PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT: 18'-4" HEIGHT TO RIDGE: 24'-8' CLIMATE ZONE ZONE 3A ZONE 4A ZONE 5A FENESTRATION U-FACTOR
SKYLIGHT U-FACTOR
GLAZED FENESTRATION SHGC
CEILING R-VALUE 0.35 0.35 0.35 0.55 0.55 0.55 0.30 0.30 0.30 0.30 38 or 30cl 38 or 30cl 38 or 30cl 15 15 19 ** SLAB RYAULE 0 10 10

** CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19

** 10/15 WEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION

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

DESIGNED FOR WILL	D SPEED!	Ur 120 M	H, 3 56U	MU GUST	(93 145)	EST MILE	EURUSU	C 20.
COMPONENT	& CLA	DDING	DESIG	NED FO	R THE	FOLLO	WING	LOADS
MEAN ROOF	UPT	O 30'	30'-1"	TO 351	35'-1"	TO 40'	40-1	TO 45'
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4		-16.8
ZONE 2	14.2	-18.0			15.5			
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19,6	15.9	-20,2
ZONE 4	15.5		16.3		16.9			
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 ME	H, 3 SECO	ND GUST		TEST MILE) DOPOSI	
DESIGNED FOR WIN	& CLA	DDING	DESIG	NED FO	(101 FAS	FOLLO	WING	RE 'B'
COMPONENT MEAN ROOF	& CLA	DDING O 30'	DESIG 30'-1"	NED FO	(101 FAS IR THE 35'-1"	FOLLO TO 40'	WING 40'-1"	RE 'B' LOADS TO 45'
COMPONENT MEAN ROOF ZONE 1	& CLA UP T 16.7	DDING O 30' -18.0	DESIG 30'-1' 17.5	NED FC TO 35' -18.9	(101 FAS IR THE 35'-1" 18.2	FOLLO TO 40' -19.6	WING 40'-1" 18.7	RE 'B' .OADS TO 45' -20.2
COMPONENT MEAN ROOF ZONE 1 ZONE 2	& CLA UP T 16.7 16.7	DDING O 30'	DESIG 30'-1" 17.5 17.5	NED FO TO 35' -18.9 -22.1	(101 FAS OR THE 35'-1" 18.2 18.2	FOLLO TO 40' -19.6 -22.9	WING 40'-1" 18.7 18.7	RE 'B' .OADS TO 45' -20.2 -23.5
COMPONENT MEAN ROOF ZONE 1 ZONE 2 ZONE 3	& CLA UP T 16.7 16.7 16.7	DDING O 30' -18.0	DESIG 30'-1" 17.5 17.5 17.5	NED FO TO 35' -18.9 -22.1 -22.1	(101 FAS 9R THE 35'-1" 18.2 18.2 18.2	FOLLO TO 40' -19.6 -22.9 -22.9	WING 40'-1" 18.7 18.7 18.7	RE '8' COADS TO 45' -20.2 -23.5 -23.5
COMPONENT MEAN ROOF ZONE 1 ZONE 2	& CLA UP T 16.7 16.7	DDING O 30' -18.0 -21.0	DESIG 30'-1" 17.5 17.5 17.5 19.1	NED FO TO 35' -18.9 -22.1	(101 FAS 101 FAS 101 THE 102 18.2 103 18.2 103 19.8	FOLLO TO 40' -19.6 -22.9 -22.9 -20.7	WING 40'-1" 18.7 18.7 18.7 20.4	RE '8' LOADS TO 45' -20.2 -23.5 -23.5 -21.3

ROOF VENTILATION

SECTION R808 R806.1 Ventilation SECTION ROUS

REGION ROUS

REGION ROUS

REGION REGI shall have cross ventilation for each separate space by ventilating openings protected against the entrance of all or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) minimum, ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with concesion-resistant wire cidnoscreening, partoware cidn, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) shall be considered on the control of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) shall be control of 1/16 inch (1.6 mm) grambles shall control m to the control most of the contro

madrium. Openings in roof framing members shall contorm to the requirements of Section 1802.7. The total net free ventitating 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 60 percent of the required ventilating rase is provided by 100 percent of the required ventilating rase is provided by 3 feets (514 mm) above the cave or cornice vents with the belance of the 3 feets (514 mm) above the cave or cornice vents with the belance of the 3 feets (514 mm) above the cave or cornice vents with the belance of the 4 feets (514 mm) above the cave or cornice vents with the belance of the 4 feets (514 mm) above the cave or cornice vents with the belance of the 4 feets (514 mm) above the cave or cornice vents with the belance of the 4 feets (514 mm) above the cave or cornice vents with the belance of the 4 feets of the second vents of the cave of the 5 feets of the second vents of the cave of the 5 feets of the second vents of the second vents of the 5 feets of the 5 feets of the second vents of the 5 feets of 5 feets of 5 feets of 5 feets of 5 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 celling.

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 CELLING = 7.31 SO.FT.

AIR LEAKAGE

Section N1102.4

N1102.4.1 Building thermal envelope. The building thermal N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barter system to limit inflitration. 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 a rair barter material or solid meterial consistent with Appendix E-2.4 of this code:

Blocking and sealing floor/ceiling systems and under knee wails open to unconditioned or exterior space.
 Capping and sealing shafts or chases, including flue shafts.

RIDGE VENT AS REQUIRED

3. Capping and sealing soffit or dropped ceiling areas.

Harnett 05/19/2023



FULL FRONT PORCH LOT - 33R RIDGE VENT AS REQUIRED ΓBD OLEANDER LANE ANFORD, NC 27332 3 CAR GARAGE COMPOSITION SHINGLES AS SPECIFIED VERTICAL SIDING AS SPECIFIED TOP OF PLATE

SOUARE FOOTAGE HEĂTED 1553 SQ.FT. 1553 SQ.FT. UNHEATED GARAGE FRONT PORCH 119 SQ.FT. 103 SQ.FT. 66 SQ.FT. FRONT PORCH EXT

UNHEATED OPTIONAL

REAR PORCH

THIRD GARAGE TOTAL

117 SO FT

292 SQ.FT 292 SQ.FT

SIDING AS FRONT ELEVATION - B

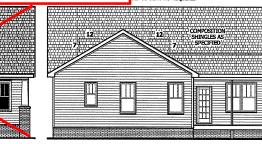
RAIL AS NEEDED PER CODE

SCALE 1/4" = 1'-0"

MONO SLAB - STONE TO RUN TO THE BOTTOM OF WINDOW STEM WALL - STONE TO FOUNDATION HEIGHT ONLY

NOTE:

RIDGE VENT AS REQUIRED



FRONT - B WITH SIDE LOAD

SCALE 1/8" = 1'-0"

RIDGE VENT AS REQUIRED

COMPOSITION

SHINGLES AST

OPTIONAL

SCALE 1/8" = 1'-0"

RAIL AS NEEDED PER CODE

REAR ELEVATION

12 RIDGE VENT AS REQUIRED COMPOSITION ... RIDGE VENT AS REQUIRED 1200 CHINGI PS AS COMPOSITION STOTING AS SHINGLES AS

RIGHT SIDE ELEVATION

SCALE 1/8" = 1'-0'

GUARD RAIL NOTES

SECTION R312

SECTION 8312. Representation of Section 8312 for Section

WEST PRESERVE

HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR

PROCEDURES.

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Lindsay

ELEVATION

FIRST FLOOR

MONO SLAB

STEM WALL

SUB FLOOR

stalrs, 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

useds.

2. Where the top of the guard also serves as a handrall on the open sides of stalts, the top of the guard shall not be not less than 34 inches (964 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting

the leading edges of the treads.

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

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

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

> **SQUARE FOOTAGE** 腦雞 TOTAL
> UNHEATED
> GAMAGE
> PRONT PORCH
> PRONT PORCH EXT
> REAR PORCH TOTAL UNHEATED OP THEO GWAGE TOTAL MAL SESSE

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PAGE 1 OF 6

COMPOSITION SHINGLES AS SIDING AS

12

RAIL AS NEEDED PER CODE

LEFT SIDE ELEVATION

SCALE 1/8" = 1'-0"

41'-4"

CARACE

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PLAN ω S SLAB Ŋ $\overline{}$ Lindsay MONOLITHIC

SQUARE FOOTAGE HEATED

UNHEATED UNHEATED OPTIONAL

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PLAN 55 $\overline{}$ **FIRST FLOOR** Lindsay

SQUARE FOOTAGE HEATED UNHEATED UNHEATED OPTIONAL

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PAGE 3 OF 6

STRUCTURAL NOTES

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

be construed to supersede the code.

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

DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTIO
USE	(PSF)	(PSF)	(LL)
Attics without storage	10	10	L/240
Attics with Imited 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.

Laminated veneer lumber (LVL) = Fh=2600 PSL Fv=285 PSL F=1 9v106 PSL 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

CONCRETE AND SOILS: See foundation notes

EXTERIOR HEADERS

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

(2) 2 X 10

COVERED PORCH

DINING ROOM

KITCHEN

LAUNDRY

DOUBLE GARAGE

GIRDER TRUSS BY MANUFACTURER

ROOF TRUSSES

BY MANUFACTURER

ROOF TRUSSES BY MANUFACTURES

3 CAR GARAGE

MUD ROOM

(2) 2 X 8

(2) 2 X 10 2 JACKS EACH END

ROOF TRUSSES

BY MANUEACTURE

MASTER

BEDROOM

TRAY CEILING

CATHEDRAL

FAMILY ROOM

(6) SC

(2) SC

FOYER

(2) 2 X 8

PORCH

(2) 2 X 10

- (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 FACH 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 walks 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

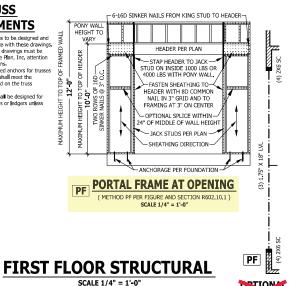
ROOF TRUSS REQUIREMENTS

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.



(3)SC **PF** PF (3)SC TYPICAL. ATTACH RAFTERS TO HEADER WITH HURRICANE CONNECTORS (SIMPSON (2) 1.75" X 11.875" LVL CONTINUIOUS H2.5 OR EQUIVALENT). ATTACH HEADER TO POST AND POST TO BASE WITH POST CRTIONAL CAP, METAL STRAPS, AND/OR POST BASE. SIDE LUAD

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SET

HEADER

AT TOP

PLATE

MASTER

BATH

BEDROOM #2

BATH

BEDROOM #3

(2) 2 X 10

2 JACKS EACH END

EXTENED TRUSSES WITH ELEVATION - A

(2) 2 X 10

PLACE BEAM OVER BEARING PROVIDED BY COLUMN(S) AND

FUR BEAM AS DESIRED

(2) SC

⊘‼

(2) SC

∠4 x 4 TREATED POST OR EQUIVALENT

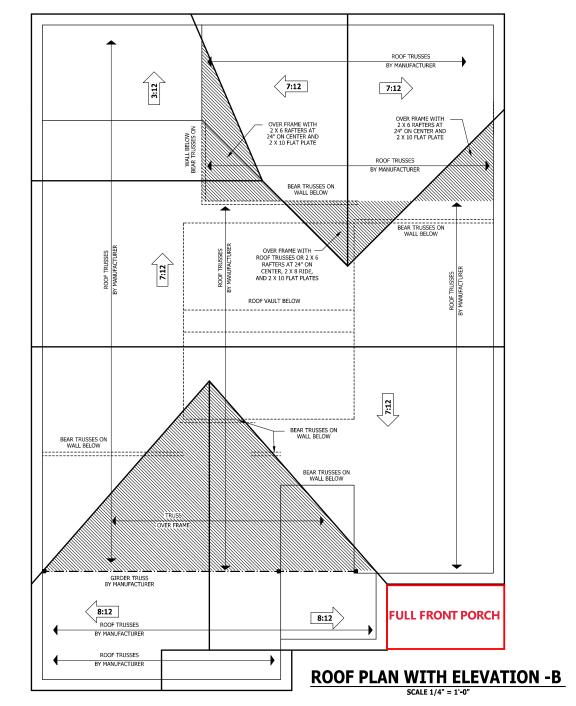
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STRUCTURAL 55 $\overline{}$ Lindsay FLOOR FIRST

SQUARE FOOTAGE UNHEATED UNHEATED OPTIONAL

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PAGE 4 OF 6



ROOF TRUSS REQUIREMENTS

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BEARING. All trusses shall be designed for bearing on SPF #2 plates or PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS HAYWES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES, PROCEDURES,

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ROOF PLAN WITH ELEVATION 1553

Lindsay

UNHEATED
GRANAGE 419 SO.FT.
FRONT PORCH 517 66 SQ.FT.
FRONT PORCH 517 66 SQ.FT.
FREAR PORCH 117 SQ.FT.
TOTAL 17 SQ.FT.
TOTAL 27 SQ.FT.
TOTAL 27 SQ.FT.

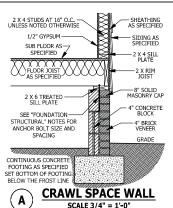
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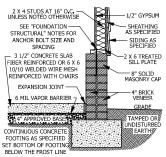
UNHEATED

1553 90 FT 1553 90 FT

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DECK STAIR NOTES

SECTION AM110

AM110.1 Stairs shall be constructed per Figure AM110. Stringer spans shall be no greater than 7 foot span between supports. Spacing between stringers shall be based upon decking material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step cut and back of stringer.

If used, suspended headers shall shall be attached with 3/8 inch galvanized bolts with nuts and washers to securely support stringers at the top.

DECK BRACING

SECTION AM109

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

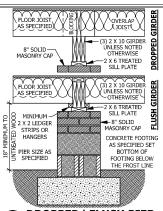
AM109.1.1. When the deck floor height is less than 4'-0" above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section. AM104, lateral bracing is not required. AM109.1.2. 4 x 4 wood knee braces may be provided on

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 hand with one 5/8 inch hot dinner vanized 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 ro	owing:			
POST SIZE	TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
4 X 4	48 SF	4'-0"	2'-6"	1'-0"
6 X 6	120 SF	6'-0"	3'-6"	1'-8"
*****	2		-1 to	ala a sanas

AM109.1.4. 2 x 6 diagonal vertical cross bracing r 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,



DROPPED/ FLUSH PIER В SCALE 3/4" = 1'-0"



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

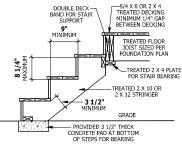


FIGURE AM110 TYPICAL DECK STAIR DETAIL

SHEATHING-

AS SPECIFIED

LATH

SEE FOUNDATION

FOR FOUNDATION

WEEP SCREED

SCALE 3/4" = 1'-0"

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

MINIMUM 4" TO

GROUND OR 2"

TO PAVEMENT

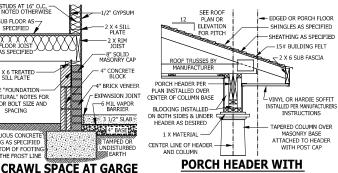
GRADE

WEEP SCREEDS

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

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.



PORCH HEADER WITH TAPERED COLUMN

SCALE 3/4" = 1'-0'

— 2 X 4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE SUB FLOOR AS ROWLOO CONCRET 8" SOLID -8" CONCRETE BLOCK F FILLED PORCH SECTION WITH VENT

SCALE 3/4" = 1'-0"

2 X 4 STUDS AT 16" O.C. -UNLESS NOTED OTHERWISE

SUB FLOOR AS-

SPECIFIED

AS SPECIFIED

2 X 6 TREATED SILL PLATE

SEE "FOUNDATION

STRUCTURAL" NOTES FOR

ANCHOR BOLT SIZE AND

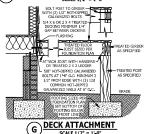
SPACING

CONTINUOUS CONCRETE

SET BOTTOM OF FOOTING

BELOW THE FROST LINE

FLOOR JOIST



SMOKE ALARMS

SECTION R314

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

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

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

In each sleeping room.
 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

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

P315 3 Alarm requirements. The required carbon monoyide 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

STAIRWAY NOTES

R311.7.2 Headroom. The minimum headroom in all parts of the stainway 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

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

minimum tread depth of 4 inches (102 mm) at any point. R311.7-4.3 Profile. The radius of curvature at the nosing shall be no greater than 9/16 inch (14 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid

R311.7.7 Handrails. Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers. R311.7.7.1 Height. 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).

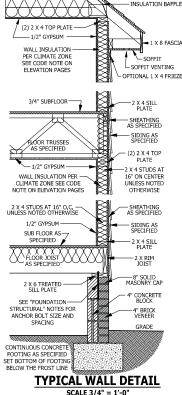
1. The use of a volute, turnout or starting easing shall be allowed over the

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

R311.7.7.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel nosts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the handrails.

Excentions 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

a lowed over the lowest tread 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

SHINGLES AS SPECIFIED

-15# BUILDING FELT

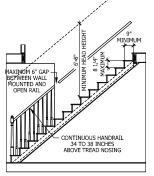
SHEATHING AS SPECIFIED

OR FLEVATIONS

ROOF INSULATION

PER CLIMATE ZONE

SEE CODE NOTE ON



TYPICAL STAIR DETAIL

UNHEATED INHEATED OPTIONAL

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PAGE 6 OF 6

SQUARE FOOTAGE 1553 SQ.FT

URCHASER MUST VERIFY ALL MENSIONS AND CONDITIONS FORE CONSTRUCTION BEGIN

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DETAIL

TYPICAL

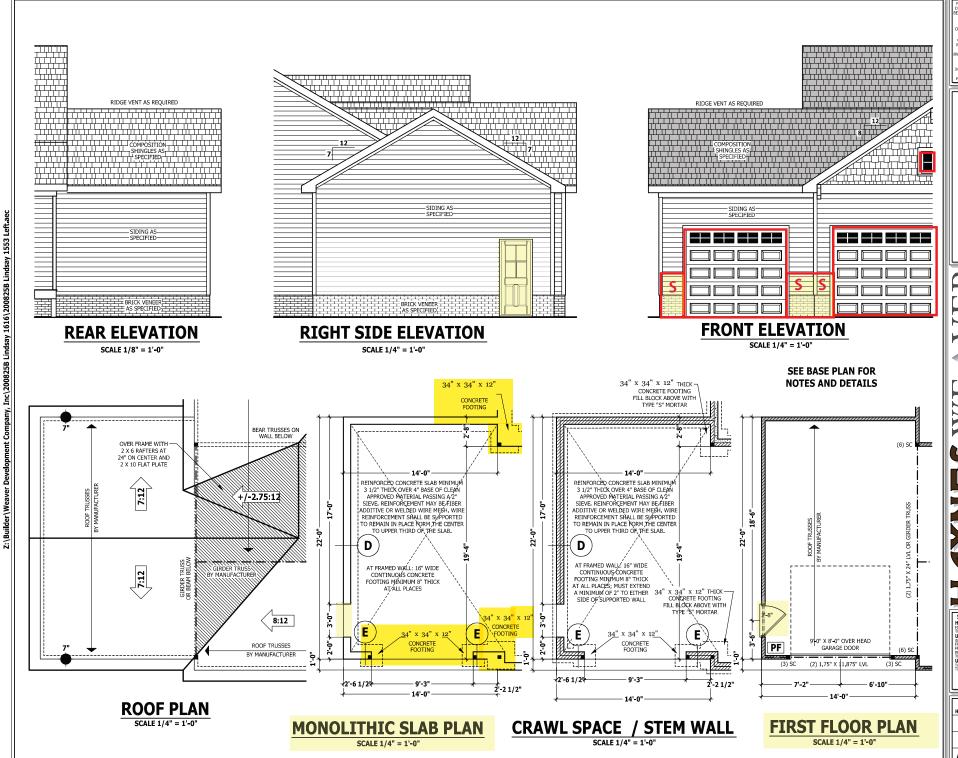
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Lindsay



PURCHASER MUST VERIFY ALL IMENSIONS AND CONDITIONS FORE CONSTRUCTION BEGINS

EFORE CONSTRUCTION BEGIN:
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BEFORE CONSTRUCTION.
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155 **FRONT LOAD THIRD** Lindsay

SQUARE FOOTAGE HEATED UNHEATED UNHEATED OPTIONAL THIRD GARAGE 292 SC

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9/28/2020 200505B

ADDENDUM

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

	HUS28	USP	15		16d/3-1/2	16d/3-1/2"
	THD28-2	USP	1	NA	16d/3-1/2"	10d/3"

Hatch Legend

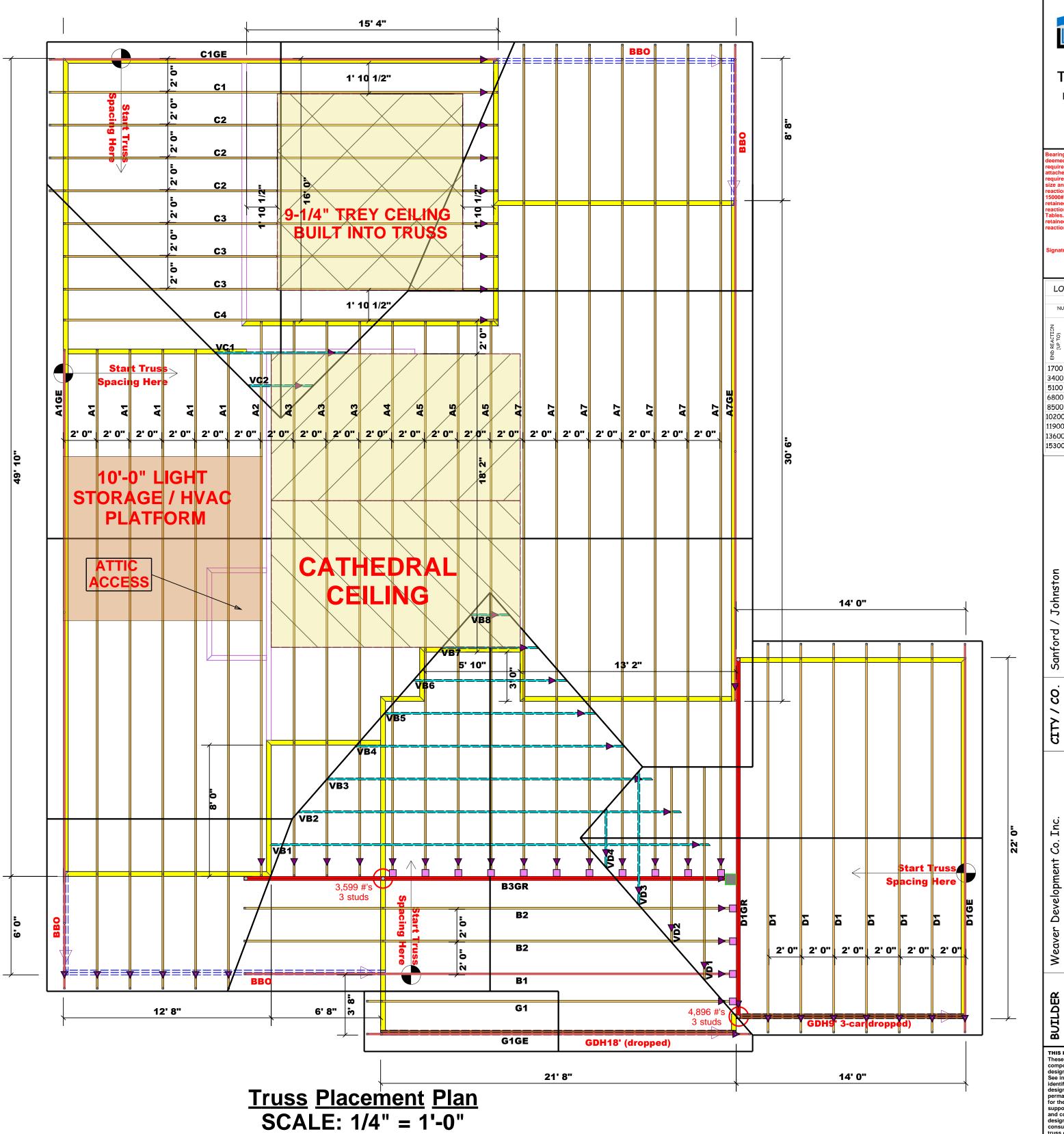
= MAIN LOAD BEARING WALLS @ 9-1-8

Estimation							
Name	Selection	Formula	Calculation				
Roof Area	1st Floor	Roof Area	3338.42				
Roof Decking	1st Floor	Roof Decking	115				

		BEAM LEGEND		
PlotID	Length	Product	Plies	Net Qty
GDH9' 3-car(dropped)	14-00-00	1-3/4"x 11-7/8" LVL Kerto-S	2	2
GDH18' (dropped)	22-00-00	1-3/4"x 14" LVL Kerto-S	2	2

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

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



COMTECH **ROOF & FLOOR TRUSSES & BEAMS**

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

Lenny Norris

Lenny Norris

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF

Sanford / Johnston Lenny Norris Lenny Norris DRAWN BY SALES REP. DATE REV. CITY / CO. Lindsay 1553 B/*FP/3*CG*

JOB NAME SEAL DATE QUOTE # BUILDER 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 THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

J0123-0240

Quote#



	HUS28	USP	15		16d/3-1/2	16d/3-1/2"
	THD28-2	USP	1	NA	16d/3-1/2"	10d/3"

Hatch Legend

= MAIN LOAD BEARING WALLS @ 9-1-8

	Estir	mation	
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	3338.42
Roof Decking	1st Floor	Roof Decking	115

		BEAM LEGEND			
PlotID	Length	Product	Plies	Net Qty	F
GDH9' 3-car(dropped)	14' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	F
GDH18' (dropped)	22' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FI

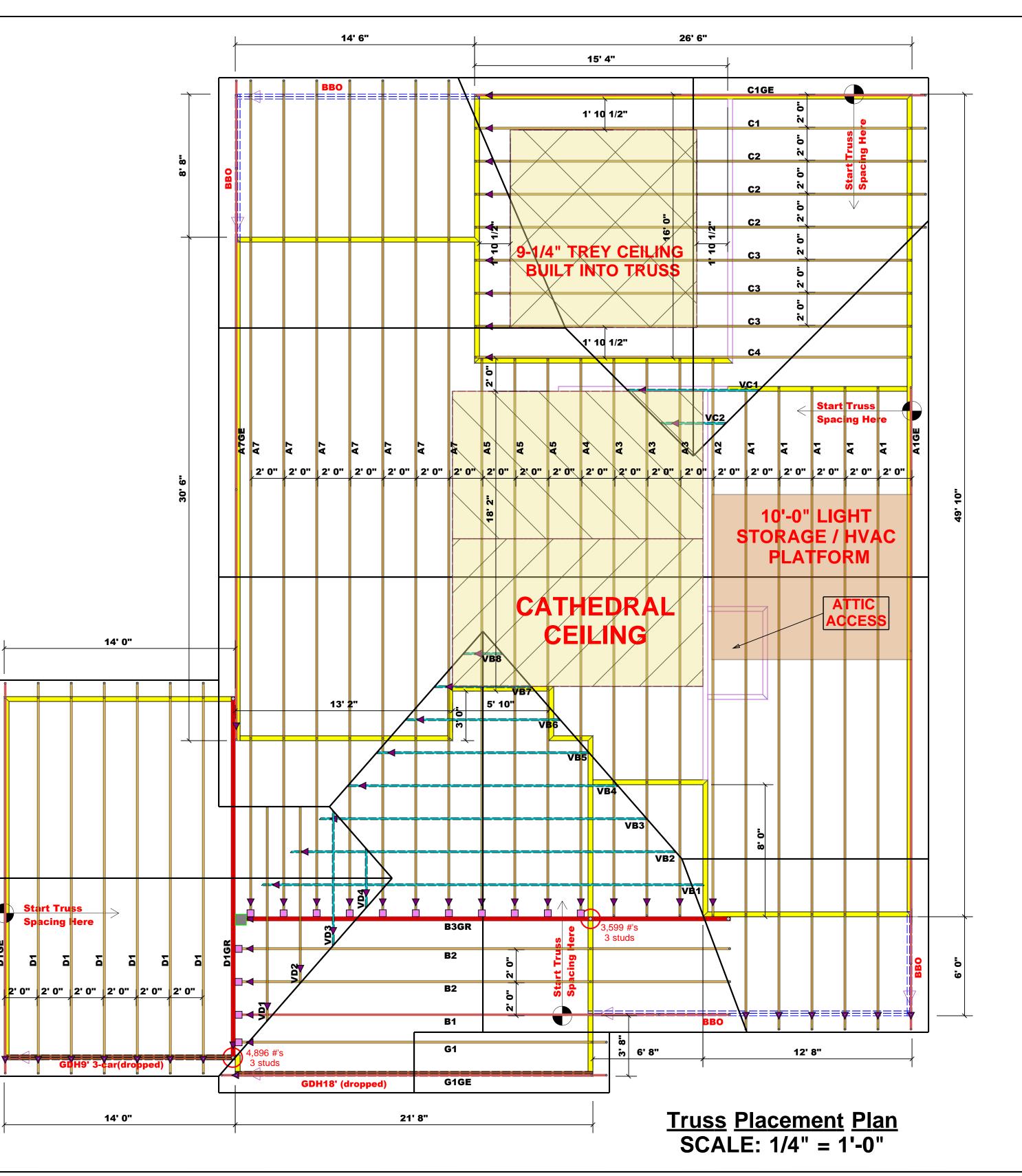
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

> Start Truss Spacing Here

2

D1GE

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





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

TRUSSES & BEAMS

reactions less than or equal to 3000# are to comply with the prescriptive Code ments. The contractor shall refer to the d Tables (derived from the prescriptive Conents) to determine the minimum foundar

Lenny Norris

Lenny Norris

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

NUM	MBER C	STUDS R		A END OF	
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR
1700	1	2550	1	3400	1
3400	2	5100	2	6800	1 2 3 4
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
0200	6	15300	6		
1900	7				
3600	8				
5300	9				

Co. Inc.	CITY / CO.	CITY / CO. Sanford / Johnston
9/	ADDRESS	Oleander Lane
92	MODEL	ROOF
	DATE REV. / /	//
	DRAWN BY	DRAWN BY Lenny Norris
	SALES REP.	SALES REP. Lenny Norris

Lot 33R West Preserve Lindsay 1553 B/*FP/3C Weaver Development (J0123-0240 Quote# JOB NAME SEAL DATE **QUOTE**# BUILDER THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building 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



Client: WEAVER

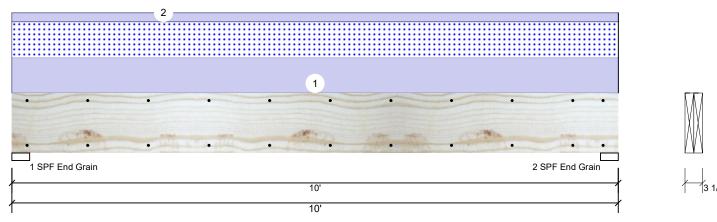
Project: Address: Date: 1/17/2023

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

Project #:

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

Level: Level



11 7/8'

Page 1 of 2

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: IBC/IRC 2015** 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

Analysis Results

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

Bearings

Bearing L	.ength	Dir.	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3. End Grain	.500"	Vert	26%	1511 / 1165	2676	L	D+S
2 - SPF 3. End Grain	.500"	Vert	26%	1511 / 1165	2676	L	D+S

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 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 Trib Width Side Dead 0.9 Load Type Location Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Uniform Тор 233 PLF 0 PLF 233 PLF 0 PLF 0 PLF D1 TRUSS 1 60 PLF 0 PLF 0 PLF 0 PLF FRAME DOWN WALL 2 Uniform qoT 0 PI F 9 PI F 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

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

Manufacturer Info

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



This design is valid until 11/3/2024

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Client: WEAVER

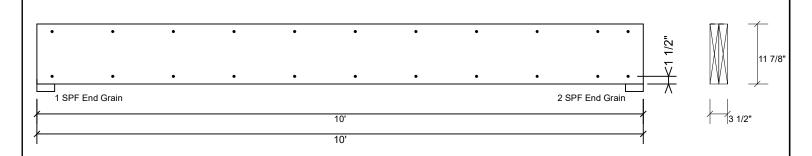
Project: Address: Date: 1/17/2023

Input by: Lenny Norris Job Name: LINDSEY B 3-CAR Page 2 of 2

Project #:

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

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

		•	,
Capacity	0.0 %		
Load	0.0 PLF		
Yield Limit per Foot	163.7 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination			
Duration Factor	1.00		

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

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. 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 11/3/2024

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Client: WEAVER

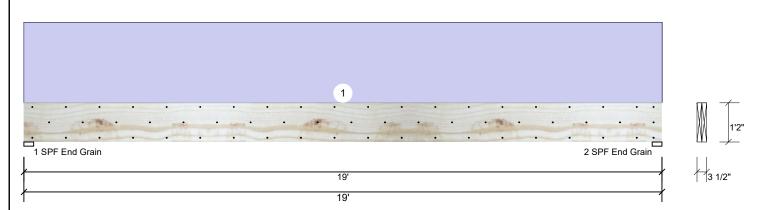
Project: Address: Date: 1/17/2023

Input by: Lenny Norris Job Name: LINDSEY B 3-CAR Page 1 of 2

Project #:

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

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 2003 0 0 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** O 2003 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. 2003 / 0 1 - SPF 3.500" Vert 19% 2003 Uniform D End Grain Analysis Results 19% 2 - SPF 3.500" Vert 2003 / 0 2003 Uniform D Comb. Analysis Actual Location Allowed Case Capacity End 9063 ft-lb 9'6" 24299 ft-lb Uniform Moment 0.373 (37%) D Grain Unbraced 9063 ft-lb 9'6" 9077 ft-lb 0.998 Uniform (100%)Shear 1709 lb 1'5 1/2" 9408 lb 0.182 (18%) D Uniform

Uniform

Design Notes

LL Defl inch 0.000 (L/999)

TL Defl inch 0.372 (L/599)

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

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

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

- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 12'3 3/4" o.c.
- 7 Bottom must be laterally braced at end bearings.

Self Weight

8 Lateral slenderness ratio based on single ply width.

		F-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	FRAME DOWN WALL & GABLE

11 PLF

Notes

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

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

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Manufacturer Info

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Client: WEAVER

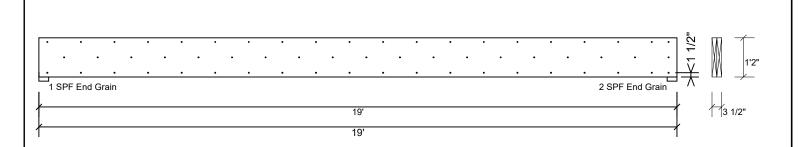
Project: Address: Date: 1/17/2023

Input by: Lenny Norris Job Name: LINDSEY B 3-CAR Page 2 of 2

Project #:

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

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

		,	,
Capacity	0.0 %		
Load	0.0 PLF		
Yield Limit per Foot	245.6 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination			
Duration Factor	1.00		

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

- Handling & Installation

 1. IVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

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