRC 2015		2	Vert	ical	C)	1476	1136	0	0
Deflection LL:	480	Load Sharing:	No										
Deflection TL:	360	Deck:	Not Checked										
Importance:	Normal - II												
Temperature:	Temp <= 100°F												
					Bear	ings	S						
					Bea	aring	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
					1 - : End		3.500"	Vert	25%	1476 / 1136	2612	L	D+S
Analysis Resu	lts	·			Gra	in							
Analysis A	actual Location		ity Comb. 25%) D+S	Case L	2 - 3 End Gra		3.500"	Vert	25%	1476 / 1136	2612	L	D+S

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5836 ft-lb	4'11"	22897 ft-lb	0.255 (25%)	D+S	L
Unbraced	5836 ft-lb	4'11"	9857 ft-lb	0.592 (59%)	D+S	L
Shear	1940 lb	1'3 3/8"	10197 lb	0.190 (19%)	D+S	L
LL Defl inch	0.048 (L/2337)	4'11"	0.234 (L/480)	0.205 (21%)	S	L
TL Defl inch	0.111 (L/1016)	4'11"	0.312 (L/360)	0.354 (35%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.

/ Bottom mus	it be laterally braced at end	bearings.									
8 Lateral slen	derness ratio based on sing	gle ply width.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	231 PLF	0 PLF	231 PLF	0 PLF	0 PLF	G1	
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Loads	
	Self Weight				9 PLF						

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- L. UVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



Page 1 of 1





Client: Weaver Development Project: The Nicholson

The Nicholson

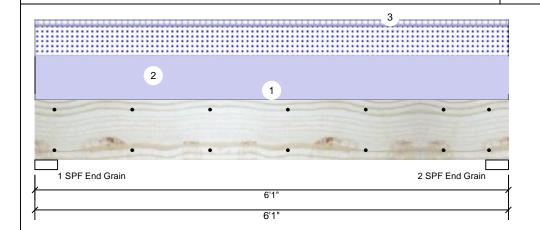
Date: 4/14/2022 Input by: Christine Shivy Job Name: Nicholson

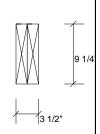
Project #:

Kerto-S LVL 1.750" X 9.250" M. Bdrm. Window Hdr. 2-Ply - PASSED

Address:

Level: Level





Page 1 of 1

Member Inform	ation
Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360

Importance: Normal - II Temperature: Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Read	ctions UNP	ATTERNED	Ib (Uplift))		
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	122	1205	757	0	0
2	Vertical	122	1205	757	0	0

Analysis Results Actual Comb. Case Location Allowed Capacity 3' 1/2" 14423 ft-lb 2552 ft-lb 0.177 (18%) D+S L 2552 ft-lb 3' 1/2" 10944 ft-lb 0.233 (23%) D+S L 1282 lb 1' 3/4" 7943 lb 0.161 (16%) D+S ī LL Defl inch 0.016 (L/4312) 3' 1/2" 0.141 (L/480) 0.111 (11%) S TL Defl inch 0.041 (L/1664) 3' 1/2" 0.188 (L/360) 0.216 (22%) D+S L

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 1205 / 757 1962 L D+S End Grain 1205 / 757 D+S 2 - SPF 3.500" Vert 19% 1962 L End Grain

Design Notes

Analysis

Moment

Shear

Unbraced

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Wall Load
2	Uniform			Тор	249 PLF	0 PLF	249 PLF	0 PLF	0 PLF	A1
3	Uniform			Тор	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	1'0" Floor Load
	Self Weight				7 PI F					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







Client: Weaver Development Project: Address:

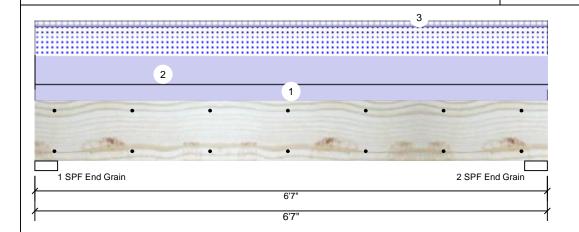
The Nicholson The Nicholson Date: 4/14/2022 Input by: Christine Shivy

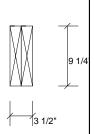
Job Name: Nicholson

Project #:

Kerto-S LVL Sliding Door 1.750" X 9.250" 2-Ply - PASSED

Level: Level





Page 1 of 1

iviember inform	lation
Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Mambar Information

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Rea	ctions UNP	ATTERNED	lb (Uplift)		
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	132	1386	820	0	0
2	Vertical	132	1386	820	0	0

Analysis Results Analysis Actual Comb. Case Location Allowed Capacity Moment 3143 ft-lb 3'3 1/2" 14423 ft-lb 0.218 (22%) D+S L Unbraced 3143 ft-lb 3'3 1/2" 10451 ft-lb 0.301 (30%) D+S L 1500 lb 1' 3/4" 7943 lb 0.189 (19%) D+S Shear ī LL Defl inch 0.021 (L/3461) 3'3 1/2" 0.153 (L/480) 0.139 (14%) S 3'3 1/2" 0.204 (L/360) 0.280 (28%) D+S TL Defl inch 0.057 (L/1286)

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 1386 / 820 2206 L D+S End Grain D+S 2 - SPF 3.500" Vert 21% 1386 / 820 2206 L End Grain

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Wall Load
2	Uniform			Тор	249 PLF	0 PLF	249 PLF	0 PLF	0 PLF	A1
3	Uniform			Тор	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	1'-0" Floor Load
	Self Weight				7 PI F					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled

 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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This design is valid until 11/3/2024 CSD I