| MEAN ROOF HEIGHT: 18'-4 | ! " | 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 | | |
| ** 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

| TOOTING, INSUL | TOOTING, INSCENTION DEFINE WITH STEEL WALE SEAD 21 OR TO DO FOR OTHER TOOM WA | | | | | | | | | | | |
|------------------|--|-----------|------------|----------|----------|-----------|---------------|---------|--|--|--|--|
| DESIGNED FOR WIN | 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 | 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 SECO | OND GUST | (101 FAS | TEST MILE | E) EXPOSU | JRE "B" | | | | |
| COMPONENT | & CLA | DDING | DESIG | NED FO | R THE | FOLLO | WING | LOADS | | | | |
| MEAN ROOF | UP T | O 30' | 30'-1" | TO 35' | 35'-1" | TO 40' | 40'-1" | TO 45' | | | | |
| ZONE 1 | 16.7 | -18.0 | 17.5 | -18.9 | 18.2 | -19.6 | 18.7 | -20.2 | | | | |
| ZONE 2 | 16.7 | -21.0 | 17.5 | -22.1 | 18.2 | -22.9 | 18.7 | -23.5 | | | | |
| ZONE 3 | 16.7 | -21.0 | 17.5 | -22.1 | 18.2 | -22.9 | 18.7 | | | | | |
| 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 | | | | |

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 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

NET FREE CROSS VENTILATION NEEDED:

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

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

RIDGE VENT AS REQUIRED

COMPOSITION

SHINGLES AS

 $_{\perp}$ SPECIFIED $_{\perp}$

RAIL AS NEEDED PARGE

PER CODE

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.

FRONT - A WITH SIDE LOAD **SCALE 1/8" = 1'-0"** 12 RIDGE VENT AS REQUIRED COMPOSITION# SIDING AS SHINGLES AS SPECIFIED: SPECIFIED

LEFT SIDE ELEVATION SCALE 1/8" = 1'-0"

SOUARE FOOTAGE HEATED

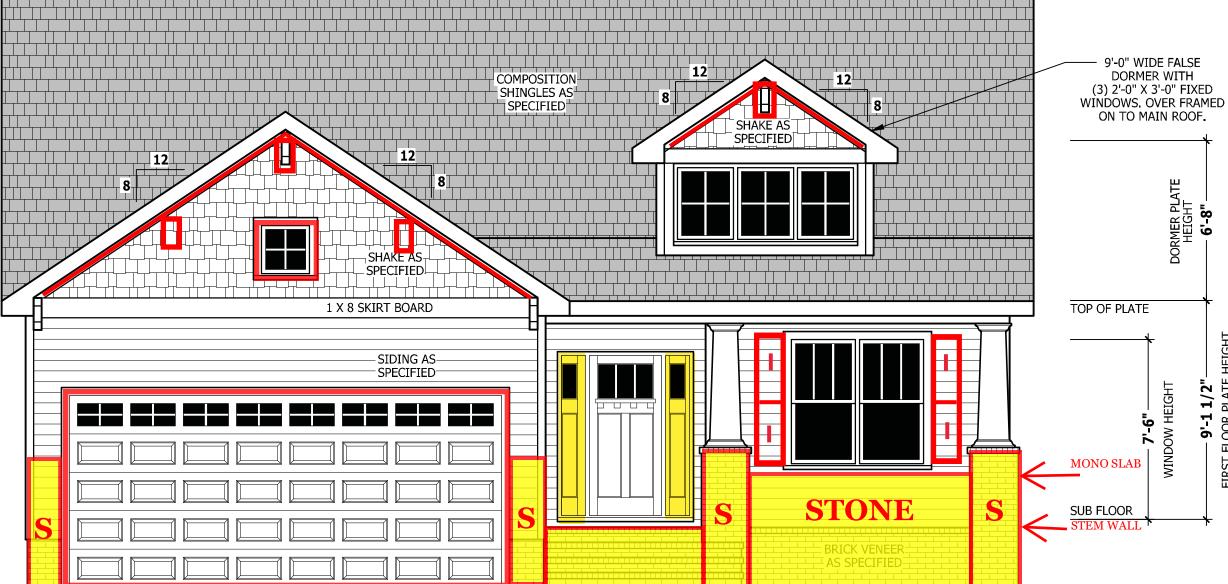
UNHEATED

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 - A

SCALE 1/4" = 1'-0"

RIDGE VENT AS REQUIRED

COMPOSITION

SHINGLES A

[⊥]SPECIF

GUARD RAIL NOTES

SECTION R312

RAIL AS NEEDED

R312.1 Where required. *Guards* shall be located along open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.2 Height. Required *guards* at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be 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.

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.

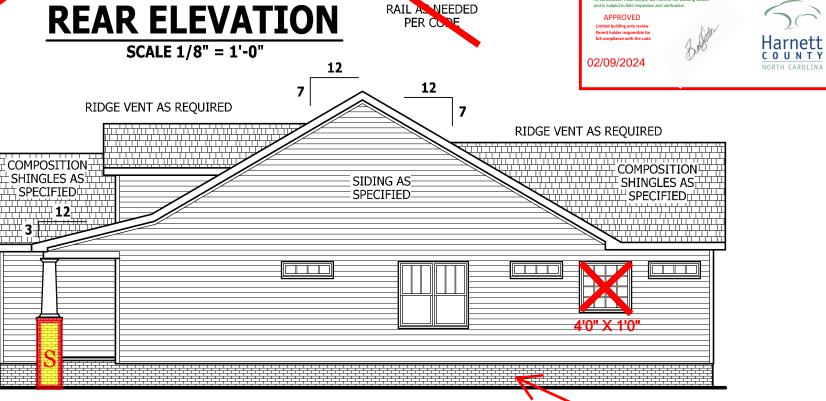
R312.3 Opening limitations. Required *guards* shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 inches (102 mm)in diameter.

50

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 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.

PARGE



RAIL AS NEEDED PER CODE

RIGHT SIDE ELEVATION

SCALE 1/8" = 1'-0"

ELEVATION

PURCHASER MUST VERIFY ALL

EFORE CONSTRUCTION BEGINS

HAYNES HOME PLANS, INC.

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CODES AND CONDITIONS MAY ARY WITH LOCATION. A LOCAL DESIGNER ARCHITECT OR GINEER SHÓULD BE CONSULTEI BEFORE CONSTRUCTION. THESE DRAWING ARE NSTRUMENTS OF SERVICE AND

AS SUCH SHALL REMAIN

PROPERTY OF THE DESIGNER.

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Lindsay

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" -

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

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PROPERTY OF THE DESIGNER

PLAN $\mathbf{\Omega}$ \triangleleft S

Lindsa STEM

SQUARE FOOTAGE

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

UNHEATED OPTIONAL

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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 | DEFLECTS | |
|------------------------------|-----------|-----------|----------|--|
| USE | (PSF) | (PSF) | (II) | |
| 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 PSL, Fv=290 PSL, 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

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.

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.

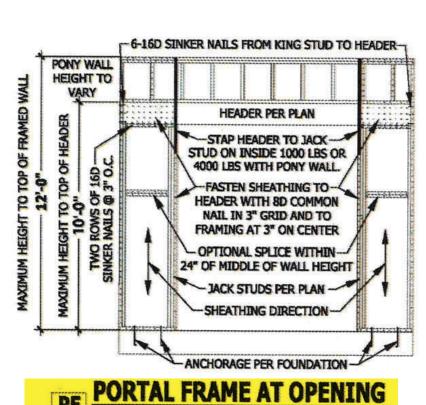
REQUIRED LENGTH OF BRACING: Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. HD: 800 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



(METHOD PF PER FIGURE AND SECTION R602.10.1)

SCALE 1/4" = 1'-0"

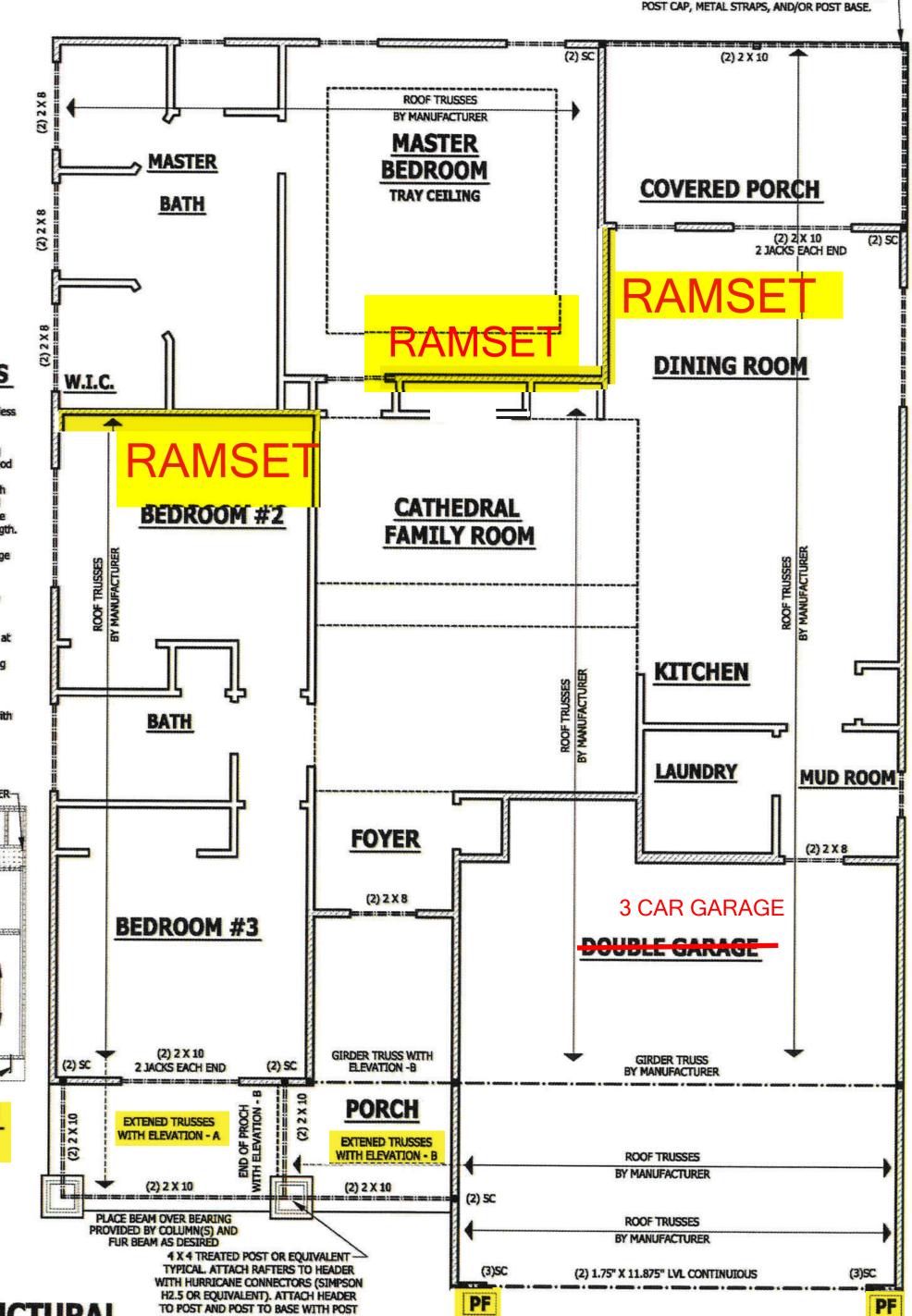
FULL FRONT PORCH

FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

CAP, METAL STRAPS, AND/OR POST BASE.

4 X 4 TREATED POST OR EQUIVALENT TYPICAL . ATTACH RAFTERS TO HEADER WITH HURRICANE CONNECTORS (SIMPSON H2.5 OR EQUIVALENT). ATTACH HEADER TO POST AND POST TO BASE WITH POST CAP, METAL STRAPS, AND/OR POST BASE.



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

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

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STRUCTURAL Lindsay FLOOR FIRST

SQUARE FOOTAGE
HEATED
FIRST PLOOR 1553 SQLF UNHEATED
GARAGE
PRONT PORCH
PRONT PORCH
EXT
REAR PORCH
TOTAL

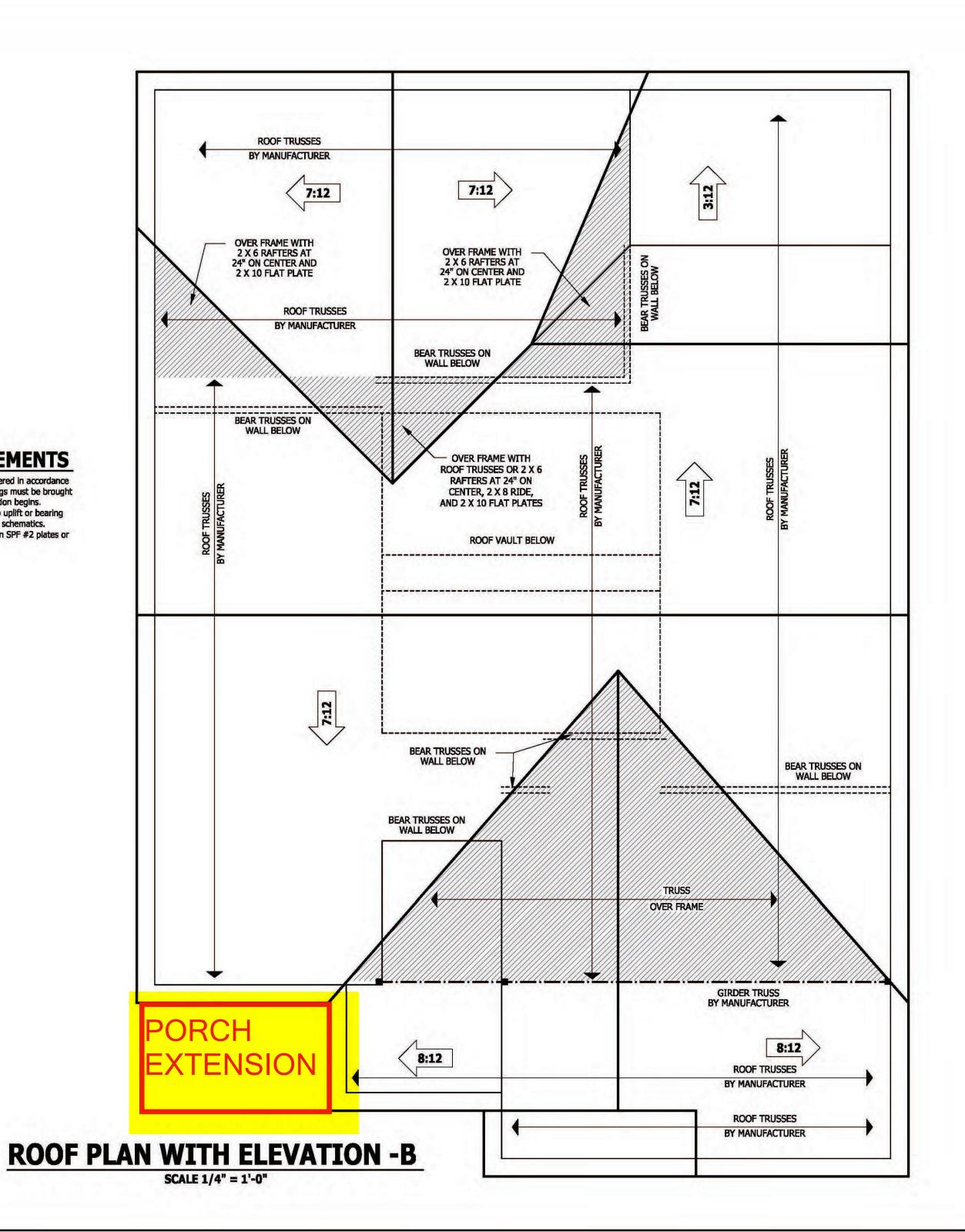
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ROOF TRUSS REQUIREMENTS TRUSS DESIGN. Trusses to be designed and engineered in accordance

with these drawings. Any variation with these drawings must be brought to 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 DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

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> 4 **ROOF PLAN WITH ELEVATION** N

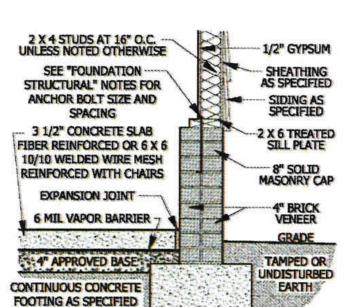
Lindsay

SQUARE FOOTAGE
HEATED
HIST FLOOR 1553 SQJ.
TOTAL 1553 SQJ.
UNHEATED
GARAGE 419 SQ.
FRONT PORCH 107 FORCH 207 FORCH 2

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BELOW THE FROST LINE **GARAGE STEM WALL** D

DECK STAIR NOTES

SET BOTTOM OF FOOTING

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 out 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

see Chapter 45.

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

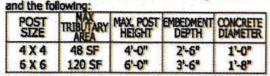
AM109.1.1. When the deck floor height is less than 4'-0" above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section AM104, lateral bracing is not required. AM109.1.2. 4 x 4 wood knee braces may be provided on

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 AS SPECIFIED

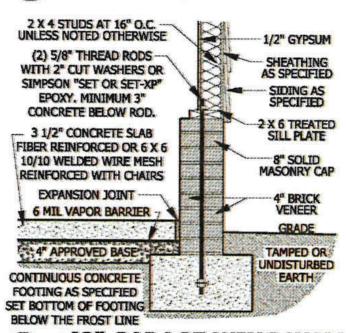
AS SPECIFIED diagonal bracing, lateral stability may be provided by embedding the post in accordance with Figure AM109.2



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,

FLOOR JOIST OVERI AP AS SPECIFIED JOIST (3) 2 X 10 GIRDER **UNLESS NOTED** 8" SOLID OTHERWISE MASONRY CAP -2 X 6 TREATED SILL PLATE FLOOR JOIST (3) 2 X 10 GIRDER **UNLESS NOTED** AS SPECIFIED -OTHERWISE -2 X 6 TREATED SILL PLATE MINIMUM --8" SOLID X 2 LEDGER MASONRY CAP STRIPS OR HANGERS **CONCRETE FOOTING** AS SPECIFIED SET PIER SIZE AS **BOTTOM OF** SPECIFIED FOOTING BELOW THE FROST LINE

DROPPED/ FLUSH PIER



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

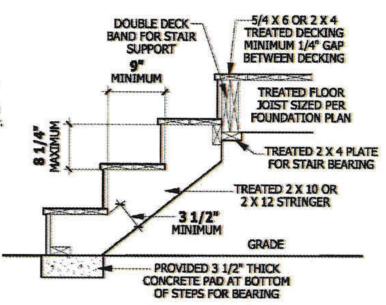


FIGURE AM110 TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

LATH-

SEE FOUNDATION

FOR FOUNDATION

DETAILS

WEEP SCREED

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

WEEP SCREED

MINIMUM 4" TO

GROUND OR 2"

-TO PAVEMENT

GRADE

WEEP SCREEDS

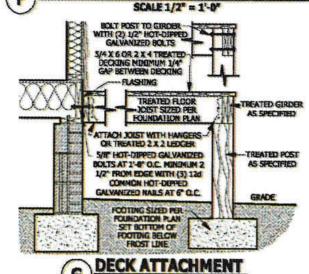
All weep screeds and stone veneer to be installed per manufactures instructions and per the 2012 North Carolina Residential Building code.

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 building. The weather-resistant barrier shall lap the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed.

2 X 4 STUDS AT 16" O.C. --UNLESS NOTED OTHERWISE 1/2" GYPSUM SUB FLOOR AS-SPECIFIED PLATE 2 X RIM FLOOR JOIST JOIST AS SPECIFIED ----8" SOLID MASONRY CAP **ROOF TRUSSES BY** MANUFACTURER 2 X 6 TREATED SILL PLATE PORCH HEADER PER 4" BRICK VENEER SEE "FOUNDATION PLAN INSTALLED OVER **EXPANSION JOINT** STRUCTURAL" NOTES FOR CENTER OF COLUMN BASE ANCHOR BOLT SIZE AND BARRIER **BLOCKING INSTALLED-**SPACING ON BOTH SIDES & UNDER 3 1/2" SLAB HEADER AS DESIRED 4" BASE CONTINUOUS CONCRETE 1 X MATERIAL **FOOTING AS SPECIFIED** TAMPED OR CENTER LINE OF HEADER SET BOTTOM OF FOOTING UNDISTURBED AND COLUMN BELOW THE FROST LINE PORCH HEADER WITH

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

UNLESS NOTED OTHERWIS 2 X TREATED -HOUSE BAND -2 X 4 SOLE PLATE -- COBBLED BRICK FOR SLAB SUPPORT SPECIFIED RODR KOIST AS SPECIFIED 3 1/2" CONCRETE SLAB STRUCTURAL" NOTES FOR CONCRETE BLOCK F SOLID -(2) 4" CORRUGATED PIPES 8 X 16 VENT BLOCK CONTINUOUS CONCRETE-FOOTING AS SPECIFIED FILLED PORCH SECTION WITH VENT SCALE 1/2" = 1'-0"



SMOKE ALARMS

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 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

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 an individual dwelling unit the alarm devices shall be interconnected 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 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"

SEE ROOF

PLAN OR

ELEVATION

FOR PITCH

- EDGED OR PORCH FLOOR

SHINGLES AS SPECIFIED

SHEATHING AS SPECIFIED

-15# BUILDING FELT

2 X 6 SUB FASCIA

-VINYL OR HARDIE SOFFIT

INSTALLED PER MANUFACTURERS

INSTRUCTIONS

TAPERED COLUMN OVER

MASONRY BASE

ATTACHED TO HEADER

WITH POST CAP

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 eparate 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 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 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 Handralls. Handralls 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. Handrall 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.

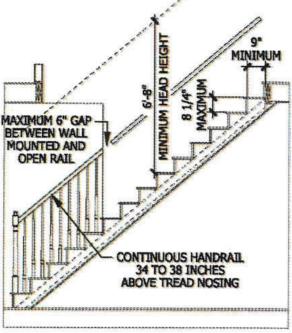
2. When handrall fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrall height at the fittings or bendings shall be permitted to exceed the maximum height.

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. Handralls adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the handralls.

 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 handrall and a guardrail/handrall, the wall-mounted rail must return into the wall.

PITCH PER ROOF PLAN OR ELEVATIONS SHINGLES AS SPECIFIED -15# BUILDING FELT ROOF INSULATION PER CLIMATE ZONE SHEATHING AS SPECIFIED SEE CODE NOTE ON **ELEVATION PAGES** INSULATION BAFFLE (2) 2 X 4 TOP PLATE -1/2" GYPSUM 1 X 8 FASCIA WALL INSULATION PER CLIMATE ZONE -SOFFIT SEE CODE NOTE ON - SOFFIT VENTING **ELEVATION PAGES** OPTIONAL 1 X 4 FRIEZE 3/4" SUBFLOOR-2 X 4 SILL SIDING AS SPECIFIED LOOR TRUSSES AS SPECIFIED (2) 2 X 4 TOP PLATE -1/2" GYPSUM 2 X 4 STUDS AT WALL INSULATION PER 16" ON CENTER CLIMATE ZONE SEE CODE **UNLESS NOTED** NOTE ON ELEVATION PAGES OTHERWISE 2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE AS SPECIFIED 1/2" GYPSUM SPECIFIED SUB FLOOR AS-SPECIFIED FLOOR JOIST Y 2 X RIM AS SPECIFIED MASONRY CAP 2 X 6 TREATED SILL PLATE SEE "FOUNDATION STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND SPACING GRADE CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE TYPICAL WALL DETAIL SCALE 3/4" = 1'-0"



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

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS FORE CONSTRUCTION BEGI HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AN PROCEDURES. CODES AND CONDITIONS MAY ARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR BEFORE CONSTRUCTION. THESE DRAWING ARE TRUMENTS OF SERVICE A AS SUCH SHALL REMAIN

PROPERTY OF THE DESIGN

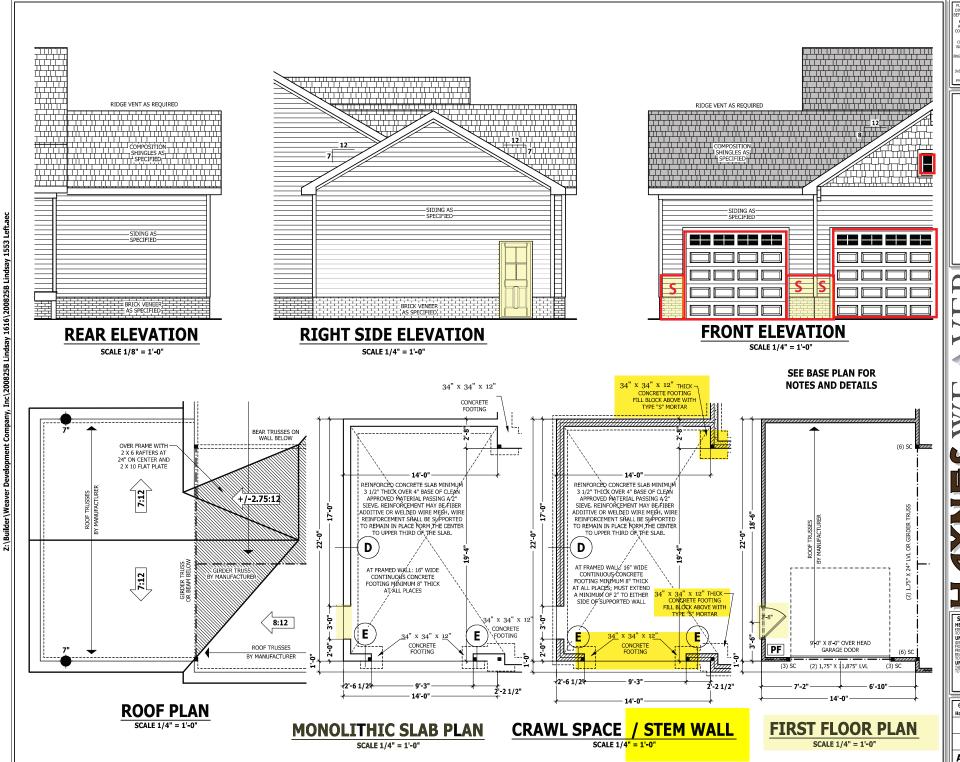
DETAILS M

TYPICAL T

SQUARE FOOTAGE HEATED
HIST PLOOR
TUTNE
UNHEATED
GAMGE
HIGHT FORCH EXT
REAR FORCH
TOTAL 1553 SOFT. 1553 SOFT.

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PAGE 6 OF 6



PURCHASER MUST VERIFY ALL IMENSIONS AND CONDITIONS FORE CONSTRUCTION BEGINS

EFORE CONSTRUCTION BEGIN:
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PROCEDURES,
CODES AND CONDITIONS MAY
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FRONT LOAD THIRD

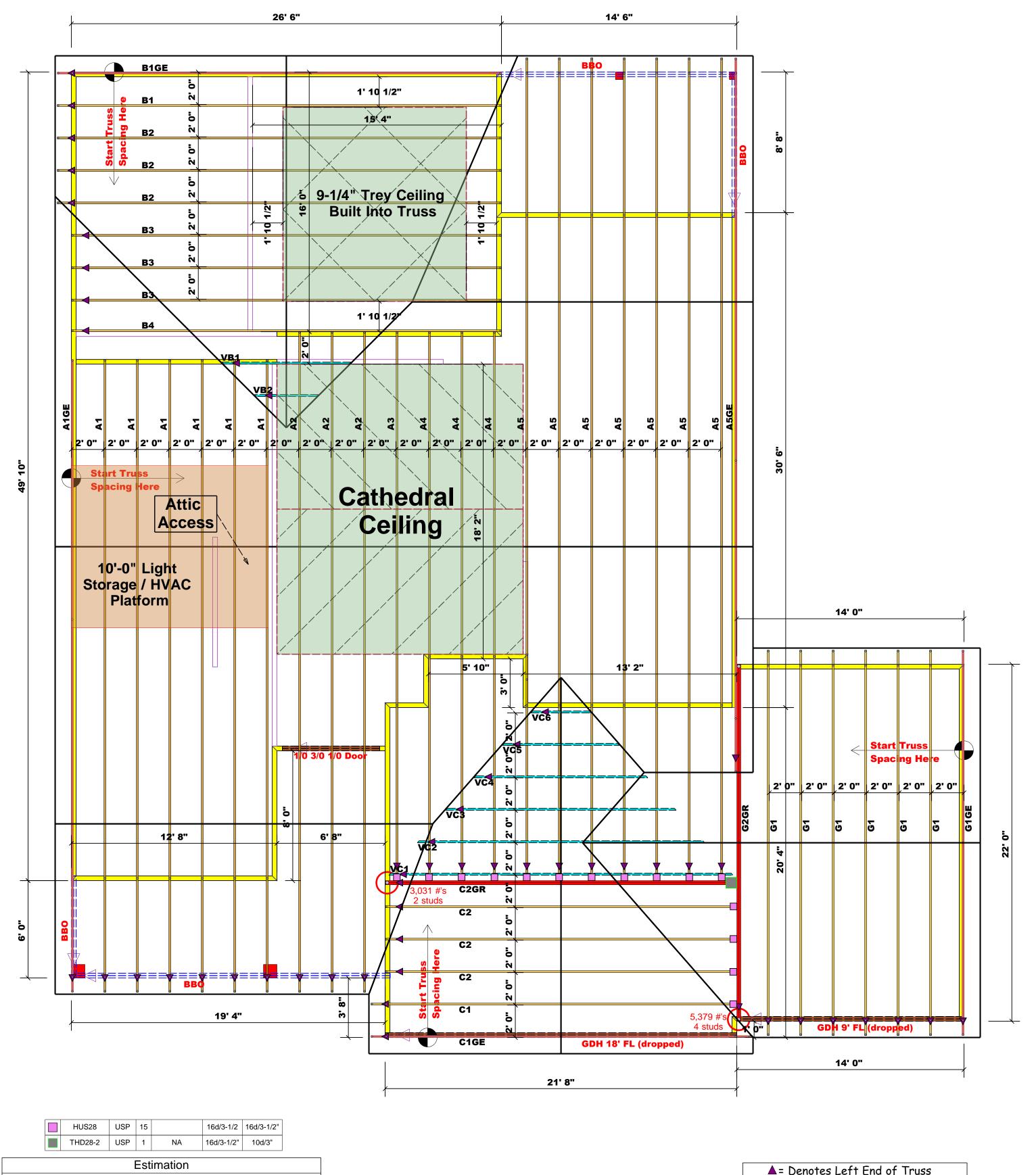
155 Lindsay

SQUARE FOOTAGE HEATED UNHEATED UNHEATED OPTIONAL THIRD GARAGE 292 SC

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9/28/2020 200505B

ADDENDUM



| Estimation | | | | | | | | |
|--------------|-----------|--------------|-------------|--|--|--|--|--|
| 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
 6-00-00
 1-3/4"x 9-1/4" LVL Kerto-S
 2
 2
 FF

 GDH 9' FL (dropped)
 14-00-00
 1-3/4"x 11-7/8" LVL Kerto-S
 2
 2
 FF

 GDH 18' FL (dropped)
 22-00-00
 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 | R J | ACK : | STUD | 5 | | | |
|--|-----------------------------------|------|-------------------------|--------------------------------|-------|----------------------|-----------------------------------|--|--|--|
| (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 TC) | 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 | 0 | | | | | | | | | |

| BUILDER | Weaver Homes, Inc. | CITY / CO. | Sanford / Harnett | THIS Thes the bu |
|-----------|--------------------------------|------------|-------------------|----------------------------------|
| JOB NAME | Lot 46 West Pointe III | ADDRESS | 134 Hillwood Dr. | is res the or walls, |
| PLAN | Lindsay 1553 A (200505B) 3 Car | MODEL | Model | Beari preso |
| SEAL DATE | Seal Date | DATE REV. | / / | (deri found than be re |
| QUOTE# | Quote # | DRAWN BY | Lenny Norris | speci retair |
| JOB# | J0124-0293 | SALES REP. | Lenny Norris | S |

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

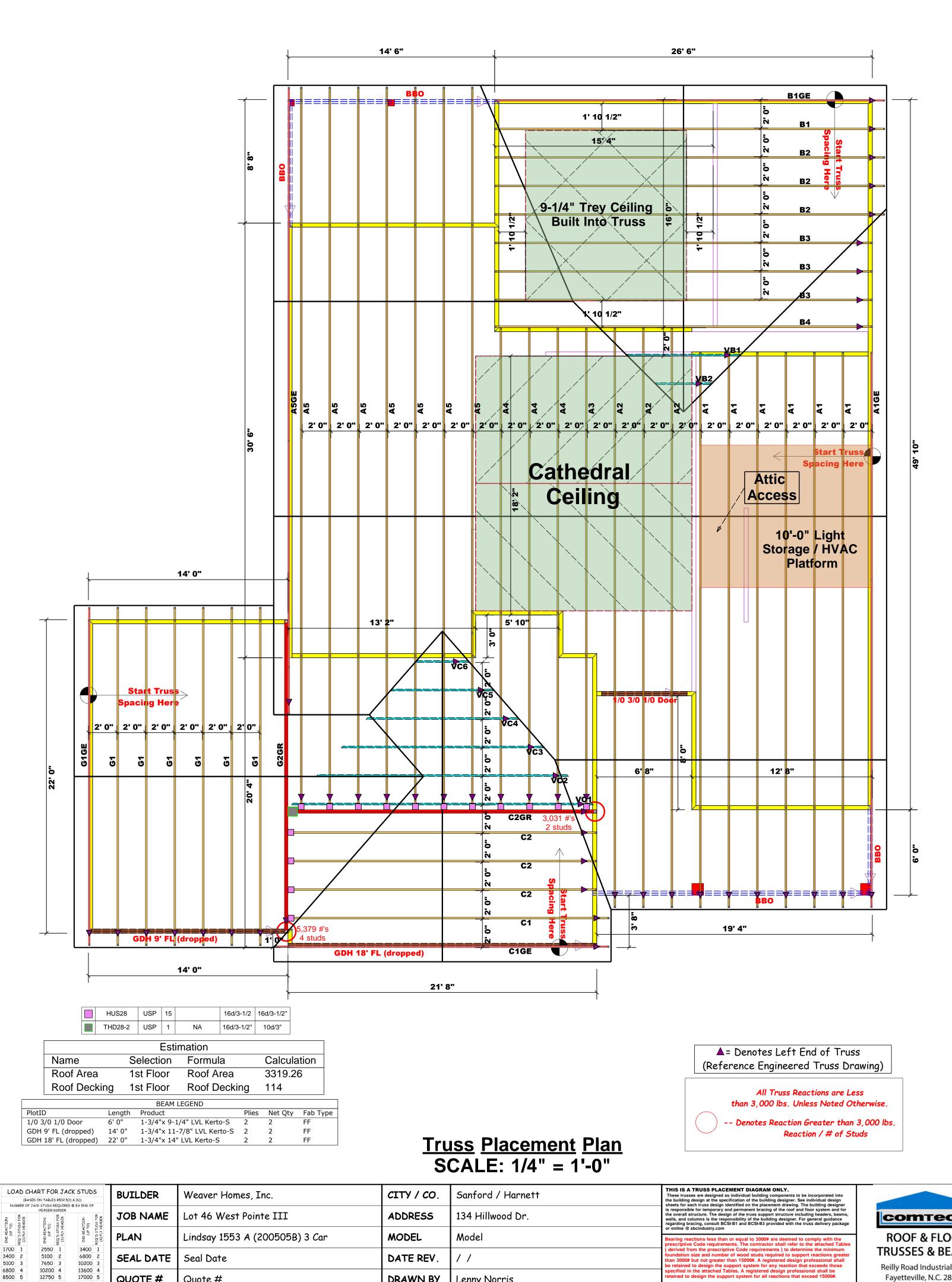
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions 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 Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444



DRAWN BY

SALES REP.

Lenny Norris

Lenny Norris

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 #

J0124-0293

соттесн **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:

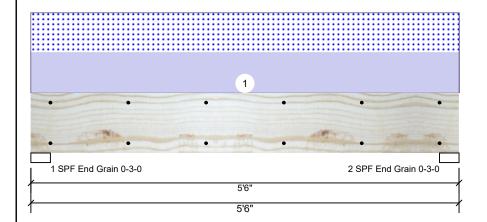
Project: Address: WEAVER Date:

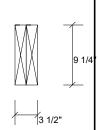
1/29/2024 Input by: LENNY NORRIS Job Name: LINDSAY 3CAR

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: 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 | 1568 | 1548 | 0 | 0 |
| 2 | Vertical | 0 | 1568 | 1548 | 0 | 0 |

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 |

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.

| | Bearings | 5 | | | | | | |
|---|-------------------------|--------|------|------|--------------|-------|----------|-----------|
| | Bearing | Length | Dir. | Сар. | React D/L lb | Total | Ld. Case | Ld. Comb. |
| П | 1 - SPF End Grain | 3.000" | Vert | 35% | 1568 / 1548 | 3116 | L | D+S |
| | 2 - SPF | 3.000" | Vert | 35% | 1568 / 1548 | 3116 | L | D+S |

ID Location Trib Width Load Type 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 7 PLF Self Weight

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

End Grain

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Manufacturer Info



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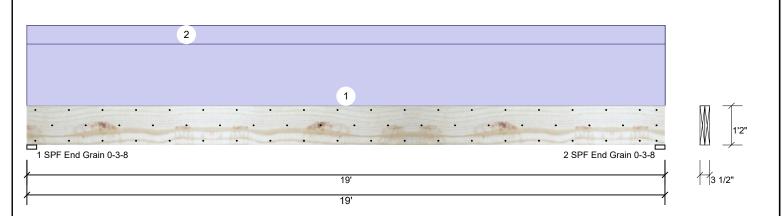
Client: WEAVER

Project: Address: Date:

1/29/2024 Input by: LENNY NORRIS Job Name: LINDSAY 3CAR

Project #:

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

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.

17'6 1/2" 9408 lb

(100%)

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

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

0.233 (23%) 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.

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.

| | | 3 1 7 | | | | | | | | | |
|----|-------------|----------|------------|------|----------|--------|-----------|----------|-------------|-----------|--|
| 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 | Uniform | | | Тор | 60 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | DEAD WALL | |
| | Self Weight | | | | 11 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-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

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Manufacturer Info



Page 1 of 1

This design is valid until 6/28/2026





Client: WEAVER

Project: Address: Date: 1/29/2024

Input by: LENNY NORRIS Job Name: LINDSAY 3CAR

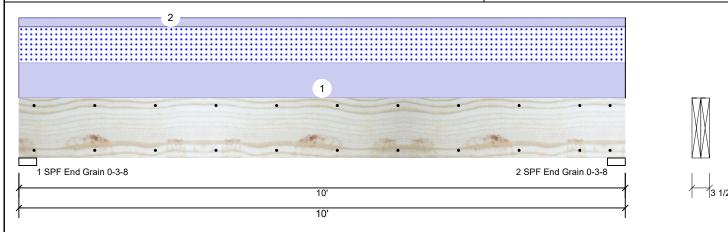
Page 1 of 1

11 7/8'

Project #:

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

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Type: Girder Application: Floor Direction Live Wind Const Brg Dead Snow Plies: 2 Design Method: ASD Vertical 0 1511 1165 0 0 1 Moisture Condition: Dry **Building Code:** IRC 2018 O 1511 1165 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" D+S Vert 1511 / 1165 2676 I End Grain **Analysis Results** 2 - SPF 3.500" 1511 / 1165 D+S Vert 2676 L End Grain

| 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
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- 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
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- For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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