

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 30d	38 or 30cl	38 or 30cl	
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 INSHATION OF R-13 CAVITY INSHATION *** INSULATION DEPTH WITH MONOLITHIC SIAB 24" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING; INSULATION DEPTH WITH STEM WALL SIAB 24" OR TO BOTTOM OF FOUNDATION WALL

DESIGNED LOK MIN								
COMPONENT	& CLA	DDING	DESIG	NED FO	OR THE	FOLLO	WING	LOADS
MEAN ROOF	UP 1	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	H, 3 SEO	OND GLST	(101 FAS	TEST MILE	DPOS.	RE "8"
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	-23,5
ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21.3
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	-25.9

ROOF VENTILATION

Inc\200825B Lindsay 1616\200825B

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

R805.2 Minimum area. The total net free ventilating area shall not be less

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

1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2)

of ventilation may be vented with continuous soffit ventilation only. 2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit vent only

SOUARE FOOTAGE OF ROOF TO BE VENTED = 2.192 SO.FT NET FREE CROSS VENTUATION 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 SO.FT.

AIR LEAKAGE

N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier 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 an air barrier material or solid material consistent with Appendix F-2.4 of this code:

Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.

RAIL AS NEEDED

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

SCALE 1/6" = 1'-0" 12 RIDGE VENT AS REQUIRED RIDGE VENT AS REQUIRED COMPOSITION SHINGLES AS SPECIFIED SHINGLES AS SIDING AS SPECIFIED EHEEEEEE

FRONT - A WITH SIDE LOAD

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

SOUARE FOOTAGE HEATED

UNHEATED GARAGE FRONT PORCH FRONT PORCH EXT 419 SQ.FT. 103 SQ.FT. 66 SQ.FT. REAR PORCH TOTAL 117 SQ.FT. 705 SQ.FT. UNHEATED OPTIONAL THIRD GARAGE 292 SQ.FT. 292 SQ.FT.

RIDGE VENT AS REQUIRED 9'-0" WIDE FALSE COMPOSITION SHINGLES AS (3) 2'-0" X 3'-0" FIXED SPECIFIED WINDOWS OVER FRAMED ON TO MAIN ROOF SHAKE 1 X 8 SKIRT BOARD TOP OF PLATE -- 9'-11/2"-FLOOR PLATE FIRST SUB FLOOR BRICK VENEER AS SPECIFIED

FRONT ELEVATION - A

SCALE 1/4" = 1'-0"

GUARD RAIL NOTES

SECTION R312

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 quard.

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

Where the top of the guard also serves as a handrali 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 quards 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 mm) In diameter.

 Guards on the open sides of stairs shall not have openings which allow passage of a sphere 43/8 inches (111 mm) in diameter.

COMPOSITION SHINGLES AS SPECIFIED

RIDGE VENT AS REQUIRED

REAR ELEVATION

SCALE 1/8" = 1'-0' 12 RIDGE VENT AS REQUIRED RIDGE VENT AS REQUIRED COMPOSITION COMPOSITION SHINGLES AS SPECIFIED SHINGLES AS SPECIFIED SIDING AS SPECIFIED 12

RIGHT SIDE ELEVATION

HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR DINTRACTORS PRACTICES A PROCEDURES.

CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR NGINEER SHOULD BE CONSULTE BEFORE CONSTRUCTION.

THESE DRAWING ARE STRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN ROPERTY OF THE DESIGNER.

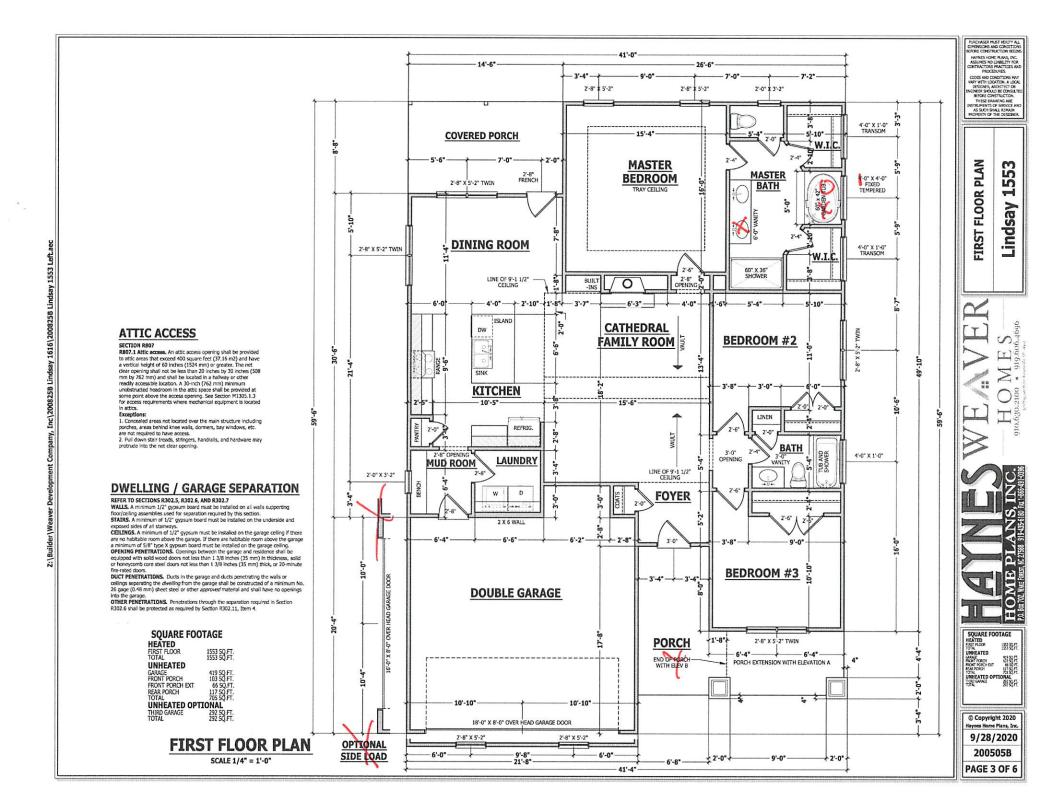
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SOUARE FOOTAGE 150 SOFT JNHEATED GARAGE FRONT PORCH FRONT PORCH EXT REAR PORCH UNHEATED OPTIONAL MINISTER OF THE STATE OF T

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PAGE 1 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 superside the code. JOB STIE PRACTICES AND SAFETY: Haynes Home Plans,

JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no lability 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	DEFLECT
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	1/360
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

FRAHING 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.

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ENGINEERED WOOD BEAMS

Laminated veneer Lumber (LVL) = Fb=2500 PSI, Fv=285 PSI, E=1.9x106 PSI Positile Strand Lumber (FSI) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand Lumber (LSI, Pb=2500 PSI, Fv=400 PSI, E=2.0x106 PSI Laminated strand Lumber (LSI, Pb=2250 PSI, Fv=400 PSI, E=1.53x106 PSI Install all connections per manufactures instructions.

TRUSS AND 1-JOIST MEMBERS: All moft truss and 1-joist projects shall be prepared in accordance with this document. Trusses and 1-joists shall be installed according to the manufactures specifications. Any change in truss or 1-joist layout shall be coordinated with Haynes Homes Plans, Inc. LINTELS: Bitch include shall be 31/2" 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" sele 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" boths at 2-0" on center for spans up to 19-0" 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 16" on center joist spacing, and minimum 3/4" thick for 19-2" on center plots spacing, and minimum 3/4" thick for 2-10" on center joist spacing, and minimum 3/4" thick for 2-10" on center joist spacing, and minimum 3/4" thick for 2-10" on center joist spacing, and minimum 3/4" thick for 2-10" on center joist spacing, and minimum 3/4" thick for 2-4" 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' 3'-4' 4'-8' 8'-12' 12'-16'

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.

GTPSUM: 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-SF contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. MB: 800 list hold down hold down device fistened to the edge

HD: 800 lbs hold down hold down device fastened to the edg 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 86/2 1/2" long x 0.113" diameter). CS-SPB: 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 moring

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 nalls or 46 screws.

PF: Portal fame per figure R602.10.1

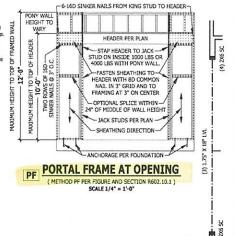
ROOF TRUSS REQUIREMENTS

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

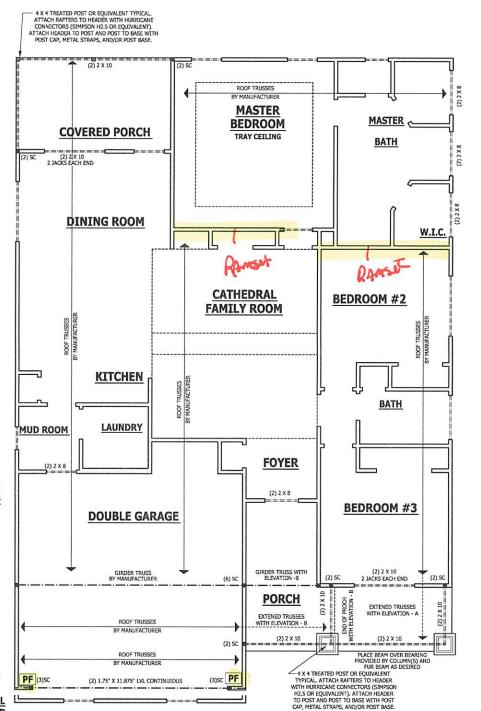
ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics.

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



FIRST FLOOR STRUCTURAL
SCALE 1/4" = 1'-0"

OPTIONAL SIDE LOAD



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

PROCEDURES.

CODES AND CONDITIONS MAY
WARY WITH LOCATION. A LOCA
DESIGNER, ARCHITECT OR
NGINEER SHOULD BE CONSULT.
BEFORE CONSTRUCTION.

Notices should be consulted before construction. These drawing are instruments of service and as such shall remain property of the designer.

FIRST FLOOR STRUCTURAL Lindsay 1553

WERVER HOMES

HETTINES INC.

SQUARE FOOTAGE
HEATED
FIST FLOOR

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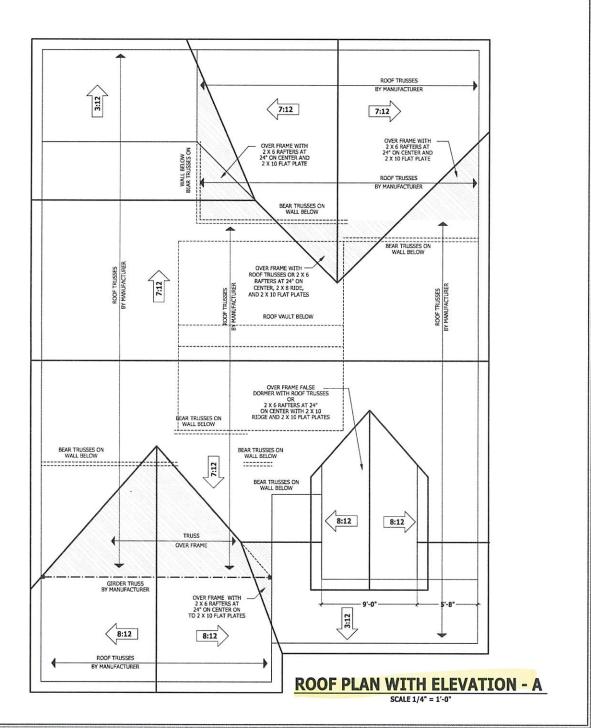
PAGE 4 OF 6

ROOF TRUSS REQUIREMENTS

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

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

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



PURCHASER MUST VERCEY ALL DIMENSIONS AND CONDITIONS REFORE CONSTRUCTION REGINS HAVIES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES.

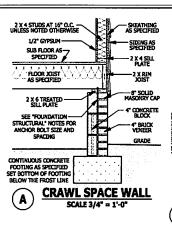
PROCEDURES.
CODES AND CONDITIONS MAY
VARY WITH LOCATION, A LOCAL
BESIGNER, AND OFFICE OR
BETORE CONSTRUCTION.
THESE PRANTING AND
DISTRIMENTS OF SERVICE AND
AS SUCH SHALL REMAIN
PROPERTY OF THE DESIGNER.

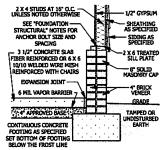
ROOF PLAN WITH ELEVATION 55 -Lindsay

SQUARE FOOTAGE
HEATED
FOR TACOR
UNHEATED
GOARD
FOR TORON

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GARAGE STEM WALL D SCALE 3/4" = 1'-0"

DECK STAIR NOTES

AM110.1 States shall be constructed per Floure AM110. Stringer spans shall be no greater than 7 foot span between supports. Specing between stringers shall be based upon docking material used per AM107.1. Each Stringer shall have occuring misicinal used per AMILVIII. Each Scringer shall have minimum 3 1/2 lindhes between step out and back of stringe If used, suspended headers shall shall be attached with 3/8 linch galvanized botts with nuts and washers to securely

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.

AMID9.1.1. When the dock floor height is less than 4'-0" above finished grade per Figure AM109 and the deck is attrached to the structure to accordance with Section AM104, lateral bracing is not required.

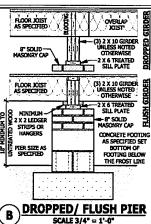
AM109.1.2. 4 x 4 wood knee braces may be provided on

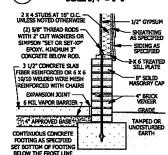
each column in both directions. The knee boxors shall each column in both directions. The knee praces snaw struch to each post at a point not less than 1/3 of the post longth from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the hortzontal. Knee braces shall be botted to the post and the protection. Write diseases shall be botton to the protection of girder/double band with one S/B inch hot dipped galvanized both with nut and washer at both ends of the brace nor Floure AM109 1

AM109.1.3. For freestanding decks without knee braces or diagonal bracing, interest stability may be provided by embedding the post in accordance with Figure AH109.2

and the fo	Agwing:								
POST	TREBUTARY	MAX. POST	DIREDKENT	250 212 212 212 212 212 212 212 212 212 21					
444	4R SE	A'-O*	25.60	150"					
6×6	120 SF	6-0	3-6*	1'-8"					
AMERICA A 3 v 6 diseases) were builton assess burners are a									

AM109.1.4. 2 x 6 diagonal vertical cross bracin 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 S/8 (nch hot dioped galvanized bolt with nut and washer at each end of each bracing member per Figure AM109.3. AM109.1.5. For embedment of piles in Coastal Regions.





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

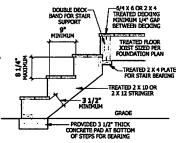


FIGURE AM110 TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

VEED SCREED

GROUND OR 2°

GRADE

SHEATHING -

LATH

SEE POUNDATION

FOR FOUNDATION

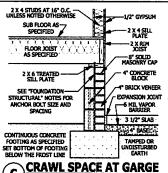
WEEP SCREED

SCALE 3/4" = 1'-0"

WEEP SCREEDS

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

9703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 25 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.



SCALE 3/4" = 1'-0" -SX4STERAT IS OC. -2 X 4 SOLE PLATE SUB PLOOP AS DPDCDP300 CORLED MAIX FOR SAMPLETON 3 L/2" CONCRETE SLAB STRUCTURAL HOTES FOR ANCHOR BOLT SIZE AND SPACING CONCRET 2 X 6 TREATE ...C. - 8 X 18 VDIT r congr CAUCE

FILLED PORCH SECTION WITH VENT V4X6 OR 2X4 TREATED DECORNS HEIGHEN LIFE GAP RETWEEN DECORNS TTACH JOIST WITH HANGE OR TREATED 2 X 2 LEDGER SAS HOT-DEPTO GREWINGTON BEATS AT 1"4" OF HIGHER I 1/1" MON EDGE WITH (B) 126 CONNECTED MALES AT 8" OF GREWINGTON MALES AT 8" OF CRACE **DECK ATTACHMENT**

SMOKE ALARMS

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

one provisions of the 2014.

REJA-13 Bandan distantion systems. However, the watering conjugation of HPPA 72.

REJA-13 Bandan distantion systems. However, the state of systems installed in socionizen with HPPA 72 that include smalar elatims, or a combination of smaller allocation and such confidencial evidence in the state of similar confidencial evidence in the state allocation and series in systems stad provide the same level of smaller detaction and series are required by this section for smalar districts. Where a household the versions gration is installed using a combination of smalar districts and authorized and authorized the state of smalar districts. device(s), it shall become a permanent fluture of the occupancy and owned by the homeoweer. The system shall be monthyred by an supervising station and be maintained in accorda

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 becomenia and habitable either (firefund) but not including orani spaces, unstablished instantiation and unstablished but materialization (including or dwelling units with spit levels and without an intervaling door between the adjuscent levels, as make alarm instanted on the upper level shall suffice for the adjuscent levels, as make alarm instanted on the upper level shall suffice for the adjuscent levels are on the discovery of the control of the control of the time to the is less than one of all story one of all story one on the story of the control of the control is less than one of all story one of the story of the control of the control of the control is less than one of all story one of the story of the control of

lower nevel provision and the lower sever is less than one has sony below the upper level.
When more than one smoke alarm is required to be installed within a Individual dwalling unit the slam devices shall be interconnected in such a manner that the adjustion of one elarm will activate all of the alores in the include al unit

one assemts in the inchrocust later. RETAM Power source. Similar alarms shall receive their primary power from the building wiring winten such wiring its served from a commercial source, and when primary power is interrupted, shall receive power from a battern, Wiring shall be permanent and without a disconnecting winter nother than those regulard for overcurrent protection. Smoke olients shall be interconnected.

SEE ROOF - EDGED OR PORCH PLOOR 12 T ELEVATION SHINGLES AS SPECIFIED SHEATHING AS SPECIFIED _ 15¢ RIUIDING FFI T - 2 X 6 SUB FASCIA ROOF TRUSSES BY PORCH HEADER PER -PLAN INSTALLED OVER CENTER OF COLUMN BASE VINVI OR HARDIF SOFFIT INSTALLED PER MANUFACTURERS BLOCKING INSTALLED~ INSTRUCTIONS ON BOTH SIDES & UNDER **HEADER AS DESIRED** TAPERED COLUMN OVER MASONRY BASE ATTACHED TO HEADER 1 X MATERIAL CENTER LINE OF HEADER WITH POST CAP AND COLUMN

PORCH HEADER WITH TAPERED COLUMN

SCALE 3/4" = 1'-0"

CARBON MONOXIDE ALARMS

R315.1 Carbon monocide alarma. In new construction, dwelling units shall be provided with an approved earbon monocide alarm installed autiside of each separate sleeping area in the immediate vicinity of the bodroom(s) as directed

R315.2 Where required in existing dwellings, in existing dwellings, where intentor attentions, repairs, fuel-fired appliance replacements, or additions requiring a permit occurs, or where one or more sleeping rooms are added or created, carbon monocide alarms shall be provided in accordance with Section

315.1. Shem requirements. The required carbon monoxide alarms shall be audite in all bodrooms over bedground note levels with all interveiling doors closed. Single station carbon monotide elairns shall be institute comprising with UL 2014 and shall be installed in accordance with this code and the manufactures' installation instructions.

STAIRWAY NOTES

P311 7

R311.7.2 Headroom. The minimum hosdroom in all parts of the stairway shall not be less than 6 feet 8 inches (2002 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.

8311.74 Stair treads and risons. Stair treads and riscrs 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 Right height. The maximum risor height shall be 314 inches (210 mm). The risor shall be measured vertically between leading edges of the adjacent treads.

the adjacent treads. RR31.3.7.4.2 These depth. The minimum tread depth shall be 9 inches (229 mm). The broad depth shall be measured instructually between the vertical points of the foremast, projection of ediptions; depth of shall be red and at a right single to the tread's loading edge. While to tread shall have a minimum tread depth of 9 facting (229 mm) minimum data above at a point 12 inches (205 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. RESILEA Profile. The racks of curvature at the nosing shall be no greater than 9/16 inch (14 mm). A nosing not less than 3/16 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 treeds or flight with flour or more risers.

RS3.L.7.1. Relight. Handrad height, messured vertically from the sloped plane adjoining the treed nosting, or flinks 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 braid.

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

3.11.7.7.1.2 Continuity, thendratis for subarveys shall be continuous for the fall length of the flight, from a point directly above the top riser of the flight to a point directly above the top riser of the flight to a point directly above the top riser of the flight to a point directly above the top riser of the flight to a point directly above the top riser of the flight to a point directly above the top riser of the flight. Handrall rolls shall be returned or shall be minimate in newled posts or staffly turnished. Handrall shall result and the returned or the shall be minimate in newled posts or staffly turnished. Handrall results are the results of the shall be returned or the shall be minimate in newled posts or staffly turnished. Handrall results are the shall result and the results of the shall results and the results of the shall results and the results of the shall result and the shall result and the results of the shall results and the results of the shall result and the results and the shall result and the results are shall results and the shall result and the shall results and the shall results and the shall results are shall results and the shall result and the shall results are shall result and the shall results and the

ediacont to a wall shall have a space of not less than 11/2 inch (38 mm)

Handrest shall be permitted to be interrupted by a newel post.
 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 handral and a guardrall/handrall, the wall-mounted rail must return into the wall.

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

MAXIMIM 6" CAS CONTINUOUS HANDRAIL 34 TO 38 INCHES ABOVE TREAD NOSING

TYPICAL STAIR DETAIL

SCALE 1/4" = 1'-0"

SCALE 3/4" = 1'-0"

PURCHASIR MUST VEICTY ALL CONDISIONS AND CONDITIONS HAYNES HONE FLANS, INC. CODES AND CONDITIONS HA THESE DRAWING ARE RUMONTS OF SERVICE AS SLICH SHALL REMAIN PROPURTY OF THE DESIGNAL

DETAILS 55 -Say

Lind

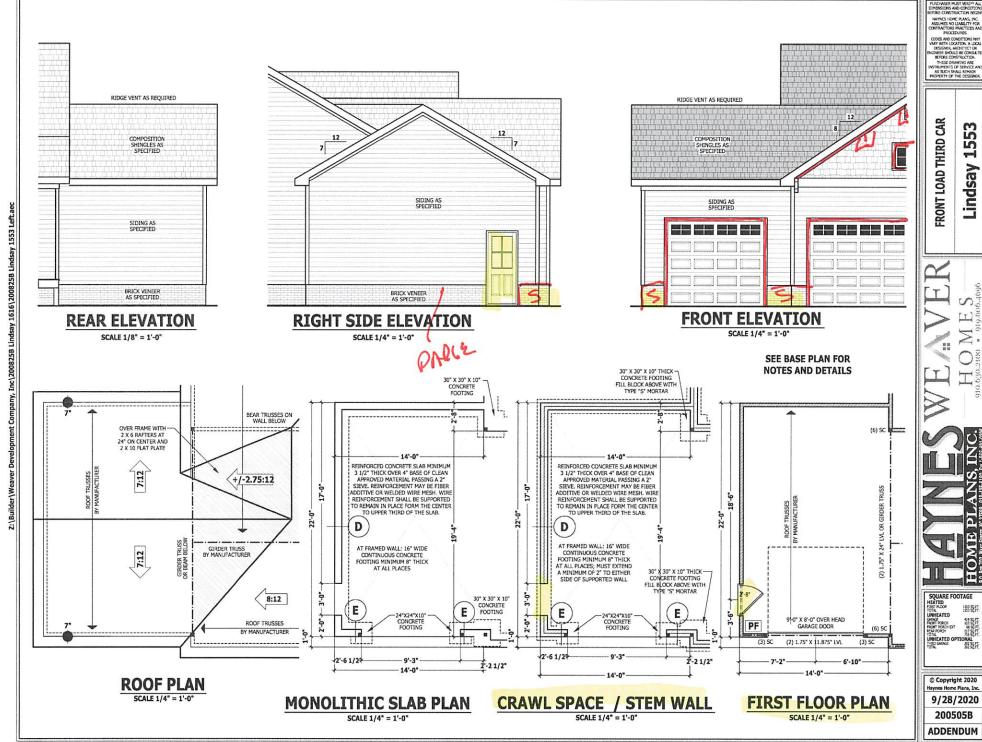
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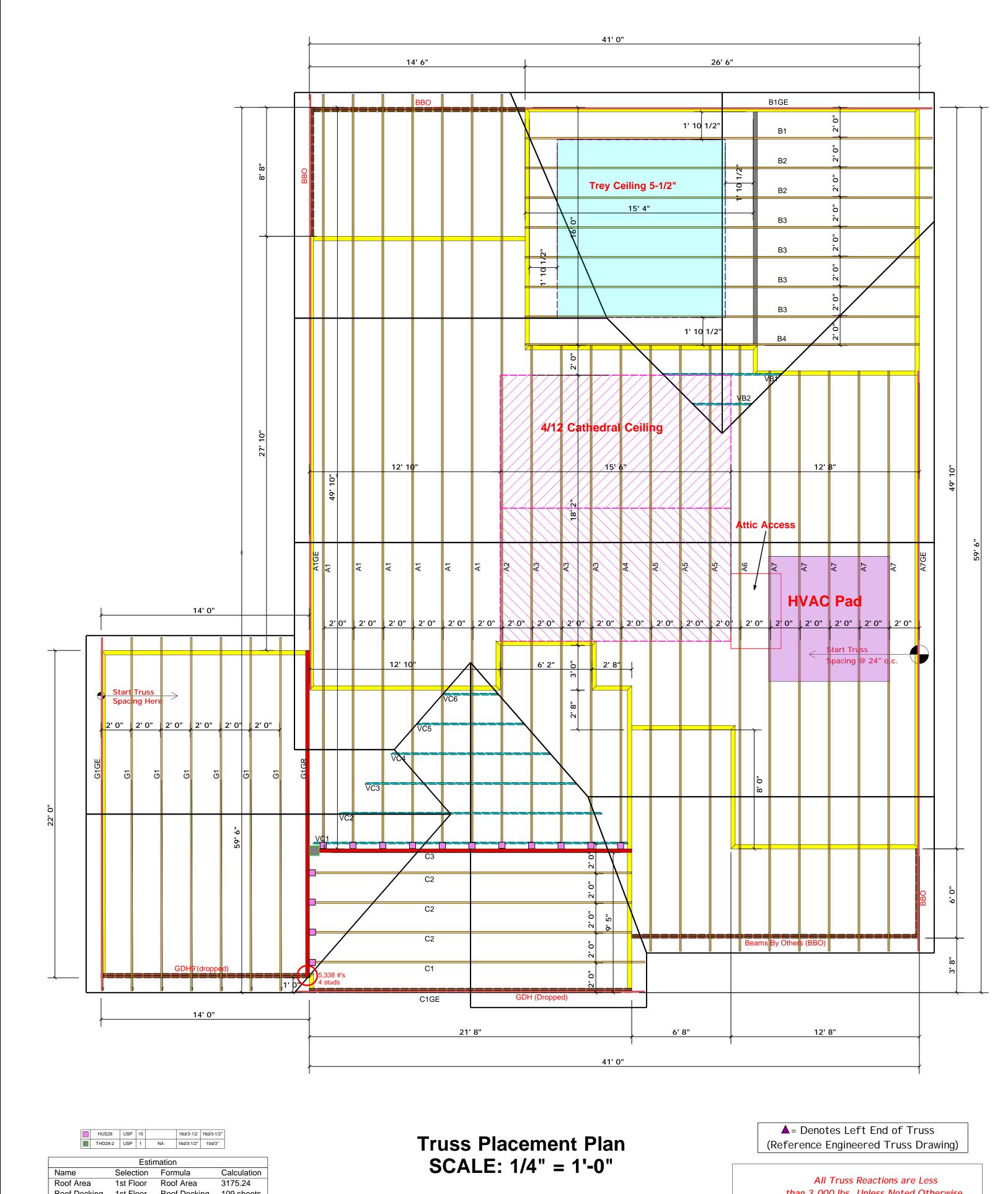
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PAGE 6 OF 6





Roof Decking 1st Floor Roof Decking 109 sheets

BEAM LEGEND								
PlotID	Length	Product	Plies	Net Qty				
GDH9'(dropped)	14' 0"	1.75 X 9.25 Kerto-S LVL 2.0E	2	2				
GDH (Dropped)	22' 0"	1-3/4"x 14" LVL Kerto-S	2	2				

JOB #

J0520-2115

8500 5 10200 6 11900 7 13600 8

15300 9

than 3,000 lbs. Unless Noted Otherwise.

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

	дын (ыгорреа)	22 0	1-3/4 X 14 LVL	Kertu-3 Z Z			
	LOAD CHART FOR JACK STUDS (0.45% ON 14025 85025() 3-0) MANUS OF JACK STUDS SCOTISTO & CA COS OF		BUILDER	Weaver Development Co. Inc.	CITY / CO.	Harnett Co. / Harnet	THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components the building design at the specification of the building designes sheets for each truss design identified on the placement drawing
	FEADER/FORER Z	z (2 a	JOB NAME	Lot 21 Mitchell Manor	ADDRESS	Lot 21 Mitchell Manor	is responsible for temporary and permanent bracing of the roof the overall structure. The design of the truss support structure is walls, and columns is the responsibility of the building designer regarding bracing, consult BCSI-B1 and BCSI-B3 provided with t
	DETAINS ON THE CONTROL OF THE CONTRO	- 2	PLAN	Lindsay 1553 A (200505B)	MODEL	Roof	or online @ sbcindustry.com Bearing reactions less than or equal to 3000# are deemed prescriptive Code requirements. The contractor shall refer
3 5	700 1 2550 1 400 2 5100 2 100 3 7650 3	3400 1 6600 2 10200 3	SEAL DATE	Seal Date	DATE REV.	5/27/2020	(derived from the prescriptive Code requirements) to det foundation size and number of wood studs required to sup than 3000# but not greater than 15000#. A registered desig be retained to design the support system for any reaction
8 10	800 4 10200 4 800 5 12750 5 0200 6 15300 6	13600 4 17000 5	QUOTE #		DRAWN BY	Lenny Norris	specified in the attached Tables. A registered design profe retained to design the support system for all reactions that Lenny Norr
11	1900 7						Signature

SALES REP. Lenny Norris

S IS A TRUSS PLACEMENT DIAGRAM ONLY.
se trusses are designed as individual building components to be incorporated into building design at the specification of the building designer. See individual design its for each truss design identified on the placement drawing. The building designer sponsible for temporary and permanent bracing of the roof and floor system and for overall structure. The design of the truss support structure including headers, beams, and columns is the responsibility of the building designer. For general guidance raing bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package thine @ sbcindustry.com

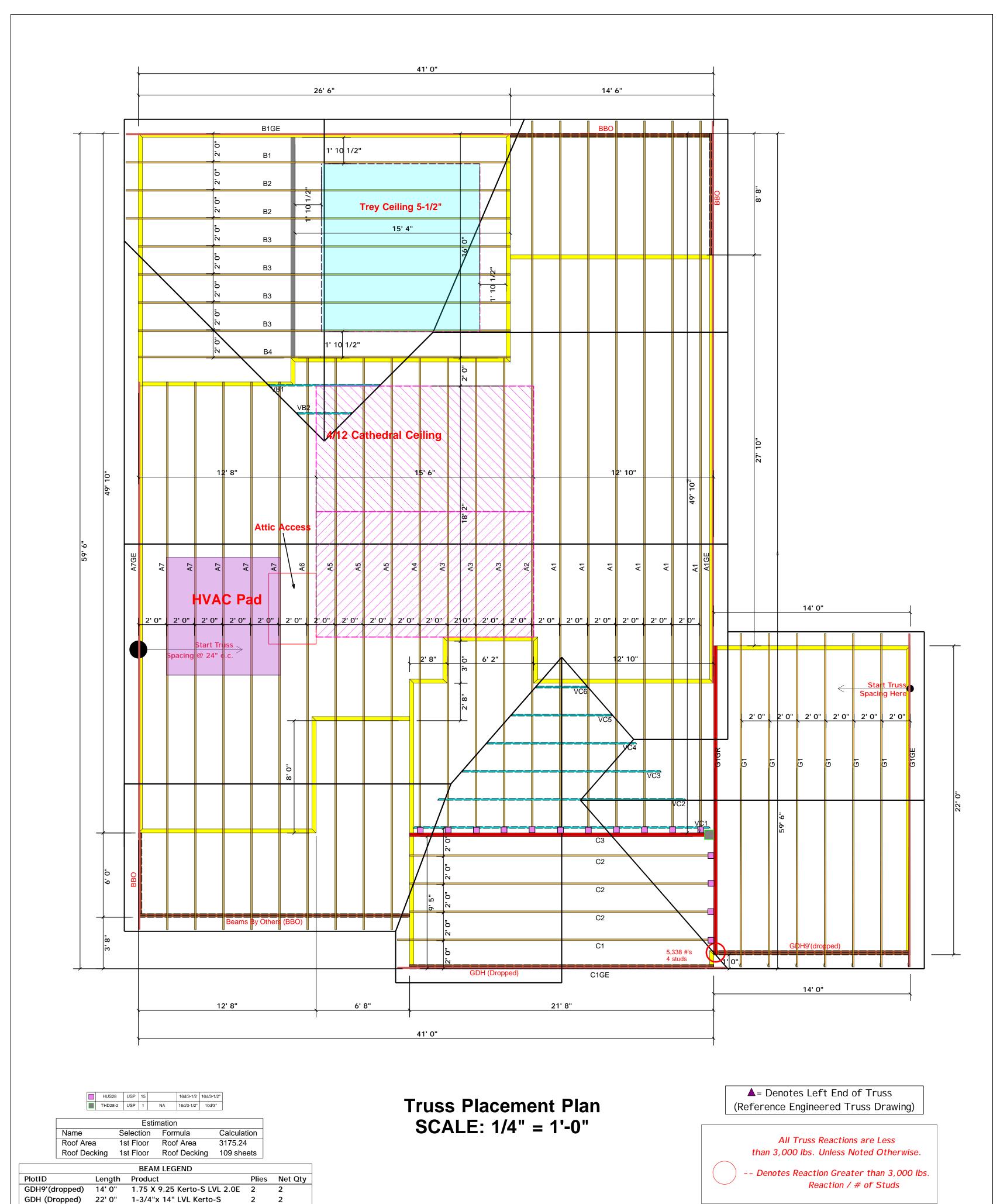
Lenny Norris

Lenny Norris

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

соттесн

ROOF & FLOOR



LOAD CHART FOR JACK STUDS BUILDER (BASEN ON LABLES R502.5(1) λ (b)): NUMBER OF DIAGRAPHICS REQUIREDS IN CALCAD OF PROCESSORS. (U* TO)
(U* TO)
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(U* TO) PLAN 1700 1 3400 2 3400 2550 1 5100 2 6800 2 5100 3 7650 3 10200 3 6800 4 8500 5 10200 6 11900 7 13600 8 10200 4 13600 4

17000 5

12750 5

15300 6

15300 9

CITY / CO. Weaver Development Co. Inc. Harnett Co. / Harnet JOB NAME Lot 21 Mitchell Manor **ADDRESS** Lot 21 Mitchell Manor Lindsay 1553 A (200505B) MODEL Roof 5/27/2020 **SEAL DATE** Seal Date DATE REV. QUOTE # DRAWN BY Lenny Norris JOB # J0520-2115 SALES REP. Lenny Norris

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

Lenny Norris

Lenny Norris

соттесн **ROOF & FLOOR TRUSSES & BEAMS**

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

isDesign

Client: WEAVER

Project: Address: Date: 12/18/2020

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

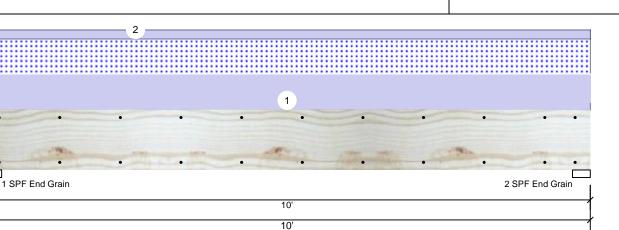
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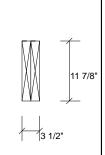
Project #:

Kerto-S LVL GDH9'

1.750" X 11.875"

2-Ply - PASSED





Page 1 of 1

Member Information									
Type:	Girder								
Plies:	2								
Moisture Condition:	Dry								
Deflection LL:	480								
Deflection TL:	360								
Importance:	Normal								
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 Live Dead Wind Const Snow 0 1511 1165 0 0 1 0 1165 0 0 2 1511

Bearings

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

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	2024 lb	1'2 5/8"	10197 lb	0.198 (20%)	D+S	L
LL Defl inch	0.052 (L/2209)	5'	0.239 (L/480)	0.220 (22%)	S	L
TL Defl inch	0.119 (L/962)	5'	0.318 (L/360)	0.370 (37%)	D+S	L

Design Notes

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

I. LVL beams must not be out or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

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





isDesign

Client: WEAVER

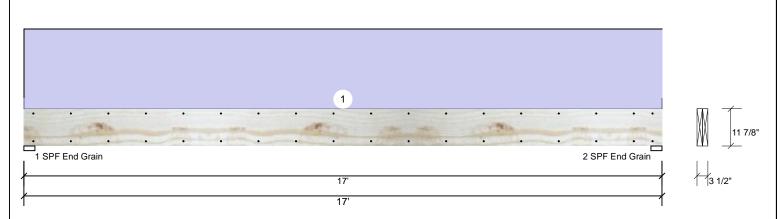
Project: Address: Date: 12/18/2020

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

Project #:

2-Ply - PASSED **Kerto-S LVL** 1.750" X 11.875" **GDH16'**

Level: Level



Member In	formation						Reactions UNPATTERNED lb (Uplift)						
Type:	Girder		Applicat	ion: FI	loor		Brg	Live	Dea	d Snow		Wind	Const
Plies:	2		Design I	Method: A	SD		1	0	220	4 0		0	0
Moisture Con	dition: Dry		Building	Code: IB	3C/IRC 2015		2	0	220	4 0		0	0
Deflection LL:	480		Load Sh	aring: N	0								
Deflection TL:	360		Deck:	N	ot Checked								
Importance:	Normal												
Temperature:	Temp <= 10	0°F					Bearings	S					
							Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
							End	3.500"	21%	2204 / 0	2204	Uniform	D
Analysis Re	sults						Grain						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - SPF	3.500"	21%	2204 / 0	2204	Uniform	D
Moment	8867 ft-lb	8'6"	17919 ft-lb	0.495 (49%)) D	Uniform	End Grain						
Unbraced	8867 ft-lb	8'6"	8882 ft-lb	0.998 (100%)	D	Uniform							
Shear	1888 lb	1'2 5/8"	7980 lb	0.237 (24%)) D	Uniform	1						

Design Notes

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

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

8'6 1/16" 0.551 (L/360) 0.860 (86%) D

- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 10'5 5/8" o.c.
- 6 Bottom braced at bearings.

LL Defl inch 0.000 (L/999)

TL Defl inch 0.472 (L/421)

7 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	250 PLF	0 PLF	0 PLF	0 PLF	0 PLF	GABLE END & WALL WEIGHT
İ	Self Weight				9 PLF					

Uniform

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

 1. UVI beams must not be out 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

Handling & Installation

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

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This design is valid until 2/26/2023