NOTE: MONO SLAB - STONE TO RUN TO THE BOTTOM OF WINDOW

STEM WALL - STONE TO FOUNDATION HEIGHT

ONLY



PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT: 25'-6	5"	HEIGHT TO RIDGE: 29'-9"				
CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A			
FENESTRATION U-FACTOR	0.35	0.35	0.35			
SKYLIGHT U-FACTOR	0.55	0.55	0.55			
GLAZED FENESTRATION SHGC	0.30	0.30	0.30			
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci			
WALL R-VALUE	15	15	19			
FLOOR R-VALUE	19	19	30			
* BASEMENT WALL R-VALUE	5/13	10/15	10/15			
** SLAB R-VALUE	0	10	10			
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19			

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

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

BEDIGHED FOR MIN		01 120 11	11/0 0000	0001	(2017)01		L/I 0001			
COMPONENT	. & CLA	DDING	DESIG	NED FC	DR THE	FOLLO	WING I	LOADS		
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'		
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8		
ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2		
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2		
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9		
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4		
DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B"										
DESIGNED FOR WIN	d speed	OF 130 MF	γH, 3 SEC(ond Gust	(101 FAS	TEST MILE	E) EXPOSL	IRE "B"		
COMPONENT	D SPEED	OF 130 MF .DDING	PH, 3 SECO DESIG	ond Gust Ned Fo	(101 FAS) OR THE	TEST MILE FOLLO	:) EXPOSU WING	ire "b" Loads		
DESIGNED FOR WIN COMPONENT MEAN ROOF	D SPEED & CLA UP T	of 130 MF .DDING 'O 30'	PH, 3 SECO DESIG 30'-1"	ond Gust <u>NED FC</u> TO 35'	(101 FAS) DR THE 35'-1"	Test Mile Follo To 40'	E) EXPOSU WING 40'-1"	re "b" Loads To 45'		
DESIGNED FOR WIN COMPONENT MEAN ROOF ZONE 1	D SPEED & CLA UP T 16.7	OF 130 MF DDING O 30' -18.0	개, 3 SECC DESIG 30'-1" 17.5	ND GUST NED FC TO 35' -18.9	(101 FAS DR THE 35'-1" 18.2	TEST MILE FOLLO TO 40' -19.6	E) EXPOSU WING 40'-1" 18.7	RE "B" LOADS TO 45' -20.2		
Designed for Win Component Mean Roof Zone 1 Zone 2	D SPEED & CLA UP T 16.7 16.7	OF 130 MF DDING O 30' -18.0 -21.0	2H, 3 SECC DESIG 30'-1" 17.5 17.5	ND GUST NED FC TO 35' -18.9 -22.1	(101 FAS DR THE 35'-1" 18.2 18.2	TEST MILE FOLLO TO 40' -19.6 -22.9	E) EXPOSU WING 40'-1" 18.7 18.7	RE "B" LOADS TO 45' -20.2 -23.5		
DESIGNED FOR WIN COMPONENT MEAN ROOF ZONE 1 ZONE 2 ZONE 3	D SPEED & CLA UP T 16.7 16.7 16.7	OF 130 MF DDING O 30' -18.0 -21.0 -21.0	24, 3 SECC DESIG 30'-1" 17.5 17.5 17.5	ND GUST NED FC TO 35' -18.9 -22.1 -22.1	(101 FAS DR THE 35'-1" 18.2 18.2 18.2	TEST MILE FOLLO TO 40' -19.6 -22.9 -22.9	E) EXPOSU WING 40'-1" 18.7 18.7 18.7	RE "B" LOADS TO 45' -20.2 -23.5 -23.5		
DESIGNED FOR WIN COMPONENT MEAN ROOF ZONE 1 ZONE 2 ZONE 3 ZONE 4	D SPEED & CLA UP T 16.7 16.7 16.7 18.2	OF 130 MF DDING O 30' -18.0 -21.0 -21.0 -21.0 -19.0	PH, 3 SECC DESIG 30'-1" 17.5 17.5 17.5 19.1	ND GUST NED FC TO 35' -18.9 -22.1 -22.1 -20.0	(101 FAS DR THE 35'-1" 18.2 18.2 18.2 19.8	TEST MILE FOLLO TO 40' -19.6 -22.9 -22.9 -20.7	E) EXPOSL WING 40'-1" 18.7 18.7 18.7 20.4	RE "B" LOADS TO 45' -20.2 -23.5 -23.5 -21.3		

ROOF VENTILATION

SECTION R806

SQUARE FOOTAGE OF ROOF TO BE VENTED = 1,344 SQ.FT. NET FREE CROSS VENTILATION NEEDED: WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 8.96 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 = 4.48 SQ.FT.

AIR LEAKAGE

Section N1102.4

N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code:

- 1. Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.
- 2. Capping and sealing shafts or chases, including flue shafts.
- 3. Capping and sealing soffit or dropped ceiling areas.

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 guard.

R312.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads. Exceptions:

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 treads.

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

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

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

2. *Guards* on the open sides of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter.









WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for stud face. Interior walls are drawn as 3 1/2" or as noted 2 X 6

are drawn as 5 1/2", and do not include gypsum.

DWELLING / GARAGE SEPARATION

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

WALLS. A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section. **STAIRS.** A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

CEILINGS. A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling. **OPENING PENETRATIONS.** Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or ceilings separating the *dwelling* from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other *approved* material and shall have no openings into the garage.

OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

SQUARE FOOTAGE

FRST FLOOR	798 SQ.FT.
SECOND FLOOR	743 SQ.FT.
PLAYROOM	194 SQ.FT.
TOTAL	1735 SQ.FT.
UNHEATED	-
GARAGE	400 SQ.FT.
FRONT PORCH	86 SQ.FT.
DECK/PORCH	120 SQ.FT.
TOTAL	606 SQ.FT.
UNHEATED O	PTIONAL
THIRD GARAGE	270 SQ.FT.
GARAGE	270 SQ.FT.



STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code. JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no

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

DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200		
Guardrail in-fill components	50		
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40		L/360
Snow	20		

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.

ENGINEERED WOOD BEAMS:

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10⁶ PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI Install all connections per manufacturers instructions.

TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc. **LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing. ROOF SHEATHING: OSB or CDX roof sheathing minimum 3/8" thick for 16" on center rafters and 7/16" for 24" on center rafters.

CONCRETE AND SOILS: See foundation notes.

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 $8d(2 1/2" \log x 0.113" diameter)$. 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 $1 \frac{1}{2}$ long x 0.12" diameter galvanized roofing nails

GB: Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws. **PF**: Portal fame per figure R602.10.1







STRUCTURAL NOTES

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

DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200		
Guardrail in-fill components	50		
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40		L/360
Snow	20		

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.

ENGINEERED WOOD BEAMS:

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x106 PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI Install all connections per manufacturers instructions. TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc. **LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing. **ROOF SHEATHING:** OSB or CDX roof sheathing minimum 3/8" thick for 16" on center rafters and 7/16" for 24" on center rafters. **CONCRETE AND SOILS:** See foundation notes.

ATTIC ACCESS

SECTION R807

R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

Exceptions:

1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

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





D MONOLITHIC AT GARAGE SCALE 1/2" = 1'-0"

FOUNDATION STRUCTURAL

115 to 130 mph wind zone (1 1/2 to 2 1/2 story)

CONTINUOUS FOOTING: 16" wide and 8" thick minimum. 20" wide minimum at brick veneer. Must extended 2" to either side of supported wall. **GIRDERS:** (3) 2 X 10 girder unless noted otherwise.

PIERS: 16" X 16" piers with 8" solid masonry cap on 30" X 30" X 10" concrete footing with maximum pier height of 64" with hollow masonry and 160" with solid masonry.

POINT LOADS: designates significant point load and should have solid blocking to pier, girder or foundation wall.

115 and 120 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

130 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

CONCRETE: Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5" slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump.

SOILS: Allowable soil bearing pressure assumed to be 2000 PSF. The contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.



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. **KNEE WALL AND CEILING HEIGHTS.** All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.

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.

Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.



HEEL HEIGHT ABOVE SECOND FLOOR PLATE







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

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

audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with

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

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

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

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

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).

transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall

full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails

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







10200 6

11900 7

13600 8

15300 9

15300 6

JOB #

J0123-0224

SALES REP.

Lenny Norris

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

Christine Shivy

Christine Shivy

Signat



● = HUS26 (Qty. 11)

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

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

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

Truss Placement Plan SCALE: 1/4" = 1'-0"

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))		BUILDER	Weaver Development	CITY / CO.	Sanford / Harnett	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 nacement framing. The building designer		
D) D	HEADER/GIRDER		JOB NAME	Lot 2-R West Preserve	ADDRESS	Thistle Court	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	соттесн
END REAC (UP T) REQ'D STU (2) PLY HI	END REAC (UP TC (UP TC (3) PLY H	END REAC (UP T (UP T) (4) PLY H	PLAN	Nicholson 3 Car (190717B)	MODEL	Roof	or online @ sbcindustry.com Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables	ROOF & FLOOR
1700 1 3400 2 5100 3	2550 1 5100 2 7650 3	3400 1 6800 2 10200 3	SEAL DATE	Seal Date	DATE REV.	//	(derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those	TRUSSES & BEAMS
6800 4 8500 5 10200 6	10200 4 12750 5 15300 6	13600 4 17000 5	QUOTE #		DRAWN BY	Christine Shivy	specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.	Fayetteville, N.C. 28309 Phone: (910) 864-8787
11900 7 13600 8 15300 9			JOB #	J0123-0223	SALES REP.	Lenny Norris	Christine Shivy	Fax: (910) 864-4444



Version 21.80.417 Powered by iStruct™ Dataset: 22061001.1

	P	С	lient:	Weaver Deve	lopment			Date:	10/24/2	022				Page 1 of 1
	-	Р	roject:	The Nicholso	n			Input b	y: Christir	e Shivy				
is	Design	A	ddress:	The Nichol	son			Job Na	ame: Nichols	on				
								Project	t #:					
BM2 I	Kerto-S LV	'L 1.7	750" X	(14.000)" 2-F	Ply - P	AS	SED	Level: Leve	el				
						5								
2		4												
V				3										
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	•												IVIVI	
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•	• •		•	•	•	•	•							
						2 SPF								,
1			7'9 1/2"				1						1 13	3 1/2"
1			7'9 1/2"				{							
Member In	formation						Rea	ctions U	NPATTER	NED Ib	(Uplift)			
Туре:	Girder		Applicati	on: F	loor		Brg	Direction	n Liv	e l	Dead	Snow	Wind	Const
Plies:	2		Design N	/lethod: A	SD		1	Vertical	364	4	1261	0	0	0
Moisture Con	dition: Dry		Building	Code: IE	3C/IRC 2015		2	Vertical	267	9	939	0	0	0
Deflection LL:	480		Load Sh	aring: N	0									
Deflection TL:	360		Deck:	N	ot Checked									
Importance:	Normal - II													
Temperature:	Temp <= 100°	Ϋ́F												
							Bea	rings						
							Bea	aring Len	igth Dir.	Cap. F	React D/L I	b Tota	Ld. Case	Ld. Comb.
							1 -	SPF 3.50	00" Vert	94%	1261 / 364	4 4905	i L	D+L
							2 -	SPF 3.50	00" Vert	70%	939 / 267	9 3619	L	D+L
Analysis Re	suits						-							
Analysis	Actual	Location A	llowed	Capacity	Comb.	Case								
Moment	6133 ft-lb	3'11 1/2" 26	6999 ft-lb	0.227 (23%) D+L	L								
Unbraced	6133 ft-lb	3'11 1/2" 13	3870 ft-lb	0.442 (44%) D+L	L								
Shear	3460 lb	1'5 1/2" 10	0453 lb	0.331 (33%) D+L	L								
LL Defl inch	0.038 (L/2320)	3'11 1/8" 0.	.183 (L/480)	0.207 (21%) L	L								
TL Defl inch	0.051 (L/1717)	3'11 1/8" 0.	.244 (L/360)	0.210 (21%) D+L	L								
Design Not	es						Ι							
1 Provide su	oport to prevent later	al movement	and rotatior	at the end be	earings. Later	al support	4							
may also b	e required at the inte	rior bearings l	by the build	ing code.	0									
2 Fasten all p	olies using 3 rows of	10d Box nails	s (.128x3") a	t 12" o.c. Max	kimum end di	stance not								
3 Refer to las	 . .	s for fastener	s required fo	or specified lo	ads									
4 Concentrat	ed load fastener spe	cification is in	addition to	hanger faster	ners if a hang	er is								
present.				-	-									
5 Girders are	designed to be supp	ported on the	bottom edge	e only.										
7 Bottom mu	st he laterally braced at t	at end bearings.	nas											
8 Lateral sler	iderness ratio based	on single ply	width.											
ID	Load Type	L(ocation	Frib Width	Side	Dead 0.9		Live 1 S	Snow 1.15	Wind 1.	6 Const.	1.25 C	omments	
1	Point		0-3-8		Near Face	306 lb		917 lb	0 lb	01	b	0 lb F3	A	
	Point		0.2 0		Far Face	264 14		700 16	 0 lh		lh		۵	
	n onne							10010			-		~	
3	Part. Uniform	1-2-4	to 7-9-8		Near Face	115 PLF	34	44 PLF	0 PLF	0 PL	.F (PLF F3		
4	Part. Uniform	1-2-4	to 7-9-8		Far Face	119 PLF	3	55 PLF	0 PLF	0 PL	F C	PLF F2		
	Self Weight					11 PLF								
Notes		chemicals	3		6. For fla	t roofs provide p	roper drai	nage to preven	t Manufactu	rer Info		Comtec 1001 S.	n, Inc. Reilly Road, Suite #	639
Calculated Structured structural adequacy	Designs is responsible only of of this component based on	the Handling	& Installatio	n tor drilled	pondin	9			Metsä Woo	d 7 Building	2nd Floor	Fayette	ille, NC	
design criteria and responsibility of the	I loadings shown. It is customer and/or the contractor	the 2. Refer to	 must not be cul manufacturer installation 	s product inform	nation Jti-ply				Norwalk, C	T 06851		28314 910-864	-TRUS	
ensure the compor application, and to ver	ent suitability of the inten ify the dimensions and loads.	ided fastening	details, beam s	trength values, and	code				(800) 622-5	5850 awood.com/	us			
Lumber	· · · · · · · · ·	 Damaged Design as 	Beams must not ssumes top edge	be used is laterally restrained	i									
 Dry service condit LVL not to be treat 	ons, unless noted otherwise ted with fire retardant or corros	sive 5. Provide la lateral dis	ateral support and ro	bearing points to	avoid	lesion is volid	until 11	13/2021					COMT	есн
					11115 (acongri io vailu	anu H	5,2027						

	Client:	Weaver Development		Date:	10/24/2022			Page 1 of 1
	Project:	The Nicholson		Input by:	Christine Shivy			
IsDesign	Address:	The Nicholson		Job Name	: Nicholson			
			<u> </u>	Project #:				
F. Room Window Hdr.	Kerto-S LVL	1.750" X 9.25	0" 2-P	'ly - PASSED'	Levei: Levei			
4			3					
2		1						
					1		<u> </u>	
•	•						N/N	/
and the Man		attern					IXIX	9 1/4
·		•	7100	• •			<u>/ V</u>	
1 SPF End Grain			2	2 SPF End Grain]		I	
/ <i>/</i>	6	5'1"			1		(3 1/2"
<u>/</u>	f	5'1"			*			
					•			
Member Information				Reactions LINI) (Unlift)		
Type: Girder	Applicatio	on: Floor		Brg Direction	Live	Dead 9	Snow Wind	Const
Plies: 2	Design M	lethod: ASD		1 Vertical	122	1375	928 0	0
Moisture Condition: Dry	Building	Code: IBC/IRC 2015		2 Vertical	122	1375	928 0	0
Deflection LL: 480	Load Sha	aring: No						
Importance: Normal - II	Deck:	Not Checked						
Temperature: Temp <= 100°F								
				Bearings				
				Bearing Length	Dir. Cap.	React D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF 3.500"	Vert 22%	1375 / 928	2303 L	D+S
Analysis Results				Grain				
Analysis Actual Lo	ocation Allowed	Capacity Comb.	Case	2 - SPF 3.500"	Vert 22%	1375 / 928	2303 L	D+S
Moment 2995 ft-lb	3' 1/2" 14423 ft-lb	0.208 (21%) D+S	L	Grain				
Unbraced 2995 ft-lb	3' 1/2" 10944 ft-lb	0.274 (27%) D+S	L					
Shear 1504 lb	1' 3/4" 7943 lb	0.189 (19%) D+S	L					
LL Defl inch 0.019 (L/3521)	3' 1/2" 0.141 (L/480)	0.136 (14%) S	L					
	5 1/2 0.188 (L/300)	0.234 (23%) D+3	L	-				
1 Provide support to prevent lateral	movement and rotation	at the end bearings. Later	ral support	4				
may also be required at the interio	r bearings by the buildi	ng code.	a support					
2 Fasten all plies using 2 rows of 10 to exceed 6".	id Box nails (.128x3") a	t 12" o.c. Maximum end di	stance not					
3 Refer to last page of calculations f	or fasteners required fo	r specified loads.						
5 Top loads must be supported equa	ally by all plies.	e only.						
6 Top must be laterally braced at en	d bearings.							
 8 A Bottom must be laterally braced at 8 Lateral slenderness ratio based or 	t end bearings. n single ply width.							
ID Load Type	Location T	rib Width Side	Dead 0.9	Live 1 Sno	w 1.15 Wind	1.6 Const. 1.2	25 Comments	
1 Uniform		Тор	125 PLF	0 PLF	0 PLF 0 F	LF 0 PI	LF Wall Load	
2 Uniform		Тор	249 PLF	0 PLF 2	49 PLF 0 F	PLF 0 PI	LF A1	
3 Uniform		Тор	15 PLF	40 PLF	0 PLF 0 F	LF 0 PI	LF 1'-0" Floor Load	
4 Uniform		Тор	56 PLF	0 PLF	56 PLF 0 F	LF 0 PI	LF M1	
Self Weight			7 PLF					
Notes	chemicals	6. For fla	it roofs provide p	proper drainage to prevent	Manufacturer Info		Comtech, Inc. 1001 S. Reilly Road. Suite #	639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the	 Handling & Installation 1. LVL beams must not be cut 	n pondin or drilled	g	ſ	Metsä Wood 301 Merritt 7 Building	a. 2nd Floor	Fayetteville, NC USA	-
design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended	2. Refer to manufacturer's regarding installation	s product information requirements, multi-ply			Norwalk, CT 06851 (800) 622-5850	,, , 1001	28314 910-864-TRUS	
application, and to verify the dimensions and loads.	 rastening details, beam st approvals Damaged Beams must not 	beingun values, and code			www.metsawood.cor	n/us		and the second s
1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	 Design assumes top edge i Provide lateral support at lateral displacement or table 	s laterally restrained bearing points to avoid					ComT	есн
	lateral displacement and fo	This of	design is valid	l until 11/3/2024			And and a second se	

		Client:	Weaver Developme	ent		Date:	10/24/2022	2			Page 1 of 1
	Destaur	Project:	The Nicholson			Input by:	Christine S	Shivy			
	suesign	Address:	The Nicholson			Job Nam	e: Nicholson				
						Project #					
GDH	Kerto-S LVL	. 1.750	' X 11.875"	2-Ply -	PASS	ED	Level. Level				
		2									
				1							
•	• • •	• •	• •	• •	•	•	• •	• •	• •	Π	$\overline{+}$
11	C. S. Mar		a				- The la	-	100	XX	11 7/8"
•	• • •	•	• •	• •	•				••		
1 SPF Er	nd Grain							2 SPF I	End Grain		
/				16'10"					,	r + 3	1/2"
/				16'10"					,	,	
I.				1010							
Member In	formation	F			React	tions UN	IPATTERNE	D lb (Uplift)		
Type:	Girder	Appl	ication: Floor		Brg	Direction	Live	Dead	Snow	Wind	Const
Plies: Moisture Con	Z udition: Dry	Desi	gn Method: ASD ling Code: IBC/IR(2015	1	Vertical	0	2098	337	0	0
Deflection LL	: 480	Load	I Sharing: No	5 2015	2	ventical	0	2098	337	0	0
Deflection TL	: 360	Decl	k: Not Ch	ecked							
Importance:	Normal - II										
Temperature:	Temp <= 100°F										
					Beari	ngs					
					Bear	ing Lengt	h Dir. (Cap. React D/L	lb Tota	Ld. Case	Ld. Comb.
					1 - S End	PF 3.500'	' Vert	24% 2098/3	37 2434	ιL	D+S
Analysis Re	esults				Grain	า					
Analysis	Actual Lo	ocation Allowed	Capacity Cor	mb. Case	2-S	PF 3.500'	Vert	24% 2098/3	337 2434	↓ L	D+S
Moment	8354 ft-lb	8'5" 17919 ft-	lb 0.466 (47%) D	Uniforr	n End Grain	n					
Unbraced	9694 ft-lb	8'5" 9704 ft-lb	0.999 D+8	6 L	Oran						
Ohaan	4700 1	412 2/0" 7000 lb	(100%)	Liniform							
Shear		1'3 3/8" 7980 lb	0.224 (22%) D	Uniforr	n						
TL Dell Inch	0.070 (L/2809) 8	5 1/16 0.409 (L/	460) 0.171 (17%) 3 360) 0.927 (93%) D+9								
	0.000 (E/000) 0	5 1/10 0.540 (L/	500) 0.927 (95%) D+C								
Design No	tes	movement and ret	tion at the and hearing		+						
may also b	be required at the interio	r bearings by the b	uilding code.	s. Lateral suppor							
2 Fasten all	plies using 2 rows of 10	d Box nails (.128x	3") at 12" o.c. Maximum	end distance no	ot						
3 Refer to la	st page of calculations f	or fasteners requir	ed for specified loads.								
4 Girders are	e designed to be suppor	ted on the bottom	edge only.								
5 Top loads 6 Top must h	must be supported equa	ally by all plies. naximum of 9'6 3/2	" o c								
7 Bottom mu	ist be laterally braced at	end bearings.									
8 Lateral sle	nderness ratio based or	n single ply width.									
ID	Load Type	Location	Trib Width Side	Dead 0	.9 L	ive 1 Sno	ow 1.15 V	Vind 1.6 Cons	t. 1.25 Co	omments	
1	Uniform		Тор	200 PI	LF C) PLF	0 PLF	0 PLF	0 PLF Ex	terior Loads (wood. etc.)	Siding/
2	Uniform		Τορ	40 PI	F) PLF	40 PLF	0 PLF	0 PLF 2'0)" Roof Load	
-	Self Weight			9 PI	_F						
				σFI							
Notes		chemicals	lation	6. For flat roofs provid ponding	le proper draina	ge to prevent	Manufacturer	Info	Comtect 1001 S.	n, Inc. Reilly Road, Suite #	639
structural adequacy design criteria and	of this component based on the	1. LVL beams must not	be cut or drilled	-			301 Merritt 7 B	uilding, 2nd Floor	USA 28314		
responsibility of the ensure the compo	customer and/or the contractor to nent suitability of the intended	 ∠. refer to manufa regarding installat fastening details be 	ion requirements, multi-ply am strength values, and code				Norwalk, CT 0 (800) 622-5850	6851)	910-864	-TRUS	
application, and to ve Lumber	erify the dimensions and loads.	approvals 3. Damaged Beams mu	ist not be used				www.metsawo	od.com/us			and the second second
1. Dry service condi 2. LVL not to be tre	itions, unless noted otherwise ated with fire retardant or corrosive	 Design assumes top Provide lateral supplateral displacement 	edge is laterally restrained out at bearing points to avoid and rotation			1000 -				COMT	есн
10 00 110		iateral displacement	anu IUlaliUli	This design is va	alid until 11/3	/2024			2		

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	Client:	Weaver Dev	elopment		Date:		10/24/2022				Page 1 of 1
	Project:	The Nicholso	on		Input by	y:	Christine Shi	vy			
isDesign	Address:	The Nicho	lson		Job Na	ime:	Nicholson				
					Project	#:					
M. Bdrm. Window Hdr. Ke	erto-S LVL	1.750"	X 9.250"	2-Ply	- PASSED	Lev	vel: Level				
				-							
				3							
2		1									
										5	
•	•	•	•		• •					N/N.	
											9 1/4
and contain an	· · · · · · · · · · · · · · · · · · ·		APRIL DE	100						$ \langle W \rangle$	
				and the second						<u> </u>	
1 SPF End Grain				2	2 SPF End Grain						
1		6'1"				\neg				1	3 1/2"
/		6'1"				\rightarrow					
		U 1				I					
Member Information					Reactions U	NPA	TTERNED	b (Uplift)			
Type: Girder	Applicat	ion: F	loor		Brg Direction	n	Live	Dead	Snow	Wind	Const
Plies: 2	Design	Method:	ASD		1 Vertical		122	1205	757	0	0
Moisture Condition: Dry	Building	Code: I	BC/IRC 2015		2 Vertical		122	1205	757	0	0
Deflection LL: 480	Load St	naring: 1	No								
Deflection IL: 360	Deck:	ſ	Not Checked								
Temperature: Temp ~= 100°F											
					Bearings						
					Bearing Len	ath	Dir. Ca	p. React D/L	lb Tota	Ld. Case	Ld. Comb.
					1 - SPF 3.50	00"	Vert 19	% 1205 / 7	57 196	2 L	D+S
					End						
Analysis Results					Grain						
Analysis Actual Locat	ion Allowed	Capacity	Comb.	Case	2 - SPF 3.50	00"	Vert 19	% 1205 / 7	57 196	2 L	D+S
Moment 2552 ft-lb 3' 1	I/2" 14423 ft-lb	0.177 (18%	6) D+S	L	Grain						
Unbraced 2552 ft-lb 3' 1	I/2" 10944 ft-lb	0.233 (23%	6) D+S	L							
Shear 1282 lb 1' 3	3/4" 7943 lb	0.161 (16%	6) D+S	L							
LL Defl inch 0.016 (L/4312) 3' 1	I/2" 0.141 (L/480) 0.111 (11%	5) S	L							
TL Defl inch 0.041 (L/1664) 3' 1	I/2" 0.188 (L/360) 0.216 (22%	%) D+S	L							
Design Notes											
1 Provide support to prevent lateral mov	ement and rotatio	n at the end b	earings. Later	al support	1						
may also be required at the interior be	arings by the build	ling code.	vinum and dia	tonoo not							
to exceed 6".	DX Halls (.120X3)	at 12 0.C. IVIa	ximum enu us	stance not							
3 Refer to last page of calculations for fa	steners required	or specified lo	oads.								
4 Girders are designed to be supported	on the bottom edg	je only.									
6 Top must be laterally braced at end be	arings.										
7 Bottom must be laterally braced at end	l bearings.										
8 Lateral slenderness ratio based on sin	gle ply width.										
ID Load Type	Location	Trib Width	Side	Dead 0.9	Live 1 S	Snow	1.15 Wir	nd 1.6 Const	.1.25 C	omments	
1 Uniform			Тор	125 PLF	0 PLF	0	PLF	0 PLF	0 PLF E	kterior Wall Lo	ad
2 Uniform			Тор	249 PLF	0 PLF	249	PLF	0 PLF	0 PLF A	1	
3 Uniform			Тор	15 PLF	40 PLF	0	PLF	0 PLF	0 PLF 1'	0" Floor Load	
Self Weight				7 PLF							
, , , , , , , , , , , , , , , , , , ,											
Notes	chemicals		6. For flat	roofs provide p	roper drainage to prevent	t Ma	anufacturer In	io	1001 S.	n, Inc. Reilly Road, Suite #	639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and locations characterize the is that 1.	LVL beams must not be c	ut or drilled		-		Me 30	eisa vvood)1 Merritt 7 Buil	ding, 2nd Floor	USA 2831/	VIIIE, INC	
responsibility of the customer and/or the contractor to ensure the component suitability of the intended	Refer to manufacture regarding installation	r's product infor requirements, m	mation nulti-ply			Nc (80	orwalk, CT 068 00) 622-5850	51	910-864	4-TRUS	
application, and to verify the dimensions and loads.	approvals Damaged Beams must be	t be used	008			wv	ww.metsawood	.com/us		-	
1. Dry service conditions, unless noted otherwise 5. 2. UV pot to be tracted with fire retendent excert. 5.	Design assumes top edge Provide lateral support a	is laterally restraine at bearing points to	ed o avoid						TP	COMT	есн
2. LVL not to be treated with fire retardant or corrosive	lateral displacement and i	otation	This c	lesign is valid	until 11/3/2024				Ŀ		

C	Client: Weaver Development		Date:	10/24/2022		Page 1 of 1
P	Project: The Nicholson		Input by:	Christine Shivy		
ispesign A	ddress: The Nicholson		Job Nam	ne: Nicholson		
			Project #			
Sliding Door Kerto-S LVL	- 1.750" X 9.250"	2-Ply -	PASSED	Level. Level		
			3			
2						
	1					
• • •	• •		•	•		
						9 1/4
	ALL	177		- in the		
		and the second				
1 SPF End Grain			2 SPF End	d Grain		
	6'7"					3 1/2"
/	6'7"			ł		
	-			·		
			Descrit	IDATTERNES "	. (11-110)	
	Application: 51		Reactions UN			
Plies: 2	Application: Floor		Brg Direction	LIVE	Dead Sn	vvind Const
Moisture Condition: Drv	Building Code: IBC/IRC 2015		2 Vertical	132	1386 8	820 0 0
Deflection LL: 480	Load Sharing: No		2 Ventioar	102	1000	020 0 0
Deflection TL: 360	Deck: Not Checked					
Importance: Normal - II						
Temperature: Temp <= 100°F			Poorings			
			Bearing		Depart D/L lb	Tatal I.d. Casa I.d. Camb
			1 SDE 2 500	in Dir. Cap.	1296 / 920	
			End	Vent 21/0	1300 / 020	2200 L D+3
Analysis Results			Grain			
Analysis Actual Location A	llowed Capacity Comb.	Case	2 - SPF 3.500	" Vert 21%	1386 / 820	2206 L D+S
Moment 3143 ft-lb 3'3 1/2" 1	4423 ft-lb 0.218 (22%) D+S	L	Grain			
Unbraced 3143 ft-lb 3'3 1/2" 1	0451 ft-lb 0.301 (30%) D+S	L				
Shear 1500 lb 1' 3/4" 7	943 lb 0.189 (19%) D+S	L				
LL Defl inch 0.021 (L/3461) 3'3 1/2" 0	1.153 (L/480) 0.139 (14%) S	L				
TL Defl inch 0.057 (L/1286) 3'3 1/2" 0	.204 (L/360) 0.280 (28%) D+S	L	-			
Design Notes		<u> </u>	1			
 Provide support to prevent lateral movement may also be required at the interior bearings 	by the building code.	ral support				
2 Fasten all plies using 2 rows of 10d Box nails	s (.128x3") at 12" o.c. Maximum end di	stance not				
to exceed 6". 3 Refer to last page of calculations for fastener	s 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 p	lies.					
 7 Bottom must be laterally braced at end bearings. 	ngs.					
8 Lateral slenderness ratio based on single ply	y width.					
ID Load Type L	ocation Trib Width Side	Dead 0.9	Live 1 Sn	ow 1.15 Wind	1.6 Const. 1.25	Comments
1 Uniform	Тор	150 PLF	0 PLF	0 PLF 0 F	PLF 0 PLF	Exterior Wall Load
2 Uniform	Тор	249 PLF	0 PLF	249 PLF 0 F	PLF 0 PLF	A1
3 Uniform	Тор	15 PLF	40 PLF	0 PLF 0 F	PLF 0 PLF	1'-0" Floor Load
Self Weight		7 PLF				
				Manufacturer Info	(Comtech, Inc.
Notes chemical: Calculated Structured Designs is responsible only of the Handling	s 6. For fla & Installation ponding	it roots provide p g	proper drainage to prevent	Metsä Wood	1 F	1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the design criteria and loadings shown. It is the 2. Refer t	ns must not be cut or drilled o manufacturer's product information			301 Merritt 7 Building Norwalk, CT 06851	g, 2nd Floor	USA 28314 210-864-TRUS
responsibility or the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.	g installation requirements, multi-ply details, beam strength values, and code			(800) 622-5850	n/us	510-004-11XUG
Lumber 3. Damager 1. Design and the structure 4. Design at	d Beams must not be used ssumes top edge is laterally restrained			www.metsawoou.col	1,00	
2. LVL not to be treated with fire retardant or corrosive 5. Provide lateral dis	lateral support at bearing points to avoid splacement and rotation This of	design is valid	l until 11/3/2024			соттесн
		0				

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