

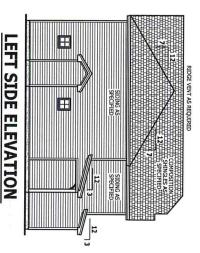
SCALE 1/8" = 1'-0"

REAR ELEVATION

SCALE 1/8" = 1'-0"



03/30/2020





QUARE FOOTAGE OF ROOF TO BE VENTED = 1,321 SQ.FT.

NET FREE CROSS VENTILATION NEEDED: WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 8.81 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 = 4.40 SQ.FT.

ROOF VENTILATION MED MEAN ROOF HEIGHT 25'-0"

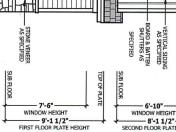
SPECIFIED SPECIFIED

22 Minimum area. The total not free ventilating area shall not be less 1/15 of the area of the space ventilated crossit that includes of the area to 1/280 is portified provided that at least 50 percent and not than 80 percent of the registerior ventilating area is provided by than 80 percent of the registerior ventilating area is provided at least (1914 mm). Earn the team of comince ventilating area to be remissed at least (1914 mm). Earn the team of comince ventilating the least consequently provided by years or comince ventilation area may be reduced to 1/200 when a class 1 or 11 or consequently area of the summir-reviewed seed of the conflicts of ventilation area may be reduced to 1/200 when a class 1 or 11 or debutfor it installation the summir-reviewed seed of the conflicts.

ad attic/rafter spaces requiring less than 1 square foot (0.0929 m2) too may be vented with continuous soffit ventilation only. Sold attic/rafter spaces over unconditioned space may be vented with its soffit vent only.

GUARD RAIL NOTES FRONT ELEVATION - B SCALE 1/4" = 1'-0"





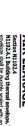
PLANS DESIGNED TO THE 2012 NORTH CAROLINA STATE

ESIDENTIAL BUILDING CODE

Capping and sealing shafts o Capping and sealing soffit or

ms and under knee wall

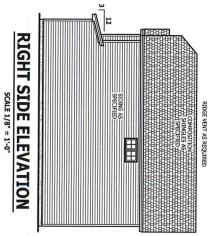
TOP OF PLATE



AIR LEAKAGE

angular openings at the open side of a stair, formed by the riser, tread and bottom rail of a guard, shall not allow of a spice of inches (13 mm) In diameter s on the open sides of stairs shall not have openings which allow passage of a spicere 43/8 inches (111 mm) in **Ppening limitations**, Required *guards* shall not have openings from the walking surface to the required *guard* lich allow passage of a sphere 4 inches (102 mm)in dameter.

open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line aading edges of the treads. guard also serves as a handrail on the open sides of stairs, the top of the guard shall not be not 4 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the



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Construction

FRONT ELEVATION - B

- BOARD & BATTEN SHUTTERS AS AS SPECIFIED

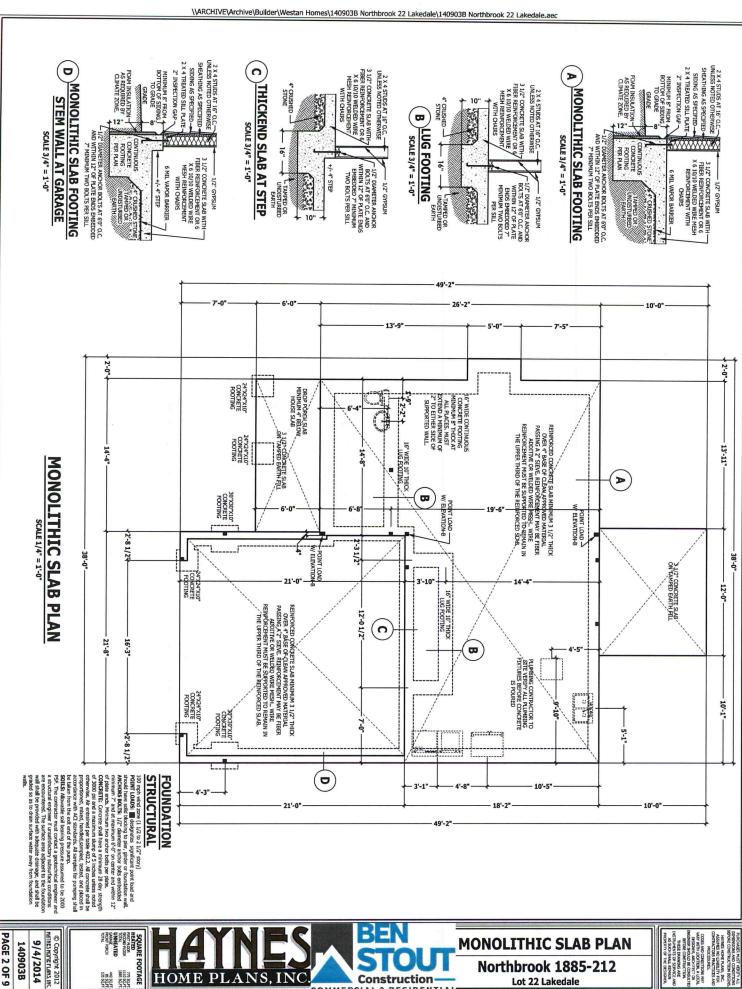
Northbrook 1885-212 Lot 22 Lakedale

5-491-0396 COMMERCIAL & RESIDENTIAL

SQUARE FOOTAGE
HEATED
FIRST FLOOR
SECOND FLOOR
TOTAL
T

775 SQ.FT. 1110 SQ.FT. 1885 SQ.FT.

UNHEATED
GARAGE
FRONT PORCH
TOTAL



PAGE 2 OF 9

SQUARE FOOTAGE
HEATED
HEST ROOR
SECON ROOR
110 SQLF.
HONGAU
UNHEATED
GENERAL
HEATE BE SQLF.
HEAT



ROOF TRUSS REQUIREMENTS

thall meet the requirements as specified on the truss schemables.

**EARING. All trusses shall be designed for bearing on SPF #2 plates or stopper unless noted otherwise. struction begins.
y reason the truss
I heel heights, finished
wn on these drawings the
ncy must be brought to
a solution can be reached
these conditions not
utacturer.

EXTERIOR WINDOWS AND DOORS ON R612 I General. This section prescribes performance and construction I General. This section prescribes performance and construction wild. Windows and doors installed in walls. Windows and doors installed in walls. Windows and doors installed in walls.

lows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass the opening when the opening is in its largest opened position. Sings that are provided with window fall prevention devices that comply with Section Window sills. In dwelling units, where the opening of an operable window is more than 7.2 riches (1829 mm) above the finished gode or surface below, the part of the clare opening of the window shall be a minimum of 24 richer's (610 mm) for finished floor of the comin which the window is located. Operable sections of seal and to perning opening but all lower points of a rich (10, mm) dameter sphere ones. or openings shall be flashed in accordance with Section R703.8. Written uctions shall be provided by the fenestration manufacturer for each window

DWELLING / GARAGE SEPARATION

COVERED PORCH

DOUBLE GARAGE

2'-4" X 3'-10"

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

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

Openings that are provided with fall prevention devices that comply with ASTM F 2090.
 It inflores that can provided with opening limiting devices that comply with Section RELLA,
 Inflores that the provided with opening limiting devices that comply with Section RELLA,
 Inflores fall prevention devices, "Window fall prevention devices and window paints, where provided, shall comply with the requirements of ASTM F 2090.

HALF

FOYER

Fourchain assembles used for expansion required by this section.

STAIRS. A minimum of 1/2 opposition became the incidence and exposed sides of all dataways.

CELLINGS. A minimum of 1/2 opposition board must be incidend on the parage calling if there are no state of the parage. The parage calling if there are no minimum to this force above the parage. If there are all baltable parage to a parage calling in the parage to the parage to the parage calling in the parage to the parage to the parage to the parage calling to the parage to the parage calling to the parage to the parage to the parage calling to the parage to the parage call the parage and estimate the parage and

r PENETRATIONS. Ducts in the garage and ducts penetrating the walls or gs separating the *dwelling* from the garage shall be constructed of a minimum No. ge; (0.48 mm) sheet steel or other *approved* material and shall have no openings he conse

no the garage.

THER PENETRATIONS, Penetrations through the separation required in Section 302.6 shall be protected as required by Section R302.11, Item 4.

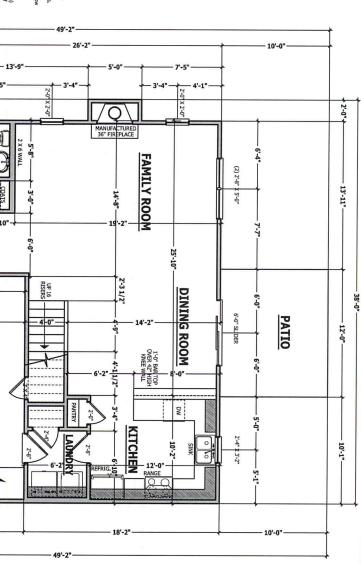
3'-10"

7'-8"

10'-10"

FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"



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SQUARE FOOTAGE
HEATED
HEST ROOR
SECOND ROOR
110 SQJFT,
TOTAL
110 SQ

SQUARE FOOTAGE
HEATED
FIRST FLOOR 775 50,FT.
SECOND FLOOR 1110 50,FT.
TOTAL
UNHEATED 1885 50,FT.
GARAGE 8650,FT.
TOTAL 535 50,FT.

775 SQ.FT. 1110 SQ.FT. 1885 SQ.FT.

HOME PLANS, INC. 919-435-6180 Fxx 1-866-491-0396 COMMERCIAL & RESIDENTIAL

Construction

FIRST FLOOR PLAN

STRUCTURAL NOTES

JSS AND I-JOIST MEMBERS: All roof truss and I-joist wneer lumber (IVI.) = Th=2600 PSI, Fv=265 PSI, E=1.9x106 PSI rd Lumber (PSI.) = Fb=2500 PSI, Fv=206 PSI, E=2.0x106 PSI trand lumber (LSI.) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI rmextoos per marufacturers instructions.

from the exit end of the pump.

liberable soil bearing pressure assumed to be 2000 towable soil bearing pressure assumed to be 2000 contractor must contact a geodechnical engineer and all engineer if unsatisfactory subsurface conditions all engineer if unsatisfactory subsurface conditions.

All non treated framing lumber shall 5 PSI) and all treated lumber shall be SI) unless noted other wise.

I layouts shall be prepared in accordance with this document. Trusses and 1-joints shall be installed according to the manufacture's specifications, Any change in truss or 1-joint layout shall be coordinated with layouts browns Enta, Inc. LIMTELS in thick instals shall be 3 1/2" × 3 1/2" x 1/4" steel angle five up to 6"0" span and 6" x 4" x 5/5" seel angle with 6" king welful fire spans up to 9"0" unless noted otherwise. ONO IERTE. Cocrete shall have a milminum. 25 day strength of 2000 pit and a meathrum attempt of 5 inches unless noted previous. An estation for up table 40.7.1. All concrete shall be processed. An estation for up table 40.7.1. All concrete shall be concretions with ACI standards. All seed, seed to pursuit of the best before from the care for of the same.

HEADER SCHEDULE

 ALL NON LOAD BEARING HEADERS TO BE LADDER FRAMED OR (2) 2 X 4 WITH 1 JACK AND 1 KING STUD UNLESS NOTED OTHERWISE H2 SIDE A-4 # 1 (2) 2 X 10 HALF BATH FLOOR TRUSSES
BY MANUFACTURER **COVERED PORCH** SIDE A-2 **E** (2) 2 X 12 OR BEAM BY TRUSS MANUFACTURER FAMILY ROOM FOYER Œ W/ ELEVATION-B 1 W/ ELEVATION-B **DOUBLE GARAGE DINING ROOM PATIO** BEAM BY TRUSS MANUFACTURER FLOOR TRUSSES BY MANUFACTURER H-2 was crawings. Any varieties with these densings must be trought to the text of KITCHEN Œ H: LAUNDRY

SIDE A-3

BRACE WALL PANEL NOTES

PF PORTAL FRAME AT OPENING

(METHOD PF PER PIGURE AND SECTION RE02.10.1)

SCALE 1/4" = 1'-0"

- 12'-0'

MAXIMUM HEIGHT TO TOP OF HEADER

TWO ROWS OF 16D — SINKER NAILS @ 3" O.C.

24" OF MIDDLE OF WALL HEIGHT FASTEN SHEATHING TOHEADER WITH 8D COMMON
NAIL IN 3" GRID AND TO
FRAMING AT 3" ON CENTER STAP HEADER TO JACK STUD ON INSIDE 1000 LBS OR 4000 LBS WITH PONY WALL

→ JACK STUDS PER PLAN → SHEATHING DIRECTION

HEIGHT TO

HEADER PER PLAN

PLACE BEAM OVER BEARING PROVIDED BY COLUMN(S) AND FURR BEAM AS DESIRED

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

SIDE A-1

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무

MAX EAVE WIND EXPOSURE SEISMIC CATEGORY

10' 0" 100 B A OR B

(2) 1 3/4" X 11 7/8" LVL EXTENED BEAM TO CORNERS SEE DETAIL "PORTAL FRAME AT OPENING"

MONO TRUSSES

6-16D SINKER NAILS FROM KING STUD TO HEADER

EXTERIOR WALLS, All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section RGD2.103 unless noted otherwise.

OFPSUM: 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 ROVD2.35, Method GB to be fastened per table ROVD2.101.

REQUIRED LENGTH OF BRACHING: Required brace wall length for each side of the commorthed rectangle are interpolated per table ROVD1.103, Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 fits actual length. Method FF contributes 1.5 times its actual length.

Methods for Table R602.10.1

Methods for Table R602.10.1

Methods for Table R602.10.1

Methods for Table R602.10.1

Methods for Sold to minimum 31g 'CSB or CDX nailed at 6" on center at edges and 12" on center at intermedate supports with 6d common nails or 86(2.11/2" long x 0.113" dameter).

CS-SFB. Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and num 1/2" gypsum board on both sides of the wall other at intermediate supports with minimum 5d co

Portal fame per figure R602.10.1

FIRST FLOOR STRUCTURAL

SIDE LENGTH REQUIRED PROVIDE 1 38 0" 13 1" 15 5" 2 3" 21 0" 21 0" 3 39 2" 13 6" 21 0" 4 3" 34 6"	: 10' 0"	OF + 1 EAVE	HEIGHT: 9' RO	WALL HE
RECIANGLE A SIDE LENGTH REQUIRED PROVIDE 1 38' 0" 13' 1" 15' 5' 21' 8" 21' 8" 21' 8" 21' 8" 21' 8" 21' 8"	34' 6"	•	,	4
RECIANGLE A SIDE LENGTH REQUIRED PROVIDE 13' 1" 15' 5' 13' 1" 15' 5' 21' 0'	21' 8"	13' 6"	39' 2"	ω
SIDE LENGTH REQUIRED PROVIDE 1 38' 0" 13' 1" 15' 5"	21' 0"			2
SIDE LENGTH REQUIRED PROVIDE	15' 5"	13' 1"	38" 0"	-
KECIANGLE A	PROVIDE	REQUIRED	LENGTH	SIDE
		NGLE	KECIA	

	VE: 10' 0"	34' 6"	21' 8"	21' 0"	
UNHEATED GARAGE FRONT PORCH	SECOND FLOOR	HEATED	SOUARE FO		



INDICATED WALLS
INDICATED LOAD
BEARING AND
EXTERIOR WALLS
WHERE HEADERS
MUST BE INSTALLED.

FIRST FLOOR STRUCTURAL

Northbrook 1885-212

Lot 22 Lakedale

PRICORES NOT WEST ALL DEPENSION AND CONTINUES SETUPATION OF THE PRICAR SHOWN OF T

ROOF TRUSS REQUIREMENTS

OOTAGE

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9/4/2014 140903B

PAGE 4 OF 9

ATTIC ACCESS

SECTION RBD7

RBD7.1. Attit access. An attit access opening shall be provided to attit areas that exceed 400 square leet (37.16 m2) and have a vertical height of 60 inchess (1524 mn) or greater. The next dear opening shall not be less than 20 inches 59 30 inches (508 mm by 752 mm) and stall be located in a bilaway or other meabily accessible location. A 30-inch (762 mm) millimum unostructed headroom in the attict space shall be provided at some point above the access opening. See Section H1305.1.3 for access requirements where mechanical aduptione is to located for access requirements of where mechanical aduptione is to located.

eptions:

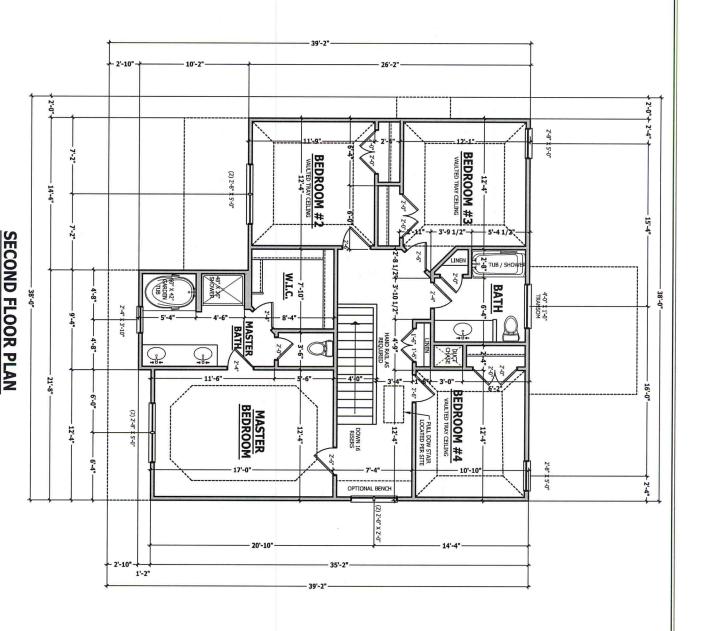
Joncealed areas not located over the main structure including ches, areas behind knee walls, dormers, bay windows, etc. is, areas behind knee walls, dormers, bay wnnoows, etc. it required to have access. down stair treads, stringers, handralls, and hardware may de into the net dear opening.

EXTERIOR WINDOWS AND DOORS

12.2 Window sills. In chedity units, where the opening of an operable window is act drove than 3 Paches (12.2 min) above the finished prode or surface below, the rest part of the clear opening of the window skill be an infimition of 24 inches (506 min) see the finished floor of the room in which the window is located, Operable sections of the season of the room in which the window is located, Operable sections of those shall not plant to principle the allow prossage of a 4 fortil (12 min) diameter sphere are south openings are located within 34 inches (500 min) of the intellect floor. CITION 8612.

12.13 General. This section prescribes performance and construction requirements for 12.11. General. This section prescribes performance and coors shall be initialled and testion windows and doors shall be initialled in walls. Windows and doors glening shall be instead in accordance with the finestration manufacture's written installation instructions and door openings shall be fished in accordance with Section R7013. Wintten stallation instructions shall be provided by the fenestration manufacturer for each window.

Openings that are provided with fall prevention devices that comply with ASTM F 2090. Windows that are provided with opening limiting devices that comply with Section R612.4 Windows fall prevention devices, Window fall prevention devices and window 1612.3 Window fall prevention devices, Window fall prevention devices and window uards, where provided, shall comply with the requirements of ASTM F 2090. ndows whose openings will not allow a ←inch diameter (102 mm) sphere to pass gh the opening when the opening is in its largest opened position. The provided with window fall prevention devices that comply with Section



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9/4/2014 PAGE 5 OF 9 140903B

SQUARE FOOTAGE
HEATED
175 SAFE
SECON 1110 SAFE
SECON 1110 SAFE
SECON ROON 1110 SAFE
SECON ROON 1110 SAFE
SECON ROON 1110 SAFE
TUTAL 1150 SAFE
TUTAL 1150 SAFE
TUTAL 1150 SAFE





SECOND FLOOR PLAN

STRUCTURAL NOTES

RDER TRUSS BY MANUFACT WITH ELEVATION - B ONL

AND 1 KING STUD UNLESS NOTED OTHERWISE.

HEADER SCHEDULE

BATH

Ŧ.

E:H

coal codes and regulations. This document in no way shall be construed to supervise the code.

TO BSITE PRACTICES AND SAFETY: Haynes Home Plans, line, assumes no liability for contractors practices and procedures or safety, program. Haynes Home Plans, line, lasts no responsibility for the contractor's failure to carry. Lasts no responsibility to the contractor's failure to carry could the construction work in accordance with the contract documents. All manhesis shall be friends, and/orned, and the construction practice and development. BEDROOM #3 BEDROOM #2 GIRDER TRUSS BY WITH ELEVAT CEILING H.

SECOND FLOOR STRUCTURAL

IRUSS AND 1-100T PRHEMESS. All not that and 1-joist IRUSS AND 1-100T PRHEMESS. All not that and 1-joist Bynate shall be represend in accordance with this document. Trusses and 1-joist small be residual according to the personal state of the personal be recibilled according to the manufacture's specifications. Any dange in truss or 1-joist bynate shall be conditionated with Irishers Hermes Plants, Inc. LINTELS: Brick Intels shall be 3 1/2 x 3 1/2 x 1/4 seed angle for up to 6°0 years and 6° x x x 3/6°s seed angle with 6° leg vertical for spans up to 9°0 "unless noted otherwise. ConticeTEL: Concrete shall have an information 25 inches unless noted otherwise, Are entrined by table 401.2. All concrete a valle be reportioned, mixed, handfed, sampled, lessed, and placed in accordance with All zachades. All samples for pumping shall be stated into the less and of the pump.

501.12 Advanables and bearing pressure assumed to be 2000 sys. The contractor must contract a spectra-infal engineer and a structural engineer for unsatisfactory substraftee conditions are encountered. The surface are adjacent to the foundation of the state proportion of the surface and adjacent to the foundation walls.

and and engineered in accordance to these drawings must be trought advice construction begins.

If for any easons the trues of a supply and the supply and sup

ted veneer lumber (LVL) = Fb=2500 PSI, Fv=285 PSI, E=1.5x106 PSI stand lumber (PSL) = Fb=2500 PSI, Fv=2700 PSI, E=2.0x106 PSI ted stand lumber (LSL) Fb=2750 PSI, Fv=4700 PSI, E=1.55x106 PSI

H-2 MASTER BATH G BEDROOM #4 MASTER BEDROOM PULL DOW STAIR LOCATED PER SITE Ŧ. BRACING NOT SHOWN ON UPPER STORY PER R602.10.3.2 (5) & (6) H3 HATCHED WALLS
INDICATED LOAD
BEARING AND
EXTERIOR WALLS
WHERE HEADERS
MUST BE INSTALLED.

W.I.C.

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9/4/2014 PAGE 6 OF 9 140903B



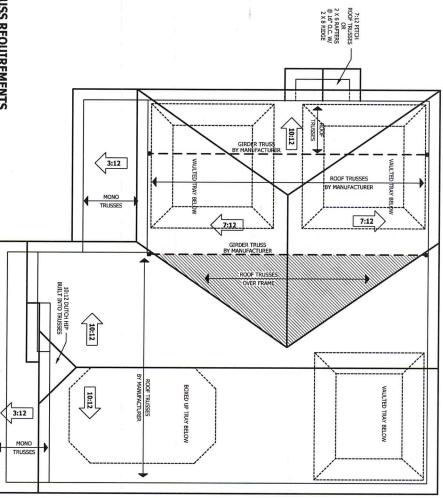
SECOND FLOOR STRUCTURAL

Northbrook 1885-212

ROOF TRUSS REQUIREMENTS

TRUSS DESIGN. Trosses to be designed and engineered in accordance with these deavings, any variation with these deavings, and to brought with these deavings, and to be roughted to the property of t

ROOF PLAN WITH ELEVATION - B

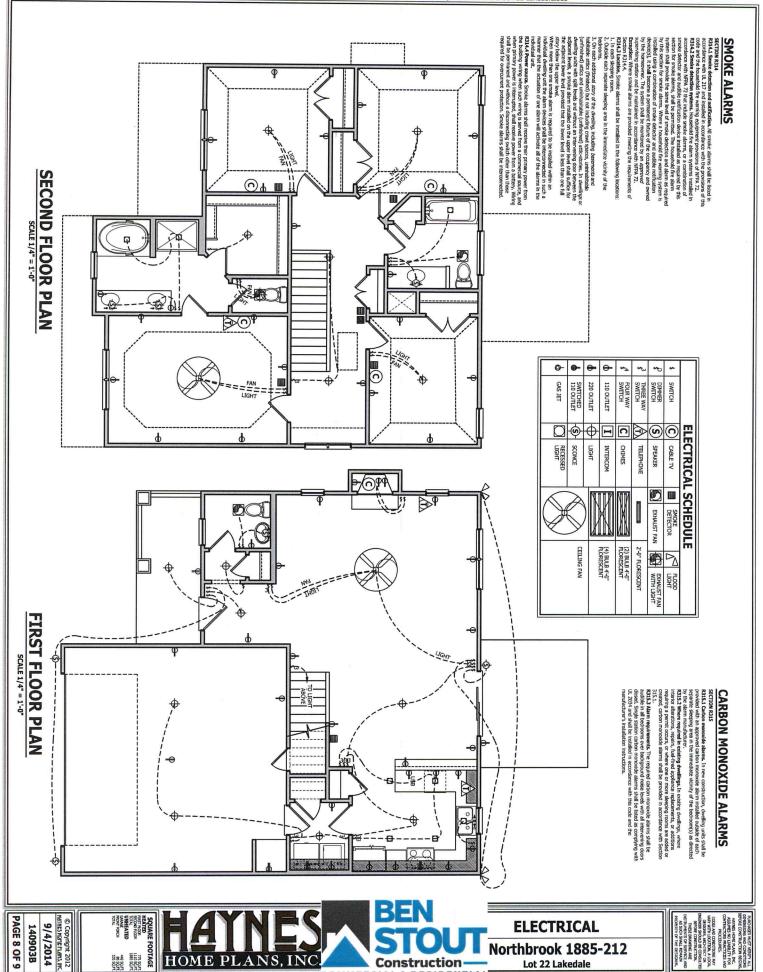


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ROOF PLAN WITH ELEVATION - B



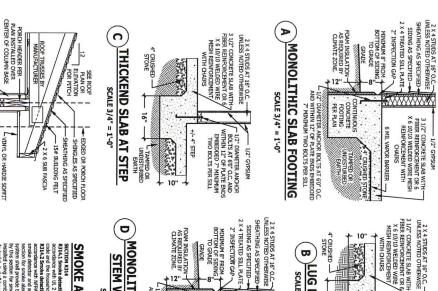
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HOME PLANS, INC

ELECTRICAL

Northbrook 1885-212

Lot 22 Lakedale



SIDING AS SPECIFIED -2 X 4 TREATED SILL PLATE: 2 X 4 STUDS AT 16" O.C.— UNLESS NOTED OTHERWISE O SHEATHING AS SPECIFIED MINIMUM 8" FROM BOTTOM OF SIDING TO GRADE GRADE 2" INSPECTION GAP MONOLITHIC SLAB FOOTING STEM WALL AT GARAGE 12" 1/2" DIAMETER ANCHOR BOLTS AT 6'0" O.C. AND WITHIN 12" OF PLATE ENDS EMBEDDED 7" MINIMUM TWO BOLTS PER SILL CONCRETE FOOTING PER PLAN 3 1/2" CONCRETE SLAB WITH-FIBER REINFORCEMENT OR 6 X 6 10/10 WELDED WIRE MESH REINFORCEMENT WITH CHAIRS 6 MIL VAPOR BARRIER -+/- 4" STEP 1/2" GYPSUM TAMPED OR UNDISTURBED SEARTH

SMOKE ALARMS

SCALE 3/4" = 1'-0"

114.1 Smoke detection and notification. All smoke also conducte with UL 217 and installed in accordance with detection of the state of peripheral provided and the household fire warning equipment provided and the household fire alarm special provided and the peripheral provided in the alarm conducted with NFPA 72 that include smoke alarms, one detector and audible notification device installed. I a usual prome the same feed of stroke effection and aim as required section for stroke alterns. Where a household fin warning system is of using a combination of smoke effector and auditie notification (6), it shall become a permanent future of the coupancy and owned branchoner. The system shall be monitored by an approved sing aution and be maintained in accordance with HEPA 72. Some Where smoke alterns are provided meeting the requirements of 18314.8.

.ch sleeping room. Ide each separate sleeping area in the immediate vicinity of the e attics (finshed) but not including crawl spaces, unimbulating crawl spaces, unimbulating crawl spaces, unimbulating crawl spaces, unimbulating control of the control of the charges or units with spit levels and without an intervening done between the levels, a smake alarm installed on the upper level shall suffice for cost lower level provided that the lower level is less than one full for the upper level. ne than one smoke alarm is required to be installed within an Awaling unit the alarm devices shall be interconnected in such a hat the actuation of one alarm will activate all of the alarms in the unit. additional story of the dwelling, including basements and the (finished) but not including crawl spaces, uninhabitate.

CENTER LINE OF HEADER -AND COLUMN

PORCH HEADER WITH TAPERED COLUMN

SCALE 3/4" = 1'-0"

SHINGLES AS SPECIFIED

- SHEATHING AS SPECIFIED

2 X 6 SUB FASCIA 15# BUILDING FELT

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

(14.4 Fower source. Smoke alarms stall receive their primary power from building whing when such whing is served from a commercial source, and nor primary power is interrupted. Shall receive power from a bustery. Wings all the permanent and without a disconnecting switch other than those juined for overcurrent protection. Smoke alarms shall be interconnected.

1 X MATERIAL -

- TAPERED COLUMN OVER MASONRY BASE ATTACHED TO HEADER WITH POST CAP

ion. Smoke alarms shall be installed in the following locations:

INSTALLED PER MANUFACTURERS
INSTRUCTIONS

BLOCKING INSTALLED

ON BOTH SIDES & UNDER CHEADER AS DESIRED

hen handrall fittings or bendings are used to provide Inuous transition between flights, the transition from height at lardrall, or used at the start of a flight, the handrall height at fittings or bendings shall be permitted to exceed the maximum the se of a volute, turnout or starting easing shall be allowed lowest tread.

11.77.2 Continuity, Handraids for stainways shall be continuous the coll the coll engine, from a point drectly above the cop to differ the post in effectly above the convext fixer of the flight to a point effectly above to kneet, fixer of the start of the flight to a point effectly above to kneet, fixer of the start of the flight to a point effectly above to shall terminate in new at 11.1 Handrail ends shall be refutenced or shall terminate in new at 11.2 inch (38 mm) between the well and that coll not less than 11/2 inch (38 mm) between the well and that coll not less than 11/2 inch (38 mm) between the well and that

PORCH HEADER PER —
PLAN INSTALLED AT
OUTER EDGE OF PORCH

BLOCKING INSTALLED -INSIDE AND UNDER HEADER AS DESIRED

L VINYL OR HARDIE SOFFIT INSTALLED PER MANUFACTURERS INSTRUCTIONS

1 X MATERIAL -

BOXED OR ROUND
COLUMN AS SPECIFIED
ATTACHED TO HEADER
WITH POST CAP

BOXED OR ROUND COLUMN

SCALE 3/4" = 1'-0"

PORCH HEADER WITH

1)15.1. Datam equirements. The required carbon monoxide alarms shall be autilitie in all bedrooms over background noise levels with all intervening doors Goest. Single station carbon monoxide alarms shall be listed as complying with UL 2014 and shall be installed in accordance with this code and the manufacturer's installation instructions.

y the alarm nanufacturer, y the alarm nanufacturer, nature a transition, repairs, fuel-fired opplience replacements, or additions requiring a permit occurs, or where one or more skeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section created, carbon monoxide alarms shall be provided in accordance with Section

EXTERIOR WINDOWS AND DOORS

PITCH PER ROOF PLAN OR ELEVATIONS

SHINGLES AS SPECIFIED

-15# BUILDING FELT

SHEATHING AS SPECIFIED

INSULATION BAFFLE

512.1 General. This section prescribes rior windows and doors install ned in accordance with the fen x monows and doors installed in walls. Windows and doors shall be installed and of in accordance with the forestration manufacturer's written installation instructions, what of door openings shall be liablact in accordance with Section R7013.8, Whiten sidon instructions shall be provided by the fersestration manufacturer for each window.

1/2" DIAMETER ANCHOR
BOLTS AT 6'0" O.C. AND
WITHIN 12" OF PLATE ENDS
EMBEDDED 7" MINIMUM
TWO BOLTS PER SILL

1/2" GYPSUM

56.1.2 Window sills. In chelling units, where the opening of an operable window is caused more than 72 inches (1228 mm) above the finished gradeor surface below, the owest part of the date opening of the window shall be a minimum of 34 inches (610 mm) to one the finished floor of the room in which the window is located. Operable sections of indows shall not gorning or the although sussage of a 4 inch (102 mm) diameter sphere indows shall not gorning that allow pussage of a 4 inch (102 mm) diameter sphere such openings are located within 24 inches (610 mm) of the finished floor.

W

LUG FOOTING

TAMPED OR UNDISTURBED EARTH

SCALE 3/4" = 1'-0"

ndows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass gh the opening when the opening is in its largest opened position. Printings that are provided with window fall prevention devices that comply with Section

Openings that are provided with fall prevention devices that comply with ASTM F 2090. 4. Windows that are provided with opening limiting devices that comply with Section RGL14, 5. Windows Hold prevention devices, Window fall prevention devices and window plantis, where provided, shall comply with the requirements of ASTM F 2090. WALL INSULATION -PER CLIMATE ZONE SEE CODE NOTE ON ELEVATION PAGES (2) 2 X 4 TOP PLATE -2 X 4 SOLE PLATE -1/2" GYPSUM

COPTIONAL 1 X 4 FRIEZE

SOFFIT VENTING

SOFFIT ▲1 X 8 FASCIJ

DWELLING / GARAGE SEPARATION

Cooperation and the statement of the state o

CELINACS. A informan of 1/2 gipsam must be installed on the garage celling if there are no habitable room above the garage. If there are habitable room above the garage are no habitable room above the garage an informan of 3/8 type 3/5 gipsam boad must be installed on the garage celling. Supparation of the garage celling and the garage celling celling of the garage and residence shall be equipped with sold wood doors not less than 13/8 inches (35 mm) thick, or 20-minute celling celling

OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4. DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or bellings separating the *dwelling* from the garage shall be constructed of a minimum No. 15 gage (0.48 mm) sheet steed or other *approved* material and shall have no openings have the property.

STAIRWAY NOTES

11.7.4 Stair treads and risers. Stair treads and risers shall meet a requirements of this section. For the purposes of this section a mensions and dimensioned surfaces shall be exclusive of carpets 2 Headroom. The minimum headroom in all parts of the y shall not be less than 6 feet 8 inches (2032 mm) ed vertically from the sloped line adjoining the tread nosing the floor surface of the landing or platform on that portion

A.I Riser height. The maximum riser height shall be 8 1/4
(2.10 mm). The riser shall be measured vertically between
edges of the adjacent treads.
A.2 Tread depth. The minimum tread depth shall be 9
(229 mm). The tread depth shall be measured horizontally.

'4 Inches (102 mm) at any point.
'4 Inches (102 mm) at any point.
'4 mm). A nosing not less than 3/4 inch
han 1 1/4 inches (32 mm) shall be provided

TYPICAL WALL SECTION

SCALE 3/4" = 1'-0"

311.7.7 Handrails. Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers. 311.7.7.1 Height. Handrall height, measured vertically from the ght. Handrall height, measured vertically from the djoining the tread nosing, or finish surface of ramp not less than 34 inches (864 mm)and not more than

I Inducinals shall be permitted to be interrupted by a newel post.

I The use of a volta, turned, starting easily or starting newel
what he allowed oner the kneed trans. Starting newel
what he allowed oner the kneed trans.

I Two or more separate rails shall be considered continuous if the
strendshot of the rails occurs within 6 bronded and or
about all fivenishms between a well-instantial bronded and or
punch allowards, the well-instantials through the control of the control
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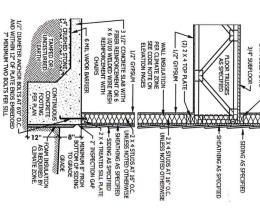
TYPICAL STAIR DETAIL

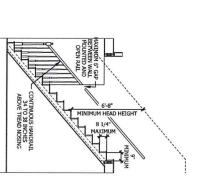
SCALE 1/4" = 1'-0"

PAGE 9 OF 9

9/4/2014

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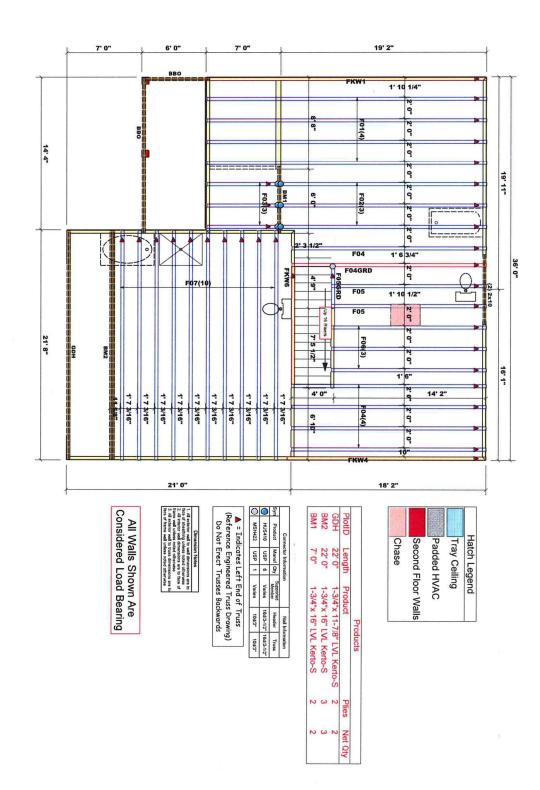


TYPICAL DETAILS Northbrook 1885-212

COMMERCIAL & RESIDENTIAL

Lot 22 Lakedale





BUILD	BUILDER	Ben Stout Real Estate	COUNTY	Harnett	15 100 MACTION (NF TO) E 11 13 600 MC TO (NF TO) E 10 10 10 10 10 10 10 10 10 10 10 10 10		regul but n profe supp those regis desap
A TRUBE	JOB NAME	Lot 13 Blackberry Manor	ADDRESS	Lot 13 Blackberry Manor	D V D V D W A ID O C D O O O O O O O O O O O O O O O O	Antho	ed to su greate stone d of system specifies system specifies system of 15000s
nerd of the second	PLAN	Northbrook	MODEL	Floor	ART FO		pport real than 150 sall be re for early fin the ar gen profe port syst
d as indi	SEAL DATE	Seal Date	DATE REV.	03/16/2020	O U L W N REQUESTION FOR STREET OF THE OFFI	my W	flens gra float, A ra rained to reaction; flached T raional st sm for all
	QUOTE #	Quote #	DRAWN BY	Hampton Horrocks	17 A STUD 17 A STUD	/illiar	der than gistered design to that exce ables, A all be re reaction
JOB #	JOB#	J0320-1192	SALESMAN	Marshall Naylor	0 8 8 8 (#To) 9 5 U	3 3	and to design

ROOF & FLOOR TRUSSES & BEAMS

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



Ben Stout

Project:

Address:

Date:

3/16/2020

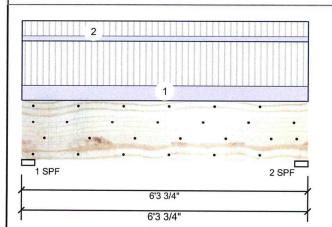
Input by: Hampton Horrocks Job Name: Lot 13 Blackberry Manor

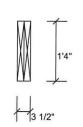
Project #: J0330-1192

Level: Level

Kerto-S LVL BM₁

1.750" X 16.000" 2-Ply - PASSED





Page 1 of 7

Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL:

360 Normal Temp <= 100°F Application:

Deck:

Design Method:

Building Code:

Floor ASD

IBC/IRC 2015 No

Load Sharing:

Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1644	588	0	0	0
2	1644	588	0	0	0

Bearings

Bearing Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.	-
1 - SPF 3.500"	43% 588 / 1644	2233 L	D+L	
2 - SPF 3.500"	43% 588 / 1644	2233 L	D+L	

Analysis Results

Importance:

Temperature:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3052 ft-lb	3'1 7/8"	34565 ft-lb	0.088 (9%)	D+L	L
Unbraced	3052 ft-lb	3'1 7/8"	19518 ft-lb	0.156 (16%)	D+L	L
Shear	2062 lb	1'6 5/8"	11947 lb	0.173 (17%)	D+L	L
LL Defl inch	0.010 (L/6734)	3'1 7/8"	0.147 (L/480)	0.070 (7%)	L	L
TL Defl inch	0.014 (L/4959)	3'1 7/8"	0.196 (L/360)	0.070 (7%)	D+L	L

Design Notes

- 1 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 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 braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.

		3 1-3									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Far Face	130 PLF	389 PLF	0 PLF	0 PLF	0 PLF	F02	
2	Uniform			Near Face	44 PLF	132 PLF	0 PLF	0 PLF	0 PLF	F03	
	Self Weight				12 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.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

andling & Instanation
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

For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

www.metsawood.com/us ICC-ES: ESR-3633







Project: Address: Ben Stout

Date:

3/16/2020

Input by: Hampton Horrocks

Job Name: Lot 13 Blackberry Manor Project #:

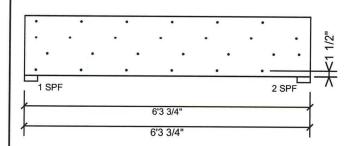
J0330-1192

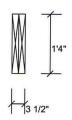
BM₁ Kerto-S LVL

1.750" X 16.000"

2-Ply - PASSED

Level: Level





Page 2 of 7

Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	79.3 %
Load	259.5 PLF
Yield Limit per Foot	327.4 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

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Handling & Installation

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For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/13/2022

Manufacturer Info

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

www.metsawood.com/us ICC-ES: ESR-3633







Ben Stout

Project: Address:

Date: Input by:

3/16/2020

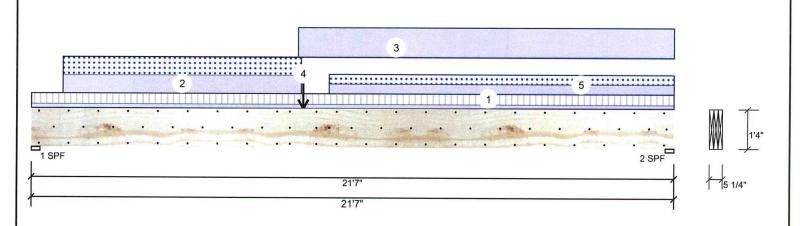
Hampton Horrocks Job Name: Lot 13 Blackberry Manor Page 3 of 7

Project #: J0330-1192

1.750" X 16.000" Kerto-S LVL BM₂

3-Ply - PASSED

Level: Level



Member Inforn	nation		Reactions UNPATTERNED Ib (Uplift)							
Type:	Girder	Application:	Floor	Brg	Live	Dead	d Snow	٧	Vind	Const
Plies:	3	Design Method:	ASD	1	432	147	1 700		0	0
Moisture Condition:	: Dry	Building Code:	IBC/IRC 2015	2	432	192	6 556		0	0
Deflection LL:	480	Load Sharing:	Yes							
Deflection TL:	600	Deck:	Not Checked							
Importance:	Normal									
Temperature:	Temp <= 100°F		7							
				Bearings	5					
				Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	3.500"	30%	1471 / 849	2320	L	D+0.75(L+S)
Analysis Posulte	_			2 - SPF	3.500"	34%	1926 / 741	2666	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14316 ft-lb	10'4 15/16"	62010 ft-lb	0.231 (23%)	D+0.75(L+S)	L
Unbraced	14316 ft-lb	10'4 15/16"	14322 ft-lb	1.000 (100%)	D+0.75(L+S)	L
Shear	2354 lb	20' 3/8"	20608 lb	0.114 (11%)	D+0.75(L+S)	L
LL Defl inch	0.107 (L/2379)	10'6 1/16"	0.529 (L/480)	0.200 (20%)	0.75(L+S)	L
TL Defl inch	0.335 (L/757)	10'9 7/16"	0.423 (L/600)	0.790 (79%)	D+0.75(L+S)	L

Design Notes

- 1 Fasten all plies using 3 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 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 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 13'5 5/8" o.c.
- 7 Bottom braced at bearings.
- 8 Lateral slanderness ratio based on single plu width

١	o Lateral significances 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	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	floor	
١	2	Part. Uniform	1-0-12 to 9-0-12		Near Face	68 PLF	0 PLF	68 PLF	0 PLF	0 PLF	C1	
ı	3	Part. Uniform	8-11-8 to 21-7-0		Тор	112 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall	
	4	Point	9-1-8		Near Face	295 lb	0 lb	295 lb	0 lb	0 lb	C2	
ı	0	•										

Continued on page 2...

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.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

- andling & Installation
 LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
 approvals
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/13/2022

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

www.metsawood.com/us ICC-ES: ESR-3633





Project: Address:

Ben Stout

Date:

3/16/2020

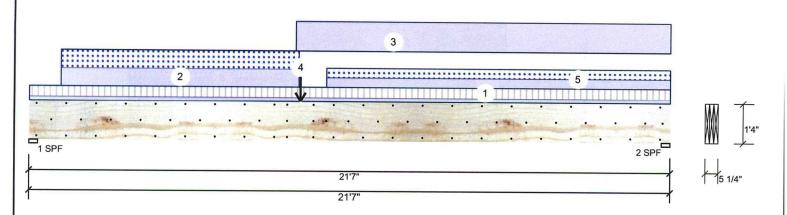
Input by: Hampton Horrocks Job Name: Lot 13 Blackberry Manor

Project #: J0330-1192

BM₂ Kerto-S LVL

1.750" X 16.000" 3-Ply - PASSED

Level: Level



.Continued from page 1

5

ID Load Type

Part. Uniform

Location 10-0-0 to 21-7-0

Trib Width

Side Near Face Dead 0.9 36 PLF

Live 1 Snow 1.15 0 PLF 36 PLF

Wind 1.6 Const. 1.25 Comments 0 PLF

Page 4 of 7

0 PLF D1

Self Weight

19 PLF

Notes

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Manufacturer Info

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

ICC-ES: ESR-3633







Address:

Project:

Ben Stout

Date: Input by: 3/16/2020

Hampton Horrocks

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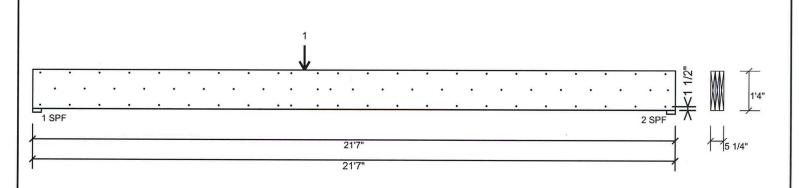
Job Name: Lot 13 Blackberry Manor J0330-1192 Project #:

Kerto-S LVL BM₂

1.750" X 16.000"

3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Nail from both sides. Maximum end distance not to exceed 6"

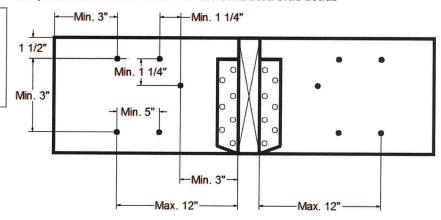
Capacity	32.1 %
Load	90.7 PLF
Yield Limit per Foot	282.4 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1.15

Concentrated Load

Fasten at concentrated side load at 9-1-8 with a minimum of (6) - 10d Box nails (.128x3") in the pattern shown. Repeat fasteners on both sides.

determ shown repeat resteriors on both sides.				
Capacity	69.7 %			
Load	393.3lb.			
Total Yield Limit	564.7 lb.			
Cg	0.9998			
Yield Limit per Fastener	94.1 lb.			
Yield Mode	IV			
Load Combination	D+S			
Duration Factor	1.15			

Min/Max fastener distances for Concentrated Side Loads



Notes

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Lumber

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- chemicals
- Handling & Installation 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
- approvers
 Damaged Beams must not be used
 Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/13/2022

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

(800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633





Project: Address: Ben Stout

Date:

3/16/2020

Input by: Hampton Horrocks Job Name: Lot 13 Blackberry Manor Page 6 of 7

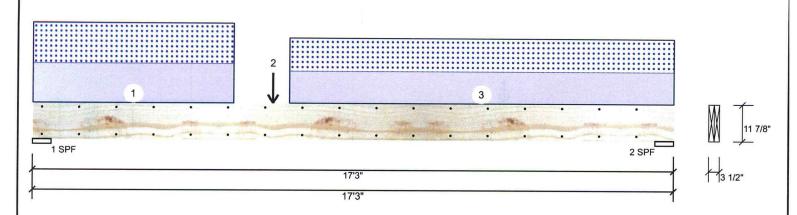
Project #: J0330-1192

GDH Kerto-S LVL

1.750" X 11.875"

2-Ply - PASSED

Level: Level



Member	Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480

Deflection TL: 360 Importance: Normal Temperature: Temp <= 100°F Application:

Design Method: **Building Code:**

ASD **IBC/IRC 2015**

Floor

Load Sharing: No

Deck: Not Checked Reactions UNPATTERNED Ib (Uplift)

Brg	Live	Dead Snow		Wind	Const	
1	0	661	581	0	0	
2	0	592	512	0	0	

Bearings

Bearing Lo	ength Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 6.	000" 14%	661 / 581	1242	L	D+S
2 - SPF 6.	000" 12%	592 / 512	1104	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4723 ft-lb	7'10 1/16"	22897 ft-lb	0.206 (21%)	D+S	L
Unbraced	4723 ft-lb	7'10 1/16"	6086 ft-lb	0.776 (78%)	D+S	L
Shear	1041 lb	1'5 1/8"	10197 lb	0.102 (10%)	D+S	L
LL Defl inch	0.114 (L/1720)	8'5 3/4"	0.409 (L/480)	0.280 (28%)	S	L
TL Defl inch	0.245 (L/803)	8'5 7/8"	0.546 (L/360)	0.450 (45%)	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	Part. Uniform	0-0-0 to 5-4-12		Тор	66 PLF	0 PLF	66 PLF	0 PLF	0 PLF	C1	
2	Point	6-5-8		Тор	178 lb	0 lb	178 lb	0 lb	0 lb	C3	
3	Part. Uniform	6-10-12 to 17-3-0		Тор	54 PLF	0 PLF	54 PLF	0 PLF	0 PLF	D1	
	Self Weight				9 PI F						

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

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 ICC-ES: ESR-3633

Manufacturer Info

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



This design is valid until 11/13/2022 CSD DESIGN



Project: Address:

Ben Stout

Date:

Input by:

3/16/2020

Hampton Horrocks

Page 7 of 7

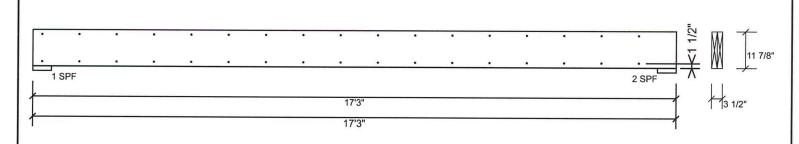
Job Name: Lot 13 Blackberry Manor Project #: J0330-1192

Kerto-S LVL **GDH**

1.750" X 11.875"

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 % oad 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 dealign 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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- Lumber
- chemicals

Handling & Installation

- andling & Installation
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- 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

This design is valid until 11/13/2022

Manufacturer Info





Truss Placement Plan SCALE: 1/4" = 1'

	ILDER	Ben Stout Real Estate	COUNTY	Harnett County	1700 HACTION (Nº 10) 100 HACTION (N° 10) 100 H		Disast Conde Cond Conde Conde Conde Conde Conde Conde Conde Conde Conde Conde Cond Conde Conde Conde Conde Conde Conde Conde Conde Conde Conde C
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JOB	В#	J0320-1191	SALESMAN	Marshall Naylor	0 8 8 8 (#TO) 0 5 G	ns	offe are offe of the offe of t

ROOF & FLOOR
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