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EFORE CONSTRUCTION BEGINS

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GARAGE FRONT PORCH FRONT PORCH EXT REAR PORCH UNHEATED OPTIONAL

Lindsay

WIND

SQUARE FOOTAGE HEATED FIRST FLOOR TOTAL UNHEATED

9/28/2020 200505B

PAGE 1 OF 6

MEAN ROOF HEIGHT: 18'-4" HEIGHT TO RIDGE: 24'-8" CLIMATE ZONE ZONE 3A ZONE 4A ZONE 5A FENESTRATION U-FACTOR CEILING R-VALUE | Wall R-Value * BASEMENT WALL R-VALUE * CRAWL SPACE WALL R-VALUE

* "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 WAL

DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B"										
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 WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B"										
DESIGNED FOR WIN	D SPEED	OF 130 MF	H, 3 SECO	OND GUST	(101 FAS	TEST MILE) EXPOSU	IRE "B"		
DESIGNED FOR WIN										
	& CLA					FOLLO'	WING			
COMPONENT	& CLA	DDING	DESIG	NED FO	OR THE 35'-1"	FOLLO' TO 40'	WING	LOADS TO 45'		
COMPONENT MEAN ROOF	& CLA UP T	DDING O 30'	DESIG 30'-1"	NED FC TO 35'	OR THE 35'-1" 18.2	FOLLO' TO 40' -19.6	WING 40'-1" 18.7	OADS TO 45' -20.2		
COMPONENT MEAN ROOF ZONE 1	& CLA UP T 16.7	DDING O 30' -18.0	DESIG 30'-1" 17.5	NED FC TO 35' -18.9	OR THE 35'-1" 18.2 18.2	FOLLO TO 40' -19.6	WING 40'-1" 18.7	OADS TO 45' -20.2 -23.5		
COMPONENT MEAN ROOF ZONE 1 ZONE 2	& CLA UP T 16.7 16.7	DDING O 30' -18.0 -21.0	DESIG 30'-1" 17.5 17.5	NED FC TO 35' -18.9 -22.1	OR THE 35'-1" 18.2 18.2 18.2	FOLLO TO 40' -19.6 -22.9	WING 40'-1" 18.7 18.7	OADS TO 45' -20.2 -23.5		

ROOF VENTILATION

uilder\Weaver Development Company, Inc\200825B Lindsay 1616\200825B Lindsay 1553 Left.aec

R806.1 Ventilation required. Enclosed *attics* and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.

R806.2 Minimum area. The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.

Exceptions: 1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only. 2. Enclosed attic/rafter spaces over unconditioned space may be vented with

continuous soffit vent only. SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,192 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 14.61 SQ.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 7.31 SQ.FT.

AIR LEAKAGE

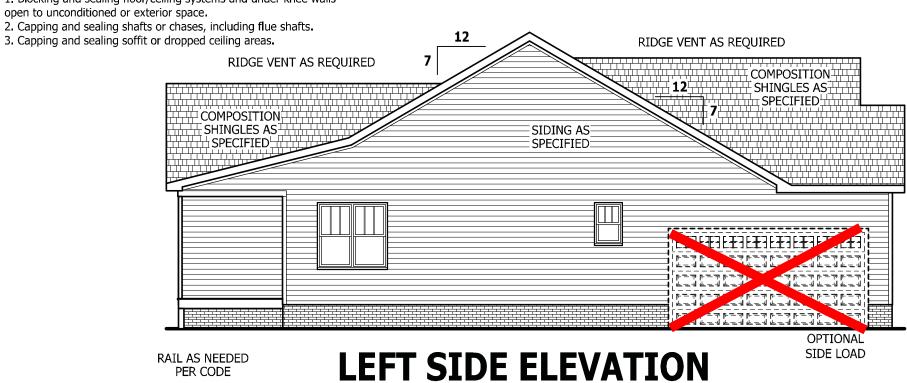
Section N1102.4

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.

PER CODE

2. Capping and sealing shafts or chases, including flue shafts.



SCALE 1/8" = 1'-0"



SQUARE FOOTAGE HEATED

UNHEATED

FIRST FLOOR

419 SQ.FT. 103 SQ.FT. GARAGE FRONT PORCH FRONT PORCH EXT 66 SQ FT. 117 SQ.FT. 705 SQ.FT. REAR PORCH

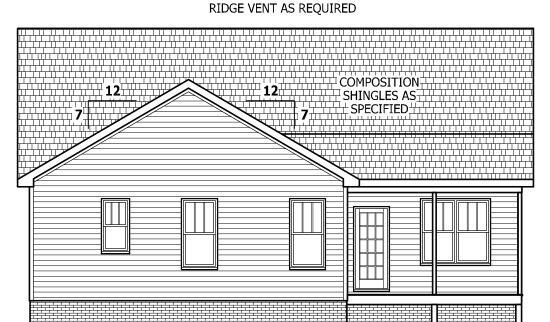
UNHEATED OPTIONAL

292 SQ.FT. 292 SQ.FT. THIRD GARAGE



FRONT ELEVATION - B

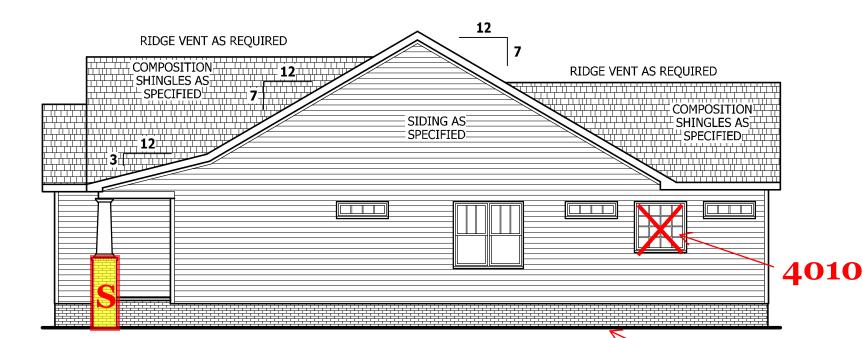
SCALE 1/4" = 1'-0"



FRONT - B WITH SIDE LOAD

SCALE 1/8" = 1'-0"

REAR ELEVATION SCALE 1/8" = 1'-0"



RAIL AS NEEDED PER CODE

RIGHT SIDE ELEVATION

SCALE 1/8" = 1'-0"

PARGE

RAIL AS NEEDED

RAIL AS NEEDED

Exceptions:

Exceptions:

the leading edges of the treads.

inches (102 mm)in diameter.

GUARD RAIL NOTES

screening shall not be considered as a *guard*.

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

R312.2 Height. Required *guards* at open-sided walking surfaces, including

stairs, porches, balconies or landings, shall be not less than 36 inches (914

mm) high measured vertically above the adjacent walking surface, adjacent

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

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

1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a *quard*, shall not allow passage of a sphere 6 inches (153

2. Guards on the open sides of stairs shall not have openings which allow

passage of a sphere 43/8 inches (111 mm) in diameter.

fixed seating or the line connecting the leading edges of the treads.

1'-8 1/2"

21'-8"

1'-8 1/2"

- 41'-4"

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

CODES AND CONDITIONS MAY ARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR IGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWING ARE

NSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER

PLAN SLAB

L Lindsay ONOLITHIC Σ

SQUARE FOOTAGE HEATED FIRST FLOOR TOTAL UNHEATED GARAGE FRONT PORCH FRONT PORCH EXT REAR PORCH UNHEATED OPTIONAL

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PAGE 2 OF 6

/ 2'-0"

ATTIC ACCESS

are not required to have access.

exposed sides of all stairways.

protrude into the net clear opening.

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

in attics Exceptions:

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

1. Concealed areas not located over the main structure including

2. Pull down stair treads, stringers, handrails, and hardware may

WALLS. A minimum 1/2" gypsum board must be installed on all walls supporting

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

DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or

OTHER PENETRATIONS. Penetrations through the separation required in Section

1553 SQ.FT. 1553 SQ.FT.

419 SQ.FT. 103 SQ.FT. 66 SQ.FT.

117 SQ.FT. 705 SQ.FT.

292 SQ.FT. 292 SQ.FT.

SCALE 1/4" = 1'-0"

R302.6 shall be protected as required by Section R302.11, Item 4.

SQUARE FOOTAGE

UNHEATED OPTIONAL

HEATED FIRST FLOOR TOTAL

UNHEATED

FRONT PORCH EXT

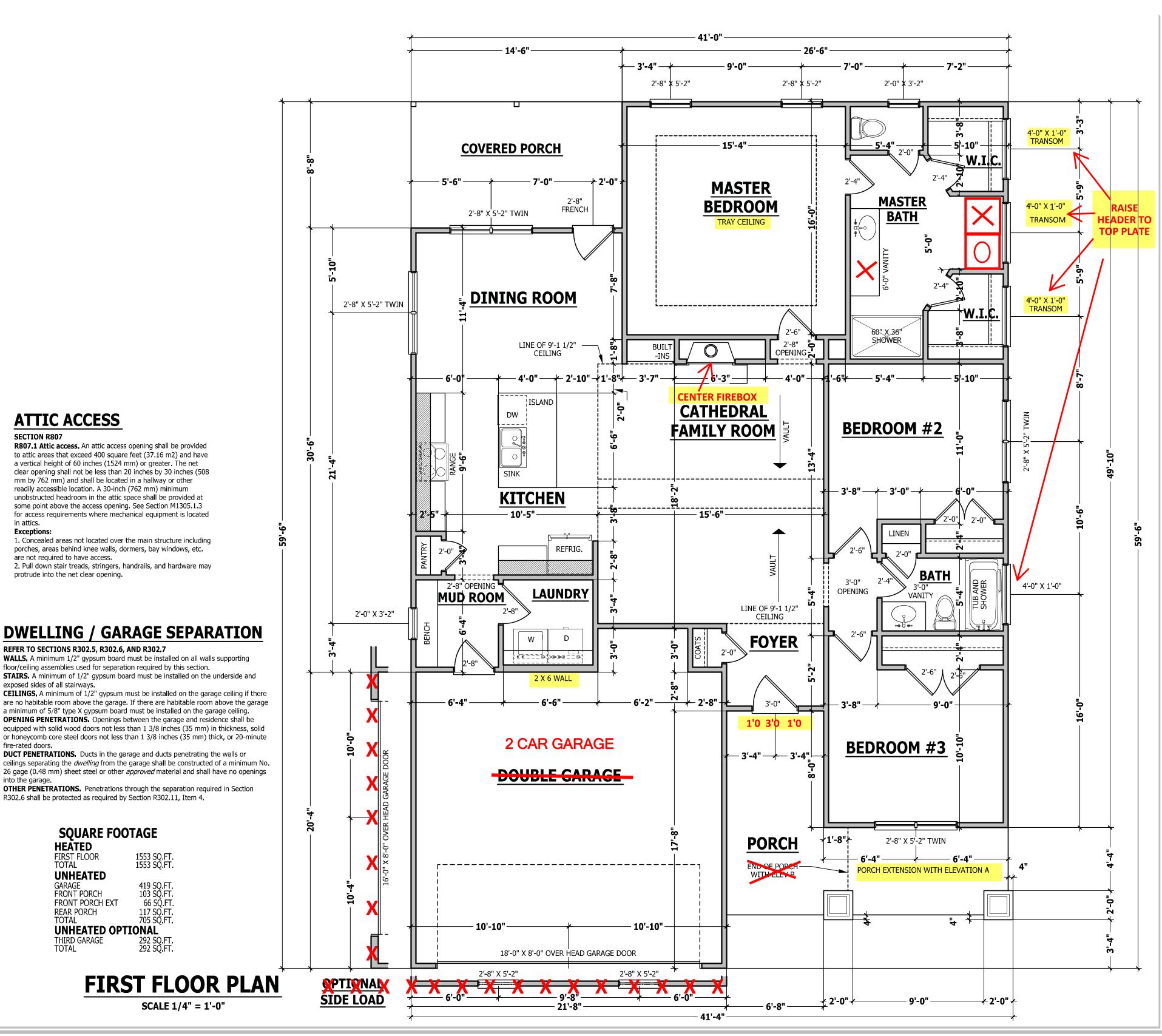
GARAGE FRONT PORCH

REAR PORCH

THIRD GARAGE TOTAL

floor/ceiling assemblies used for separation required by this section.

porches, areas behind knee walls, dormers, bay windows, etc.



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PROPERTY OF THE DESIGNER.

PLAN D D FLOOR Lindsay **FIRST**

SQUARE FOOTAGE HEATED FIRST FLOOR TOTAL UNHEATED

GARAGE FRONT PORCH FRONT PORCH EXT REAR PORCH UNHEATED OPTIONAL

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PAGE 3 OF 6

STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code.

JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed, anchored, and braced in accordance with good construction practice and the building code.

-			
DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10	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	10	L/360
Cnow	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

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

EXTERIOR HEADERS

- (2) 2 X 6 WITH 1 JACK STUD EACH END **UNLESS NOTED OTHERWISE**
- KING STUDS EACH END PER TABLE BELOW HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16' KING STUD(S) 1 2 3 5 6

INTERIOR HEADERS

- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END **UNLESS NOTED OTHERWISE**
- NON LOAD BEARING HEADERS TO BE **LADDER FRAMED**

BRACE WALL PANEL NOTES

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

GYPSUM: All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.

REQUIRED LENGTH OF BRACING: Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length.

HD: 800 lbs hold down hold down device fastened to the edge of the brace wall panel closets to the corner.

Methods Per Table R602.10.1

CS-WSP: Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or 8d(2 1/2" long x 0.113" diameter). **CS-SFB:** Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports with 1 1/2" long x 0.12" diameter galvanized roofing

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

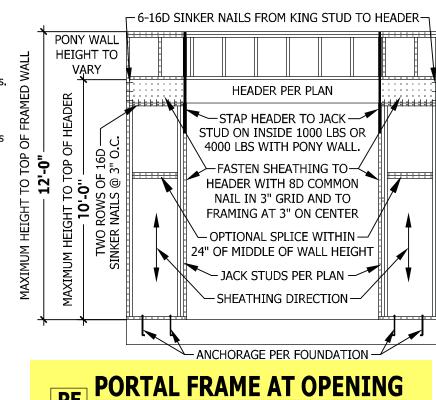
PF: Portal fame per figure R602.10.1

CONCRETE AND SOILS: See foundation notes. **ROOF TRUSS**

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

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

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



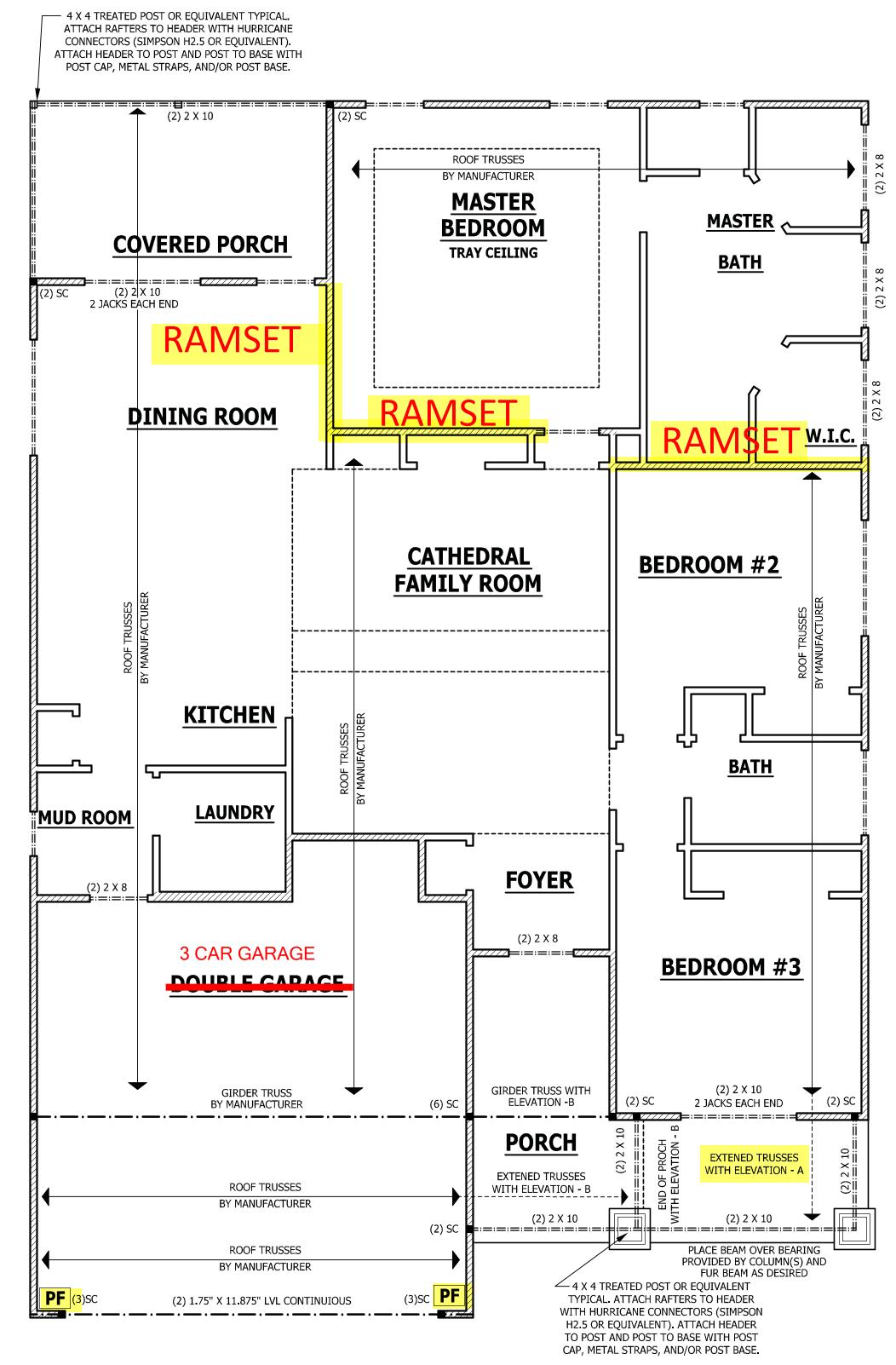
F PER FIGURE AND SECTION R602.10.1)

SCALE 1/4" = 1'-0"

FULL FRONT PORCH

FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"



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STRUCTURAL L L Lindsay FLOOR **FIRST**

SOUARE FOOTAGE

HEATED FIRST FLOOR TOTAL UNHEATED

GARAGE FRONT PORCH FRONT PORCH EXT REAR PORCH UNHEATED OPTIONAL

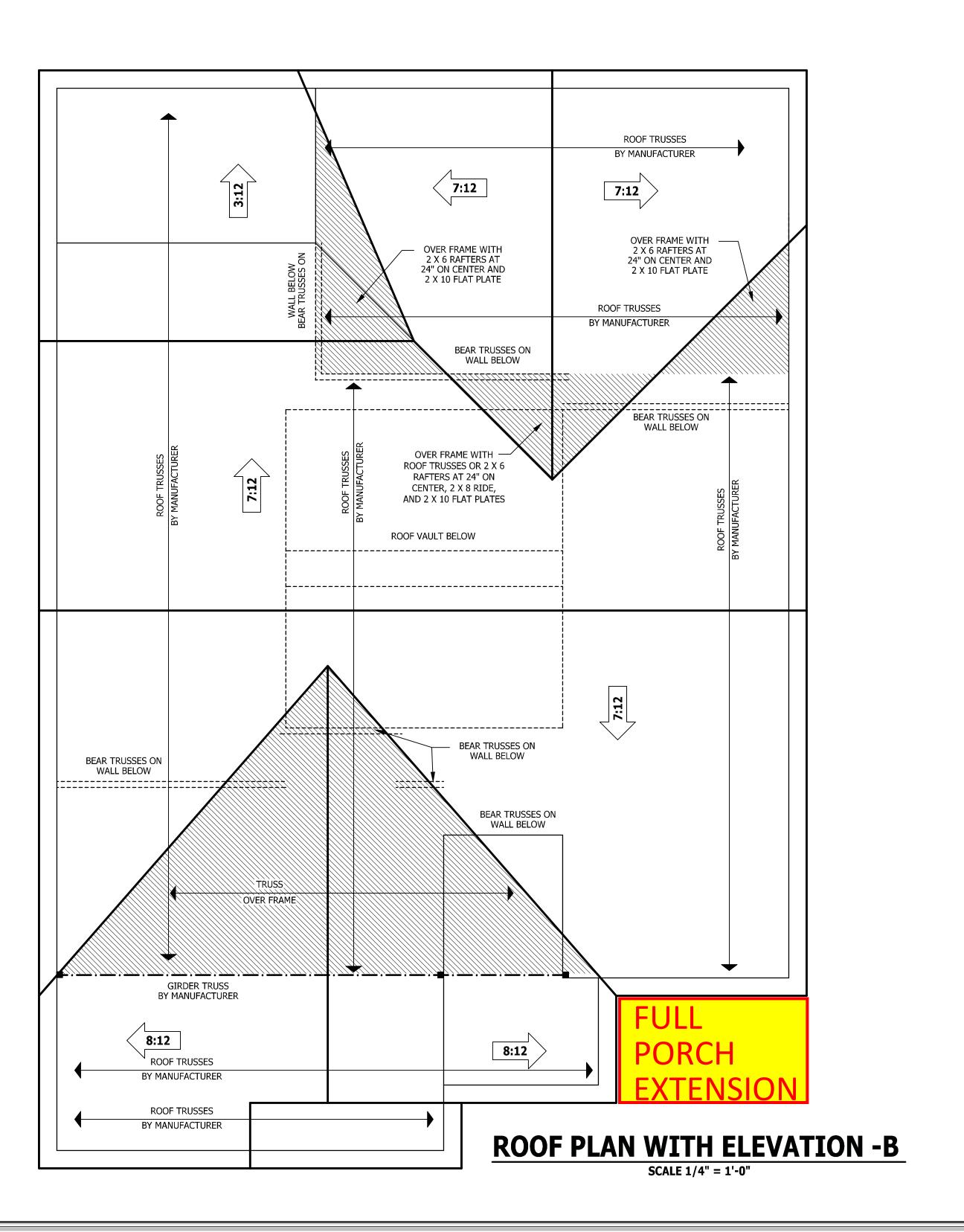
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PAGE 4 OF 6

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.



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

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ELEVATION D

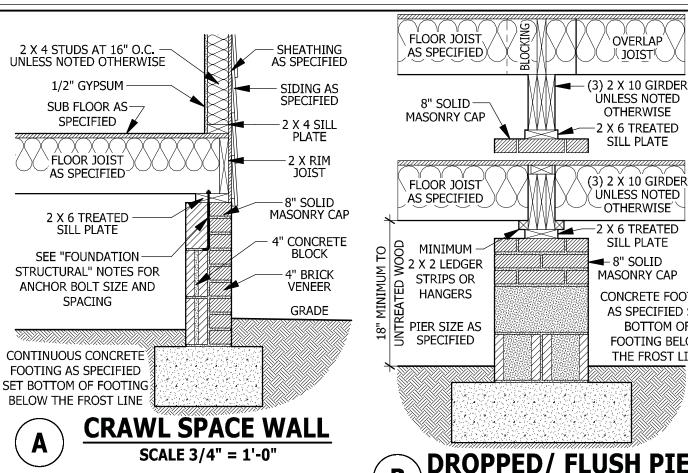
D Lindsay **PLAN WITH** ROOF

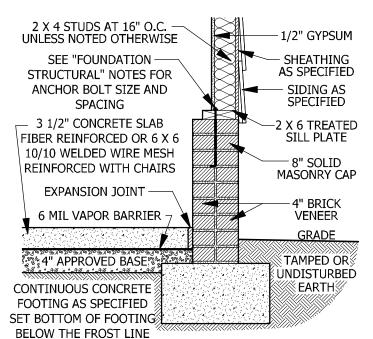
SQUARE FOOTAGE
HEATED
FIRST FLOOR 1553 SQ.F
TOTAL 1553 SQ.F
UNHEATED
GARAGE 419 SQ.F
FRONT PORCH 103 SQ.F
FRONT PORCH EXT 66 SQ.F
REAR PORCH 117 SQ.F
TOTAL 117 SQ.F GARAGE 419 SQ.FT.
FRONT PORCH 103 SQ.FT.
FRONT PORCH EXT 66 SQ.FT.
TOTAL 705 SQ.FT.
UNHEATED OPTIONAL
THIRD GARAGE 292 SQ.FT.
TOTAL 292 SQ.FT.

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PAGE 5 OF 6







SCALE 3/4" = 1'-0"

GARAGE STEM WALL

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

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

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

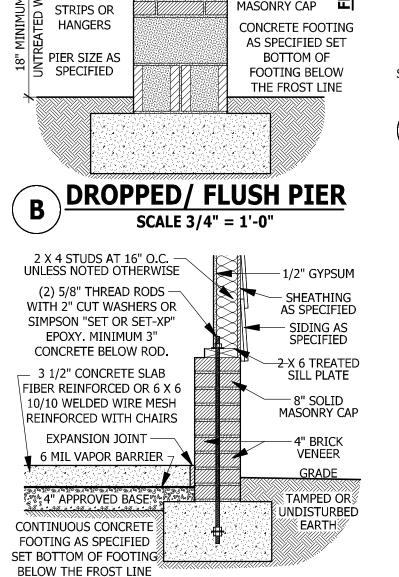
AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall be bolted to the post and the girder/double band with one 5/8 inch hot dipped galvanized bolt with nut and washer at both ends of the brace per Figure AM109.1

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

and the following:										
POST SIZE	MAX TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER						
4 X 4	48 SF	4'-0"	2'-6"	1'-0"						
6 X 6	120 SF	6'-0"	3'-6"	1'-8"						

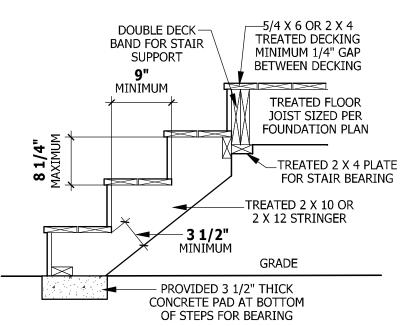
AM109.1.4. 2 x 6 diagonal vertical cross bracing may be provided in two perpendicular directions for freestanding decks or parallel to the structure at the exterior column line for attached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot dipped galvanized bolt with nut and washer at each end of each bracing member per Figure AM109.3.

AM109.1.5. For embedment of piles in Coastal Regions, see Chapter 45.



<48" GARAGE WING WALL

SCALE 3/4" = 1'-0"



E

SHEATHING AS SPECIFIED

AS SPECIFIED

LATH-

SEE FOUNDATION

FOR FOUNDATION

DETAILS

WEEP SCREED

SCALE 3/4" = 1'-0"

FIGURE AM110 TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

-WEEP SCREED

MINIMUM 4" TO

GROUND OR 2"

←TO PAVEMENT

GRADE

WEEP SCREEDS

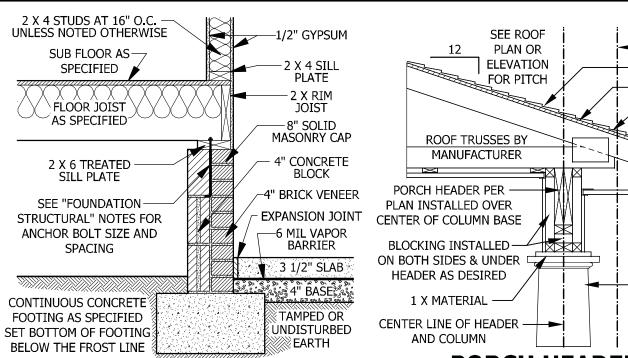
installed per manufactures instructions and per the 2012 North Carolina Residential Building code. **R703.6.2.1 -** A minimum 0.019-inch (0.5

All weep screeds and stone veneer to be

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

attachment flange of the weep screed.

shall cover and terminate on the



GRADE

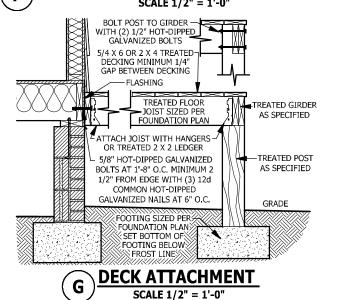
SCALE 3/4" = 1'-0" - 2 X 4 STUDS AT 16" O.C. JNLESS NOTED OTHERWIS 2 X TREATED-- 2 X 4 SOLE PLATE HOUSE BAND SUB FLOOR AS FLASHING MINIMUM 16" WIDE - COBBLED BRICK SPECIFIED FOR SLAB SUPPORT 3 1/2" CONCRETE SLAB FLOOR JOIST AS SPECIFIED 2 X 6 TREATED SILL PLATE 8 X 16 VEN7 8" CONCRETE BLOCK

CRAWL SPACE AT GARGE

FILLED PORCH SECTION WITH VENT

CONTINUOUS CONCRETE

SET BOTTOM OF FOOTING



SMOKE ALARMS

TAMPED OR

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

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

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

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

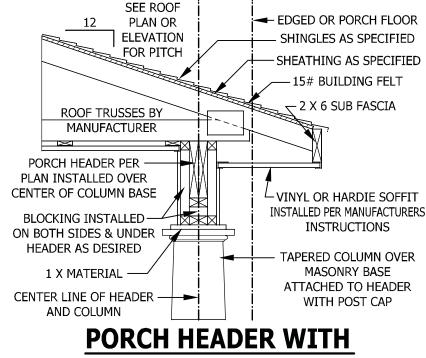
1. In each sleeping room.

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

3. On each additional *story* of the *dwelling*, including *basements* and habitable attics (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) attic-stories. In *dwellings* or *dwelling units* with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within 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 lap the attachment flange. The exterior lath 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"

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 closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

STAIRWAY NOTES

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

R311.7.4 Stair treads and risers. Stair treads and risers shall meet the requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners. R311.7.4.1 Riser height. The maximum riser height shall be 8 1/4 inches (210 mm). The riser shall be measured vertically between leading edges of the adjacent treads.

R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread depth of 9 inches (229 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 4 inches (102 mm) at any point.

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

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).

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

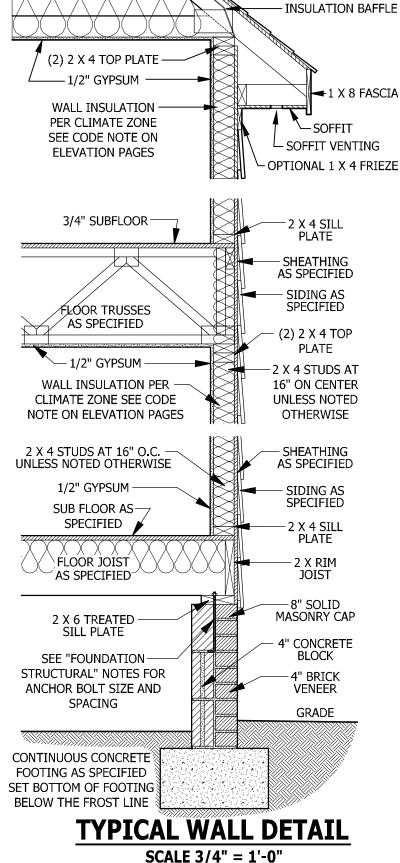
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

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



PITCH PER ROOF PLAN

OR ELEVATIONS

ROOF INSULATION

PER CLIMATE ZONE

SEE CODE NOTE ON

ELEVATION PAGES

- SHINGLES AS SPECIFIED

—15# BUILDING FELT

-SHEATHING AS SPECIFIED

TYPICAL STAIR DETAIL

CONTINUOUS HANDRAIL

34 TO 38 INCHES

ABOVE TREAD NOSING

Maximum 6" gap

BETWEEN WALL

MOUNTED AND

OPEN RAIL

SQUARE FOOTAGE HEĂTED UNHEATED Garage Front Porch RONT PORCH EXT REAR PORCH JNHEATED OPTIONAL

PURCHASER MUST VERIFY ALL

EFORE CONSTRUCTION BEGINS

HAYNES HOME PLANS, INC.

ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

CODES AND CONDITIONS MAY

ARY WITH LOCATION, A LOCAL

DESIGNER, ARCHITECT OR

BEFORE CONSTRUCTION.

THESE DRAWING ARE

NSTRUMENTS OF SERVICE AND

AS SUCH SHALL REMAIN

PROPERTY OF THE DESIGNER.

Lindsay

DETAIL

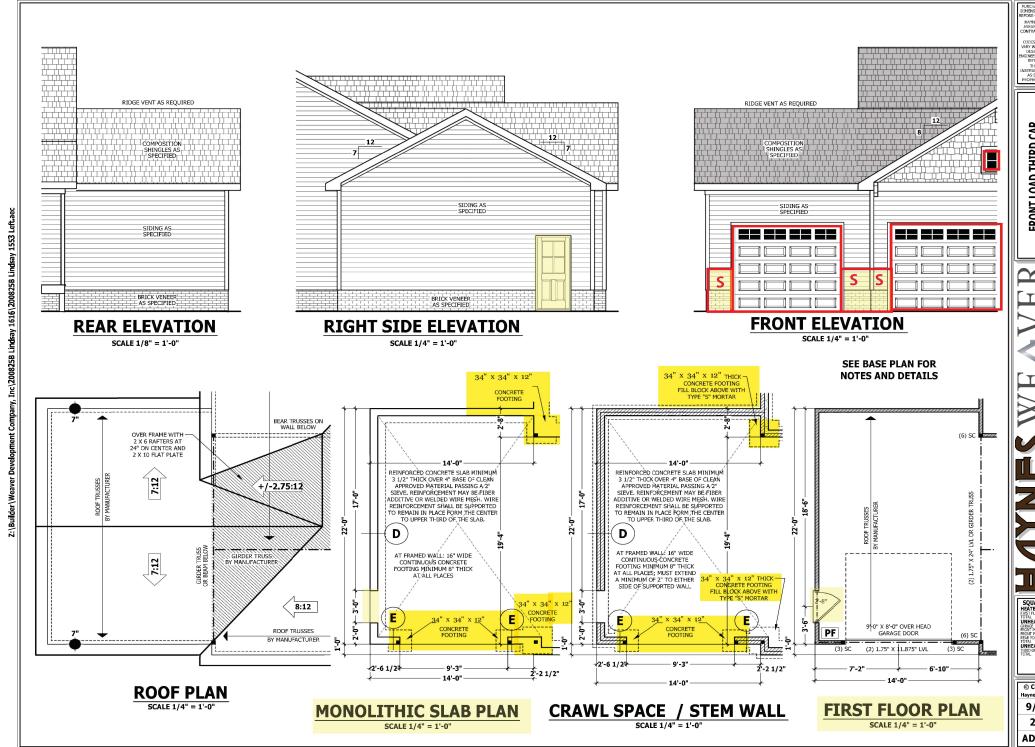
TYPICAL

IGINEER SHÓULD BE CONSULTEI

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9/28/2020 200505B

PAGE 6 OF 6



EFORE CONSTRUCTION BEGINS
HAVINES HOME PLANS, INC.
ASSIMIES NO LIABILITY FOR
CONTRACTORS PRACTICES AND
CODES AND CONDITIONS MAY
VARY WITH LOCATION. A LOCAL
DESIGNER, ANOLITECT OR
MOINERS HOULD BE CONSULTED
BEFORE CONSTRUCTION
INSTRUMENTS OF SERVICE AND
INSTRUMENTS OF SERVICE AND
PROPERTY OF THE DESIGNER.

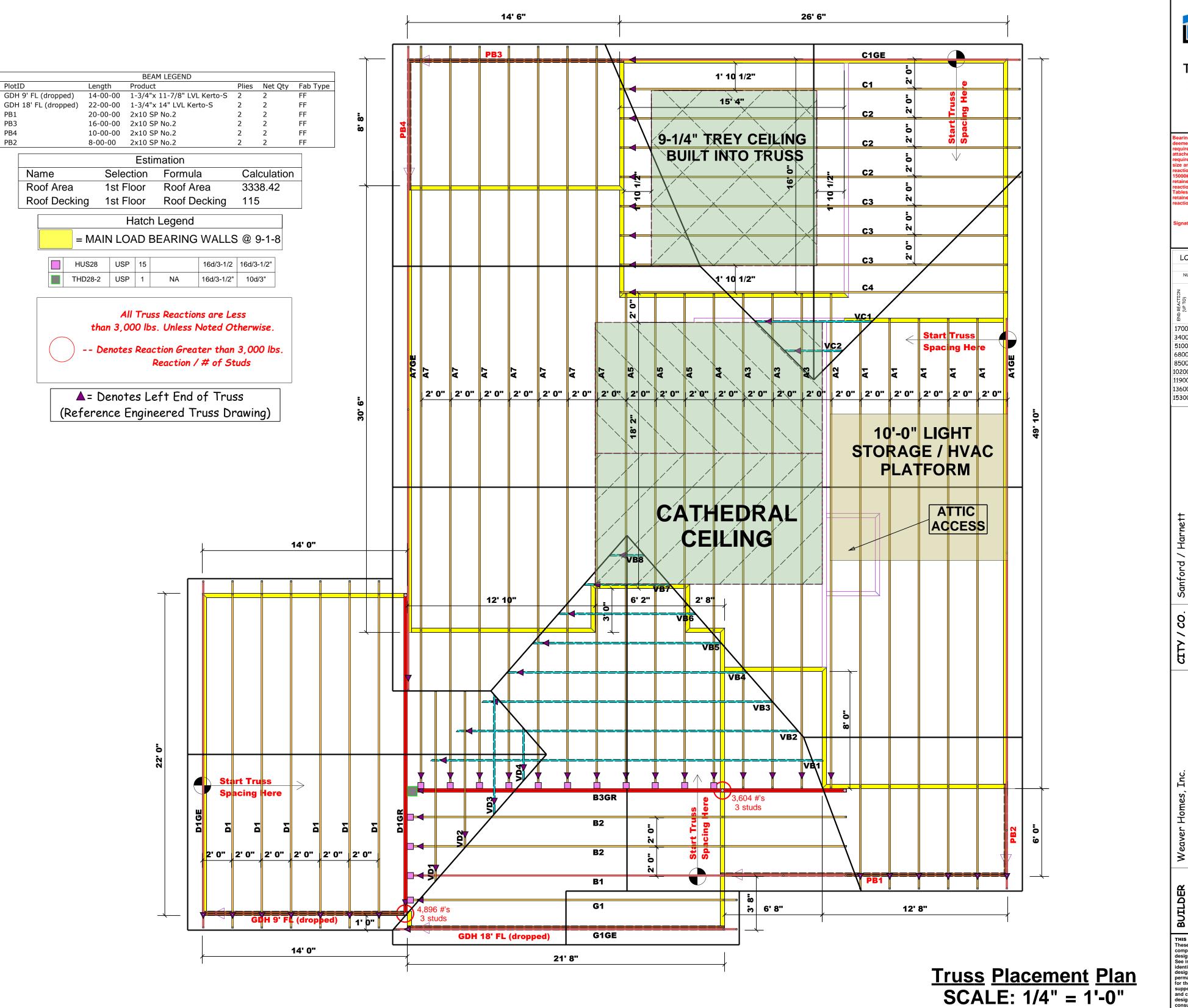
FRONT LOAD THIRD CAR

155 Lindsay

SQUARE FOOTAGE HEATED FIRST FLOOR 1953 SQ UNHEATED UNHEATED OPTIONAL
THERD GARAGE 292 SQLFT.
TOTAL
292 SQLFT.

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ADDENDUM



COMTECH **ROOF & FLOOR**

TRUSSES & BEAMS

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

eactions less than or equal to 3000# are o comply with the prescriptive Code

Lenny Norris

Lenny Norris

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER											
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS 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	6		15300	6							
11900	7										
13600	8										
15300	9										

CITY / CO. Sanford / Harnett	ADDRESS 143 Oleander Ln.	MODEL ROOF	DATE REV. //	DRAWN BY Lenny Norris	SALES REP. Lenny Norris
	Ve	13C6			

JOB NAME QUOTE# THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. 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 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 @ sbcindustry.com

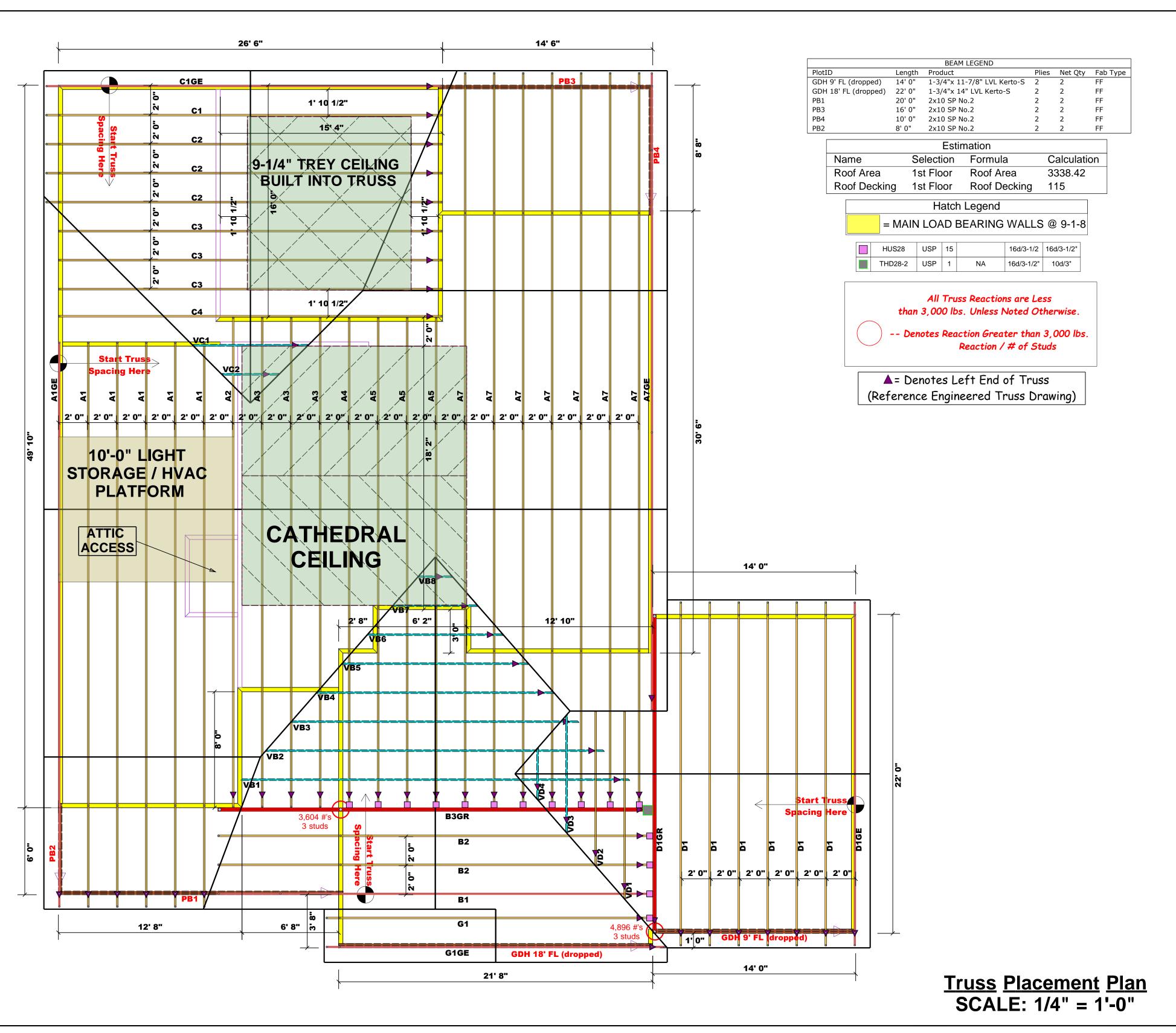
SEAL DATE

Lot 31 West Preserv

Lindsay 1553 B/*FP/

J0124-0298

Quote#



COMTECH

ROOF & FLOOR TRUSSES & BEAMS

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

Lenny Norris

Lenny Norris

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

(BASED ON TABLES ASOL.S(1) & (b))												
NUM	NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER											
(UP TO)	REQ'D STUDS FOR (2) PLY HEADER			END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR				
00	1			2550	1		3400	1				
00	2			5100	2		6800	2				
00	3			7650	3		10200	3				
00	4			10200	4		13600	4				
00	5			12750	5		17000	5				
200	6			15300	6							
00	7											
00	8											
300	9											

CITY / CO.	CITY / CO. Sanford / Harnett
ADDRESS	143 Oleander Ln.
MODEL	ROOF
DATE REV.	//
DRAWN BY	DRAWN BY Lenny Norris
SALES REP.	Lenny Norris

JOB NAME QUOTE# BUILDER THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
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Lindsay 1553 B/*FP/3*CG*

Quote#

Weaver Homes, Inc.



Client: WEAVER

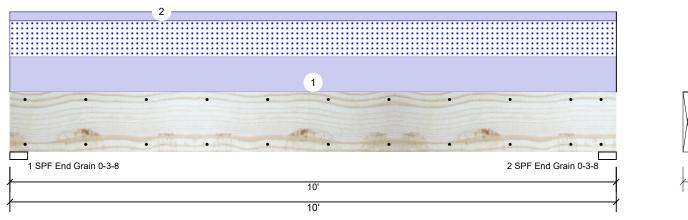
Project: Address: Date: 2/14/2024

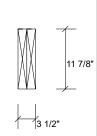
Input by: Lenny Norris Job Name: LINDSAY B 3-CAR

Project #:

Kerto-S LVL GDH9' 3-car 1.750" X 11.875" 2-Ply - PASSED

Level: Level





Page 1 of 1

Member Information

Type:	Giraer
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal
Temperature:	Temp <

Application: Floor Design Method: ASD

> **Building Code: IBC/IRC 2015**

Load Sharing: No Deck:

Not Checked

Reactions UNPATTERNED Ib (Uplift)

I	Brg	Direction	Live	Dead	Snow	Wind	Const
١	1	Vertical	0	1511	1165	0	0
	2	Vertical	0	1511	1165	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6091 ft-lb	5'	22897 ft-lb	0.266 (27%)	D+S	L
Unbraced	6091 ft-lb	5'	9721 ft-lb	0.627 (63%)	D+S	L
Shear	2000 lb	1'3 3/8"	10197 lb	0.196 (20%)	D+S	L
LL Defl inch	0.052 (L/2209)	5'	0.239 (L/480)	0.217 (22%)	S	L
TL Defl inch	0.119 (L/962)	5'	0.318 (L/360)	0.374 (37%)	D+S	L

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	26%	1511 / 1165	2676	L	D+S
2 - SPF End Grain	3.500"	Vert	26%	1511 / 1165	2676	L	D+S

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.

- 11

Temp <= 100°F

- 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	233 PLF	0 PLF	233 PLF	0 PLF	0 PLF	D1 TRUSS
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	FRAME DOWN WALL
	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
- 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

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

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



This design is valid until 6/28/2026 CSD DESIGN

Manufacturer Info

isDesign

Client: WEAVER

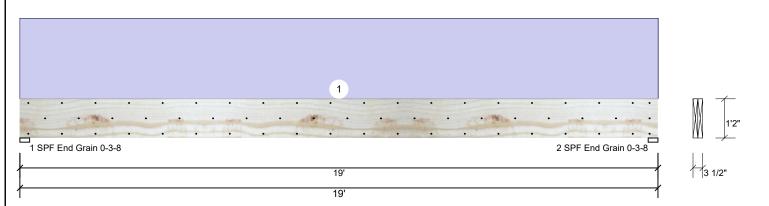
Project: Address: Date: 2/14/2024

Input by: Lenny Norris Job Name: LINDSAY B 3-CAR Page 1 of 1

Project #:

1.750" X 14.000" 2-Ply - PASSED Kerto-S LVL **GDH18'**

Level: Level



Member In	formation						Reac	tion	is UNP	ATTERI	NED I	b (Uplift)			
Type:	Girder		Applicat	ion: F	loor		Brg	Dire	ection	Live	-	Dead	Snow	Wind	Const
Plies:	2		Design I	Method: A	SD		1	Vert	ical	()	2003	0	0	0
Moisture Con	dition: Dry		Building	Code: If	3C/IRC 2015		2	Vert	ical	()	2003	0	0	0
Deflection LL:	480		Load Sh	aring: N	lo										
Deflection TL	360		Deck:	N	lot Checked										
Importance:	Normal -	II													
Temperature:	Temp <=	100°F													
							Bear	ings	5						
							Bea	ring	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - 8	SPF	3.500"	Vert	19%	2003 / 0	2003	Uniform	D
							End								
Analysis Re	sults						Grai								
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - 5		3.500"	Vert	19%	2003 / 0	2003	Uniform	D
Moment	9063 ft-lb	9'6"	24299 ft-lb	0.373 (37%) D	Uniform	End Grai								
Unbraced	9063 ft-lb	9'6"	9077 ft-lb	0.998 (100%)	D	Uniform									
Shear	1709 lb	1'5 1/2"	9408 lb	0.182 (18%) D	Uniform									

Uniform

Design Notes

LL Defl inch 0.000 (L/999)

TL Defl inch 0.372 (L/599)

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.

0 999.000 (L/0) 0.000 (0%)

9'6 1/16" 0.618 (L/360) 0.601 (60%) D

- 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 a maximum of 12'3 3/4" o.c.
- 7 Bottom must be laterally braced at end bearings.

Self Weight

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	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	FRAME DOWN WALL & GABLE	

11 PLF

Notes

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Manufacturer Info

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