PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

| MEAN ROOF HEIGHT: 18'-4 | 1" | HEIGHT TO RIDGE: 24'-8" | | | |
|--------------------------|------------|-------------------------|------------|--|--|
| 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 | | |
| ** CLAD D MALLIE | 0 | 10 | 10 | | |

* "10/13" MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION

* CRAWL SPACE WALL R-VALUE

** INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING; INSULATION DEPTH WITH STEM WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL

| DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B" | | | | | | | | | | | | |
|--|--|----------------------------------|---|---|--|--|---|------------------------------------|--|--|--|--|
| COMPONENT | & 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" | | | | | | | | | |
| | | OF 130 MF | | | | | | | | | | |
| | D SPEED | | PH, 3 SECO | OND GUST | (101 FAS | TEST MILE | E) EXPOSU | RE "B" | | | | |
| DESIGNED FOR WIN | D SPEED & CLA | | H, 3 SECO DESIG | OND GUST | (101 FAS OR THE | TEST MILE FOLLO | E) EXPOSU WING I | RE "B" | | | | |
| DESIGNED FOR WIN | D SPEED & CLA | DDING | PH, 3 SECO DESIG 30'-1" | OND GUST NED FO TO 35' | (101 FAS OR THE 35'-1" | TEST MILE FOLLO TO 40' | E) EXPOSU WING 1 40'-1" | RE "B" _OADS | | | | |
| DESIGNED FOR WIN COMPONENT MEAN ROOF | D SPEED & CLA UP T | DDING O 30' | PH, 3 SECO DESIG 30'-1" 17.5 | OND GUST NED FO TO 35' | (101 FAS OR THE 35'-1" 18.2 | TEST MILE FOLLO TO 40' -19.6 -22.9 | E) EXPOSU WING I 40'-1" 18.7 18.7 | RE "B" OADS TO 45' -20.2 -23.5 | | | | |
| DESIGNED FOR WIN COMPONENT MEAN ROOF ZONE 1 | D SPEED & CLA UP T 16.7 | DDING O 30' -18.0 | PH, 3 SECO DESIG 30'-1" 17.5 | NED FC TO 35' -18.9 -22.1 -22.1 | (101 FAS DR THE 35'-1" 18.2 18.2 18.2 | TEST MILE FOLLO TO 40' -19.6 -22.9 | E) EXPOSU WING I 40'-1" 18.7 18.7 18.7 | RE "B" OADS TO 45' -20.2 -23.5 | | | | |
| DESIGNED FOR WIN COMPONENT MEAN ROOF ZONE 1 ZONE 2 | D SPEED & CLA UP T 16.7 16.7 | DDING O 30' -18.0 -21.0 | DESIG 30'-1" 17.5 17.5 | ND GUST NED FC TO 35' -18.9 -22.1 | (101 FAS DR THE 35'-1" 18.2 18.2 18.2 19.8 | TEST MILE FOLLO TO 40' -19.6 -22.9 | E) EXPOSU WING I 40'-1" 18.7 18.7 18.7 20.4 | RE "B" OADS TO 45' -20.2 -23.5 | | | | |

ROOF VENTILATION

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 doth 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

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

continuous soffit vent only.

Section N1102.4

N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit 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.

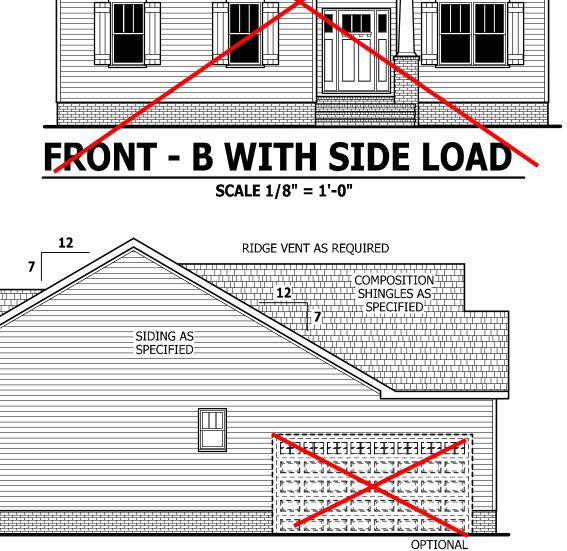
RIDGE VENT AS REQUIRED

COMPOSITION

SHINGLES AS

RAIL AS NEEDED

- 2. Capping and sealing shafts or chases, including flue shafts. 3. Capping and sealing soffit or dropped ceiling areas.



SIDE LOAD

SHAKE

SQUARE FOOTAGE

UNHEATED OPTIONAL

LEFT SIDE ELEVATION

SCALE 1/8" = 1'-0"

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.

HEATED

GARAGE

FIRST FLOOR TOTAL

UNHEATED

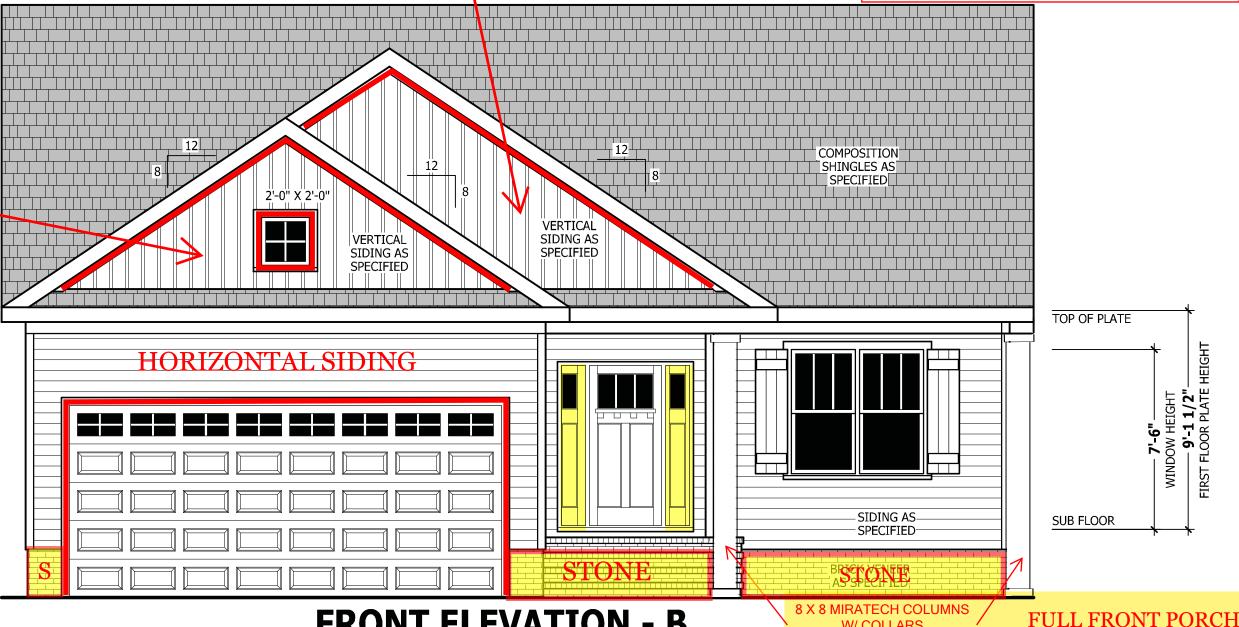
FRONT PORCH

REAR PORCH

THIRD GARAGE

FRONT PORCH EXT

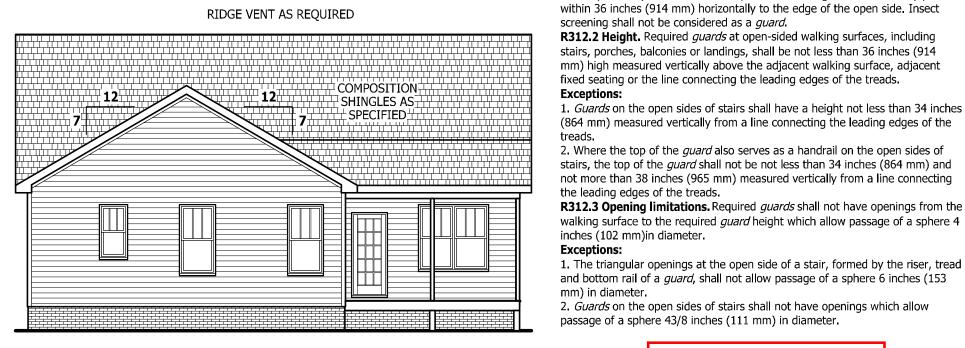
3 CAR GARAGE **SHAKE** RIDGE VENT AS REQUIRED



FRONT ELEVATION - B

SCALE 1/4" = 1'-0"

RIDGE VENT AS REQUIRED



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

RAIL AS NEEDED PER CODE



W/ COLLARS

NO STONE ON COLUMNS

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

50 Harnett

EXTENSION

RIDGE VENT AS REQUIRED COMPOSITION RIDGE VENT AS REQUIRED SHINGLES AST └SPECIFIED\ COMPOSITION SIDING AS SHINGLES AS∄ SPECIFIED= $^{\sqcup}$ SPECIFIED $_{\square}$

RAIL AS NEEDED PER CODE

RIGHT SIDE ELEVATION **SCALE 1/8" = 1'-0"**

PARGE

ELEVATION Lindsay

L

PURCHASER MUST VERIFY ALL

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WEST POINTE III - LOT 12

241 HILLWOOD DRIVE

SANFORD, NC 27332

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

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PAGE 1 OF 6

- **41'-4"**

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

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PLAN $\mathbf{\Omega}$ SLA Lindsay WALL STEM

SQUARE FOOTAGE HEATED FIRST FLOOR TOTAL UNHEATED

GARAGE FRONT PORCH FRONT PORCH EXT REAR PORCH UNHEATED OPTIONAL

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D D Lindsay

SQUARE FOOTAGE UNHEATED

GARAGE FRONT PORCH FRONT PORCH EXT REAR PORCH UNHEATED OPTIONAL

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200505B

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 |
| 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.

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'</td>
 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 pails

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.

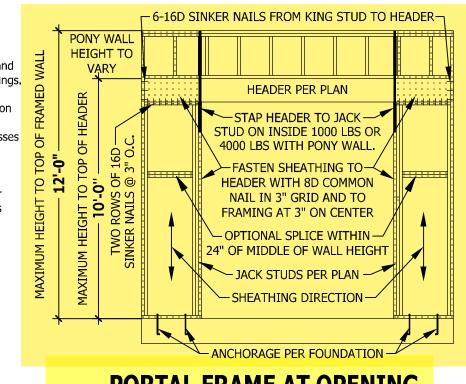
PF: Portal fame per figure R602.10.1

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.



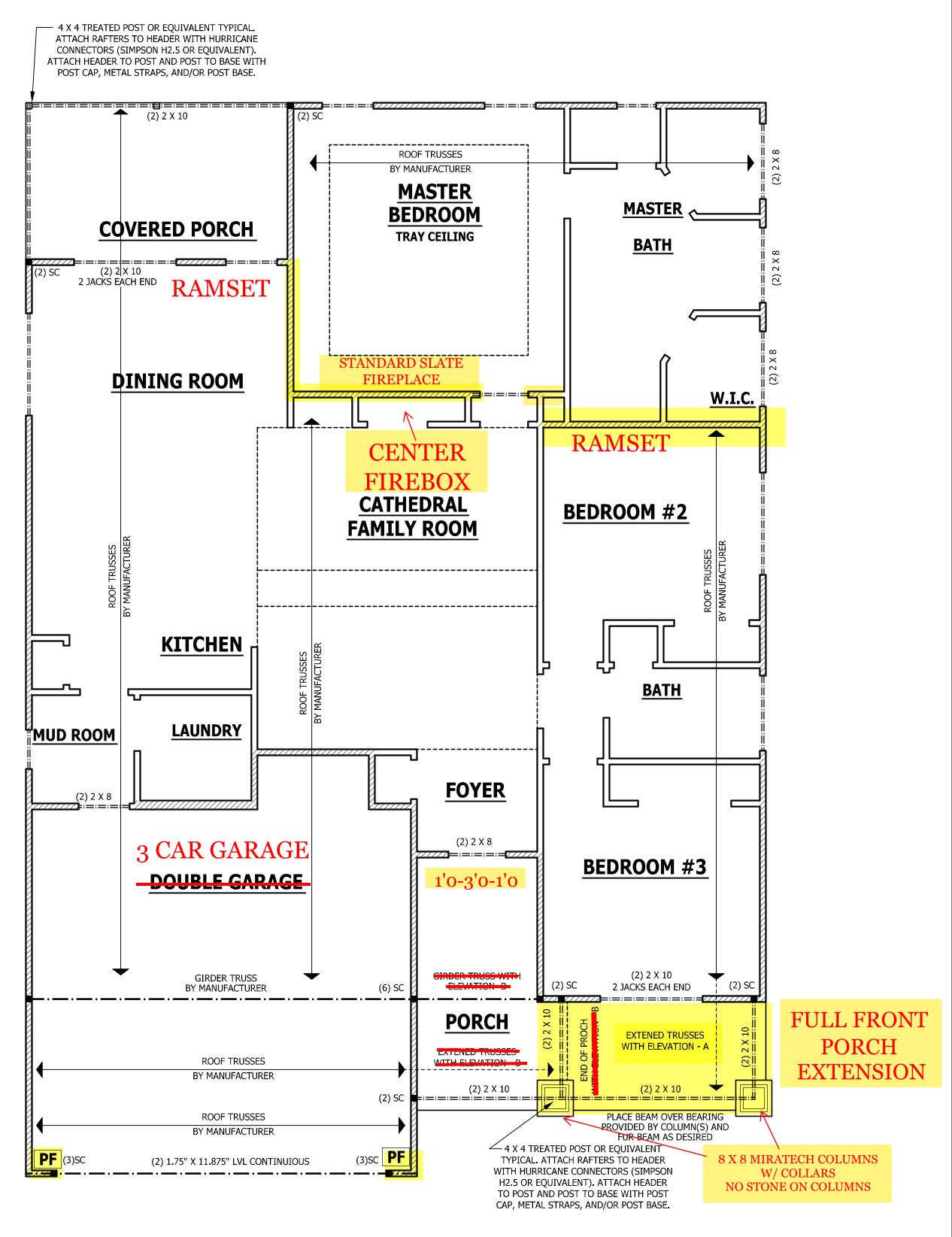
PF PORTAL FRAME AT OPENING

(METHOD PF PER FIGURE AND SECTION R602.10.1)

SCALE 1/4" = 1'-0"

FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"



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L

Lindsay

STRUCTURAL

FLOOR

FIRST

SQUARE FOOTAGE

UNHEATED OPTIONAL

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HEATED FIRST FLOOR TOTAL

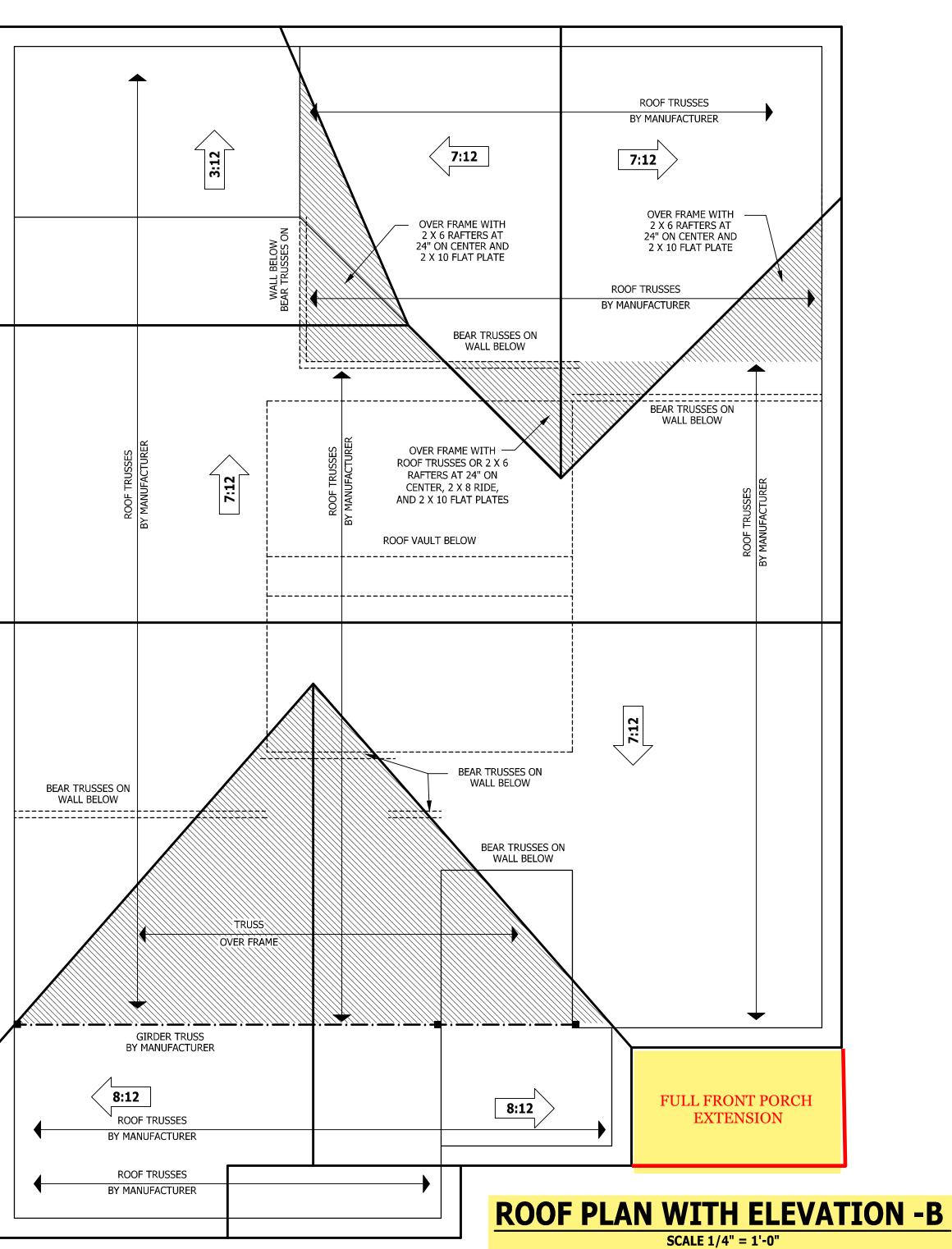
UNHEATED

GARAGE FRONT PORCH FRONT PORCH EXT REAR 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. **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.

3 CAR GARAGE



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Р

ELEVATION

D D Lindsay **PLAN WITH** ROOF

 SQUARE FOOTAGE

 HEATED
 1553 SQ.F

 FIRST FLOOR
 1553 SQ.F

 TOTAL
 1553 SQ.F

 UNHEATED
 419 SQ.F

 GARAGE
 419 SQ.F

 FRONT PORCH
 103 SQ.F

 FRONT PORCH EXT
 66 SQ.F

 REAR PORCH
 117 SQ.F

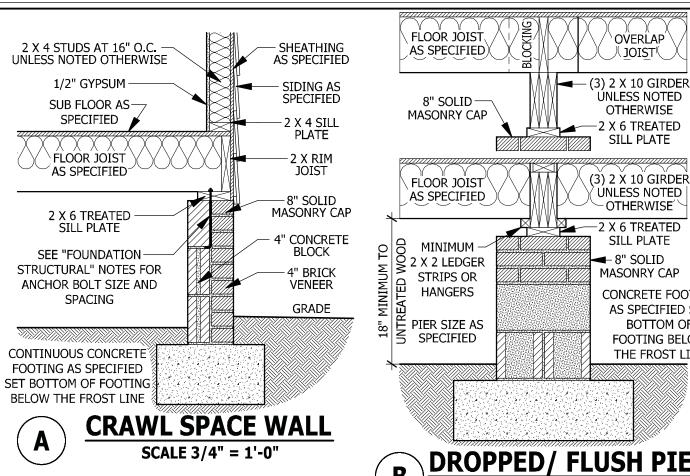
 TOTAL
 705 SQ.F

 LINHEATED ORTIONAL

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2 X 4 STUDS AT 16" O.C. 1/2" GYPSUM UNLESS NOTED OTHERWISE **SHEATHING** SEE "FOUNDATION AS SPECIFIED STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND SIDING AS **SPACING** 3 1/2" CONCRETE SLAB 2 X 6 TREATED FIBER REINFORCED OR 6 X 6 SILL PLATE 10/10 WELDED WIRE MESH 8" SOLID REINFORCED WITH CHAIRS MASONRY CAP EXPANSION JOINT 4" BRICK

VENEER

GRADE

يُّوْءُ 4" APPROVED BASE وَالْمُوْدُونِهُ وَالْمُوالِينَا لِمُوالِينَا لِمُؤْمِنُونِ الْمُؤْمِنِينَ TAMPED OR UNDISTURBED ∛EARTH∜ CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE **GARAGE STEM WALL** D

6 MIL VAPOR BARRIER

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

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.

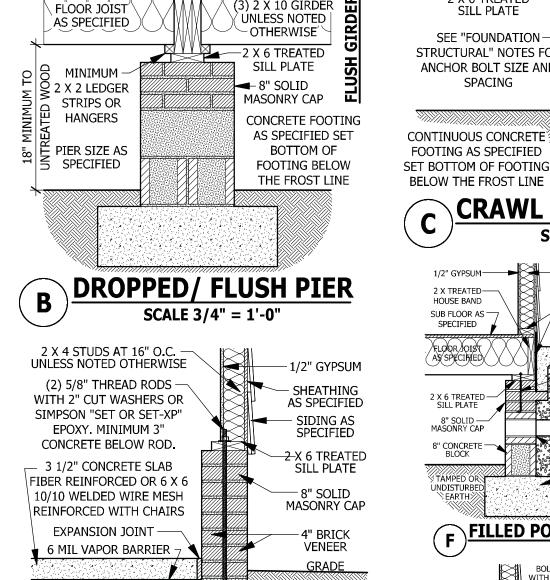
AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall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

| | ΜΔΥ | 00- | | | | | | | |
|--|-----------|--------|-----------|----------|--|--|--|--|--|
| POST | TRIBÚŤARY | | EMBEDMENT | | | | | | |
| SIZE | AREA | HEIGHT | DEPTH | 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.



2 X 4 STUDS AT 16" O.C.

UNLESS NOTED OTHERWISE

SUB FLOOR AS—

SPECIFIED

FLOOR JOIST

AS SPECIFIED

2 X 6 TREATED SILL PLATE

SEE "FOUNDATION

STRUCTURAL" NOTES FOR

ANCHOR BOLT SIZE AND

SPACING

CONTINUOUS CONCRETE

FOOTING AS SPECIFIED

BELOW THE FROST LINE

2 X TREATED-

HOUSE BAND

SUB FLOOR AS

SPECIFIED

FLOOR JOIST AS SPECIFIED

2 X 6 TREATED SILL PLATE

8" CONCRETE BLOCK

TAMPED OR

-1/2" GYPSUM

PLATE

-2 X RIM

JOIST

8" SOLID

MASONRY CAP

4" CONCRETE

-6 MIL VAPOR

BARRIER

3 1/2" SLAB

ั๊ร์ ั้ 4" BASEเร็ง

TAMPED OR

JNDISTURBED

- COBBLED BRICK

FOR SLAB SUPPORT

TREATED GIRDER

AS SPECIFIED

AS SPECIFIED

GRADE

8 X 16 VEN7

GRADE

SCALE 3/4" = 1'-0"

- 2 X 4 STUDS AT 16" O.C. JNLESS NOTED OTHERWIS

- 2 X 4 SOLE PLATE

FLASHING MINIMUM 16" WIDE

3 1/2" CONCRETE SLAB

CONTINUOUS CONCRETE

SET BOTTOM OF FOOTING

FILLED PORCH SECTION WITH VENT

NITH (2) 1/2" HOT-DIPPED

GALVANIZED BOLTS

5/4 X 6 OR 2 X 4 TREATED

DECKING MINIMUM 1/4" GAP BETWEEN DECKING

FLASHING

OR TREATED 2 X 2 LEDGER

5/8" HOT-DIPPED GALVANIZED

BOLTS AT 1'-8" O.C. MINIMUM 2

1/2" FROM EDGE WITH (3) 120

GALVANIZED NAILS AT 6" O.C

FOOTING SIZED PER

FOUNDATION PLAN

SET BOTTOM OF

FOOTING BELOW

SMOKE ALARMS

equipment provisions of NFPA 72.

DECK ATTACHMENT

SCALE 1/2" = 1'-0"

R314.1 Smoke detection and notification. All smoke alarms shall be

listed in accordance with UL 217 and installed in accordance with

R314.2 Smoke detection systems. Household fire alarm systems

a combination of smoke detector and audible notification device

installed as required by this section for smoke alarms, shall be

installed in accordance with NFPA 72 that include smoke alarms, or

permitted. The household fire alarm system shall provide the same

level of smoke detection and alarm as required by this section for

the provisions of this code and the household fire warning

FOUNDATION PLAN

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

្លីវិទី 4" APPROVED BASE។

CONTINUOUS CONCRETE

FOOTING AS SPECIFIED

SET BOTTOM OF FOOTING

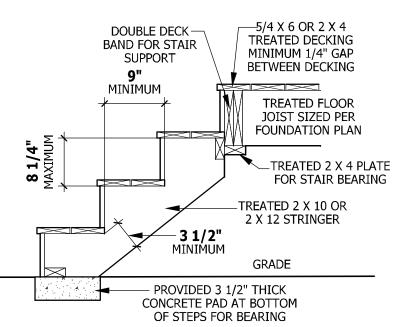


FIGURE AM110 TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

-WEEP SCREED

MINIMUM 4" TO

GROUND OR 2"

←TO PAVEMENT

GRADE

SHEATHING AS SPECIFIED

AS SPECIFIED

LATH-

SEE FOUNDATION

FOR FOUNDATION

DETAILS

WEEP SCREED

SCALE 3/4" = 1'-0"

WEEP SCREEDS

TAMPED OR

JNDISTURBED

EARTH

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

shall be of a type that will allow trapped

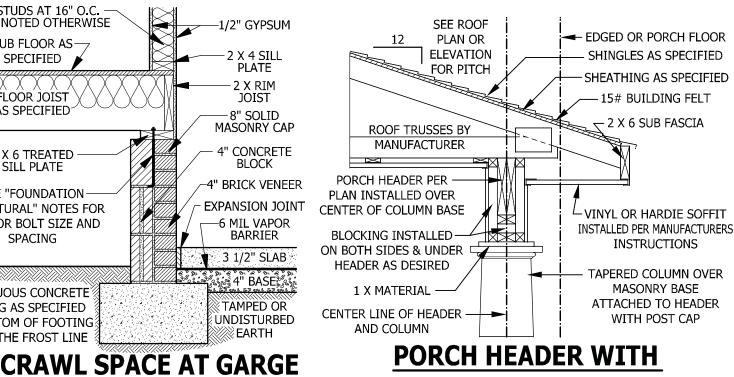
water to drain to the exterior of the

attachment flange of the weep screed.

shall cover and terminate on the

R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), uninhabitable (unfinished) attics and uninhabitable (unfinished) corrosion-resistant weep screed or plastic attic-stories. In *dwellings* or *dwelling units* with split levels and weep screed, with a minimum vertical without an intervening door between the adjacent levels, a smoke attachment flange of 31/2 inches (89 mm) alarm installed on the upper level shall suffice for the adjacent shall be provided at or below the lower level provided that the lower level is less than one full story foundation plate line on exterior stud walls below the upper level. in accordance with ASTM C 926. The weep When more than one smoke alarm is required to be installed within screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above paved areas and

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.



PORCH HEADER WITH 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.

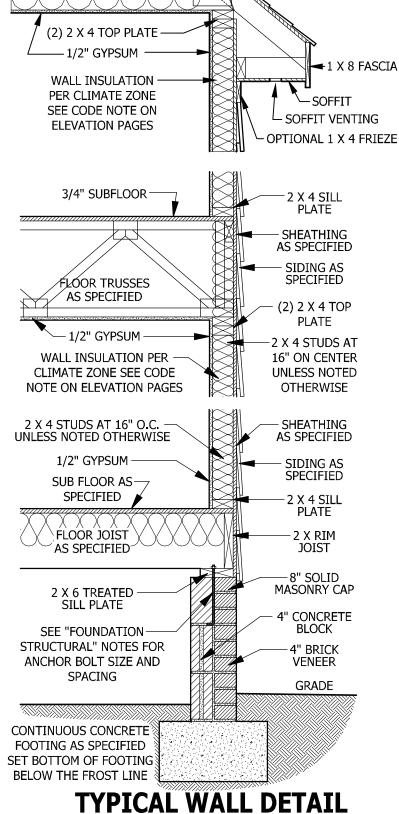
R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread depth of 9 inches (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

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 between the wall and the handrails.

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

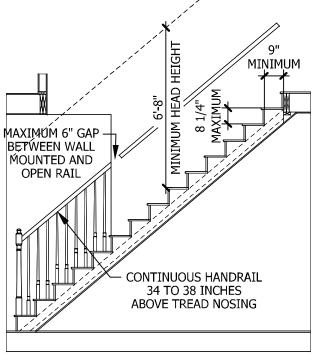
ELEVATION PAGES

- SHINGLES AS SPECIFIED

—15# BUILDING FELT

-SHEATHING AS SPECIFIED

INSULATION BAFFLE



SCALE 3/4" = 1'-0"

TYPICAL STAIR DETAIL

UNHEATED Garage Front Porch RONT PORCH EXT REAR PORCH JNHEATED OPTIONAL

PAGE 6 OF 6

PURCHASER MUST VERIFY ALL

EFORE CONSTRUCTION BEGINS

HAYNES HOME PLANS, INC.

ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

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Lindsay

DETAIL

TYPICAL

IGINEER SHÓULD BE CONSULTEI

SQUARE FOOTAGE HEĂTED

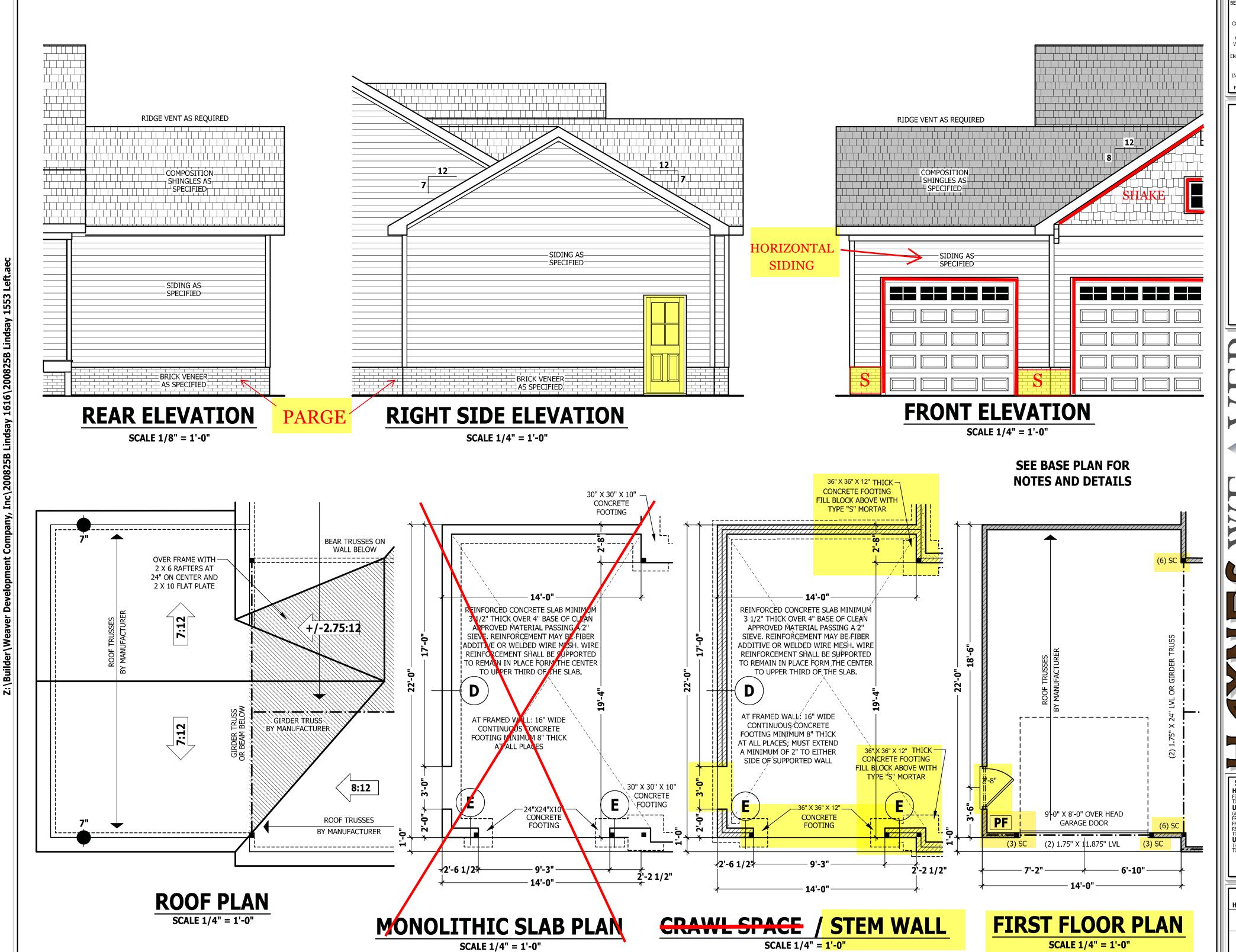
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200505B

smoke alarms. Where a household fire warning system is installed minimum tread depth of 4 inches (102 mm) at any point. using a combination of smoke detector and audible notification 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 owned by the homeowner. The system shall be monitored by an more than 1 1/4 inches (32 mm) shall be provided on stairways with solid approved supervising station and be maintained in accordance with **R311.7.7 Handrails.** Handrails shall be provided on at least one side of each **Exception:** Where smoke alarms are provided meeting the continuous run of treads or flight with four or more risers. requirements of Section R314.4. **R311.7.7.1 Height.** Handrail height, measured vertically from the sloped R314,3 Location. Smoke alarms shall be installed in the following 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. In each sleeping room. 2. Outside each separate sleeping area in the immediate vicinity of 1. The use of a volute, turnout or starting easing shall be allowed over the the bedrooms. lowest tread. 3. On each additional *story* of the *dwelling*, including *basements* and habitable attics (finished) but not including crawl spaces,

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)

Exceptions:



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

> CODES AND CONDITIONS MAY DESIGNER, ARCHITECT OR IGINEER SHOULD BE CONSULTED

BEFORE CONSTRUCTION. THESE DRAWING ARE NSTRUMENTS OF SERVICE AND PROPERTY OF THE DESIGNER.

THIRD D Lindsay **FRONT LOAD**

SQUARE FOOTAGE

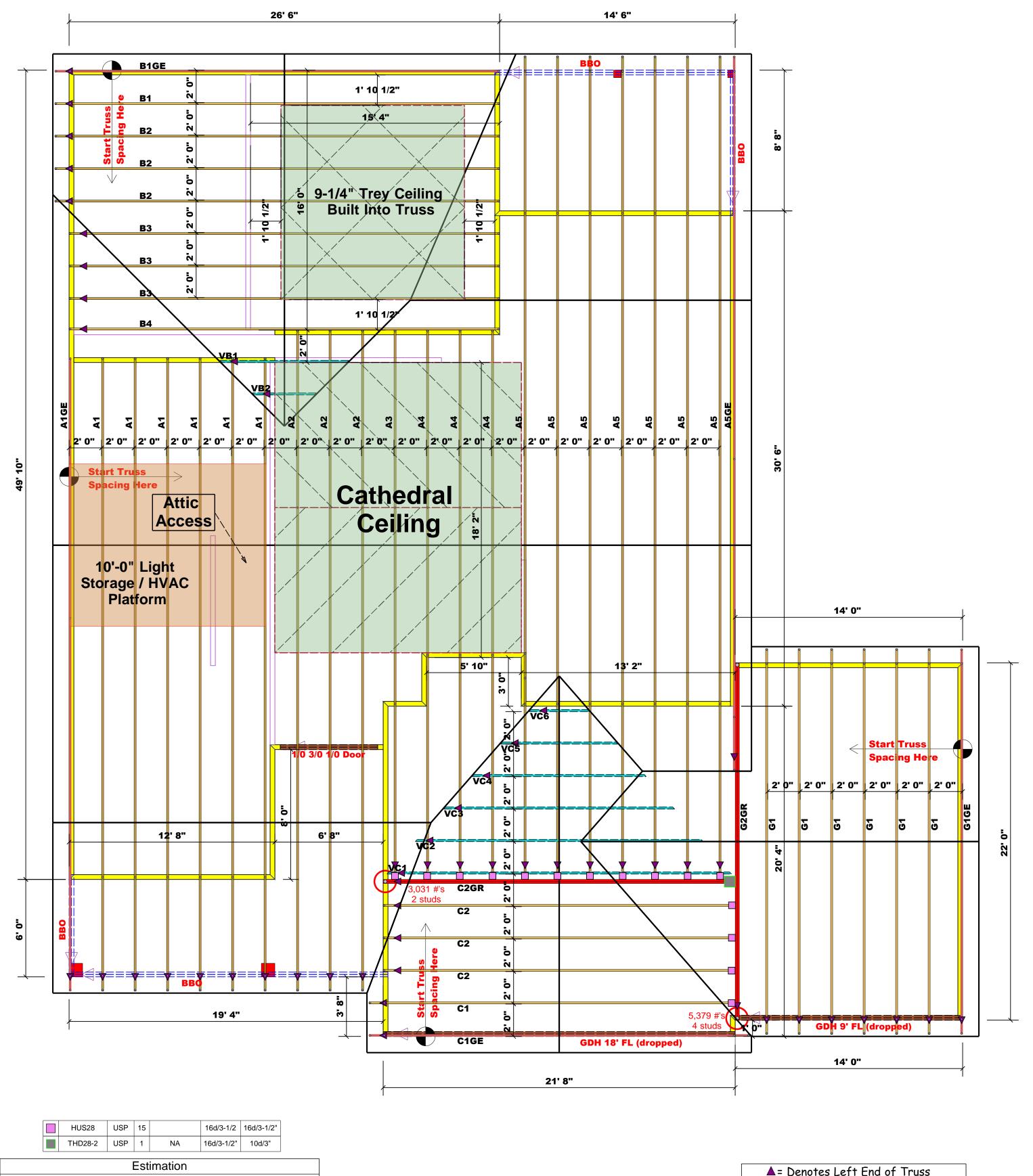
HEATED
FIRST FLOOR
TOTAL
UNHEATED GARAGE FRONT PORCH FRONT PORCH EXT REAR PORCH

UNHEATED OPTIONAL

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9/28/2020 200505B

ADDENDUM



| Name | Selection | Formula | Calculation |
|--------------|-----------|--------------|-------------|
| Roof Area | 1st Floor | Roof Area | 3319.26 |
| Roof Decking | 1st Floor | Roof Decking | 114 |

 BEAM LEGEND

 PlotID
 Length
 Product
 Plies
 Net Qty
 Fab Type

 1/0 3/0 1/0 Door
 6' 0"
 1-3/4"x 9-1/4" LVL Kerto-S
 2
 2
 FF

 GDH 9' FL (dropped)
 14' 0"
 1-3/4"x 11-7/8" LVL Kerto-S
 2
 2
 FF

 GDH 18' FL (dropped)
 22' 0"
 1-3/4"x 14" LVL Kerto-S
 2
 2
 FF

▲= 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 (| CHAF | T FO | RЈ | ACK : | STUD | s | |
|---|----------------------|-----------------------------------|------|-------------------------|-----------------------------------|-------|-------------------------|-----------------------------------|--|
| (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 (4) PLY HEADER | |
| | 1700 | 1 | | 2550 | 1 | | 3400 | 1 | |
| | 3400 | 2 | | 5100 | 2 | | 6800 | 2 | |
| | 5100 | 3 | | 7650 | 3 | | 10200 | 3 | |
| | 6800 | 4 | | 10200 | 4 | | 13600 | 4 | |
| | 8500 | 5 | | 12750 | 5 | | 17000 | 5 | |
| | 10200 | 6 | | 15300 | 6 | | | | |
| | 11900 | 7 | | | | | | | |
| | 13600 | 8 | | | | | | | |
| | 15300 | 9 | | | | | | | |

| BUILDER | Weaver Homes, Inc. | CITY / CO. | Sanford / Harnett | THIS IS These to the build sheets for |
|-----------|--------------------------------|------------|-------------------|--|
| JOB NAME | Lot 12 West Preserve | ADDRESS | 293 Thistle Court | is respon the over walls, an regardin |
| PLAN | Lindsay 1553 A (200505B) 3 Car | MODEL | Model | or online Bearing prescrip |
| SEAL DATE | Seal Date | DATE REV. | // | (derive foundat than 30 be retai |
| QUOTE# | Quote # | DRAWN BY | Lenny Norris | specifie retained |
| ЈОВ# | J0624-3320 | SALES REP. | Lenny Norris | Sign |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

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

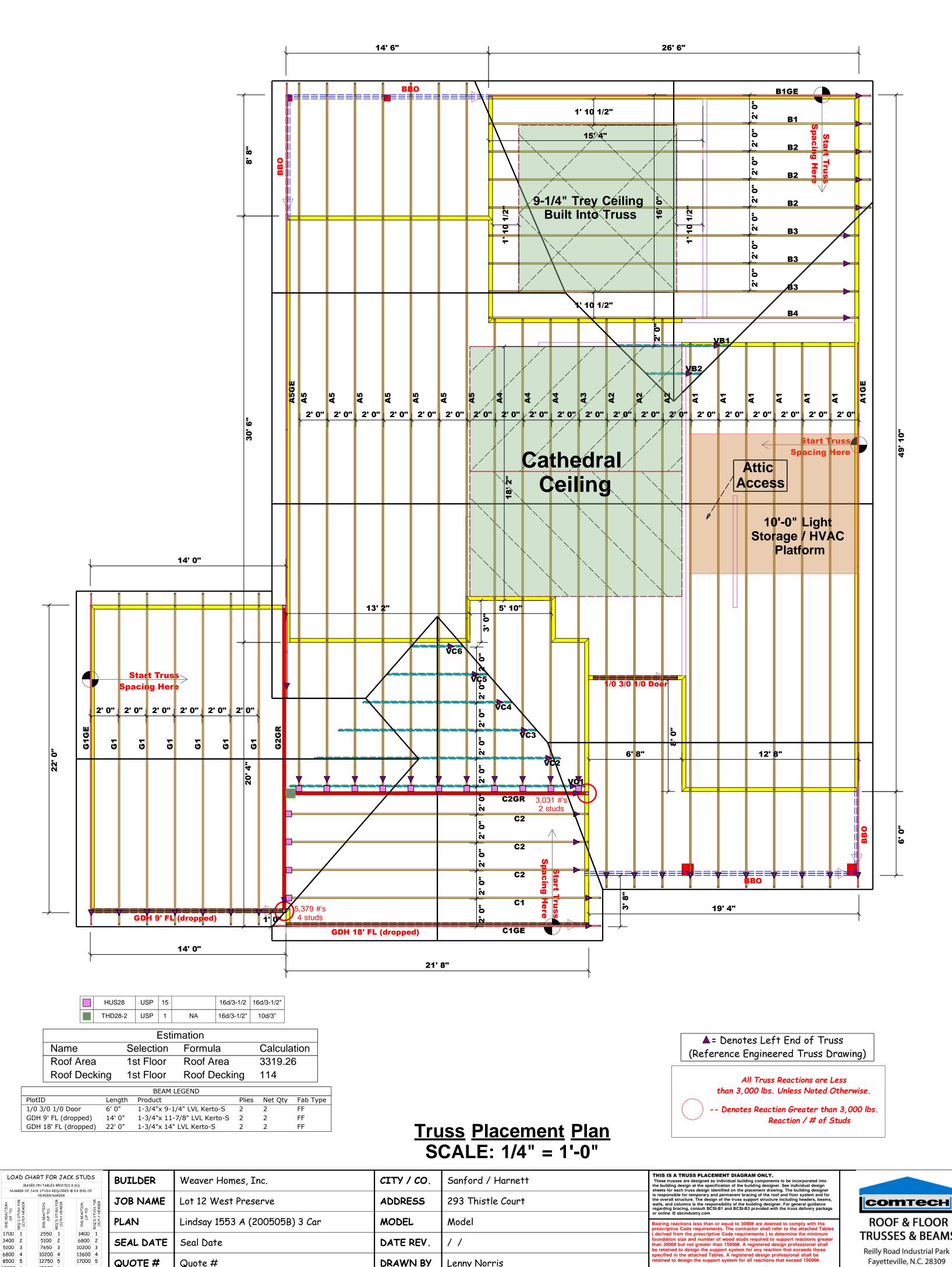
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions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

Lenny Norris

Lenny Norris

ROOF & FLOOR
TRUSSES & BEAMS
Reilly Road Industrial Park

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



Lenny Norris

Lenny Norris

DRAWN BY

SALES REP.

5100 3

6800 4

8500 5

10200 6

11900 7

13600 8

15300 9

7650 3

10200 4

12750 5

15300 6

10200 3

13600 4

17000 5

QUOTE #

JOB#

Quote #

J0624-3320

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

Lenny Norris

Lenny Norris



Client: Project: Address: WEAVER HOMES

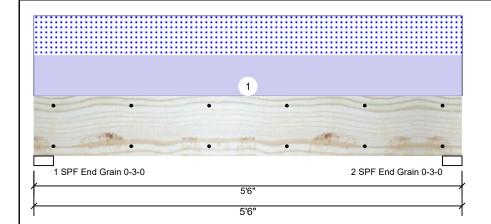
Date: 8/27/2024 Input by:

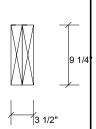
LENNY NORRIS Job Name: LINDSAY 3CAR

Project #:

1/0 3/1 1/0 DOOR Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level





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: Floor Design Method: ASD **Building Code:** IRC 2018 Load Sharing: No Deck: Not Checked Reactions UNPATTERNED Ib (Uplift) Live Wind Brg Direction Dead Snow Const Vertical 0 1568 1548 0 0 1 1568 O O 0 2 Vertical 1548

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|----------|---------------|-------------|-------|------|
| Moment | 3721 ft-lb | 2'9" | 14423 ft-lb | 0.258 (26%) | D+S | L |
| Unbraced | 3721 ft-lb | 2'9" | 11505 ft-lb | 0.323 (32%) | D+S | L |
| Shear | 1965 lb | 1' 1/4" | 7943 lb | 0.247 (25%) | D+S | L |
| LL Defl inch | 0.026 (L/2411) | 2'9" | 0.128 (L/480) | 0.199 (20%) | S | L |
| TL Defl inch | 0.051 (L/1198) | 2'9" | 0.171 (L/360) | 0.301 (30%) | D+S | L |

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 1568 / 1548 D+S Vert 3116 L End Grain 2 - SPF 3.000" 1568 / 1548 3116 L D+S Vert 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 | 563 PLF | 0 PLF | 563 PLF | 0 PLF | 0 PLF | A2 TRUSS |
| | Self Weight | | | | 7 DI 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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

www.metsawood.com/us





Client: WEAVER HOMES

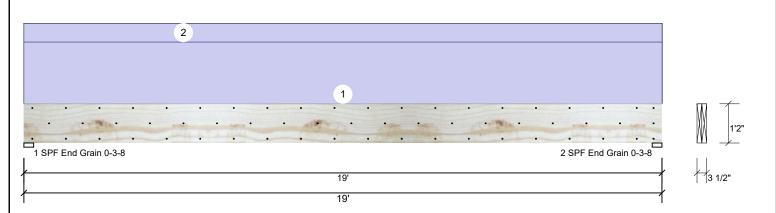
Project: Address: Date: 8/27/2024

Input by: LENNY NORRIS Job Name: LINDSAY 3CAR

Project #:

GDH 18' FL Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Type: Girder Application: Floor Wind Brg Direction Live Dead Snow Const Plies: 2 Design Method: ASD Vertical 0 2573 0 0 0 1 Moisture Condition: Dry **Building Code:** IRC 2018 O 2573 O O 0 2 Vertical 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 2573 / 0 2573 Uniform End Grain Analysis Results 25% 2 - SPF 3.500" Vert 2573 / 0 2573 Uniform D Comb. Analysis Actual Location Allowed Case Capacity End 11641 ft-lb 9'6" 24299 ft-lb Uniform Moment 0.479 (48%) D Grain Unbraced 11641 ft-lb 9'6" 11659 ft-lb 0.999 Uniform (100%)

Uniform

Uniform

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.

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

9'6 1/16" 0.618 (L/360) 0.772 (77%) D

0.233 (23%) D

17'6 1/2" 9408 lb

- 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.

2191 lb

LL Defl inch 0.000 (L/999)

TL Defl inch 0.477 (L/466)

- 6 Top must be laterally braced at a maximum of 8'11 5/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

| I | 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 | GABLE END | |
| 2 | 2 | Uniform | | | Тор | 60 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | DEAD WALL | |
| | | 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-pli fastening details, beam strength values, and code
- 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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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

Manufacturer Info



Page 1 of 1



Client: WEAVER HOMES

Project: Address: Date: 8/27/2024 Input by:

LENNY NORRIS Job Name: LINDSAY 3CAR

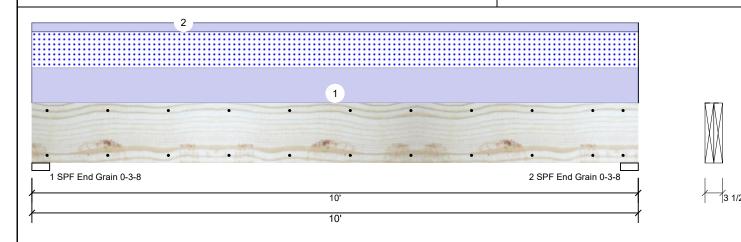
Page 1 of 1

11 7/8'

Project #:

GDH 9' FL **Kerto-S LVL** 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

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:** IRC 2018

Load Sharing: No

Deck: Not Checked Reactions UNPATTERNED Ib (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|-----|-----------|------|------|------|------|-------|
| 1 | Vertical | 0 | 1511 | 1165 | 0 | 0 |
| 2 | Vertical | 0 | 1511 | 1165 | 0 | 0 |

Bearings

Grain

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

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 |

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 | 233 PLF | 0 PLF | 233 PLF | 0 PLF | 0 PLF | G1 TRUSS |
| 2 | Uniform | | | Тор | 60 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | DEAD 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
- For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

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