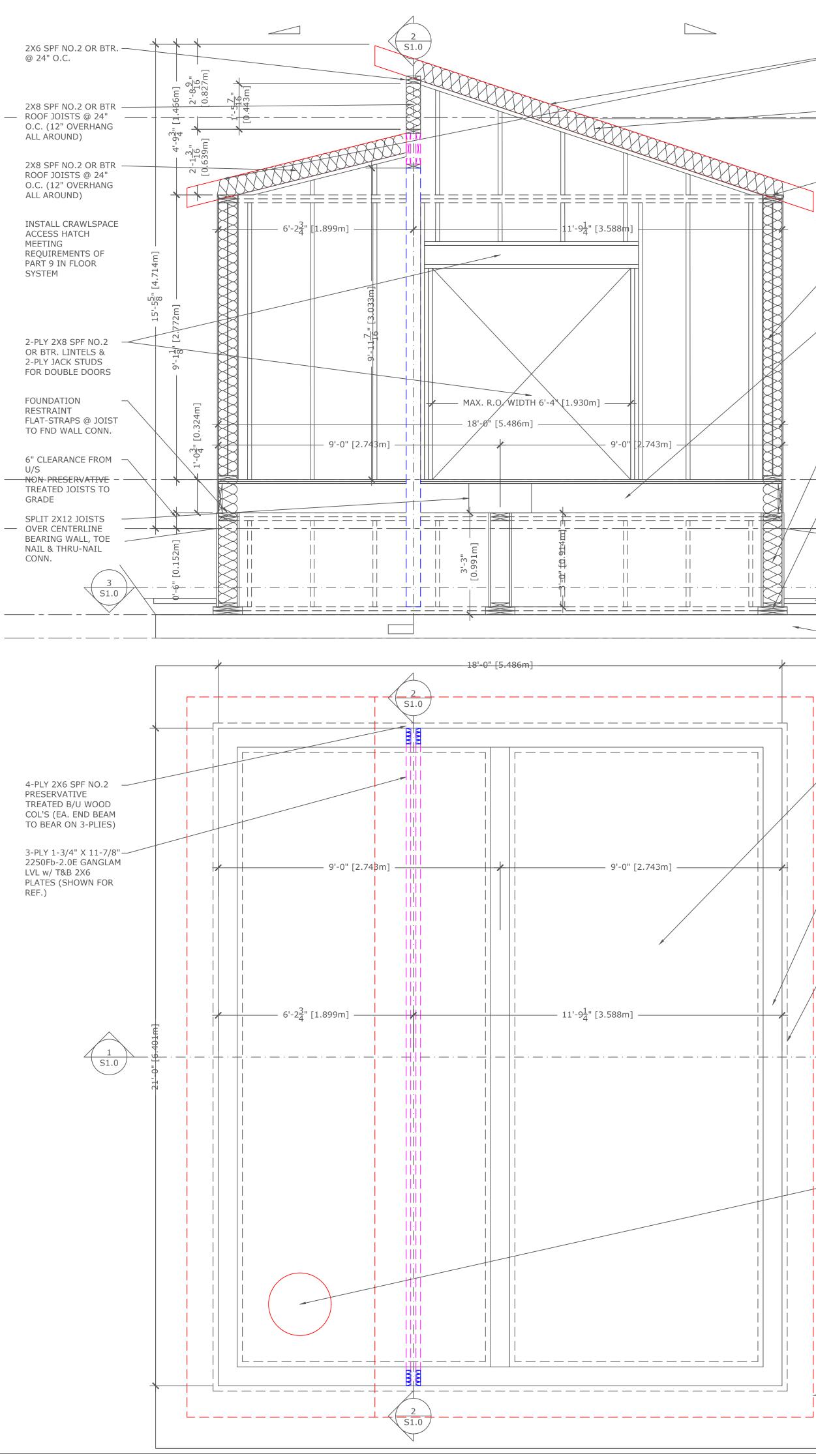
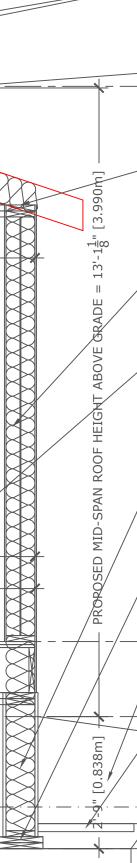


	STRUCTURAL ENGINEERING CONSULTANT: 4900870 4900870 4900870 4900870 4900870 4900870 5000000000000000000000000000000000000
	BLAIR PATTERSON 1624 GRANT ROAD REGINA, SASKATCHEWAN S4S 4N2 PHONE: 1 (306) 591-2319 EMAIL: hello@blairpatterson.ca
	OWNER: BLAIR PATTERSON 1624 GRANT ROAD REGINA, SASKATCHEWAN S4S 4N2 PHONE: 1 (306) 591-2319 EMAIL: hello@blairpatterson.ca
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	OFFICIAL SITE INSPECTION REPORTS, AND SHOP DRAWING DOCUMENTS THROUGHOUT THE COURSE OF THE PROJECT. THE OWNER AND CONTRACTOR MUST ALSO NOTIFY 49NORTH IN WRITING AT EACH PROJECT CONSTRUCTION STAGE DURING THE COURSE OF THE PROJECT TO CONDUCT SITE INSPECTIONS SO THAT 49NORTH MAY ASCERTAIN CONSTRUCTION COMPLIANCE WITH THESE DESIGN DOCUMENTS. 49NORTH WILL NOT EXPRESSLY MONITOR THIS PROJECT UNLESS EXPLICITLY AGREED TO IN THE AGREEMENT FOR CONSULTING ENGINEERING SERVICES. THE OWNER AND CONTRACTOR ARE NOTIFIED AND ADVISED TO CONTACT 49NORTH'S OFFICE VIA EMAIL FOR THE INSPECTION REQUIREMENT STAGES FOR THIS PROJECT. NEITHER THE PROFESSIONAL ENGINEER NOR 49NORTH ENGINEERING CORP. WILL BE LIABLE IN CONTRACT OR IN TORT, FOR ANY NORMAL, REGULAR, STANDARD, INCIDENTAL, SPECIAL, RESULTANT, SUBSEQUENT AND/OR ANY OTHER DIRECT AND/OR INDIRECT DAMAGES RESULTING FROM: DISCREPANCIES AND/OR ERRORS AND/OR OMISSIONS DUE TO CAUSES OTHER THAN NEGLIGENCE; AND, IN SUCH CASE SHALL ONLY BE LIABLE TO THE PARTY UNDER CONTRACT WITH 49NORTH FOR THE OMPLATION, PRODUCTION AND/ DELIVERY
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	ISSUED FOR: YYYY.MM.DD SCHEMATIC DESIGN REVIEW DESIGN DEVELOPMENT REVIEW CONSTRUCTION DOCUMENT REVIEW TENDER PACKAGE REVIEW ISSUED FOR DEVELOPMENT PERMIT 2021.02.25 ISSUED FOR BUILDING PERMIT 2021.02.25 ISSUED FOR CONSTRUCTION (IFC) 2021.02.25 PROJECT:
	DETACHED ACCESSORY WORKSHOP BUILDING 1624 GRANT ROAD REGINA, SASKATCHEWAN LOT 12, BLOCK 35, PLAN 59R04305
	ENGINEER TWEIDT TECHNICIAN TWEIDT DRAWING SCALE 1-1/2" = 1'-0" DATE FEBRUARY 25, 2021 DRAWING TITLE: EXTERIOR ELEVATIONS SHEET NUMBER: REVISION NUMBER:





OF ROOF JOIST TYP. 2X8 SPF NO.2 T&B WALL PLATES & DOUBLE 2X4 SPF NO.2 STUD ASSEMBLY w/ $\frac{1}{4}$ " GAP (SEE DETAIL) 2X12 SPF NO.2 OR BTR @ 12" O.C. FLOOR JOISTS c/w 2-LAYERS $\frac{3}{4}$ " T&G PLYWOOD GLUED & SCREWED - 2X8 SPF NO.2 OR BTR @ 24" O.C. PRESERVATIVE TREATED FROST WALL - 2-PLY 2X12 SPF NO.2 OR BTR PRESERVATIVE TREATED MUD SILL (SPREAD FOOTING) BACKFILL ELEVATION ABOVE LEVEL OF - UNDERSIDE OF -FOOTING (TOP 24"

63mm (2.5") GAP B/W

ROOF SHEATHING AND

2X8 SPF NO.2 OR BTR

O.C. (12" OVERHANG

BIRDS-MOUTH CUT

ROOF JOIST TO TOP

WALL PLATES @ T&B

AND TOE NAIL EA.

ALL AROUND)

INSULATION FOR ROOF VENTING

2" RIDGID INSULATION AROUND PERIMETER OF BUILDING OUT 2'-0" FROM FND. TYP.

NATIVE CLAY SOIL)

- INSTALL DRAINAGE LAYER BELOW FOOTING LEVEL AS PER PERMANENT WOOD FOUNDATION DRAINAGE SPEC'S TYP.

INSTALL PERMALON PLY X-200 FR CRAWLSPACE GROUND COVER THROUGHOUT ENTIRE CRAWLSPACE

- 2X8 SPF NO.2 OR BTR @ 24" O.C. PRESERVATIVE TREATED FROST WALL

- 2-PLY 2X12 SPF NO.2 OR BTR PRESERVATIVE TREATED MUD SILL (SPREAD FOOTING)

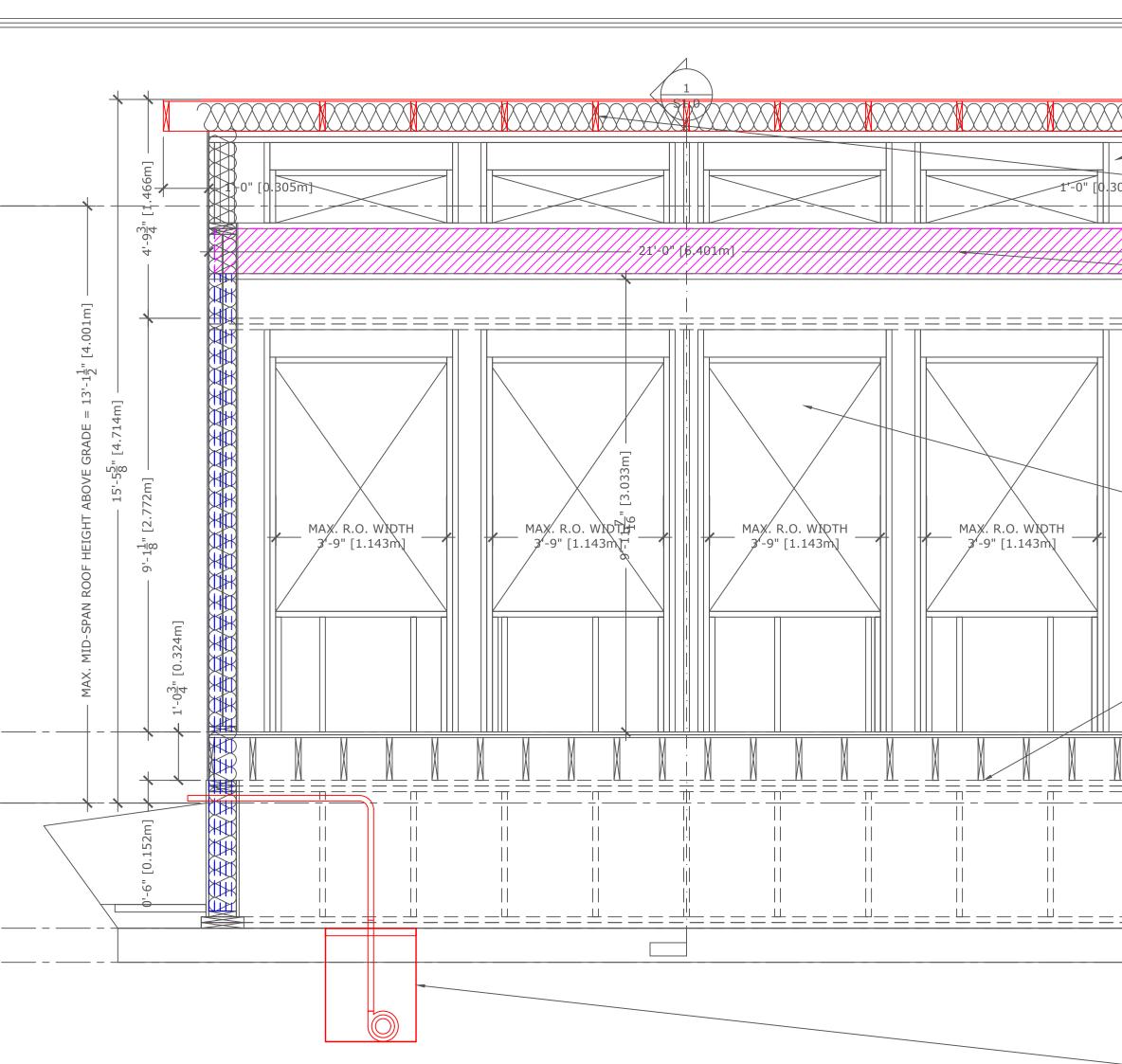
2" RIDGID INSULATION AROUND PERIMETER OF BUILDING OUT 2'-0" FROM FND. TYP.

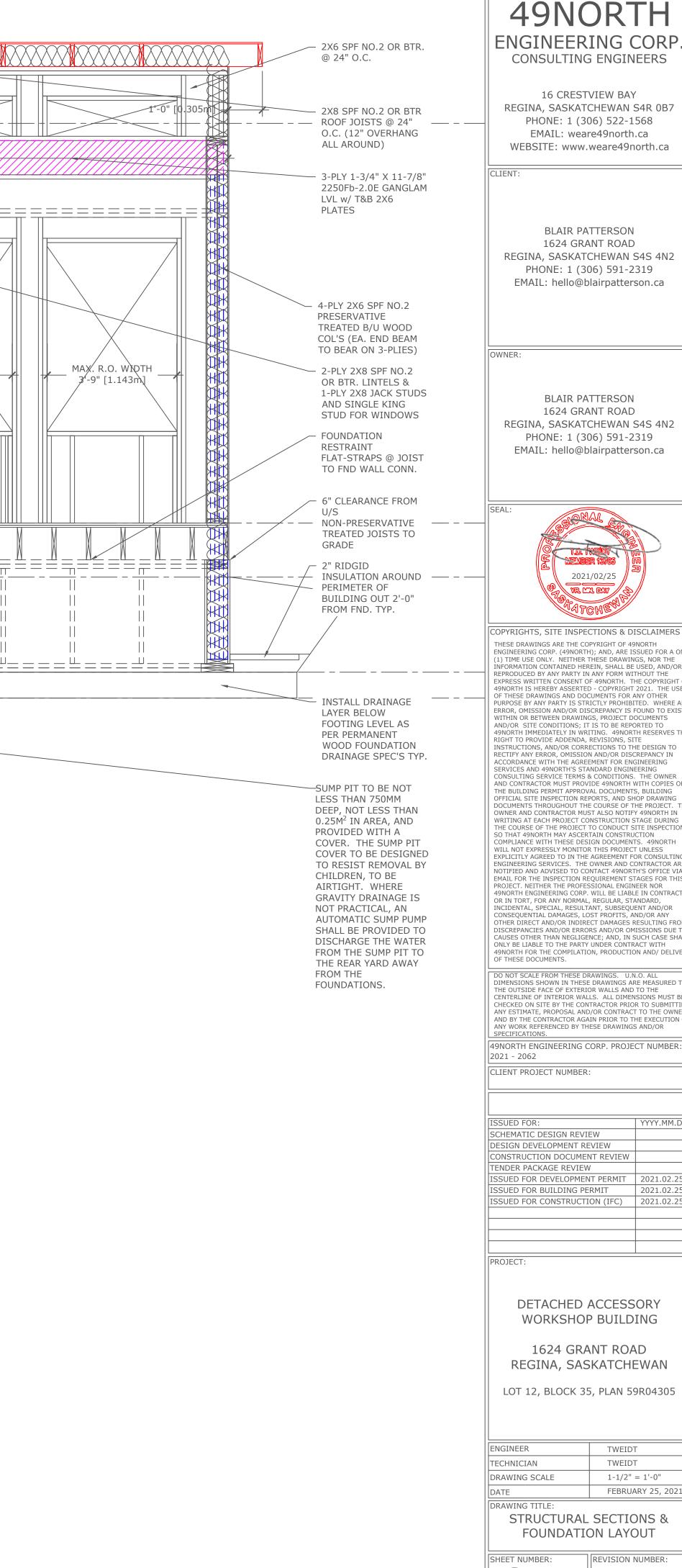
S1.0

INSTALL DRAINAGE LAYER BELOW FOOTING LEVEL AS PER PERMANENT WOOD FOUNDATION DRAINAGE SPEC'S TYP.

-SUMP PIT TO BE NOT LESS THAN 750MM DEEP, NOT LESS THAN 0.25M² IN AREA, AND PROVIDED WITH A COVER. THE SUMP PIT COVER TO BE DESIGNED TO RESIST REMOVAL BY CHILDREN, TO BE AIRTIGHT. WHERE GRAVITY DRAINAGE IS NOT PRACTICAL, AN AUTOMATIC SUMP PUMP SHALL BE PROVIDED TO DISCHARGE THE WATER FROM THE SUMP PIT TO THE REAR YARD AWAY FROM THE FOUNDATIONS.

-ROOF OUTLINE FOR REFERENCE





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STRUCTURAL ENGINEERING CONSULTANT

16 CRESTVIEW BAY

BLAIR PATTERSON

1624 GRANT ROAD

CLIENT PROJECT NUMBER: ISSUED FOR: YYYY.MM.DD SCHEMATIC DESIGN REVIEW DESIGN DEVELOPMENT REVIEW CONSTRUCTION DOCUMENT REVIEW ENDER PACKAGE REVIEW ISSUED FOR DEVELOPMENT PERMIT 2021.02.25 ISSUED FOR BUILDING PERMIT 2021.02.25 ISSUED FOR CONSTRUCTION (IFC) 2021.02.25

DETACHED ACCESSORY WORKSHOP BUILDING

1624 GRANT ROAD REGINA, SASKATCHEWAN

LOT 12, BLOCK 35, PLAN 59R04305

NGINEER	TWEIDT
ECHNICIAN	TWEIDT
DRAWING SCALE	1-1/2" = 1'-0"
DATE	FEBRUARY 25, 2021
DRAWING TITLE:	
STRUCTURAL	SECTIONS &
FOUNDATIO	ON LAYOUT
HEET NUMBER:	REVISION NUMBER:
S1.0	

RESIDENTIAL - EXTERIOR WALLS - SPECIAL CONSTRUCTION REQUIREMENTS - 2015 NBC:	RESIDENTIAL - PROTECTION OF FOAMED PLASTICS - 2015 NBC: RESIDENTIAL - G JOINTS) - 2015 N
 WHERE A WALL (AND/OR GABLE END WALL THAT ENCLOSE AN ATTIC OR ROOF SPACE) IS LOCATED LESS THAN 1.2m (APPROX. 4'-0") FROM A PROPERTY LINE, THE WALL IS TO HAVE NO OPENINGS AND BE PROTECTED BY A ³/₄-HOUR FIRE RESISTANCE RATING IN ACCORDANCE WITH SUBSECTION 9.10.15 OF THE 2015 NBC. WHERE THE BUILDING IS LOCATED LESS THAN 1.2m (APPROX. 4'-0") FROM A PROPERTY LINE: THE ENTIRE INTERIOR FACE OF THE AFFECTED WALL IS TO BE CLAD WITH ONE LAYER OF ¹/₂" TYPE X OR TYPE C GYPSUM WALLBOARD SHEATHING, AND NO DOORS AND/OR WINDOWS MAY BE INSTALLED IN THE WALL. ARTICLE 9.10.15.5 OF THE 2015 NBC ALSO INDICATES THAT WHERE A WALL IS LOCATED LESS THAN 1.2m (APPROX. 4'-0") BUT MORE THAN 0.60m (APPROX. 2'-0') FROM THE PROPERTY LINE, THE WALL IS TO BE PROVIDED WITH A NON-COMBUSTIBLE EXTERIOR CLADDING ON THE EXTERIOR FACE. THIS REQUIREMENT CAN BE ACHIEVED BY USING A CLADDING MATERIAL SUCH AS: METAL SIDING, OR NON-COMBUSTIBLE FIBRE-CEMENT BOARD SIDING MEETING THE REQUIREMENTS OF SECTION 9.27; CEMENT BASED STUCCO MEETING THE REQUIREMENTS OF SECTION 9.28; OR, MASONRY MEETING THE REQUIREMENTS OF SECTION 9.20. VINYL SIDING (OR OTHER SUCH COMBUSTIBLE SIDING SUCH AS "WOOD BASED" SIDING) FALLING WITHIN THE SCOPE OF SECTION 9.27, MAY NOT BE USED ON THE EXTERIOR FACE OF A WALL LOCATED LESS THAN 1.2m BUT MORE THAN 0.60m FROM THE PROPERTY LINE UNLESS IT IS: INSTALLED OVER A LAYER OF ¹/₂" GYPSUM BASED SHEATHING (SUCH AS 1 LAYER OF ¹/₂" EXTERIOR GRADE GP DENSGLASS FIREGUARD SHEATHING TO EXTERIOR FACE IN PLACE OF EXTERIOR GRADE PLYWOOD OR OS B HEATHING IN TYPICAL WALL ASSEMBLY; HAS A FLAME SPREAD RATING OF NOT GREATER THAN 25 WHEN TESTED IN ACCORDANCE WITH SENTENCE 3.1.12.1.(2); AND, 	1. PROTECTION OF FOAMED PLASTICS IS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2015 NBC ARTICLE 9.10.17.10. AND NOTE A-3.1.4.2.AND THE REQUIREMENTS BELOW. (i.e. FOR FIRE SE IN ACCORDANCE CONFORM TO TH 1.2. EXCEPT AS PROVIDED BELOW, FOAMED PLASTICS THAT FORM PART OF A WALL OR CEILING ASSEMBLY SHALL BE PROTECTED FORM ADJACENT SPACE IN THE BUILDING, OTHER THAN ADJACENT CONCEALED SPACES WITHIN ATTIC OR ROOF SPACES, CRAWL SPACES, WALL ASSEMBLIES AND CEILING ASSEMBLIES 1.2. APPLICATION." F APPLICATION." F 1.2.1. BY ONE OF THE INTERIOR FINISHES DESCRIBED IN SUBSECTIONS 2015 NBC 9.29.4. TO 9.29.9. I.2.2. 1.3. MATERIALS ACCE I.3.1. 1.2.2. PROVIDED THE BUILDING DOES NOT CONTAIN A GROUP C MAJOR OCCUPANCY, BY SHEET METAL THAT 1.3. MATERIALS ACCE I.3.1. 1.2.2.1 IS MCHANICALLY FASTENED TO THE SUPPORTING ASSEMBLY INDEPENDENT OF THE INSULATION, 1.3. ATM-C1396/CI I.3.3. EXCEPT THAT TH ACCORDANCE W 1.2.2.2. IS NOT LESS THAN 0.38 MM THICK, AND I.3. EXCEPT THAT TH ACCORDANCE W BUILDING MATER I.4. MAXIMUM SPACIL I.4.1. 1.2.3. BY ANY THERMAL BARRIER THAT MEETS THE REQUIREMENTS OF 2015 NBC SENTENCE 3.1.5.15.(2).(ALSO SEE 2015 NBC NOTE A-3.1.4.2.(1)(c).) MALK-IN COOLER OR FREEZER CONSISTING OF FACTORY-ASSEMBLED WALL, FLOOR OR CEILING PANELS MAX. SPACING OF SUPPO 1.3.1. ARE PROTECTED TO NOT LESS THAN 650°C, I.3.2. MALK-IN COOLER OR FREEZER CONSISTING OF FACTORY-ASSEMBLED WALL, FLOOR OR MELTING POIN
3.3. THE VINYL SIDING MUST BE LESS THAN 2mm IN OVERALL MATERIAL THICKNESS.	1.4. THERMOSETTING FOAMED PLASTIC INSULATION HAVING AFLAME-SPREAD RATING OF NOT MORE THAN 200 IS PERMITTED TO BE USED IN FACTORY-ASSEMBLED DOORS PROVIDED THAT 1.4.1. THE INSULATION IS COVERED ON THE INTERIOR WITH A METALLIC FOIL, 1.4.2. THE ASSEMBLY HAS A FLAME-SPREAD RATING OF NOT MORE THAN 200, AND 1.4.3. THE ASSEMBLY INCORPORATES NO AIR SPACES.
RESIDENTIAL - EAVES & SOFFITS - SPECIAL CONSTRUCTION REQUIREMENTS - 2015 NBC:	1 @ 9.5mm (3/8") 1 @ 9.5mm (3/8") 1 @ 9.5mm (3/8") 1 @ 9.5mm (1/8") 1 @ 12.7mm (1/2")
 A COMBUSTIBLE ROOF SOFFIT PROJECTION IS NOT PERMITTED TO BE LOCATED WITHIN 45mm (18") OF A PROPERTY LINE. NO WOOD FRAMING MEMBER INCLUDING WOOD ROOF TRUSSES, ROOF RAFTERS AND/OR ROOF JOISTS MUST BE CUT TO ENSURE THEY ARE NOT LOCATED WITHIN 18" OF A PROPERTY LINE. A COMBUSTIBLE ROOF SOFFIT PROJECTION LOCATED LESS THAN 1.2m (4'-0"), BUT MORE THAN 0.45m (1'-6"), FROM A PROPERTY LINE MUST HAVE NO OPENINGS AND BE PROTECTED BY ONE OF THE SIX (6) ITEMS LISTED IN CLAUSE 9.10.15.5.(10)(B), WHICH INCLUDE: 0.38mm THICK SHEET STEEL, UNVENTED ALUMINUM CONFORMING TO CAN/CGSB-93.2-M, 12.7mm (1/2") THICK GYPSUM WALLBOARD MEETING CSA A82.31-M, 11mm THICK PLYWOOD, 12.5mm THICK OSB, OR 11mm THICK SOLID LUMBER. IN ACCORDANCE WITH SENTENCE 9.10.15.5.(11) ANY AND/OR ALL OF THE ABOVE ITEMS LISTED IN 3.1 TO 3.6 MAY BE COVERED WITH SOFFIT MATCHING THE BALANCE OF THE BUILDING SO THAT THE PROJECTION LOOKS THE SAME AS THE BALANCE OF THE PROJECTIONS ON THE BUILDING. 	- 2015 NBC: 1. MOISTURE PROTECTION 1.1. THE REQUIREMENTS FOR MOISTURE PROTECTION FOR INTERIOR FINISHES IS TO BE IN ACCORDANCE WITH THE 2015 NBC ARTICLE 9.13.2.5. AND NOTE A-9.13.2.5. 1.2. THE INTERIOR SURFACE OF FOUNDATION WALLS BLOW GROUND LEVEL SHALL BE PROTECTED BY MEANS THAT MINIMIZE THE INGRESS OF MOISTURE FROM THE FOUNDATION WALL INTO INTERIOR SPACES, WHERE 1.2.1. A SEPARATE INTERIOR FINISH IS APPLIED TO A CONCRETE OR UNIT MASONRY WALL THAT IS IN CONTACT WITH THE SOIL, OR 1.2.2. WOOD MEMBERS ARE PLACED IN CONTACT WITH SUCH WALLS FOR THE INSTALLATION OF INSULATION OR FINISH. 1.3. EXCEPT AS PROVIDED IN 1.4 BELOW, WHERE THE PROTECTION OF INTERIOR FINISHES REQUIRED IN 1.2, ABOVE, CONSISTS OF MEMBRANES OR COATINGS, 1.3.1. THE MEMBRANE OR COATING SHALL EXTEND FROM THE SLAB-ON-GRADE FLOOR SURFACE, LOCATED BLEW GRADE LEVEL, UP TO THE HIGHEST EXTENT OF THE INTERIOR INSULATION OR FINISH, BUT NOT HIGHER THAN THE EXTERIOR FINISHED GROUND LEVEL, AND 1.3.2. NO MEMBRANE OR COATING SHALL EXTEND FROM THE SLAB-ON-GRADE FLOOR SURFACE, LOCATED BLEW GRADE LEVEL, UP TO THE HIGHEST EXTENT OF THE INTERIOR INSULATION OR FINISH, BUT NOT HIGHER THAN THE EXTERIOR FINISHED GROUND LEVEL, AND 1.3.2. NO MEMBRANE OR COATING WITH A PERMEANCE LESS THAN 170 NG/(PA-S-M2) SHALL BE APPLIED TO THE INTERIOR SURFACE OF THE FOUNDATION WALL ABOVE GROUND LEVEL
GENERAL THERMAL & MOISTURE PROTECTION SPEC'S: 1. REFER TO DRAWINGS FOR LOCATIONS OF ALL THERMAL & MOSTURE PROTECTION ELEMENTS IN BUILDING ASSEMBLIES.	1.4. WHERE INSULATION AND THE FOUNDATION WALL. >1 @ 12.7mm (1/2") 1.4. WHERE INSULATION FUNCTIONS AS BOTH MOISTURE PROTECTION FOR INTERIOR FINISHES AND AS A VAPOUR-BARRIER IN ACCORDANCE WITH 2015 NBC SUBSECTION 9.25.4., IT SHALL BE APPLIED OVER THE ENTIRE INTERIOR SURFACE OF THE FOUNDATION WALL. >1 @ 12.7mm (1/2") 1.5. NOTE 1: PROTECTION OF INTERIOR SURFACE OF THE FOUNDATION WALL. 1.5. 1.5. NOTE 1: PROTECTION OF INTERIOR SURFACE OF THE FOUNDATION WALL. 1.5. SPACES, PARTICULARLY IN THE SPRING AND SUMMER. WHERE MOISTURE-SUSCEPTIBLE MATERIALS, SUCH AS FINISHES OR WOOD MEMBERS, ARE IN CONTACT WITH THE FOUNDATION 1.5.
AIR, MOISTURE & VAPOUR-BARRIERS GENERAL:	 WALL, THE MOISTURE NEEDS TO BE CONTROLLED BY INSTALLING A MOISTURE BARRIER ON THE INTERIOR SURFACE OF THE FOUNDATION WALL THAT EXTENDS FROM THE UNDERSIDE OF THE INTERIOR FINISH UP THE FACE OF THE WALL TO A POINT JUST ABOVE THE LEVEL OF THE GROUND OUTSIDE. 1.6. NOTE 2: THE REASON THE MOISTURE BARRIER ON THE INTERIOR SURFACE OF THE FOUNDATION WALL MUST BE STOPPED NEAR GROUND LEVEL IS TO ALLOW ANY MOISTURE THAT FINDS ITS WAY INTO THE FINISHED WALL CAVITY FROM THE INTERIOR SPACE (THROUGH LEAKS IN THE AIR OR VAPOUR BARRIER) TO DIFFUSE TO THE EXTERIOR. IF THE VAPOUR
 CONFORM TO: 0.15MM (6 MIL) POLY CONFORMING TO CAN/CGSB-51.34-M, "VAPOUR BARRIER, POLYETHYLENE SHEET FOR USE IN BUILDING CONSTRUCTION", MATERIAL IS TO BE INSTALLED DIRECTLY BENEATH ALL CONCRETE FLOORS (BOTH FLOOR-ON-GROUND AND STRUCTURAL SLABS), AND BE LAPPED NOT LESS THAN 300MM (12"), AND THE POLY IS TO EXTEND UP THE FOUNDATION WALL/GRADE BEAM AT LEAST 150MM (6") BEYOND HE THICKNESS OF THE SLAB, SO THAT T MAY BE TIED INTO THE MOISTURE BARRIER FOR THE EXTERIOR ALL ALL PENETRATIONS THROUGH, AND THE PERIMETER OF, THE POLY ARE TO BE SEALED USING A FLEXIBLE ACOUSTICAL SEALANT AND 3M CONTRACTORS TAPE. ONCE THE CONCRETE SLAB HAS BEEN CAST, USE ACOUSTICAL SEALANT TO CAULK THE SLAB PERIMETER TO THE FOUNDATION WALL, PRIOR TO COMPLETING ANY INTERIOR WORK IN THE ROOM. IS TO BE INSTALLED ON THE WARM SIDE OF ALL INSULATED WALL, CEILING AND FLOOR 	PERMEANCE OF DAMPPROOFING MEMBRANES OR COATINGS EXCEEDS 170 NG/(PA·S·M 2), SUCH MOISTURE BARRIERS MAY BE CARRIED FULL HEIGHT; IT THEIR VAPOUR PERMEANCE IS LESS THAN THAT, THIS MOISTURE RISKS BEING TRAPPED ON THE INTERIOR SURFACE OF THE MOISTURE BARRIERS. THE PERMEANCE LIMIT CORRESPONDS TO THE LOWER LIMIT FOR BREATHER-TYPE MEMBRANES, SUCH AS ASPHALT-IMPREGNATED SHEATHING PAPER. 1.7. NOTE 3: SOME INSULATION PRODUCTS CAN ALSO BE USED TO PROTECT INTERIOR FINISHES FROM THE EFFECTS OF MOISTURE. THEY HAVE SHOWN ACCEPTABLE PERFORMANCE WHEN APPLIED OVER THE ENTIRE FOUNDATION WALL BECAUSE, IN THIS CASE, THEY ALSO PROVIDE VAPOUR BARRIER AND MOISTURE BARRIER FUNCTIONS AND POSSIBLY ALSO THE AIR BARRIER FUNCTION. WHERE A SINGLE PRODUCT PROVIDES ALL THESE FUNCTIONS, THERE IS NO RISK OF TRAPPING MOISTURE BETWEEN TWO FUNCTIONAL BARRIERS WITH LOW WATER VAPOUR PERMEANCE.
 ASSEMBLIES, WHERE THE ASSEMBLY SEPARATES A HEATED/CONDITIONED SPACE FROM THE EXTERIOR OF THE BUILDING OR AN UNHEATED/UNCONDITIONED SPACE WITHIN THE BUILDING. 6. JOINTS ARE TO BE LAPPED NOT LESS THAN 150MM (6") AND BE SEALED USING A FLEXIBLE ACOUSTICAL SEALANT AND 3M CONTRACTORS TAPE. ALL JOINTS ARE TO BE AT WALL STUDS, OR CEILING FRAMING MEMBERS FOR SOLID BACKING. PROVIDE A CONTINUOUS BEAD OF SEALANT AT THE INTERSECTION OF TOP WALL PLATES WITH ROOF/CEILING FRAMING, AND BOTTOM WALL PLATES WITH SUBFLOOR SHEATHING FOR CONTINUITY. 	Image: Support for support for cladding, sheathing and finishing materials, 1Hour 20 I. Support for support for cladding, sheathing and finishing materials, 1.5-Hours 20 I.1. Support for support for cladding, sheathing and finishing materials is to be in accordance with the requirements of the 2015 NBC article 9.23.10.6. 1.7. NAILS FOR FASTI 1.2. CORNERS AND INTERSECTIONS SHALL BE CONSTRUCTED TO PROVIDE ADEQUATE SUPPORT FOR THE VERTICAL EDGES OF INTERIOR FINISHES, SHEATHING AND CLADDING MATERIALS, AND IN NO INSTANCE SHALL EXTERIOR CORNERS BE FRAMED WITH LESS THAN THE 1.7. NAILS FOR FASTI 1.7.1. ASTM-F1667, "UP 1.7. ASTM-F1667, "UP
THERMAL INSULATION: 1. WHEN SPECIFIED IN THE DRAWINGS, THERMAL INSULATION SHALL CONFORM TO THE REQUIREMENTS OF: 2. CAN/CGSB-51.25-M, "THERMAL INSULATION, PHENOLIC, FACED," 2. CAN/CGSB-51.25-M, "THERMAL INSULATION, PHENOLIC, FACED,"	EQUIVALENT OF 2 STUDS. 1.3. WHERE THE VERTICAL EDGES OF INTERIOR FINISHES AT WALL INTERSECTIONS ARE SUPPORTED AT VERTICAL INTERVALS BY BLOCKING OR FURRING, THE VERTICAL DISTANCE BETWEEN SUCH SUPPORTS SHALL NOT EXCEED THE MAXIMUM DISTANCE BETWEEN SUPPORTS SPECIFIED IN 2015 NBC SECTION 9.29. 1.8. SCREWS FOR FAX 1.8.1. ASTM-C1002, "ST PRODUCTS, OR M 1.9.1. POR EACH LAYER 1.9.1.1. NOT MORE THAN 1.9.1.2. EVERY 300mm (1
 CGSB 51-GP-27M, "THERMAL INSULATION, POLYSTYRENE, LOOSE FILL," CAN/ULC-S701, "THERMAL INSULATION, POLYSTYRENE, BOARDS AND PIPE COVERING," CAN/ULC-S702, "MINERAL FIBRE THERMAL INSULATION FOR BUILDINGS," CAN/ULC-S703, "CELLULOSE FIBRE INSULATION (CFI) FOR BUILDINGS," CAN/ULC-S704, "THERMAL INSULATION, POLYURETHANE AND POLYISOCYANURATE, BOARDS, FACED," CAN/ULC-S705.1, "THERMAL INSULATION – SPRAY APPLIED RIGID POLYURETHANE 	RESIDENTIAL - INTERIOR WALL & CEILING FINISHES FIRE PROTECTION & SOUND CONTROL - 2015 NBC: 1.9.2. WHERE THE CEIL THE CEILING, THE CEILING FINISHES, FIRE PROTECTION AND SOUND CONTROL, SEE 2015 NBC ARTICLE 9.29.1.1. 2. A WALL OR CEILING FINISH SHALL ALSO CONFORM TO THE APPROPRIATE REQUIREMENTS IN 2015
 FOAM, MEDIUM DENSITY - MATERIAL - SPECIFICATION," OR CAN/ULC-S706, "WOOD FIBRE THERMAL INSULATION FOR BUILDINGS." FOR THICKNESS, LOCATION, TYPE AND RSI VALUE REFER TO DRAWINGS. CUT AND TRIM BATTS NEATLY TO FIT SPACES. DO NOT OVER COMPRESS FRICTION FIT BATT MATERIALS. SPRAY APPLIED FOAM INSULATION MUST BE PROTECTED FROM HEAT EXPOSURE IN ACCORDANCE 	NBC SECTIONS 9.10. AND 9.11., IN ADDITION TO THE REQUIREMENTS IN THESE SPECIFICIATIONS. (8") O.C. ON 1.9.4.1. VERTICAL WALL 1.9.4.2. TOP AND BOTTO 1.9.5. THE UPPERMOST BELOW THE CETI
 WITH PART 9 OF THE NBC. SPRAY-APPLIED PRODUCTS, SUCH AS "MONOKOTE Z-3306 THERMAL BARRIER", THAT HAVE BEEN TESTED TO THE CAN/ULC-S124, "TEST FOR THE EVALUATION OF PROTECTIVE COVERINGS FOR FOAMED PLASTIC" STANDARD, AND HAVE BEEN FOUND TO MEET THE "B CLASSIFICATION" REQUIREMENTS ARE PERMISSIBLE. MINIMUM REQUIRED THICKNESS IN ORDER TO ACHIEVE THE "B CLASSIFICATION". 16. UNDERSLAB INSULATION TO BE OF EPS OR XPS TYPE 4 RIGID INSULATION RATED AT 2,500 KPA (363PSI) @ 2% DEFORMATION WHEN TESTED AS PER ASTM D1621 	RESIDENTIAL - WATERPROOF WALL FINISH - 2015 NBC: 1.9.6. NAILS SHALL BE 1. WATERPROOF WALL FINISH 1.1.0.1. FOR EACH LAYER 1.1. WATERPROOF WALL FINISH IS TO CONFORM TO THE REQUIREMENTS OF THE 2015 NBC ARTICLE 9.29.2.1. 1.0.1. FOR EACH LAYER 1.2. WHERE REQUIRED, WATERPROOF FINISH SHALL BE PROVIDED TO A HEIGHT OF NOT LESS THAN 1.10.2. WHERE THE CEIL THE CEILING, THE CEILIN
 WHEN SPECIFIED IN THE DRAWINGS, MATERIALS USED FOR EXTERIOR DAMPPROOFING SHALL CONFORM TO: CAN/CGSB-37.1-M, "CHEMICAL EMULSIFIER TYPE, EMULSIFIED ASPHALT FOR DAMPPROOFING," CAN/CGSB-37.2-M, "EMULSIFIED ASPHALT, MINERAL-COLLOID TYPE, UNFILLED, FOR 	1.2.4. 400mm (16") ABOVE THE RIMS OF SINKS, WASH BASINS, AND JANITOR SINKS AGAINST THE WALL. MORE THAN 400r 1.3. WATERPROOF WALL FINISH MATERIALS SHALL CONSIST OF EITHER: 1.10.3.2. 1.3.1. CERAMIC, NOT MORE THAN 1.3.2. PLASTIC OR METAL TILE, NOT MORE THAN 1.3.3. SHEET VINYL, SUPPORT FOR ST 1.3.4. TEMPERED HARDBOARD, 1.10.4. 1.3.5. LAMINATED THERMOSETTING DECORATIVE SHEETS, OR 1.10.4.2. 1.3.6. LINOLEUM. 1.10.5.
 CAMPPROOFING AND WATERPROOFING AND FOR ROOF COATINGS," CGSB 37-GP-6MA, "ASPHALT, CUTBACK, UNFILLED, FOR DAMPPROOFING," CAN/CGSB-37.16-M, "FILLED, CUTBACK ASPHALT FOR DAMPPROOFING, AND WATERPROOFING," CGSB 37-GP-18MA, "TAR, CUTBACK, UNFILLED, FOR DAMPPROOFING," CGSB 37-GP-18MA, "TAR, CUTBACK, UNFILLED, FOR DAMPPROOFING," CAN/CGSB-51.34-M, "VAPOUR BARRIER, POLYETHYLENE SHEET FOR USE IN BUILDING CONSTRUCTION," OR CAN/CGSA-A123.4, "ASPHALT FOR CONSTRUCTING BUILT-UP ROOF COVERINGS AND WATERPROOFING SYSTEMS." WHEN SPECIFIED IN THE DRAWINGS, THE METHOD OF APPLICATION OF ALL BITUMINOUS DAMPPROOFING MATERIALS SHALL CONFORM TO: CAN/CGSB-37.3-M, "APPLICATION OF EMULSIFIED ASPHALTS FOR DAMPPROOFING OR WATERPROOFING," CGSB 37-GP-12MA, "APPLICATION OF UNFILLED, CUTBACK TAR FOUNDATION COATING FOR DAMPPROOFING." 	RESIDENTIAL - WOOD FURRING FOR INTERIOR FINISHES - SIZES, 1.10.6. SCREWS SHALL E SPACING & FASTENING - 2015 NBC: 1.10.7. SCREWS SHALL E 1. SIZE AND SPACING OF WOOD FURRING 1.1. THE SIZE AND SPACING OF WOOD FURRING, SHALL CONFORM TO 2015 NBC ARTICLES 9.29.3.1 8.9.29.3.2. 0.11.1. 1.1.1. WOOD FURRING FOR THE ATTACHMENT OF WALL AND CEILING FINISHES SHALL CONFORM TO 2015 NBC ARTICLES 9.29.3.1 1.1.2. FURRING SHALL BE FASTENED TO THE FRAMING OR TO WOOD BLOCKS WITH NOT LESS THAN 51mm (2") LONG NAILS. 1.1.3. SIZE AND SPACING OF FURRING SHALL CONFORM TO FOLLOWING TABLE: MIN. SIZE OF FURRING mm (inches) NIN. SIZE OF FURRING mm (inches)
	MAX. SPACING OF FURRING mm (inches) MAX. SPACING OF FURRING MAX. SPACING OF FURRING SUPPORTS mm (inches) MAX. SPACING OF FURRING SUPPORTS mm (inches) FOR 48-HOURS THER
 WHEN SPECIFIED IN THE DRAWINGS, MATERIALS USED FOR EXTERIOR WATERPROOFING SHALL CONFORM TO: CAN/CGSB-37.2-M, "EMULSIFIED ASPHALT, MINERAL-COLLOID TYPE, UNFILLED, FOR DAMPPROOFING AND WATERPROOFING AND FOR ROOF COATINGS," CAN/CGSB-37.16-M, "FILLED, CUTBACK ASPHALT FOR DAMPPROOFING AND WATERPROOFING," CAN/CGSA-A123.4, "ASPHALT FOR CONSTRUCTING BUILT-UP ROOF COVERINGS AND WATERPROOFING SYSTEMS."OR WP-3B98 BLUESKIN WP 200 AS MANUFACTURED BY HENRY/BAKOR. WHEN SPECIFIED IN THE DRAWINGS, THE METHOD OF APPLICATION OF ALL BITUMINOUS WATERPROOFING MATERIALS SHALL CONFORM TO: THE METHOD OF APPLICATION OF ALL BITUMINOUS WATERPROOFING MATERIALS SHALL 	CONTINUOUS SUPPORTS 400mm (16") O.C. 600mm (24") O.C. 300mm (12") 19mm x 38mm $(\frac{3}{4}^{n} \times 1-\frac{1}{2}^{n})$ 19mm x 38mm $(\frac{3}{4}^{n} \times 1-\frac{1}{2}^{n})$ 19mm x 64mm $(\frac{3}{4}^{n} \times 2-\frac{1}{2}^{n})$ 19mm x 64mm $(\frac{3}{4}^{n} \times 2-\frac{1}{2}^{n})$ 10mm x 64mm $(\frac{3}{4}^{n} \times 2-\frac{1}{2}^{n})$ 1. VENTING 600mm (24") 19mm x 38mm $(\frac{3}{4}^{n} \times 1-\frac{1}{2}^{n})$ 19mm x 64mm $(\frac{3}{4}^{n} \times 2-\frac{1}{2}^{n})$ 19mm x 89mm $(\frac{3}{4}^{n} \times 3-\frac{1}{2}^{n})$ 1. VENTING 1.1. ALL ROOF VEN DETAILED IN $(\frac{3}{4}^{n} \times 2-\frac{1}{2}^{n})$ 19mm x 89mm $(\frac{3}{4}^{n} \times 3-\frac{1}{2}^{n})$ 1.2. REQUIRED VEI 1.2.1. VENTING $(\frac{3}{4}^{n} \times 2-\frac{1}{2}^{n})$ $(\frac{3}{4}^{n} \times 3-\frac{1}{2}^{n})$ 1.3. VENT REQUIRE
 THE METHOD OF APPLICATION OF ALL BITUMINOUS WATERPROOFING MATERIALS SHALL CONFORM TO CAN/CGSB-37.3-M, "APPLICATION OF EMULSIFIED ASPHALTS FOR DAMPPROOFING OR WATERPROOFING." WHEN SPECIFIED IN THE DRAWINGS, THE METHOD OF APPLICATION OF ALL BLUESKIN WP 200 AS MANUFACTURED BY HENRY/BAKOR MATERIALS SHALL CONFORM TO: THE METHOD OF APPLICATION AS DEP THE LATEST MANUFACTURED'S TECHNICAL INSTALLATION 	1.3. VENT REQUIR 1.3.1. EXCEPT AS PR 1/300 OF THE 1.3.2. WHERE THE R ROOF JOISTS, INSIL ATED CI

WHEN SPECIFIED IN THE DRAWINGS, THE METHOD OF APPLICATION OF ALL BLUESKIN WP 200 AS MANUFACTURED BY HENRY/BAKOR MATERIALS SHALL CONFORM TO: THE METHOD OF APPLICATION AS PER THE LATEST MANUFACTURER'S TECHNICAL INSTALLATION INSTRUCTIONS FOR THE APPLICATION FOR WHICH THE MATERIAL IS BEING USED.

SEALANTS AND CAULKING:

- CLEAN ALL SURFACES THAT ARE TO RECEIVE SEALANT. INSTALL SEALANT AND BACKING RODS AT ALL LOCATIONS INDICATED ON THE DRAWINGS AND
- AS REQUIRED BY BEST PRACTICES BUILDING TECHNIQUES WHERE NOT SHOWN ON DRAWINGS. BACKING RODS ARE TO BE POLYETHYLENE URETHANE, NEOPRENE OR VINYL.
- APPLY ALL SEALANTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. CLEAN ADJACENT SURFACES IMMEDIATELY AND LEAVE WORK NEAT AND CLEAN

		ARD INTERIOR	FINISHES (WITH TAPED
TS) - 201	12 NBC:		
(i.e. FOR FJ IN ACCORE CONFORM APPLICATI GYPSUM BC APPLICATI MATERIALS ASTM-C11 ASTM-C13 EXCEPT TH ACCORDAN BUILDING MAXIMUM 3	IRE SEPARATIONS HAV JANCE WITH CAN/ULC. TO THE SPECIFICATIO ON OF GYPSUM BOARD DARD ASSEMBLIES SH DA." FOR BOTH SINGL S ACCEPTABLE AS GYP; 78/C1178M, "COATED 96/C1396M, "GYPSUM AT THE FLAME-SPREAI ICE WITH CAN/ULC-SI MATERIALS AND ASSE SPACING OF SUPPORT SPACING OF SUPPORT	/ING A FIRE-RESISTAN -5101) GYPSUM BOARI NS NOTED BELOW. D INTERIOR FINISHES. ALL CONFORM TO CSA E-LAYER AND MULTI-L SUM BOARD INTERIOR GLASS MAT WATER-RE BOARD," D RATING OF GYPSUM 02, "TEST FOR SURFAC MBLIES." S FOR GYPSUM BOARD S FOR GYPSUM BOARD	FINISHES SHALL CONFORM TO: SISTANT GYPSUM BACKING PANEL," OR BOARD SHALL BE DETERMINED IN SE BURNING CHARACTERISTICS OF
PACING OF S	SUPPORTS FOR GYPSU	M BOARD FOR SINGLE (SEE 1.4 ABOVE)	-LAYER AND MULTI-LAYER APPLICATIONS
		MAX. SPAC	CING OF SUPPORTS, mm (inches)
OF LAYERS	ORIENTATION OF FRAMING		CEILINGS

(inches)		WALLS					
	WALLS				PAINTED FINISH	WATER-BASED TEXTURE FINISH	
SUM BOARD CON	FORMING TO ALL SEC	TIONS (EXCEPT SECTI	ONS 9 AND 12) OF AS	TM-C1396 / C-1396M			
9.5mm (3/8")	PARALLEL	N/A	N/A	N/A			
9.5mm (3/8")	PERPENDICULAR	400mm (16")	400mm (16")	N/A			
12.7mm (1/2")	PARALLEL	600mm (24")	400mm (16")	N/A			
12.7mm (1/2")	PERPENDICULAR	600mm (24")	600mm (24")	400mm (16")			
15.9mm (5/8")	PARALLEL	600mm (24")	400mm (16")	N/A			
15.9mm (5/8")	PERPENDICULAR	600mm (24")	600mm (24")	600mm (24")			
@ 9.5mm (3/8")	PARALLEL	600mm (24")	600mm (24")	600mm (24")			
@ 9.5mm (3/8")	PERPENDICULAR	600mm (24")	600mm (24")	600mm (24")			
) 12.7mm (1/2")	PARALLEL	600mm (24")	600mm (24")	600mm (24")			
) 12.7mm (1/2")	PERPENDICULAR	600mm (24")	600mm (24")	600mm (24")			
) 15.9mm (5/8")	PARALLEL	600mm (24")	600mm (24")	600mm (24")			
) 15.9mm (5/8")	PERPENDICULAR	600mm (24")	600mm (24")	600mm (24")			
GYPSUN	1 BOARD CONFORMIN	G TO ONLY SECTION 1	.2 OF ASTM-C1396 / C	-1396M			
12.7mm (1/2")	PARALLEL	600mm (24")	400mm (16")	N/A			
12.7mm (1/2")	PERPENDICULAR	600mm (24")	600mm (24")	600mm (24")			
) 12.7mm (1/2")	PARALLEL	600mm (24")	600mm (24")	600mm (24")			
) 12.7mm (1/2")	PERPENDICULAR	600mm (24")	600mm (24")	600mm (24")			

SUPPORT OF INSULATION BEHIND GYPSUM BOARD INTERIOR FINISHES GYPSUM BOARD SUPPORTING INSULATION SHALL BE NOT LESS THAN 12.7mm (1/2") THICK LENGTH OF FASTENERS FOR SINGLE-LAYER, AND MULTI-LAYER, GYPSUM BOARD INTERIOR THE LENGTH OF FASTENERS FOR GYPSUM BOARD SHALL CONFORM TO 2015 NBC TABLE 9.29.5.5. EXCEPT THAT LESSER DEPTHS OF PENETRATION ARE PERMITTED FOR ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING, SOLELY ON THE BASIS OF FIRE TESTS, THAT SUCH DEPTHS ARE ADEQUATE FOR THE REQUIRED RATING.

		TO WOOD ONLY SUPPO + THICKNESS OF MAT	
WALLS (WOOD FRAM MAX. 400mr			MED WITH SUPPORTS nm (24" O.C.)
NAILS	SCREWS	NAILS	SCREWS
 20mm (0.787")	15mm (0.591")	20mm (0.787")	15mm (0.591")
20mm (0.787") + 12.7mm (0.500")GWB = 32.7mm (1.287")	20mm (0.787")	30mm (1.181")	30mm (1.181")
20mm (0.787")	20mm (0.787")	45mm (1.772")	45mm (1.772")
20mm (0.787")	20mm (0.787")	60mm (2.362")	60mm (2.362")
45mm (1.772")	45mm (1.772")	90mm (3.543")	90mm (3.543")

NAILS FOR FASTENING GYPSUM BOARD TO WOOD SUPPORTS SHALL CONFORM TO: ASTM-F1667, "DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES," OR CSA-B111, "WIRE NAILS, SPIKES AND STAPLES."

SCREWS FOR FASTENING GYPSUM BOARD TO WOOD SUPPORTS SHALL CONFORM TO: ASTM-C1002, "STEEL SELF-PIERCING TAPPING SCREWS FOR THE APPLICATION OF GYPSUM PANEL PRODUCTS, OR METAL PLASTER BASES TO WOOD STUDS OR STEEL STUDS." SPACING OF NAILS IN EACH LAYER OF GYPSUM BOARD SUPPORTED

FOR EACH LAYER APPLIED ON A CEILING, NAILS SHALL BE SPACED NOT MORE THAN 180mm (6") O.C. ON CEILING SUPPORTS, OR

SPACE.

THE ROOF JOISTS.

CONFORMANCE WITH ARTICLES 9.19.1.1. TO 9.19.1.3

CLEARANCES

1.3.3.

1.3.4.

1.3.5.

1.4.1.

1.4.2.

1.4.3.

1.4.

EVERY 300mm (12") O.C. ALONG CEILING SUPPORTS, IN PAIRS ABOUT 50mm (2") APART WHERE THE CEILING SHEETS ARE SUPPORTED BY THE WALL SHEETS AROUND THE PERIMETER OF THE CEILING, THIS SUPPORT MAY BE CONSIDERED AS EQUIVALENT TO NAILING AT THIS LOCATION FOR SINGLE LAYER APPLICATIONS ONLY. EXCEPT AS REQUIRED IN 1.9.4 BELOW, FOR EACH LAYER APPLIED ON A WALL, NAILS SHALL BE

3.1. NOT MORE THAN 200mm (8") O.C. ON VERTICAL WALL SUPPORTS, OR EVERY 300mm (12") O.C. ALONG VERTICAL WALL SUPPORTS, IN PAIRS ABOUT 50mm (2") APART. WHERE GYPSUM BOARD PROVIDES REOUIRED BRACING IN BRACED WALL PANELS, LATERAL SUPPORT FOR STUDS, OR FIRE PROTECTION, NAILS SHALL BE SPACED NOT MORE THAN 200mm VERTICAL WALL SUPPORTS, AND

TOP AND BOTTOM PLATES. THE UPPERMOST NAILS ON VERTICAL WALL SUPPORTS SHALL BE NOT MORE THAN 200mm (8") NAILS SHALL BE LOCATED NOT LESS THAN 10mm (1/2") FROM THE SIDE OR EDGE OF THE BOARD. NAILS SHALL BE DRIVEN SO THAT THE HEADS DO NOT PUNCTURE THE PAPER. SPACING OF SCREWS IN EACH LAYER OF GYPSUM BOARD SUPPORTED FOR EACH LAYER APPLIED ON A CEILING, SCREWS SHALL BE SPACED NOT MORE THAN 300mm 12") O.C. ON CEILING SUPPORTS.

WHERE THE CEILING SHEETS ARE SUPPORTED BY THE WALL SHEETS AROUND THE PERIMETER OF THE CEILING, THIS SUPPORT MAY BE CONSIDERED AS EQUIVALENT TO SCREWING AT THIS LOCATION FOR SINGLE LAYER APPLICATIONS ONLY. SCREWS SHALL BE SPACED 0.3.1. NOT MORE THAN 300mm (12") O.C. ON VERTICAL WALL SUPPORTS WHERE THE SUPPORTS ARE MORE THAN 400mm (16") O.C., OR 0.3.2. NOT MORE THAN 400mm (16") O.C. ON VERTICAL WALL SUPPORTS WHERE THE SUPPORTS ARE

NOT MORE THAN 600mm (24") O.C. 10.4. WHERE GYPSUM BOARD PROVIDES REQUIRED BRACING IN BRACED WALL PANELS, LATERAL SUPPORT FOR STUDS, OR FIRE PROTECTION, SCREWS SHALL BE SPACED NOT MORE THAN 300mm 0.4.1. VERTICAL WALL SUPPORTS, AND .4.2. TOP AND BOTTOM PLATES.

SCREW HEADS ARE COVERED WITH JOINT COMPOUND. SCREWS SHALL BE LOCATED NOT LESS THAN 10mm (1/2") FROM THE EDGE OF THE BOARD. SCREWS SHALL BE DRIVEN SO THAT THE HEADS DO NOT PUNCTURE THE PAPER.

JOINT STAGGERING IN MULTI-LAYER GYPSUM BOARD INSTALLATIONS, UP TO 3-LAYERS TOTAL: UNLESS SPECIFICALLY STATED OTHERWISE IN THE LISTED ASSEMBLY FASTENING REQUIREMENT SPECIFICATION; FOR UP TO THREE LAYERS OF 12.7mm (1/2") AND/OR 15.9mm (5/8") THICK, 1.2m (4'-0") WIDE GYPSUM BOARD APPLIED ON THE INTERIOR SIDE: 1.1.1. THE FIRST (BASE) LAYER IS TO BE APPLIED HORIZONTALLY TO THE STUDS WITH BUTT JOINTS

OCCURRING IN THE CENTER OF A STUD 1.1.2. THE SECOND (MIDDLE) LAYER IS TO BE APPLIED APPLIED HORIZONTALLY WITH THE HORIZONTAL JOINTS OFFSET 600mm (24") FROM THE HORIZONTAL JOINTS IN THE FIRST (BASE) LAYER AND WITH ANY VERTICAL BUTT JOINTS CENTERED BETWEEN STUDS. VERTICAL BUTT JOINTS ARE TO BE

STAGGERED BETWEEN SUCCEEDING COURSES. 1.1.3. THE THIRD (FACE) LAYER IS APPLIED VERTICALLY TO THE STUDS AND ANY HORIZONTAL BUTT JOINTS IN THE FACE LAYER ARE STAGGERED MIN. 600mm (24") BETWEEN ADJOINING PANELS AT

ONLY THE FACE LAYER JOINTS IN GYPSUM BOARD ARE REQUIRED TO BE COVERED WITH PAPER TAPE AND JOINT COMPOUND. EXPOSED SCREW HEADS AND NAIL HEADS ARE TO BE COVERED WITH JOINT COMPOUND ALSO.

LOW TEMPERATURE CONDITIONS IN COLD WEATHER, HEAT SHALL BE PROVIDED TO MAINTAIN A TEMPERATURE NOT BELOW 10°C FOR 48-HOURS PRIOR TO TAPING AND FINISHING AND MAINTAINED FOR NOT LESS THAN

ESIDENTIAL - ROOF VENTING - 2015 NBC:

ALL ROOF VENTING SHALL CONFORM TO THE REQUIREMENTS OF THE 2015 NBC AND AS DETAILED IN THE SPECIFICATIONS BELOW.

WHERE INSULATION IS INSTALLED BETWEEN A CEILING AND THE UNDERSIDE OF THE ROOF SHEATHING, A SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE SHEATHING, AND VENTS SHALL BE INSTALLED TO PERMIT THE TRANSFER OF MOISTURE FROM THE SPACE TO THE EXTERIOR. (SEE NOTE A-9.19.1.1.(1).)

EXCEPT AS PROVIDED BELOW, THE UNOBSTRUCTED VENT AREA SHALL BE NOT LESS THAN 1/300 OF THE INSULATED CEILING AREA. WHERE THE ROOF SLOPE IS LESS THAN 1 IN 6 OR IN ROOFS THAT ARE CONSTRUCTED WITH ROOF JOISTS, THE UNOBSTRUCTED VENT AREA SHALL BE NOT LESS THAN 1/150 OF THE

INSULATED CEILING AREA. REQUIRED VENTS MAY BE ROOF TYPE, EAVE TYPE, GABLE-END TYPE OR ANY COMBINATION THEREOF, AND SHALL BE DISTRIBUTED 1.3.3.1. UNIFORMLY ON OPPOSITE SIDES OF THE BUILDING,

1.3.3.2. WITH NOT LESS THAN 25% OF THE REQUIRED OPENINGS LOCATED AT THE TOP OF THE SPACE, 1.3.3.3. WITH NOT LESS THAN 25% OF THE REQUIRED OPENINGS LOCATED AT THE BOTTOM O THE

EXCEPT WHERE EACH JOIST SPACE IS SEPARATELY VENTED, ROOF JOIST SPACES SHALL BE INTERCONNECTED BY INSTALLING PURLINS NOT LESS THAN 38 MM BY 38 MM ON THE TOP OF VENTS SHALL COMPLY WITH CAN3-A93-M, "NATURAL AIRFLOW VENTILATORS FOR BUILDINGS."

EXCEPT AS PROVIDED IN SENTENCE (2), NOT LESS THAN 63 MM OF SPACE SHALL BE PROVIDED BETWEEN THE TOP OF THE INSULATION AND THE UNDERSIDE OF THE ROOF SHEATHING. AT THE JUNCTION OF SLOPED ROOFS AND EXTERIOR WALLS, WHERE PREFORMED BAFFLES ARE USED TO CONTAIN THE INSULATION, THE BAFFLES SHALL 1.4.2.1. PROVIDE AN UNOBSTRUCTED AIR SPACE, BETWEEN THE INSULATION AND THE UNDERSIDE OF

THE ROOF SHEATHING, THAT IS 1.4.2.1.1. NOT LESS THAN 25 MM IN DIMENSION, AND 1.4.2.1.2. OF SUFFICIENT CROSS AREA TO MEET THE ATTIC OR ROOF SPACE VENTING REQUIREMENTS OF ARTICLE 9.19.1.2., AND

1.4.2.2. EXTEND VERTICALLY NOT LESS THAN 50 MM ABOVE THE TOP OF THE INSULATION. CEILING INSULATION SHALL BE INSTALLED IN A MANNER THAT WILL NOT RESTRICT THE FREE FLOW OF AIR THROUGH ROOF VENTS OR THROUGH ANY PORTION OF THE ATTIC OR ROOF

> MANSARD OR GAMBREL ROOF THE LOWER PORTION OF A MANSARD OR GAMBREL STYLE ROOF NEED NOT BE VENTILATED. THE UPPER PORTION OF ROOFS DESCRIBED IN SENTENCE (1) SHALL BE VENTILATED IN

SHOP DRAWINGS FOR STAIRS, RAMPS, LANDINGS, HANDRAILS & GUARDS: (IF NOT PART OF THIS DRAWING PACKAGE ALREADY) THE STAIRS, RAMPS, LANDINGS, HANDRAILS & GUARDS CONTRACTOR SHALL: 1.1.1. PROVIDED SHOP DRAWINGS TO THE OWNER AND GENERAL CONTRACTOR FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE PRODUCT(S). PROVIDE SHOP DRAWINGS TO SHOW ALL STRUCTURAL DETAILS, MEMBER SIZES, CONNECTION DETAILS AND GALVANIC (OR OTHER) ELEMENT PROTECTION DETAILS. 1.1.3. SHOULD THIS BE REQUESTED BY THE OWNER AND/OR GENERAL CONTRACTOR, ENGAGE A P.ENG. WHO SHALL BE RESPONSIBLE FOR SUPERVISION OF FABRICATION AND INSTALLATION AND WILL ISSUE A LETTER OF CERTIFICATION CONFIRMING ON-SITE CONSTRUCTION HAS BEEN DONE IN ACCORDANCE WITH HIS/HER DESIGN FOR ANY STAIRS, RAMPS, LANDINGS, HANDRAILS & GUARDS THAT ARE NOT PRE-ENGINEERED. ALL STAIRS, RAMPS, LANDINGS, HANDRAILS OR GUARDS CONSTRUCTION IS TO CONFORM TO 1.1.4.

STAIRS, RAMPS, LANDINGS, HANDRAILS & GUARDS - PART 9 - 2015

SECTION 9.8. OF THE 2015 NBC, IN ADDITION TO ITEMS NOTED IN THE SPECIFICATIONS CONTAINED WITHIN THESE PLANS AND SPECIFICATIONS FOR THIS PROJECT. STAIRS, RAMPS, LANDINGS, HANDRAILS AND GUARDS IN GARAGES 1.1.5.1. WHERE STAIRS, RAMPS, LANDINGS, HANDRAILS OR GUARDS ARE INSTALLED IN GARAGES THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES. THE GARAGE SHALL BE CONSIDERED TO BE PART OF THE DWELLING UNIT AND

THE REQUIREMENTS FOR STAIRS, RAMPS, LANDINGS, HANDRAILS AND GUARDS WITHIN

HANDRAILS - PART 9 - 2015 NBC:

DWELLING UNITS SHALL APPLY.

- SHOP DRAWINGS FOR HANDRAILS: (IF NOT PART OF THIS DRAWING PACKAGE ALREADY) THE HANDRAIL CONTRACTOR SHALL:
- PROVIDED SHOP DRAWINGS TO THE OWNER AND GENERAL CONTRACTOR FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE PRODUCT(S)
- PROVIDE SHOP DRAWINGS TO SHOW ALL STRUCTURAL DETAILS, MEMBER SIZES, CONNECTION .1.2. DETAILS AND GALVANIC (OR OTHER) ELEMENT PROTECTION DETAILS. 1.1.3. SHOULD THIS BE REQUESTED BY THE OWNER AND/OR GENERAL CONTRACTOR, ENGAGE A P.ENG.
- WHO SHALL BE RESPONSIBLE FOR SUPERVISION OF FABRICATION AND INSTALLATION AND WILL ISSUE A LETTER OF CERTIFICATION CONFIRMING ON-SITE CONSTRUCTION HAS BEEN DONE IN ACCORDANCE WITH HIS/HER DESIGN FOR HANDRAILS THAT ARE NOT PRE-ENGINEERED. 1.1.4. ALL HANDRAILS INSTALLED IN ONE-UNIT DWELLINGS AND TWO-UNIT DWELLINGS ARE TO MEET SUBSECTION 9.8.7 OF THE 2015 NBC, IN ADDITION TO ITEMS NOTED IN THIS SPECIFICATION.
- HANDRAILS: REQUIRED HANDRAILS 2.1.1. EXCEPT AS PROVIDED BELOW IN THESE SPECIFICATIONS, HANDRAILS SHALL BE INSTALLED ON
- STAIRS AND RAMPS IN ACCORDANCE WITH THE TABLE BELOW (SEE ALSO TABLE 9.8.7.1. OF 2015
- 2.1.2. WHERE A STAIR OR A RAMP IS REQUIRED TO BE AT LEAST 2,200mm WIDE DUE TO THE OCCUPANT LOAD, A HANDRAIL SHALL BE INSTALLED SUCH THAT NO POSITION ON THE STAIR OR RAMP IS MORE THAN 825mm FROM A HANDRAIL. 2.1.3. HANDRAILS ARE NOT REQUIRED FOR STAIRS AND RAMPS SERVING A SINGLE DWELLING UNIT,
- WHERE 2.1.3.1. INTERIOR STAIRS HAVE NOT MORE THAN 2 RISERS, 2.1.3.2. EXTERIOR STAIRS HAVE NOT MORE THAN 3 RISERS, OR
- 2.1.3.3. RAMPS RISE NOT MORE THAN 400mm.
 2.1.4. ONLY ONE HANDRAIL IS REQUIRED ON EXTERIOR STAIRS HAVING MORE THAN 3 RISERS PROVIDED SUCH STAIRS SERVE NOT MORE THAN ONE DWELLING UNIT OR A HOUSE WITH A
- SECONDARY SUITE. CONTINUITY OF HANDRAILS 2.1. EXCEPT AS PROVIDED BELOW, AT LEAST ONE REOUIRED HANDRAIL SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE STAIR OR RAMP, INCLUDING LANDINGS, EXCEPT WHERE INTERRUPTED BY
- .2.1.1. DOORWAYS, OR NEWEL POSTS AT CHANGES IN DIRECTION FOR STAIRS OR RAMPS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY; SUITE INCLUDING THEIR COMMON SPACES, AT LEAST ONE REOUIRED HANDRAIL SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE STAIR OR RAMP, EXCEPT WHERE INTERRUPTED
- 2.2.2.1. DOORWAYS, 2. LANDINGS, O 2.2.2.3. NEWEL POSTS AT CHANGES IN DIRECTION
- TERMINATION OF HANDRAILS 2.3.1. HANDRAILS SHALL BE TERMINATED IN A MANNER THAT WILL NOT OBSTRUCT PEDESTRIAN TRAVEL R CREATE A HAZARD. 2.3.2. EXCEPT FOR STAIRS AND RAMPS SERVING ONLY ONE DWELLING UNIT OR A HOUSE WITH A
- SECONDARY SUITE INCLUDING THEIR COMMON SPACES, AT LEAST ONE HANDRAIL AT THE SIDES OF A STAIR OR RAMP SHALL EXTEND HORIZONTALLY NOT LESS THAN 300mm BEYOND THE TOP AND BOTTOM OF EACH FLIGHT OR RAMP. 2.4. HEIGHT OF HANDRAILS
- 2.4.1. THE HEIGHT OF HANDRAILS ON STAIRS AND RAMPS SHALL BE MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO 2.4.1.1. A STRAIGHT LINE DRAWN TANGENT TO THE TREAD NOSINGS OF THE STAIR SERVED BY THE
- HANDRATI OR 2.4.1.2. THE SURFACE OF THE RAMP, FLOOR OR LANDING SERVED BY THE HANDRAIL.
- 2.4.2. EXCEPT AS PROVIDED BELOW, THE HEIGHT OF HANDRAILS ON STAIRS AND RAMPS SHALL BE 2.4.2.1. NOT LESS THAN 865mm, AND 2.4.2.2. NOT MORE THAN 965mm. 2.4.3. WHERE GUARDS ARE REQUIRED, HANDRAILS REQUIRED ON LANDINGS SHALL BE NOT MORE THAN
- 1,070mm IN HEIGHT 2.5. 2.5.1. ERGONOMIC DESIGN A CLEARANCE OF NOT LESS THAN 50mm SHALL BE PROVIDED BETWEEN A HANDRAIL AND ANY SURFACE BEHIND IT.
- 2.5.2. ALL HANDRAILS SHALL BE CONSTRUCTED SO AS TO BE CONTINUALLY GRASPABLE ALONG THEIR ENTIRE LENGTH WITH NO OBSTRUCTION ON OR ABOVE THEM TO BREAK A HANDHOLD, EXCEPT WHERE THE HANDRAIL IS INTERRUPTED BY NEWELS AT CHANGES IN DIRECTION. DESIGN AND ATTACHMENT OF HANDRAILS HANDRAILS AND ANY BUILDING ELEMENT THAT COULD BE USED AS A HANDRAIL SHALL BE
- 2.6.1. DESIGNED AND ATTACHED IN SUCH A MANNER AS TO RESIST 2.6.1.1. A CONCENTRATED LOAD AT ANY POINT OF NOT LESS THAN 0.9 KN, AND
- 2.6.1.2. FOR HANDRAILS OTHER THAN THOSE SERVING A SINGLE DWELLING UNIT, A UNIFORMLY DISTRIBUTED LOAD OF 0.7 KN/M. WHERE A HANDRAIL SERVING A SINGLE DWELLING UNIT IS ATTACHED TO WOOD STUDS OR 2.6.2.
- BLOCKING, THE ATTACHMENT SHALL BE DEEMED TO COMPLY WITH SENTENCE (1) WHERE 2.6.2.1. THE ATTACHMENT POINTS ARE SPACED NOT MORE THAN 1.2 M APART, 2.6.2.2. THE FIRST ATTACHMENT POINT AT EITHER END IS LOCATED NO MORE THAN 300 MM FROM THE
- END OF THE HANDRAIL, AND 2.6.2.3. THE FASTENERS CONSIST OF NOT LESS THAN 2 WOOD SCREWS AT EACH POINT, PENETRATING NOT LESS THAN 32 MM INTO SOLID WOOD.

NUMBER OF SIDES OF STAIR OR RAMP REQUIRED TO HAVE A HANDRAIL								
	HAND	HANDRAILS SERVING STAIRS HANDRAILS SERVING RAMPS						
LOCATION OF STAIR OR RAMP	STAIRS < 1,100mm WIDE		STAIRS ≥ 1,100mm WIDE	RAMPS < 1,100mm WIDE	RAMPS ≥ 1,100mm WIDE			
	STRAIGHT CURVED		ALL	ALL	ALL			
WITHIN A DWELLING UNIT	ONE (1)	ONE (1)	ONE (1)	ONE (1)	TWO (2)			
ALL OTHER LOCATIONS	ONE (1)	TWO (2)	TWO (2)	TWO (2)	TWO (2)			

GUARDS - PART 9 - 2	2015 NBC:

GUA	ARDS - PART 9 - 2015 NBC:
1.	SHOP DRAWINGS FOR GUARDS:
1.1. 1.1.1.	(IF NOT PART OF THIS DRAWING PACKAGE ALREADY) THE GUARD CONTRACTOR PROVIDED SHOP DRAWINGS TO THE OWNER AND GENERAL CONTRACTOR FOR
	APPROVAL PRIOR TO ORDERING THE PRODUCT(S).
L.1.2.	PROVIDE SHOP DRAWINGS TO SHOW ALL STRUCTURAL DETAILS, MEMBER SIZE DETAILS AND GALVANIC (OR OTHER) ELEMENT PROTECTION DETAILS.
.1.3.	SHOULD THIS BE REQUESTED BY THE OWNER AND/OR GENERAL CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR SUPERVISION OF FABRICATION AND INSTAL
	ISSUE A LETTER OF CERTIFICATION CONFIRMING ON-SITE CONSTRUCTION HAS
.1.4.	ACCORDANCE WITH HIS/HER DESIGN FOR GUARDS THAT ARE NOT PRE-ENGINE ALL GUARDS INSTALLED IN ONE-UNIT DWELLINGS AND TWO-UNIT DWELLINGS
	SUBSECTION 9.8.8 OF THE 2015 NBC, IN ADDITION TO ITEMS NOTED IN THIS S GUARDS:
1. 1.1.	REQUIRED GUARDS
1.1.	EXCEPT AS PROVIDED BELOW, EVERY SURFACE TO WHICH ACCESS IS PROVIDE THAN MAINTENANCE PURPOSES, INCLUDING BUT NOT LIMITED TO FLIGHTS OF
	EXTERIOR LANDINGS, PORCHES, BALCONIES, MEZZANINES, GALLERIES AND RA SHALL BE PROTECTED BY A GUARD ON EACH SIDE THAT IS NOT PROTECTED BY
1 1	LENGTH WHERE
.1.1.	THERE IS A DIFFERENCE IN ELEVATION OF MORE THAN 600mmM BETWEEN THE SURFACE AND THE ADJACENT SURFACE, OR
1.2.	THE ADJACENT SURFACE WITHIN 1,200mm OF THE WALKING SURFACE HAS A S THAN 1 IN 2.
.1.	GUARDS ARE NOT REQUIRED
.1.1. .1.2.	AT FLOOR PITS IN REPAIR GARAGES, OR
1.3. 2.	WHERE ACCESS IS PROVIDED FOR MAINTENANCE PURPOSES ONLY. WHERE AN INTERIOR STAIR HAS MORE THAN 2 RISERS OR AN INTERIOR RAMP
	400mm, THE SIDES OF THE STAIR OR RAMP AND THE LANDING OR FLOOR LEVE
	STAIRWELL OR RAMP SHALL BE PROTECTED BY A GUARD ON EACH SIDE THAT I BY A WALL.
3.	DOORS IN BUILDINGS OF RESIDENTIAL OCCUPANCY, WHERE THE FINISHED FLO OF THE DOOR IS MORE THAN 600mm ABOVE THE FLOOR OR OTHER CONSTRUCT
	GROUND LEVEL ON THE OTHER SIDE OF THE DOOR, SHALL BE PROTECTED BY
.3.1. .3.2.	
.4.	TO LIMIT ANY DEAR UNOBSTRUCTED OPENING TO NOT MORE THAN 100mm. EXCEPT AS PROVIDED BELOW, OPENABLE WINDOWS IN BUILDINGS OF RESIDE
	SHALL BE PROTECTED BY
4.1. 4.2.	
	PART OF THE WINDOW SO AS TO LIMIT ANY DEAR UNOBSTRUCTED OPENING TO 100mm MEASURED EITHER VERTICALLY OR HORIZONTALLY WHERE THE OTHER
_	GREATER THAN 380mm.
5. 5.1.	WINDOWS NEED NOT BE PROTECTED IN ACCORDANCE WITH THE REQUIREMEN THE WINDOW SERVES A DWELLING UNIT THAT IS NOT LOCATED ABOVE ANOTH
5.2. 5.3.	THE WINDOW SERVES A HOUSE WITH A SECONDARY SUITE, THE ONLY OPENING GREATER THAN 100mm BY 380mm IS A HORIZONTAL OPEN
	OF THE WINDOW,
5.4.	THE WINDOW SILL IS LOCATED MORE THAN 450mm ABOVE THE FINISHED FLO OF THE WINDOW, OR
5.5.	THE WINDOW IS LOCATED IN A ROOM OR SPACE WITH THE FINISHED FLOOR D ABOVE LOCATED LESS THAN 1,800mm ABOVE THE FLOOR OR GROUND ON THE
	THE WINDOW.
5.	EXCEPT AS PROVIDED BELOW, GLAZING INSTALLED OVER STAIRS, RAMPS AND EXTENDS TO LESS THAN 1,070mm ABOVE THE SURFACE OF THE TREADS, RAMP
	SHALL BE
	PROTECTED BY GUARDS, IN ACCORDANCE WITH THIS SUBSECTION, OR NON-OPENABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LATERAL LOAD
7.	GUARDS AS PROVIDED IN ARTICLE 4.1.5.14 IN PART 4 OF THE 2015 NBC. IN DWELLING UNITS, GLAZING INSTALLED OVER STAIRS, RAMPS AND LANDING
	TO LESS THAN 900mm ABOVE THE SURFACE OF THE TREADS, RAMP OR LANDIN
7.1. 7.2.	PROTECTED BY GUARDS, IN ACCORDANCE WITH THIS SUBSECTION, OR NON-OPENABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LATERAL LOAD
8.	GUARDS AS PROVIDED IN ARTICLE 4.1.5.14 OF THE NBC. GLAZING INSTALLED IN PUBLIC AREAS THAT EXTENDS TO LESS THAN 1,000mn
	AND IS LOCATED ABOVE THE SECOND STOREY IN BUILDINGS OF RESIDENTIAL
.1.	BE PROTECTED BY GUARDS IN ACCORDANCE WITH THIS SUBSECTION, OR
.2.	NON-OPENABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LATERAL LOAD GUARDS AS PROVIDED IN ARTICLE 4.1.5.14.
	LOADS ON GUARDS GUARDS SHALL BE DESIGNED TO RESIST THE SPECIFIED LOADS PRESCRIBED I
	BELOW (SEE ALSO TABLE 9.8.8.2 OF THE 2015 NBC).
	WHERE THE WIDTH AND SPACING OF BALUSTERS IN GUARDS WITHIN DWELLIN EXTERIOR GUARDS SERVING NOT MORE THAN 2 DWELLING UNITS IS SUCH TH
	CAN BE ENGAGED BY A LOAD IMPOSED OVER A 300mm WIDTH, THE LOAD SHA AS TO ENGAGE 3 BALUSTERS.
3.	NONE OF THE LOADS SPECIFIED IN THE TABLE BELOW NEED BE CONSIDERED T
	SIMULTANEOUSLY. FOR GUARDS WITHIN DWELLING UNITS AND FOR EXTERIOR GUARDS SERVING
	DWELLING UNITS, THE TABLE BELOW NEED NOT APPLY WHERE THE GUARD COI HAS BEEN DEMONSTRATED TO THE OWNER AND GENERAL CONTRACTOR TO PR
	PERFORMANCE.
1.	HEIGHT OF GUARDS EXCEPT AS PROVIDED IN SENTENCES BELOW, ALL GUARDS SHALL BE NOT LESS
	HIGH. ALL GUARDS WITHIN DWELLING UNITS OR WITHIN HOUSES WITH A SECONDAI
2.	INCLUDING THEIR COMMON SPACES SHALL BE NOT LESS THAN 900mm HIGH.
3.	EXTERIOR GUARDS SERVING NOT MORE THAN ONE DWELLING UNIT OR A HOUS SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL BE NOT LESS TH
	WHERE THE WALKING SURFACE SERVED BY THE GUARD IS NOT MORE THAN 1, FINISHED GROUND LEVEL.
4.	GUARDS FOR FLIGHTS OF STEPS, EXCEPT IN REQUIRED EXIT STAIRS, SHALL BE
5.	900mm HIGH. THE HEIGHT OF GUARDS FOR FLIGHTS OF STEPS SHALL BE MEASURED VERTIC.
	OF THE GUARD TO A LINE DRAWN THROUGH THE LEADING EDGE OF THE TREAT GUARD.
	GUARDS FOR FLOORS AND RAMPS IN GARAGES
1.	 EXCEPT FOR FLOORS OF GARAGES REFERRED TO IN SECTION 9.35. OF THE 2 GARAGE FLOORS OR RAMPS ARE 600mm OR MORE ABOVE THE ADJACENT GROUP
	LEVEL, EVERY OPENING THROUGH A GARAGE FLOOR AND THE PERIMETER OF F
L.1.	
.2. 2.	A GUARD NOT LESS THAN 1,070 MM ABOVE THE FLOOR LEVEL. VEHICLE GUARDRAILS SHALL BE DESIGNED FOR A CONCENTRATED HORIZONT/
۷.	APPLIED OUTWARD AT ANY POINT 500mm ABOVE THE FLOOR SURFACE.
1.	OPENINGS IN GUARDS OPENINGS THROUGH ANY GUARD REQUIRED BY THESE SPECIFICATIONS SHALL
	THAT WILL PREVENT THE PASSAGE OF A SPHERICAL OBJECT HAVING A DIAMET DESIGN OF GUARDS TO NOT FACILITATE CLIMBING
1.	GUARDS REQUIRED BY THESE SPECIFICATIONS SHALL BE DESIGNED SO THAT
.2.	ATTACHMENT OR OPENING FACILITATES CLIMBING. GUARDS SHALL BE DEEMED TO COMPLY WITH THE ABOVE REQUIREMENT WHER
	PROTRUDING FROM THE VERTICAL AND LOCATED WITHIN THE AREA BETWEEN
_	900mm ABOVE THE FLOOR OR WALKING SURFACE PROTECTED BY THE GUARD
2.1. 2.2.	
	THEY DO NOT PROVIDE A TOE-SPACE MORE THAN 45mm HORIZONTALLY AND 2 OR
2.4.	THEY PRESENT MORE THAN A 2-IN-1 SLOPE ON THE OFFSET.
1.	GLASS IN GUARDS GLASS IN GUARDS SHALL BE
	SAFETY GLASS OF THE LAMINATED OR TEMPERED TYPE CONFORMING TO CAN/O "TEMPERED OR LAMINATED SAFETY GLASS," OR
1 2	MIDED CLASS CONFORMING TO CAN/COSB-12 11-M "WIDED SAFETY CLASS"

EMPERED OR LAMINATED SAFETY GLASS," OI 2.7.1.2. WIRED GLASS CONFORMING TO CAN/CGSB-12.11-M, "WIRED SAFETY GLASS.

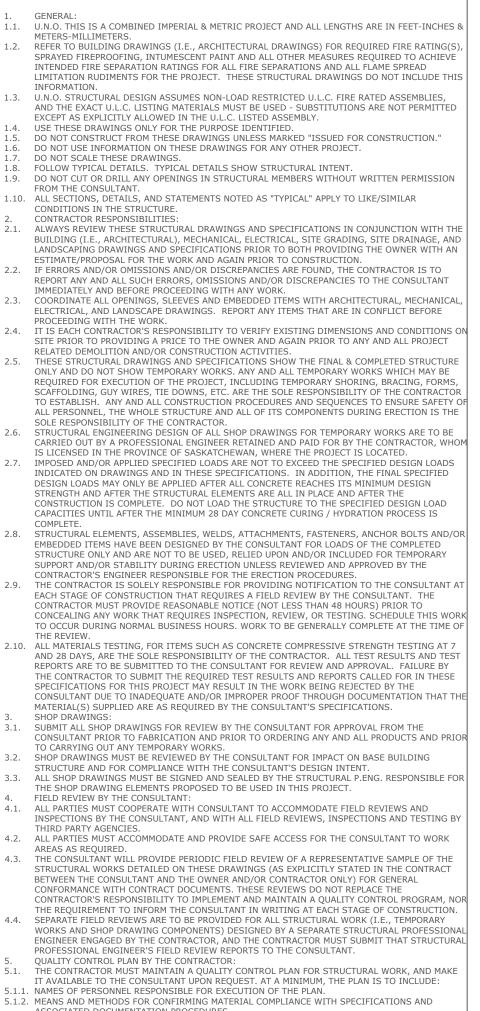
GUARDS SH	HALL BE DESIGNED TO RESI	ST THE FOLLOWING SPECI
LOCATION OF GUARD	HORIZONTAL LOAD APPLIED INWARD OR OUTWARD AT ANY POINT AT THE MINIMUM REQUIRED HEIGHT OF THE GUARD	HORIZONTAL LOAD APPLIED INWARD OR OUTWARD ON ELEMENTS WITHIN THE GUARD, INCLUDING SOLID PANELS AND PICKETS
GUARDS WITHIN DWELLING UNITS & EXT. GUARDS SERVING NOT MORE THAN 2 DWELLING UNITS	OF 1.0kN APPLIED AT ANY POINT (MOST CRITICAL LOAD SCENARIO GOVERNS)	0.5kN APPLIED OVER A MAXIMUM WIDTH OF 300mm AND A HEIGHT OF 300mm (SEE SENTENCE 9.8.8.2.(2) OF THE 2015 NBC)
GUARDS SERVING ACCESS WALKWAYS TO EQUIPMENT PLATFORMS, CONTIGUOUS STAIRS AND SIMILAR AREAS	CONCENTRATED LOAD OF 1.0kN APPLIED AT ANY POINT	CONCENTRATED LOAD OF 0.5kN APPLIED AT ANY POINT ON INDIVIDUAL ELEMENTS
ALL OTHER GUARDS	0.75kN/m OR CONCENTRATED LOAD OFR 1.0kN APPLIED AT ANY POINT (MOST CRITICAL LOAD SCENARIO GOVERNS)	CONCENTRATED LOAD OF 0.5kN APPLIED AT ANY POINT ON INDIVIDUAL ELEMENTS

		STA	IRS - PART 9	- 2015 N	BC:			49N0	DR	ГН
	SHALL: EVIEW AND	1. 1.1. 1.1.1. 1.1.2.	SHOP DRAWINGS FOR STA (IF NOT PART OF THIS DR PROVIDED SHOP DRAWING APPROVAL PRIOR TO ORD PROVIDE SHOP DRAWING	AWING PACKAGE GS TO THE OWNE ERING THE PROD	R AND GÉNERAL CO UCT(S).	ONTRACTOR FOR R	REVIEW AND	ENGINEER	ING (CORP.
TRACTOR, E D INSTALLA TION HAS E-ENGINEE	ENGAGE A P.ENG. ATION AND WILL BEEN DONE IN	1.1.3.	DETAILS AND GALVANIC (SHOULD THIS BE REQUES WHO SHALL BE RESPONSI ISSUE A LETTER OF CERTI ACCORDANCE WITH HIS/H ALL STAIRS INSTALLED II	TED BY THE OWN BLE FOR SUPERV FICATION CONFI HER DESIGN FOR N ONE-UNIT DWE	ER AND/OR GENER/ ISION OF FABRICAT RMING ON-SITE CO STAIRS THAT ARE N LLINGS AND TWO-U	AL CONTRACTOR, FION AND INSTALL NSTRUCTION HAS NOT PRE-ENGINEE JNIT DWELLINGS /	ATION AND WILL BEEN DONE IN RED. ARE TO MEET	16 CREST REGINA, SASKAT	TVIEW BAY	
IN THIS SP PROVIDED	PECIFICATION.	1.1.5.	SUBSECTION 9.8.1., SUBS 9.8.9. AND SUBSECTION 9 IN THIS SPECIFICATION. STAIRS, RAMPS, LANDING WHERE STAIRS, RAMPS, L	9.8.10. OF THE 20	15 NBC AS APPLICA	ABLE, IN ADDITIO	N TO ITEMS NOTED	PHONE: 1 (3 EMAIL: wea	06) 522-1 are49north	568 .ca
S AND RAI	STEPS AND RAMPS, ISED WALKWAYS, A WALL FOR THE WALKING	1.1.5.1.	SERVE A SINGLE DWELLIN COMMON SPACES, THE GA THE REQUIREMENTS FOR DWELLING UNITS SHALL A	IG UNIT OR A HOU ARAGE SHALL BE (STAIRS, RAMPS, I	USE WITH A SECON CONSIDERED TO BE	DARY SUITE INCL PART OF THE DW	UDING THEIR /ELLING UNIT AND	WEBSITE: www	.weare49n	orth.ca
	LOPE OF MORE	2. 2.1. 2.1.1.	STAIR DIMENSIONS: STAIR WIDTH EXCEPT AS PROVIDED BEL OF RESIDENTIAL OCCUPAL	NCY SHALL HAVE	A WIDTH OF NOT L	ESS THAN 900mm	1.			
OR RAMP R	RISES MORE THAN	2.1.2. 2.1.3.	EXIT STAIRS SERVING A S INCLUDING THEIR COMMO REQUIRED EXIT STAIRS A OCCUPANCY SHALL HAVE	ON SPACES SHALL ND PUBLIC STAIR	. HAVE A WIDTH OF S SERVING BUILDI	NOT LESS THAN 8	860mm.	BLAIR PA	ATTERSON	
DE THAT IS	AROUND THE NOT PROTECTED OR ON ONE SIDE	2.1.3.2.	900mm, OR 8mm PER PERSON BASED 2015 NBC. AT LEAST ONE STAIR BET	WEEN EACH FLOO	R LEVEL WITHIN A	DWELLING UNIT,	AND EXTERIOR	REGINA, SASKAT		S4S 4N2
CTED BY	THE DOOR SO AS	2.2. 2.2.1.	STAIRS SERVING A SINGL WIDTH OF NOT LESS THAI HEIGHT OVER STAIRS THE CLEAR HEIGHT OVER	N 860mm. STAIRS SHALL BE	E MEASURED VERTI	CALLY, OVER THE	CLEAR WIDTH OF	PHONE: 1 (3 EMAIL: hello@	,	
	TIAL OCCUPANCY	2.2.2.	THE STAIR, FROM A STRA LOWEST POINT ABOVE. EXCEPT AS PERMITTED BE 2,050mm.	LOW, THE CLEAR	HEIGHT OVER STAT	IRS SHALL NOT BE	E LESS THAN			
PENING TO HE OTHER D	THE OPENABLE NOT MORE THAN DIMENSION IS	2.2.3.	THE CLEAR HEIGHT OVER SECONDARY SUITE INCLU THE CLEAR HEIGHT OVER SECONDARY SUITES SHAL	DING THEIR COM STAIRS THAT ARI	MON SPACES SHALI E LOCATED UNDER	L NOT BE LESS TH	AN 1,950mm.			
VE ANOTHE	S ABOVE, WHERE ER SUITE, ING AT THE TOP	3.1.1.1.	STAIR CONFIGURATIONS STRAIGHT AND CURVED R EXCEPT AS PROVIDED BEL STRAIGHT-RUN FLIGHTS,	OW, STAIRS SHA	LL CONSIST OF			OWNER:		
		3.1.2. 3.1.2.1.	CURVED FLIGHTS. STAIRS WITHIN DWELLING STRAIGHT-RUN FLIGHTS, CURVED FLIGHTS, OR	G UNITS SHALL C	ONSIST OF				ATTERSON	
D ON THE C	SCRIBED IN DTHER SIDE OF ANDINGS THAT	3.1.2.3. 3.1.3. 3.2.	STRAIGHT RUNS WITH WI ONLY ONE SET OF WINDE MINIMUM NUMBER OF RIS	RS DESCRIBED A				REGINA, SASKAT		S4S 4N2
)R	OR LANDING	3.2.1. 3.3. 3.3.1.	EXCEPT FOR STAIRS WITH INTERIOR FLIGHTS. MAXIMUM HEIGHT OF STA THE VERTICAL HEIGHT OF	IRS	,			PHONE: 1 (3 EMAIL: hello@		
IBC. LANDINGS	G THAT EXTENDS G SHALL BE	4. 4.1. 4.1.1.	STEP DIMENSIONS DIMENSIONS FOR RISERS THE RISE, WHICH IS MEAS	SURED AS THE VE	ERTICAL NOSING-TO	D-NOSING DISTAN				
	FOR BALCONY	4.2. 4.2.1.	COMPLY WITH THE TABLE DIMENSIONS FOR RECTAN EXCEPT FOR STAIRS SERV RUN, WHICH IS MEASURE	IGULAR TREADS	USED AS SERVICE	ROOMS OR SERVI		SEAL:		
IDENTIAL O	DCCUPANCY SHALL	4.2.2.	DEPTH OF RECTANGULAR 9.8.4.2. OF THE 2015 NBC THE DEPTH OF A RECTANG ITS RUN PLUS 25mm.	TREADS SHALL CO C).	OMPLY WITH THE TA	ABLE BELOW (SEE	ALSO TABLE	SLAL.	JAL LANG	
	FOR BALCONY	4.3. 4.3.1.	DIMENSIONS FOR ANGLEE ANGLED TREADS IN REQU 3.4.6.9. OF THE 2015 NBC	IRED EXIT STAIR	S SHALL CONFORM	TO THE REQUIREN	MENTS IN ARTICLE	C NEXE		
SUCH THAT	G UNITS AND IN T 3 BALUSTERS L BE IMPOSED SO	4.3.2.	EXCEPT AS PROVIDED IN EXIT STAIRS SHALL HAVE NOSING-TO-NOSING DIST THE DEPTH OF AN ANGLEE HORIZONTAL NOSING-TO- ANY POINT PLUS 25mm.	AN AVERAGE RUN ANCE, OF NOT LE D TREAD SHALL B NOSING DISTANG	N, WHICH IS MEASU ESS THAN 200mm A E NOT LESS THAN I CE, AT ANY POINT A	JRED AS THE HOR: ND A MINIMUM RU ITS RUN, MEASURI	IZONTAL JN OF 150mm. ED AS THE	202 9 57 92 202	1/02/25	5
UARD CONS	IOT MORE THAN 2 STRUCTION USED VIDE EFFECTIVE	4.4. 4.4.1. 4.4.1.1.	UNIFORMITY AND TOLERA EXCEPT AS PROVIDED BEL A MAXIMUM TOLERANCE (5mm BETWEEN ADJACENT	LOW, RISERS SHA	LL BE OF UNIFORM	HEIGHT IN ANY O	NE FLIGHT, WITH	COPYRIGHTS, SITE INSPE	CHEVE ECTIONS & DI	ISCLAIMERS
	THAN 1,070mm		10mm BETWEEN THE TALL EXCEPT FOR REQUIRED EX SLOPING FINISHED WALK THE HEIGHT OF THE RISE	KIT STAIRS, WHEF	RE THE TOP OR BOT ICH AS A GARAGE F	TOM RISER IN A S LOOR, DRIVEWAY	OR SIDEWALK,	THESE DRAWINGS ARE THE C ENGINEERING CORP. (49NOR1 (1) TIME USE ONLY. NEITHER	TH); AND, ARE IS	SSUED FOR A ONE
ECONDARY m HIGH. R A HOUSE	E WITH A	4.4.3.1. 4.4.3.2.	TREADS SHALL HAVE A UN 5mm BETWEEN ADJACENT 10mm BETWEEN THE DEE	NIFORM RUN WITH TREADS, AND PEST AND SHALLO	H A MAXIMUM TOLE	RANCE OF A FLIGHT.		INFORMATION CONTAINED HE REPRODUCED BY ANY PARTY I EXPRESS WRITTEN CONSENT 49NORTH IS HEREBY ASSERTE	N ANY FORM WI OF 49NORTH. TI	THOUT THE HE COPYRIGHT OF
THAN 1,80	AN 900mm HIGH 00mm ABOVE THE NOT LESS THAN	4.4.4. 4.4.5. 4.5.	WHERE ANGLED TREADS (SETS OF ANGLED TREADS THE SLOPE OF TREADS SH WINDERS	OR WINDERS WI	THIN A FLIGHT SHA			OF THESE DRAWINGS AND DC PURPOSE BY ANY PARTY IS ST ERROR, OMISSION AND/OR D	CUMENTS FOR A RICTLY PROHIBI ISCREPANCY IS F	ANY OTHER TED. WHERE ANY FOUND TO EXIST
D VERTICAL	LLY FROM THE TOP S SERVED BY THE		INDIVIDUAL TREADS IN W AN ANGLE OF 30° WITH NO DEVIATION	ABOVE OR BELOW	V 30°, OR	TER POINT SHALL	TURN THROUGH	WITHIN OR BETWEEN DRAWI AND/OR SITE CONDITIONS; J 49NORTH IMMEDIATELY IN WI RIGHT TO PROVIDE ADDENDA	T IS TO BE REPORT	ORTED TO TH RESERVES THE
	15 NBC, WHERE ND OR FLOOR		45° WITH NO DEVIATION WHERE WINDERS ARE INC THAN 90°. TREAD NOSINGS			ET SHALL NOT TUP	RN THROUGH MORE	INSTRUCTIONS, AND/OR COR RECTIFY ANY ERROR, OMISSIC ACCORDANCE WITH THE AGRI	RECTIONS TO TH	HE DESIGN TO CREPANCY IN
	DORS AND RAMPS	4.6.1.	EXCEPT AS PERMITTED BE ROUNDED OR BEVELLED E MEASURED HORIZONTALL IF RESILIENT MATERIAL IS	DGE EXTENDING	NOT LESS THAN 6n NT OF THE NOSING.	nm AND NOT MOR	E THAN 14mm	SERVICES AND 49NORTH'S ST CONSULTING SERVICE TERMS AND CONTRACTOR MUST PRO THE BUILDING PERMIT APPRO	& CONDITIONS. VIDE 49NORTH V	. THE OWNER WITH COPIES OF
ORIZONTAL E.	L LOAD OF 22kN	5.	EXTENSION OF THE ROUN REDUCED TO 3mm. CONSTRUCTION					OFFICIAL SITE INSPECTION R DOCUMENTS THROUGHOUT TH OWNER AND CONTRACTOR MU	EPORTS, AND SH HE COURSE OF T JST ALSO NOTIF	OP DRAWING HE PROJECT. THE Y 49NORTH IN
A DIAMETEI	BE OF A SIZE R OF 100mm.	5.1. 5.1.1.	LOADS ON STAIRS EXCEPT AS SPECIFIED IN DESIGNED FOR STRENGTH SPECIFIED LOADS OF					WRITING AT EACH PROJECT C THE COURSE OF THE PROJECT SO THAT 49NORTH MAY ASCE COMPLIANCE WITH THESE DE	TO CONDUCT S	TTE INSPECTIONS
INT WHERE	O MEMBER, E ALL ELEMENTS 40mm AND		1.9 KPA FOR STAIRS SERV SECONDARY SUITE INCLU 4.8 KPA FOR OTHER STAIF	DING THEIR COM		g unit or a hou:	SE WITH A	WILL NOT EXPRESSLY MONITO EXPLICITLY AGREED TO IN TH ENGINEERING SERVICES. THI	DR THIS PROJECT E AGREEMENT FO E OWNER AND CO	T UNLESS OR CONSULTING ONTRACTOR ARE
E GUARD CO	EACH OTHER,	5.2. 5.2.1.	EXTERIOR CONCRETE STA EXTERIOR CONCRETE STA SUPPORTED ON UNIT MAS	IRS IRS WITH MORE 1				NOTIFIED AND ADVISED TO C EMAIL FOR THE INSPECTION F PROJECT. NEITHER THE PROFE	REQUIREMENT ST	TAGES FOR THIS NEER NOR
LLY AND 20	Omm VERTICALLY,		CROSS SECTION, OR CANTILEVERED FROM THE STAIRS DESCRIBED ABOV CONSTRUCTED AND INST/	E, WHEN CANTILE	EVERED FROM THE I			49NORTH ENGINEERING CORF OR IN TORT, FOR ANY NORMA INCIDENTAL, SPECIAL, RESUL CONSEQUENTIAL DAMAGES, L	L, REGULAR, STA TANT, SUBSEQU	ANDARD, ENT AND/OR
TO CAN/CO	GSB-12.1-M,	5.2.3.	STEPS" BELOW. THE DEPTH BELOW GROU THE REQUIREMENTS IN TH	ND LEVEL FOR FO	UNDATIONS FOR EX	XTERIOR STEPS SH		OTHER DIRECT AND/OR INDIF DISCREPANCIES AND/OR ERR CAUSES OTHER THAN NEGLIG	ORS AND/OR OM ENCE; AND, IN S	IISSIONS DUE TO SUCH CASE SHALL
GLASS."		5.3. 5.3.1. 5.4.	EXTERIOR WOOD STEPS EXTERIOR WOOD STEPS S SUITABLY TREATED WITH WOODEN STAIR STRINGED	A WOOD PRESER		VITH THE GROUND) UNLESS	ONLY BE LIABLE TO THE PART 49NORTH FOR THE COMPILAT OF THESE DOCUMENTS.		
SPECIF	TED LOADS	5.4.1. 5.4.1.1.	WOODEN STAIR STRINGE HAVE A MINIMUM EFFECT THE STRINGER AT THE PO	IVE DEPTH OF 90r DINT OF MINIMUM	CROSS-SECTION, A	AND AN OVERALL	DEPTH OF NOT	DO NOT SCALE FROM THESE D DIMENSIONS SHOWN IN THESE THE OUTSIDE FACE OF EXTER	SE DRAWINGS AF IOR WALLS AND	RE MEASURED TO TO THE
PPLIED RD ON GUARD,	EVENLY DISTRIBUTED VERTICAL LOAD		LESS THAN 235mm. 2X12 STRINGER SIZE. 1-3/4" X BE SUPPORTED AND SECU BE NOT LESS THAN 25mm	(11-7/8" 2250Fb- IRED TOP WITH A	1.6E IS ALSO ACCE 3/4" PLYWOOD HAI	PTABLE FOR STAIL	R STRINGERS M,	CENTERLINE OF INTERIOR WA CHECKED ON SITE BY THE CO ANY ESTIMATE, PROPOSAL AN AND BY THE CONTRACTOR AG	NTRACTOR PRIO	R TO SUBMITTING T TO THE OWNER;
ELS AND	APPLIED AT TOP OF THE GUARD	5.4.1.4.	ACTUAL THICKNESS IF UN FOR OPEN RISERS, EXCEP STAIRS SERVING NOT MO INCLUDING THEIR COMMO	T AS PERMITTED RE THAN ONE DW	BELOW, BE SPACED	NOT MORE THAN HOUSE WITH A SE	ECONDARY SUITE	ANY WORK REFERENCED BY T SPECIFICATIONS. 49NORTH ENGINEERING		
A HEIGHT TENCE 15 NBC)	1.5kN/m	5.4.2.	OPEN OR CLOSED RISERS FOR STAIRS SERVING NOT SUITE INCLUDING THEIR	ARE USED, IN OT T MORE THAN ONI COMMON SPACES	THER STAIRS. E DWELLING UNIT (, FOR CLOSED RISE	DR A HOUSE WITH ERS, WHERE RISER	A SECONDARY RS SUPPORT THE	2021 - 2062		
		5.5. 5.5.1.	FRONT PORTION OF THE T 1,200mm. TREADS STAIR TREADS OF LUMBER	R, PLYWOOD OR C	0-2 GRADE OSB WI	THIN DWELLING U	INITS SHALL BE			
OF 0.5kN NT ON NTS	1.5kN/m	5.5.2.	NOT LESS THAN 25mm AC DISTANCE BETWEEN STRI ACTUAL THICKNESS. 2X12 STAIR TREADS OF PLYWO	NGERS EXCEEDS 2 SPF NO. 2 OR BT	750mm, THE TREAD TR TREADS ARE ACC	DS SHALL BE NOT CEPTABLE.	LESS THAN 38mm	ISSUED FOR:		YYYY.MM.DD
		5.6. 5.6.1.	SHALL HAVE THEIR FACE (STRINGERS. FINISH FOR TREADS AND THE FINISH FOR TREADS	LANDINGS				SCHEMATIC DESIGN REV DESIGN DEVELOPMENT R CONSTRUCTION DOCUME	EVIEW	
OF 0.5kN NT ON NTS	1.5kN/m	5.6.2.	STAIRS TO UNFINISHED B SOFTWOOD, RESILIENT FI TREADS AND LANDINGS C	ASEMENTS, SHAL LOORING OR OTH OF INTERIOR AND	L CONSIST OF HAR ER MATERIAL PROV EXTERIOR STAIRS	DWOOD, VERTICA IDING EQUIVALEN AND RAMPS, OTHI	L GRAIN NT PERFORMANCE. ER THAN THOSE	TENDER PACKAGE REVIE	W	2021.02.25
	<u> </u>]		WITHIN DWELLING UNITS COMMON SPACES, SHALL SLIP-RESISTANT STRIPS T	HAVE A SLIP-RES	ISTANT FINISH OR	BE PROVIDED WIT	TH	ISSUED FOR BUILDING P ISSUED FOR CONSTRUCT		2021.02.25 2021.02.25
		DI	MENSIONS FOR RISE	RS: PERMITT			R TREADS			
			STAIR TYPE		RISE			PROJECT:		
		PRIVAT	E STAIR (INTERIOR AND	MAX	IMUM	MIN	IMUM			
		SINGLE D WITH INCLU SPACES;	OR STAIRS THAT SERVE: WWELLING UNITS; HOUSES I A SECONDARY SUITE JDING THEIR COMMON OR, GARAGES THAT SERVE F THE AFOREMENTIONED).	200	Omm	125	ōmm	DETACHED WORKSHO		
		EXTERI	C STAIR (INTERIOR AND OR STAIRS THAT SERVE:	180)mm	175	ōmm	1624 GR	_	
			NT MENTIONED ABOVE; OR,					LOT 12, BLOCK 3		
			NSIONS FOR RECTAN	IGULAR TREA	DS: PERMITTE		KEAD DEPTH		J, I LAN J	CUCLOUT
			STAIR TYPE	RUN MAX.	[mm] MIN.	TREAD DE MAX.	EPTH [mm] MIN.			
		EXTERI	E STAIR (INTERIOR AND OR STAIRS THAT SERVE: WELLING UNITS; HOUSES					ENGINEER TECHNICIAN	TWEID	Т
		WITH INCLU SPACES;	A SECONDARY SUITE JDING THEIR COMMON OR, GARAGES THAT SERVE	355mm	210mm	355mm	235mm	DRAWING SCALE DATE	1/8" =	1'-0" ARY 25, 2021
		PUBLIC	F THE AFOREMENTIONED).					DRAWING TITLE:	CATION	S
		AREAS NO	OR STAIRS THAT SERVE: DT MENTIONED ABOVE; OR, SERVICE AREAS).	NO LIMIT	280mm	NO LIMIT	280mm			
								SHEET NUMBER:	REVISION	NUMBER:

STRUCTURAL ENGINEERING CONSULTANT

RES	IDENTIAL - STRUCTURAL DESIGN - 2015 NBC:
1.	THE STRUCTURAL ENGINEERING ANALYSIS AND DESIGN EMPLOYED BY THE CONSULTANT IN THIS PROJECT HAS BEEN COMPLETED ACCORDING TO THE MINIMUM STRUCTURAL REQUIREMENTS CONTAINED IN THE 2015 NATIONAL BUILDING CODE OF CANADA (2015 NBC AND/OR NBC); AS AMENDED BY THE UNIFORM BUILDING AND ACCESSIBILITY STANDARDS (U.B.A.S.) ACT & U.B.A.S REGULATIONS (LATEST EDITION) FOR THE PROVINCE OF SASKATCHEWAN.
2.	SPECIFIED LOADS
2.1.	U.N.O. THE LOADS SHOWN IN THE PLANS AND SPECIFICATIONS ARE "SPECIFIED LOADS", THAT MUST BE APPROPRIATELY FACTORED AND COMBINED TO BE USED FOR U.L.S. AND S.L.S. DESIGN CONDITIONS.
3. 3.1.	CLIMATIC LOADS CLIMATIC LOADS (I.E. WIND LOADS, SNOW LOADS, & RAIN LOADS) USED IN THE DESIGN FOR THIS PROJECT HAVE BEEN OBTAINED FROM APPENDIX C OF THE 2015 NBC FOR THE PROJECT LOCATION.
4.	DEAD LOADS:
4.1.	INCLUDE THE SELF WEIGHT OF THE STRUCTURAL ELEMENT PLUS THE SUPERIMPOSED DEAD LOAD FOR ANY NON-STRUCTURAL ELEMENT AS APPLICABLE.
4.2.	DEAD LOADS HAVE BEEN OBTAINED FROM THE TABLES PROVIDED IN THESE SPECIFICATIONS FOR THE APPLICABLE STRUCTURAL ELEMENT(S) UTILIZED IN THE DESIGN.
5.	LIVE LOADS
5.1.	LIVE LOADS HAVE BEEN OBTAINED FROM PART 4 OF THE NBC FOR EACH SPECIFIC ROOM AND/OR AREA AS APPLICABLE.
5.2.	LIVE LOAD REDUCTION FACTORS HAVE NOT BEEN APPLIED IN THIS DESIGN IN ORDER TO ACCOUNT FOR WORST CASE LOADING.
6.	APPLICABLE DESIGN STANDARDS
6.1.	CONCRETE ELEMENTS ARE DESIGNED PER CAN/CSA-A23.3-2014 - DESIGN OF CONCRETE STRUCTURES.
6.2.	THE CONTRACTOR AND OWNER ARE TO USE CONCRETE MATERIALS AND INSTALLATION METHODS IN CONFORMANCE WITH THE REQUIREMENTS OF CAN/CSA-A23.1-2014 & CAN/CSA-A23.2-2014 - CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
6.3.	STEEL ELEMENTS ARE DESIGNED PER CAN/CSA-S16-2014 - LIMIT STATE DESIGN OF STEEL STRUCTURES.
6.4.	COLD FORMED STEEL STRUCTURAL ELEMENTS ARE DESIGNED PER CAN/CSA-S136-2012 - NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS (INCLUDING DESIGN PROVISIONS OF APPENDIX B AS APPLICABLE TO CANADA).
6.5.	ALUMINUM STRUCTURAL ELEMENTS ARE DESIGNED PER CAN/CSA S157-2005 - STRENGTH DESIGI IN ALUMINUM.
6.6.	MASONRY STRUCTURAL ELEMENTS ARE DESIGNED PER CAN/CSA-S304-2014 - DESIGN OF MASONRY STRUCTURES.
6.7.	SAWN LUMBER AND GLUE LAMINATED LUMBER STRUCTURAL ELEMENTS ARE DESIGNED PER CAN/CSA-086-2014 - ENGINEERING DESIGN IN WOOD.

RESIDENTIAL - GENERAL PROJECT REQUIREMENTS:



ASSOCIATED DOCUMENTATION PROCEDURES. S.1.3. PROGRAM FOR CONFIRMING AND DOCUMENTING COMPLIANCE OF SUB-TRADE QUALIFICATIONS AND QUALIFICATION THEIR INDIVIDUAL EMPLOYEES AND SUB-CONTRACTORS. S.1.4. PROCEDURES FOR REVIEWING FIELD COMPLIANCE WITH CONSTRUCTION DOCUMENTS INCLUDING DOCUMENTATION OF LOCATIONS REVIEWED, PHOTOGRAPHS TAKEN, AND TIMING OF REVIEW. THE CONTRACTOR'S REVIEW TO BE COMPLETED PRIOR TO REVIEW BY THE CONSULTANT. .1.5. PROCEDURES FOR RECTIFYING DEFICIENCIES NOTED BY THE CONTRACTOR, CONSULTANTS AND INDEPENDENT INSPECTION AGENCIES.

RESIDENTIAL - LOAD FACTORS & LOAD COMB'S 2015 NBC: THE LOAD COMBINATIONS & FACTORS APPLIED IN THE "LIMIT STATES DESIGN" FOR THIS PROJECT ARE BASED ON THE 2015 NBC ARTICLE 4.1.3.2 AND STRUCTURAL COMMENTARIES TO THE 2015 NBC: ULTIMATE LIMIT STATES <u>PRINCIPAL LOADS</u> (WITHOUT CRANE LOADS): CASE 1 CASE 2 (1.25D OR 0.9D) + 1.5L CASE 2 CASE 3 CASE 3 CASE 4 CASE 4 CASE 5 L.25D OR 0.9D) + 1.5S CASE 4 (1.25D OR 0.9D) + 1.4W CASE 5 L.0D + 1.0E ULTIMATE LIMIT STATES <u>COMPANION LOADS</u> (WITHOUT CRANE LOADS): 3. ULTIMATE LIMIT STATES COMPANION LOADS (WITHOUT CRANE LOADS): 3.1. CASE 1 NIL 3.2. CASE 2 1.0S OR 0.4W 3.3. CASE 3 1.0U CR 0.4W 3.4. CASE 4 0.5L OR 0.5S 3.5. CASE 5 0.5L OR 0.25S 4. SERVICEABILITY LIMIT STATES PRINCIPAL LOADS (WITHOUT CRANE LOADS): 4.1. CASE 1 4.2. CASE 2 4.3. CASE 3 4.4. CASE 4 4.5. CASE 5 4.6. CASE 4 4.7. CASE 2 4.8. (1.0D OR 0.9D) + 1.0L 4.3. CASE 3 4.4. CASE 4 4.5. CASE 5 5. SERVICEABILITY LIMIT STATES COMPANION LOADS (WITHOUT CRANE LOADS): 5.1. CASE 1 5.1. CASE 1 5.1. CASE 1 CASE 1 CASE 2 CASE 3 CASE 4 CASE 5 1.0S OR 0.4W 1.0L OR 0.4W 0.5L OR 0.5S 0.5L OR 0.25S U.N.O. SEE THE "SPECIFIED LOADS" TABLES FOR SPECIFIED DEAD, LIVE, WIND, SNOW, RAIN & SEISMIC LOADS USED IN THIS DESIGN. U.N.O. IN THE PROJECT DRAWINGS; SPECIFIED UNIFORM DISTRIBUTED LIVE LOADS ARE TO BE APPLIED AS PER TABLE 4.1.5.3 OF THE 2015 NBC BASED ON USE AND OCCUPANCY OF EACH AREA.

A PFILED AS PER TABLE 4.1.5.9 OF THE 2015 NBC BASED ON USE AND OCCUPANCY OF LACI ALLA. U.N.O. IN THE PROJECT DRAWINGS; SPECIFIED CONCENTRATED LIVE LOADS ARE TO BE APPLIED AS PER TABLE 4.1.5.9 OF THE 2015 NBC BASED ON USE AND OCCUPANCY. A MIN. SPECIFIED UNIFORM DISTRIBUTED LIVE LOAD OF 1.0 kPa (20.9 psf) IS TO BE USED IN COMBINATION FACTORS INVOLVING ANALYSIS OF THE SUPERSTRUCTURE ROOF AREA(S). FULL AND PARTIAL LOADING MUST ALSO BE EXPLORED IN THE DESIGN AS PER ARTICLE 4.1.5.3.

RESIDENT	IAL -	IMPO	RTAN	CE FA	CTOR	S 201	5 NBC	2:		
DESCRIPTION	DEAD	LOADS	LIVE L	.OADS	SNOW	& RAIN	WI	ND	SEIS	SMIC
DESCRIPTION	ULS	SLS	ULS	SLS	ULS	SLS	ULS	SLS	ULS	SLS
LOW	1.00	1.00	1.00	1.00	0.80	0.90	0.80	0.75	0.80	E PP.
NORMAL	1.00	1.00	1.00	1.00	1.00	0.90	1.00	0.75	1.00	ABL
HIGH	1.00	1.00	1.00	1.00	1.15	0.90	1.15	0.75	1.30	1.8 1.8
POST DISASTER	1.00	1.00	1.00	1.00	1.25	0.90	1.25	0.75	1.50	SE A-4

ENVIRONMENTAL LOADS - REGINA - 2015 NBC:

DESCRIPTION	SPECIFIED [kPa]	SPECIFIED [psf]	LOAD INFORMATION
GROUND SNOW LOAD Ss	1.4	29.2	⅓0 RETURN PERIOD - APPENDIX C - 2015 NBC
GROUND RAIN LOAD Sr	0.1	2.1	‰ RETURN PERIOD - APPENDIX C - 2015 NBC
WIND LOAD q1/50	0.49	10.2	‰ RETURN PERIOD - APPENDIX C - 2015 NBC

SPECIFIED SEISMIC LOADS - REGINA - 2015 NBC:

DESCRIPTION	SPECIFIED [kPa]	LOAD INFORMATION
Sa (0.2)	0.101	⅔475 RETURN PERIOD - APPENDIX C - 2015 NBC
Sa (0.5)	0.060	⅓ ₂₄₇₅ RETURN PERIOD - APPENDIX C - 2015 NBC
Sa (1.0)	0.030	⅓ ₂₄₇₅ RETURN PERIOD - APPENDIX C - 2015 NBC
Sa (2.0)	0.013	⅓ ₂₄₇₅ RETURN PERIOD - APPENDIX C - 2015 NBC
Sa (5.0)	0.0027	⅓ ₂₄₇₅ RETURN PERIOD - APPENDIX C - 2015 NBC
Sa (10.0)	0.0013	⅓ ₄₇₅ RETURN PERIOD - APPENDIX C - 2015 NBC
PGA PGV	0.061 0.043	⅓475 RETURN PERIOD - APPENDIX C - 2015 NBC
SITE CLASS	ASSUMED "D"	⅓ ₄₇₅ RETURN PERIOD - APPENDIX C - 2015 NBC

RESIDENTIAL		I OADS.
RESIDENTIAL	DLAD	LOADS.

RESIDENTIA	L DEAD LO	ADS:	
DESCRIPTION	SPECIFIED [kPa]	SPECIFIED [psf]	LOAD DESCRIPTION
ROOF DEAD LOAD (W/ ASPHALT SHINGLES)	0.85	17.8	'2014 TPIC - TRUSS DESIGN PROCEDURES AND SPEC'S FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (REPRINTED JUNE 2016)'
ROOF DEAD LOAD (W/ CLAY OR CONC. TILE)	0.85 + 0.5 = 1.35	28.2	BASE TPIC LOAD PLUS 0.5kPa ADDITIONAL LOAD AS RECOMMENDED BY CANADIAN WOOD COUNCIL SPAN TABLE DEVELOPMENT GUIDELINES
FLOOR DEAD LOAD (WOOD FRAMED W/ LAMINATE OR CARPET)	0.28	5.9	ASSEMBLY LOAD ASSUMED FOR DESIGN
FLOOR DEAD LOAD (WOOD FRAMED W/ TILED FLOORING)	0.66	13.7	ASSEMBLY LOAD ASSUMED FOR DESIGN
FLOOR DEAD LOAD (WOOD FRAMED W/ UNSPEC'D FLOORING)	0.50	10.4	ASSEMBLY LOAD RECOMMENDED FOR DESIGN BY CANADIAN WOOD COUNCIL USED TO DEVELOP SPAN TABLES INCLUDED IN THE 2015 NBC
FLOOR DEAD LOAD (FLOOR W/ 2" NORMAL WT. CONC. TOPPING)	1.30	27.2	ASSEMBLY LOAD RECOMMENDED FOR DESIGN BY CANADIAN WOOD COUNCIL USED TO DEVELOP SPAN TABLES INCLUDED IN THE 2015 NBC
EXTERIOR WALL DEAD LOAD (2X6 W/ VINYL)	0.24	5.0	ASSEMBLY LOAD ASSUMED FOR DESIGN
EXTERIOR WALL DEAD LOAD (2X6 W/ CEMENT BOARD SIDING)	0.59	12.3	ASSEMBLY LOAD ASSUMED FOR DESIGN
EXTERIOR WALL DEAD LOAD (2X6 W/ %" CEMENT STUCCO)	0.74	15.5	ASSEMBLY LOAD ASSUMED FOR DESIGN
EXTERIOR WALL DEAD LOAD (2X6 W/ 4" BRICK VENEER)	2.61	54.5	ASSEMBLY LOAD ASSUMED FOR DESIGN
EXTERIOR WALL DEAD LOAD (2X6 W/ 2" STONE VENEER)	1.94	40.4	ASSEMBLY LOAD ASSUMED FOR DESIGN
EXTERIOR WALL DEAD LOAD (W/ UNSPEC'D CLADDING)	0.5	10.4	ASSEMBLY LOAD RECOMMENDED FOR DESIGN BY CANADIAN WOOD COUNCIL USED TO DEVELOP SPAN TABLES INCLUDED IN THE 2015 NBC
FOUNDATION DEAD LOAD (8" CONC. WALL)	4.80	100	ASSEMBLY LOAD ASSUMED FOR DESIGN

RESIDENTIA	L LIVE LOA	DS:	
DESCRIPTION	SPECIFIED [kPa]	SPECIFIED [psf]	LOAD DESCRIPTION
ROOF LIVE LOAD	1.0	20.9	MIN. LIVE LOAD TO BE APPLIED IN LOAD COMBINATIONS WITHOUT SNOW LOADS
RESIDENTIAL AREA BEDROOMS	1.9	30.7	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.2 & 1.3.3.3.
RESIDENTIAL AREA OTHER	1.9	30.7	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.2 & 1.3.3.3.
RESIDENTIAL AREA STAIRS SERVING SINGLE DWELLING	1.9	30.7	
RESIDENTIAL AREA BALCONIES SERVING SINGLE DWELLING	1.9	30.7	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.2.
RESIDENTIAL ATTIC AREA W/ STAIR ACCESS	1.4	29.2	FOR ALL RESIDENTIAL AREAS
RESIDENTIAL ATTIC AREA W/ LIMITED ACCESS	0.5	10.4	FOR ALL RESIDENTIAL AREAS
VEHICLE AREAS ≤ 4000kg	4.8	100	FOR ALL RESIDENTIAL AREA PASSENGER VEHICLE PARKING
RESIDENTIAL AREA STAIRS SERVING MULTIPLE DWELLINGS	4.8	100	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.3.
RESIDENTIAL AREA BALCONIES SERVING MULTIPLE DWELLINGS	4.8	100	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.3.
STORAGE AREAS SERVING MULTIPLE DWELLINGS	4.8	100	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.3.
1ST STOREY OFFICE AREAS	4.8	100	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.3.
OFFICE AREAS ABOVE THE 1ST STOREY	2.4	50.1	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.3.
EQUIPMENT AREAS	4.8	100	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.3.
SERVICE ROOMS	3.6	75.2	FOR RESIDENTIAL AREAS WITHIN SCOPE OF DIV. A 1.3.3.3.

RESIDENTIAL ROOF LOADS:

RESIDENTIA		AD3.	
DESCRIPTION	SPECIFIED LOAD [kPa]	SPECIFIED LOAD [psf]	LOAD DESCRIPTION
MIN. TOP CHORD DEAD	0.5	10	
MIN. TOP CHORD LIVE	1.0	21	
MIN. TOP CHORD SNOW	1.0	21	
MIN. BOTT. CHORD DEAD	0.35	7	
MIN. BOTT. CHORD LIVE	0	0	

STRUCTURAL ENGINEERING		
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CONSULTING		
CONSOLITING	LINGINLLKS	
16 CRESTVI	IFW BAY	
REGINA, SASKATCH		,
PHONE: 1 (306		
EMAIL: weare	,	
WEBSITE: www.w		
	eare49101th.ca	
BLAIR PAT	TERSON	
1624 GRAN	IT ROAD	
REGINA, SASKATCH	HEWAN S4S 4N2	-
PHONE: 1 (306	5) 591-2319	
EMAIL: hello@bla	airpatterson.ca	
OWNER:		
BLAIR PAT	TERSON	
1624 GRAN		
REGINA, SASKATCH)
PHONE: 1 (306		
EMAIL: hello@bla		
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ACCORDANCE WITH THE AGREEM	ENT FOR ENGINEERING	
SERVICES AND 49NORTH'S STANE CONSULTING SERVICE TERMS & C		R
CONSULTING SERVICE TERMS & C AND CONTRACTOR MUST PROVIDE	CONDITIONS. THE OWNE E 49NORTH WITH COPIES	
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IGINEER	TWEIDT
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SPECIFIC	CATIONS
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1. 1.1.									
	APPLICABLE CODE: U.N.O. ELSEWHERE IN THE PLANS AND SPECIFICATIONS GENERAL PROVISIONS FOR WOOD FRAME CONSTRUCTION IS TO COMPLY WITH THE 2015 NATIONAL BUILDING CODE OF CANADA (NBC) INCLUDING CAN/CSA-086, "ENGINEERING DESIGN IN WOOD" AS APPLICABLE.	1.1. 1.1.1. 1.1.1.1 1.1.1.2. 1.1.2.	FASTENERS STANDARDS FO EXCEPT AS PRO SECTION SHALL ASTM F 1667, " CSA B111, "WIF NAILS USED IN PROPERTIES CA WOOD SCREWS	VIDED BELOW BE COMMON DRIVEN FASTE RE NAILS, SPIF CONSTRUCTION LLED FOR IN	7, AND UNLESS STEEL WIRE N ENERS: NAILS, (ES AND STAP DN MUST HAVE FHESE PLANS	IAILS OR COM SPIKES, AND LES." THE MINIMU AND SPECIFIC	1MON SPIRAL I STAPLES," OI JM LENGTHS, I CATIONS.	NAILS CONFOF R DIAMETERS AN	RMING TO
WOO	D FRAMED CONSTRUCTION - APPLICATION - NBC 2015:	1.2. 1.2.1.	(INCH SERIES). LENGTH OF NAI ALL NAILS SHAI PENETRATES IN PREVENTION OF	" LS LL BE LONG EN ITO THE SECO	NOUGH SO TH				
.1. .1.1.	APPLICATION LIMITATIONS THIS SPECIFICATION APPLIES TO CONSTRUCTIONS WHERE WALL, FLOOR AND ROOF PLANES ARE GENERALLY COMPRISED OF LUMBER FRAMES OF SMALL REPETITIVE STRUCTURAL MEMBERS, OR	1.3.1. 1.4.	SPLITTING OF V DIRECTION OF NAILING OF FR/ EXCEPT AS PRO	VOOD MEMBEI THE GRAIN AN AMING	D BY KEEPING	NAILS WELL	IN FROM THE	EDGES.	
.1.1.1.	ENGINEERED COMPONENTS, AND WHERE ROOF AND WALL PLANES ARE CLAD, SHEATHED OR BRACED ON AT LEAST ONE SIDE, THE SMALL REPETITIVE STRUCTURAL MEMBERS ARE SPACED NOT MORE THAN 600mm (24") O.C.,	1.4.2.	TABLES PROVIE WHERE THE BO FLOOR JOISTS, EXTERIOR WALL	TTOM WALL PI RIM JOISTS O	R BLOCKING I	N CONFORMA	NCE WITH TH	E PROVIDED T	
.1.1.4.	THE CONSTRUCTIONS DO NOT SERVE AS FOUNDATIONS (SEE PRESERVATIVE TREATED WOOD FOUNDATION SPECIFICATIONS), THE SPECIFIED LIVE LOAD ON SUPPORTED SUBFLOORS AND FLOOR FRAMING DOES NOT EXCEED 2.4 KPa, AND	1.4.2.1.	HAVING PLYWO FASTENED TO T TABLES, OR	OD, OSB OR V HE FLOOR FRA	AFERBOARD S MING BY NAII	SHEATHING E	XTEND DOWN	OVER FLOOR	
	E) THE SPAN OF ANY STRUCTURAL MEMBER DOES NOT EXCEED 12.20m (40'-0").	1.4.2.2.1. 1.4.2.2.2. 1.4.2.2.3.	TYING THE WAL 50mm WIDE, NOT LESS THAN SPACED NOT MO FASTENED AT E	0.41mm THIO	CK, m APART, AND	1		METAL STRIPS	
WOO	D FRAMED CONSTRUCTION - GENERAL - NBC 2015:	1.4.3.	WHERE THE 1-I RAFTERS, JOIST WILL RESIST A TYPICALLY). GALVANIZED-S	N-50 HOURLY IS OR TRUSSE FACTORED UP	WIND PRESSU S SHALL BE TI LIFT LOAD OF	RE IS EQUAL ED TO THE W 3kN. (DOES M	TO OR GREAT ALL FRAMING NOT APPLY TO	WITH CONNEC	CTORS TH AN
.1. .1.1.	GENERAL STRENGTH AND RIGIDITY ALL MEMBERS SHALL BE SO FRAMED, ANCHORED, FASTENED, TIED AND BRACED TO PROVIDE THE	1.4.4.2. 1.4.4.3.	50mm WIDE, NOT LESS THAN FASTENED AT E FASTENERS FOR	ACH END WIT	H AT LEAST FO		n NAILS.		
.2. .2.1.	NECESSARY STRENGTH AND RIGIDITY. PROTECTION FROM DECAY ENDS OF WOOD JOISTS, BEAMS AND OTHER MEMBERS FRAMING INTO MASONRY OR CONCRETE SHALL BE TREATED TO PREVENT DECAY WHERE THE BOTTOM OF THE MEMBER IS AT OR BELOW	1.5.2.	EXCEPT AS PRO TO THE TABLES FASTENING OF CONFORM TO T	CONTAINED I ROOF SHEATH	IN THESE SPEC	CIFICATIONS. ATHING IN RE	EQUIRED BRAC		
2.2.	GROUND LEVEL, OR A 12mm AIR SPACE SHALL BE PROVIDED AT THE END AND SIDES OF THE MEMBER. AIR SPACES REQUIRED ABOVE SHALL NOT BE BLOCKED BY INSULATION, VAPOUR-BARRIERS OR AIRTIGHT MATERIALS.		A) THE 1-IN-50 LESS THAN 1.24 THAN 0.90, OR THE SEISMIC S	<pa and="" s<="" td="" the=""><td>SEISMIC SPECT</td><td>RAL RESPON</td><td>SE ACCELERAT</td><td>TION, S_a(0.2),</td><td>IS NOT I</td></pa>	SEISMIC SPECT	RAL RESPON	SE ACCELERAT	TION, S _a (0.2),	IS NOT I
3.1.	PROTECTION FROM DAMPNESS EXCEPT AS PERMITTED BELOW, WOOD FRAMING MEMBERS THAT ARE NOT PRESSURE-TREATED WITH A WOOD PRESERVATIVE AND THAT ARE SUPPORTED ON CONCRETE IN CONTACT WITH THE GROUND OR FILL SHALL BE SEPARATED FROM THE CONCRETE BY NOT LESS THAN 0.05mm (6mil)	1.5.3.	MORE THAN 0.9 FASTENING OF CONFORM TO T	0. ROOF SHEATH ABLE 9.23.3.5	ING AND SHE C OF THE 20	ATHING IN RE	EQUIRED BRAC	CED WALL PAN	ELS SHA
3.2.	POLYETHYLENE FILM OR TYPE S ROLL ROOFING. DAMPROOFING MATERIAL REFERRED TO ABOVE IS NOT REQUIRED WHERE THE WOOD MEMBER IS AT LEAST 150mm ABOVE THE GROUND. LUMBER	1.5.3.2.	THE 1-IN-50 HC THAN 1.2kPa AI THE SEISMIC S MORE THAN 1.8	ND THE SPECT PECTRAL RESF 3.	RAL RESPONS PONSE ACCELE	E ACCELERAT RATION, $S_a(0)$	ION, S _a (0.2), 1 .2), IS GREAT	IS NOT MORE	THAN 1.8
	LUMBER SHALL CONFORM TO THE 'LUMBER AND WOOD PRODUCTS' SECTION OF THESE SPECIFICATIONS.	1.5.4.1. 1.5.4.2.	FASTENING OF WHERE THE 1-I FOR REQUIRED ACCELERATION	N-50 HOURLY BRACED WALI	WIND PRESSU PANELS, WHI	RE IS EQUAL	TO OR GREAT		Pa, OR
NOOL	FRAMED CONSTRUCTION - LUMBER & WOOD PRODUCTS - NBC	1.5.5. 1.5.6.	STAPLES SHALL 9.5mm CROWN ROOFING NAILS LESS THAN 3.2r	NOT BE LESS DRIVEN WITH FOR THE ATT	THAN 1.6mm THE CROWN ACHMENT OF	IN DIAMETER PARALLEL TO FIBREBOARD	FRAMING. OR GYPSUM S	HEATHING SH	
<u>2015:</u>		1.5.7. 1.5.8.	FLOORING SCRI THE EDGES OF WOOD BLOCKIN THE SEISMIC S	EWS SHALL NO SHEATHING II NG WHERE	OT BE LESS TH N A BRACED W	AN 3.2mm IN ALL PANEL SH	I DIAMETER. HALL BE SUPPO	ORTED AND FA	
1.1. 2.	LUMBER FOR JOISTS, RAFTERS, TRUSSES AND BEAMS SHALL BE IDENTIFIED BY A GRADE STAMP TO INDICATE ITS GRADE AS DETERMINED BY NLGA 2014, "STANDARD GRADING RULES FOR CANADIAN LUMBER." LUMBER GRADES	1.5.9.	THE BRACED W	ALL PANEL SU	PPORTS MORE	THAN A ROO	F OF LIGHTWE	EIGHT CONSTR	UCTION
2.1.	EXCEPT FOR JOISTS, RAFTERS, TRUSSES AND BEAMS, VISUALLY GRADED LUMBER SHALL CONFORM TO THE GRADES SPECIFIED IN THESE PLANS AND SPECIFICATIONS, OR IN THE LISTED ASSEMBLIES CALLED OUT IN THE DESIGN.	I	MINIMUM LEN	NGTH OF NAIL	S = 25.4mm)		MINIMUM DIAN	METER OF NAII mm (1" =	
3. 3.1. 4.	MACHINE STRESS RATED LUMBER MACHINE STRESS RATED LUMBER SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION TO CSA-086, "ENGINEERING DESIGN IN WOOD.". OSB, WAFERBOARD AND PLYWOOD MARKING		2-1/4" 2-1/2" 3"	63	mm mm	0.	113" 128"	3.2	7mm 5mm
4.1. 4.1.1. 4.1.2.	OSB, WAFERBOARD AND PLYWOOD USED FOR ROOF SHEATHING, WALL SHEATHING AND SUBFLOORING SHALL BE LEGIBLY IDENTIFIED ON THE FACE OF THE MATERIAL INDICATING THE MANUFACTURER OF THE MATERIAL, THE STANDARD TO WHICH IT IS PRODUCED, AND		3" 3-1/4" R GREATER	82	mm mm R GREATER	0.1	144" 144" 192"		5mm 5mm GREATE
4.1.3. 5. 5.1.	THAT THE MATERIAL IS OF AN EXTERIOR TYPE. MOISTURE CONTENT MOISTURE CONTENT OF LUMBER SHALL BE NOT MORE THAN 19% AT THE TIME OF INSTALLATION.	STAPL 2. NAILS	ARE TO BE COMM ES" WITH A MINII INSTALLED USIN	MUM YIELD STR G PNEUMATIC E	ENGTH OF 90,0 RIVERS (I.E. A	00 psi.		,	
6. 6.1. 7.	LUMBER DIMENSIONS LUMBER DIMENSIONS ARE ACTUAL DIMENSIONS DETERMINED IN CONFORMANCE WITH CSA 0141, "SOFTWOOD LUMBER." PANEL THICKNESS TOLERANCES	3. ALTER DIAME	TER AND MINIMU NATIVE NAILS MA TER AND THE SAI	AY BE SUBSTITU ME OR LARGER	ITED PROVIDED SHANK LENGTH	AND THE SAM	IE OR LARGER H	HEAD DIAMETER	
7.1.	THE THICKNESSES SPECIFIED IN THIS PART FOR PLYWOOD, HARDBOARD, PARTICLEBOARD, OSB AND WAFERBOARD SHALL BE SUBJECT TO THE TOLERANCES PERMITTED IN THE STANDARDS REFERENCED FOR THESE PRODUCTS UNLESS SPECIFICALLY INDICATED HEREIN.	SCHEE	-F1667, "D DULE: AIL SIZE	1			SPIKES, A	AND STAPI	LES"
8. 8.1.	UNDERSIZED LUMBER UNDERSIZED LUMBER MAY NOT BE USED IN CONSTRUCTION.		= COMMON)		DATED)		OATED)	HEAD D	IAMETER HES
NG]	INEERED WOOD PRODUCTS:	2d "C" 2d	15 14	0.072"	25.4mm) 1.83 mm 2.11 mm	1"	25.4mm) 25 mm 25 mm	13	16" 64"
	ENGINEERED WOOD PRODUCTS THIS SECTION APPLIES TO ALL CONSTRUCTION UTILIZING ENGINEERED WOOD PRODUCTS, INCLUDING BUT NOT LIMITED TO TRUSSES, JOISTS, STUDS, PLATES, BEAMS, COLUMNS, AND POSTS, BOTH SOLID AND BUILT-UP TYPES:	3d "C" 4d "C" 5d "C"	14 12 12	0.083" 0.109" 0.109"	2.11 mm 2.77 mm 2.77 mm	1-¼" 1-½" 1-¾"	32 mm 38 mm 45 mm	1	64" 4" 4"
1. 2.	MATERIALS: STRUCTURAL MEMBERS MADE OF WOOD SHALL CONFORM TO CSA-086, "ENGINEERING DESIGN IN WOOD." GLUED-LAMINATED MEMBERS SHALL BE FABRICATED IN PLANTS CONFORMING TO CSA-0177,	6d "C" 8d "C" 10d "C"	11 10 9	0.120" 0.134" 0.148"	3.05 mm 3.40 mm 3.76 mm	2" 2-½" 3"	51 mm 64 mm 76 mm	9	64" 32" 16"
2.1. 2.2. 3.	"QUALIFICATION CODE FOR MANUFACTURERS OF STRUCTURAL GLUED-LAMINATED TIMBER." LAMINATED VENEER LUMBER (LVL) SHALL BE MIN. 2,950Fb-2.0E OR BETTER IN GRADE. MACHINE STRESS RATED LUMBER (MSR) SHALL BE MIN. 1,650Fb-1.5E OR BETTER GRADE. SHOP DRAWINGS	12d "C" 16d "C" 20d "C"	9 8 6	0.148" 0.165" 0.203"	3.76 mm 4.19 mm 5.16 mm	3-¼" 3-½" 4"	83 mm 89 mm 102 mm	11	32" 32"
3.1. 3.2.	SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED PRIOR TO FABRICATION. SHOP DRAWINGS ARE TO INCLUDE PROPOSED: DIMENSIONS, MATERIALS, GRADES,	30d "C"	5	0.220"	5.59 mm 6.05 mm	4-½" 5"	108 mm 127 mm	7/	16" 32"
	CALCULATIONS, LAYOUT DRAWINGS, BRACING AND BRIDGING DETAILS, BEARING AND	40d "C"	4				152 mm	1/	
.3.3.	CALCULATIONS, LAYOUT DRAWINGS, BRACING AND BRIDGING DETAILS, BEARING AND ANCHORAGE DETAILS, AND CONNECTION DETAILS BETWEEN MEMBERS AND THEIR SUPPORTS. PROVIDE A STAMPED LETTER FROM THE ENGINEER RESPONSIBLE FOR JOIST DESIGN CONFIRMING THAT THE CALCULATIONS (INCLUDING LOAD INPUTS INTO THE SOFTWARE USED FOR THE JOIST AND BEAM DESIGN) HAVE BEEN REVIEWED. TRUSSES	60d "C" 60d 1. NAILS	4 2 S ARE TO BE COL	0.238" 0.284" MMON WIRE N				667, DRIVEN FA	32" 32" ASTENER
.4. .4.1.	ANCHORAGE DETAILS, AND CONNECTION DETAILS BETWEEN MEMBERS AND THEIR SUPPORTS. PROVIDE A STAMPED LETTER FROM THE ENGINEER RESPONSIBLE FOR JOIST DESIGN CONFIRMING THAT THE CALCULATIONS (INCLUDING LOAD INPUTS INTO THE SOFTWARE USED FOR THE JOIST AND BEAM DESIGN) HAVE BEEN REVIEWED. TRUSSES ROOF AND FLOOR TRUSSES TO BE DESIGNED AND FABRICATED IN ACCORDANCE WITH CAN/CSA-086 PREFABRICATED TRUSSES TO PROFILES, DIMENSIONS AND LOADS SHOWN ON THE DRAWINGS. TRUSS SUPPLIER IS TO DESIGN TRUSSES INCLUDING ALL INDIVIDUAL MEMBERS AND CONNECTORS IN ACCORDANCE WITH PART 4 OF NBC.	60d "C" 60d 1. NAILS 2. NAILS MININ 3. ALTER	4 2 3 ARE TO BE CO 5, SPIKES, AND 5 INSTALLED US 4 UM DIAMETER RNATIVE NAILS	0.238" 0.284" MMON WIRE N STAPLES" WIT ING PNEUMAT AND MINIMUM MAY BE SUBS	7.21 mm AILS AND SHA H A MINIMUM IC DRIVERS (I I LENGTH REQ FITUTED PROV	6" ALL CONFORM YIELD STREN .E. AIR NAIL (JIREMENTS. IDED THAT TH	TO ASTM-F16 IGTH OF 90,00 GUNS) MUST N HEY HAVE THE	667, DRIVEN FA 0 psi. MEET THE ABO E SAME OR LAR	32" ASTENER VE FAST .GER MIN
4. 4.1. 4.2. 4.3.	ANCHORAGE DETAILS, AND CONNECTION DETAILS BETWEEN MEMBERS AND THEIR SUPPORTS. PROVIDE A STAMPED LETTER FROM THE ENGINEER RESPONSIBLE FOR JOIST DESIGN CONFIRMING THAT THE CALCULATIONS (INCLUDING LOAD INPUTS INTO THE SOFTWARE USED FOR THE JOIST AND BEAM DESIGN) HAVE BEEN REVIEWED. TRUSSES ROOF AND FLOOR TRUSSES TO BE DESIGNED AND FABRICATED IN ACCORDANCE WITH CAN/CSA-086 PREFABRICATED TRUSSES TO PROFILES, DIMENSIONS AND LOADS SHOWN ON THE DRAWINGS. TRUSS SUPPLIER IS TO DESIGN TRUSSES INCLUDING ALL INDIVIDUAL MEMBERS AND CONNECTORS IN ACCORDANCE WITH PART 4 OF NBC. PROVIDE SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF SASKATCHEWAN. TRUSS SUPPLIER TO SIZE AND PROVIDE ALL REQUIRED CONNECTIONS, INCLUDING HOLD DOWNS, TIES, CLIPS AND HANGERS (SUCH AS "HURRICANE CLIPS").	60d "C" 60d 1. NAILS NAILS 2. NAILS MININ 3. ALTER DIAM	4 2 5 ARE TO BE CO 5, SPIKES, AND 5 INSTALLED US 10M DIAMETER	0.238" 0.284" MMON WIRE N STAPLES" WIT ING PNEUMAT AND MINIMUM MAY BE SUBS' SAME OR LARC	7.21 mm AILS AND SHA H A MINIMUM IC DRIVERS (I I LENGTH REQ ITITUTED PROV SER SHANK LEI	6" LL CONFORM YIELD STREN .E. AIR NAIL (JIREMENTS. IDED THAT TH NGTH AND TH	TO ASTM-F16 IGTH OF 90,00 GUNS) MUST N HEY HAVE THE IE SAME OR LA	667, DRIVEN FA 10 psi. MEET THE ABO E SAME OR LAR ARGER HEAD D	32" ASTENER VE FAST GER MII IAMETER
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4. 4.1. 4.2. 4.3. 4.4.	ANCHORAGE DÉTAILS, AND CONNECTION DETAILS BETWEEN MEMBERS AND THEIR SUPPORTS. PROVIDE A STAMPED LETTER FROM THE ENGINEER RESPONSIBLE FOR JOIST DESIGN CONFIRMING THAT THE CALCULATIONS (INCLUDING LOAD INPUTS INTO THE SOFTWARE USED FOR THE JOIST AND BEAM DESIGN) HAVE BEEN REVIEWED. TRUSSES ROOF AND FLOOR TRUSSES TO BE DESIGNED AND FABRICATED IN ACCORDANCE WITH CAN/CSA-086 PREFABRICATED TRUSSES TO PROFILES, DIMENSIONS AND LOADS SHOWN ON THE DRAWINGS. TRUSS SUPPLIER IS TO DESIGN TRUSSES INCLUDING ALL INDIVIDUAL MEMBERS AND CONNECTORS IN ACCORDANCE WITH PART 4 OF NBC. PROVIDE SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF SASKATCHEWAN. TRUSS SUPPLIER TO SIZE AND PROVIDE ALL REQUIRED CONNECTIONS, INCLUDING HOLD DOWNS, TIES, CLIPS AND HANGERS (SUCH AS "HURRICANE CLIPS"). ALL OPEN WEB WOOD TRUSSES AND JOISTS (O.W.W.T. & O.W.W.J.) TO BE MANUFACTURED	60d "C" 60d 1. NAILS NAILS 2. NAILS MININ 3. ALTER DIAM WOOD WHERE 2.4kPa (5 NAILING 0	4 2 3 ARE TO BE COL 5, SPIKES, AND 5 INSTALLED US 7 MUM DIAMETER RNATIVE NAILS ETER AND THE S 0 FRAMED (FLOOR LIVE LOA 50psf) & U.N.O. AND SPEC COF FRAMING ME THE FO CONSTRUCT	0.238" 0.284" MMON WIRE N STAPLES" WIT ING PNEUMAT AND MINIMUM MAY BE SUBS' SAME OR LARC CONSTR. CONSTR. ADING DOES N OTHERWISE II IFICATIONS ILOWING TION DETAIL:	7.21 mm AILS AND SHA H A MINIMUM IC DRIVERS (I I LENGTH REQ ITITUTED PROV SER SHANK LEI FRAMING OT EXCEED N THE PLANS CONFORM TO	6" ALL CONFORM YIELD STREN .E. AIR NAIL (JIREMENTS. IDED THAT TH NGTH AND TH FASTENE MINIMUM NA INCHES	TO ASTM-F16 IGTH OF 90,00 GUNS) MUST N HEY HAVE THE IE SAME OR LA ER SCHED LENGTH OF AILS mm (1" = 25.4mm)	67, DRIVEN FA 10 psi. MEET THE ABO E SAME OR LAR ARGER HEAD D OULE - 201 MINIMUM 1 MAXIMUM 1 NA INCHES 2 PER FLOOR	ASTENEF VE FAST GER MII IAMETE .5 NB NUMBER SPACING ILS (1" 25.44 2 PER F
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WALLS IN REQUIRED STRUCTION CONFORING NTERIOR W IN CONFORING REDD PORTED) CONTED R END NAIL	6" ALL CONFORM YIELD STREN E. AIR NAIL O JIREMENTS. IDED THAT THORT AND TH FASTENE MINIMUM N/A INCHES 3-1/4" 2-1/4" 2-1/4" 3" 3-1/4" 2-1/4" 3" 3-1/4" 4" 2-1/4" 3" 3-1/4" 4" 2-1/4" 3" 3-1/4" 3" 3-1/4" 3" 3-1/4" 3" 3-1/4" 3" 3-1/4" 3'-1/4" 3-1/4" 3-1/4" 3-1/4" 3-1/4" 3-1/4" 3-1/4" 3-1/4" 3-1/4" 3-1/4" 3-1/4" 3-1/4" 3'-1/4" 3'-1/4" 3-1/4" 3'-1/4" <td>TO ASTM-F16 IGTH OF 90,00 GUNS) MUST N HEY HAVE THE IE SAME OR LA ER SCHED LENGTH OF ALS MM 82 mm 257 mm 257 mm 257 mm 32 mm</td> <td>67, DRIVEN FA 0 psi. MEET THE ABO 2 SAME OR LAR RGER HEAD D DULE - 201 MINIMUM I MAXIMUM S NA INCHES 2 PER FLOOR JOIST OR BLOCKING 6" O.C. 2 2 @ EA. END 12" O.C. 2 2 PER JOIST 2 @ EA. END 12" O.C. 2 2 After O.C. 6" O.C. 6" O.C. 24" O.C. 6" O.C. 2 @ EA. END 2 2 2 @ EA. END 2 2 2 4" O.C. 6" O.C. 2 2 @ EA. END 2 2 @ EA. END 2 3 4 3 2 3 2 3 2 3 2 3 2<</td> <td>32 " ASTENER VE FAST GER MIN IAMETEF 5 NB0 VUMBER SPACING ILS mr (1" 2.5.4r 2.9ER F JOIST BLOCK 1.50mr 2.2 @ EA 300mr 2.2 @ EA 3.3 4.0 5.5 3.3 5.5 5.5</td>	TO ASTM-F16 IGTH OF 90,00 GUNS) MUST N HEY HAVE THE IE SAME OR LA ER SCHED LENGTH OF ALS MM 82 mm 257 mm 257 mm 257 mm 32 mm	67, DRIVEN FA 0 psi. MEET THE ABO 2 SAME OR LAR RGER HEAD D DULE - 201 MINIMUM I MAXIMUM S NA INCHES 2 PER FLOOR JOIST OR BLOCKING 6" O.C. 2 2 @ EA. END 12" O.C. 2 2 PER JOIST 2 @ EA. END 12" O.C. 2 2 After O.C. 6" O.C. 6" O.C. 24" O.C. 6" O.C. 2 @ EA. END 2 2 2 @ EA. END 2 2 2 4" O.C. 6" O.C. 2 2 @ EA. END 2 2 @ EA. END 2 3 4 3 2 3 2 3 2 3 2 3 2<	32 " ASTENER VE FAST GER MIN IAMETEF 5 NB0 VUMBER SPACING ILS mr (1" 2.5.4r 2.9ER F JOIST BLOCK 1.50mr 2.2 @ EA 300mr 2.2 @ EA 3.3 4.0 5.5 3.3 5.5 5.5
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1. SUBFLOOR SHE					
1.1.1. CAN/CSA-0121 1.1.2. CAN/CSA-0151 1.1.3. CAN/CSA-0153	D, O.S.B., WAFE , "DOUGLAS FIR , "CANADIAN SO , "POPLAR PLYW .0, "CONSTRUCT	PLYWOOD"; FTWOOD PLYV DOD";	VOOD";	IFORMING TO:	
1.1.5. CAN/CSA-0141 1.2. ALL SUBFLOOR 1.2.1. PL-PREMIUM CC	, "SOFTWOOD LU SHEATHING IS	JMBER" TO BE FASTEN DHESIVE; AND	ED TO ITS S),		
RESIDENTIAL SU	IBFLOOR SH	EATHING	MINIMUI	M THICKNE	SS S
MAXIMUM SPACING OF SUPPORTS	PLYWOOD AND GRADE O-2 O.S.E	O.S.B. OR	9-1 & R-1 GRADE R-1 FERBOARD	LUMBER SHEATI	HING
16" (400mm) 19.2" (488mm)	5/8" (15.5mm) 5/8" (15.5mm)		mm	17mm 19.0mm	
24" (600mm)	3/4" (18.5mm)		mm	19.0mm	
SUBFLOOR SHEA S _a (0.2)≤0.7 i.e.					WP<
		IIM	NIMUM LENG	TH OF FASTENE	RS
ELEMENT	:	COMMON OR SPIRAL NAILS	RING THREA NAILS OR SCREWS	D ROOFING NAILS	ST/
		INCH (mm)	INCH (mm		INC
BOARD LUMBER 184mm BOARD LUMBER 184mm		51mm 51mm	45mm 45mm	N/A N/A	51 51
PLYWOOD, OSB OR WAF TO 10mm THICK	ERBOARD UP	51mm	45mm	N/A	38
PLYWOOD, OSB OR WAF		51mm	45mm	N/A	5:
10mm THICK UP TO 20r	nm THICK			,	
PLYWOOD, OSB OR WAF	ERBOARD OVER	57mm	51mm	N/A	ſ
	ERBOARD OVER	57mm	51mm	,	1
PLYWOOD, OSB OR WAF	ERBOARD OVER	57mm	51mm	,	
PLYWOOD, OSB OR WAF	ERBOARD OVER	57mm		N/A	
RESIDENTI/ 1. WALL SHEATHI 1.1. TO BE PLYWOO 1.1.1. CAN/CSA-0121 1.1.2. CAN/CSA-0151 1.1.3. CAN/CSA-0153 1.1.4. CAN/CSA-0153 1.1.5. CAN/CSA-0141 1.2. ALL WALL SHEA	ERBOARD OVER	SHEAT RBOARD, OR I PLYWOOD"; FTWOOD PLYV DOD"; ION SHEATHII JMBER" FASTENED TO	THING LUMBER CON VOOD"; NG"; OR, D ITS SUPPO	IFORMING TO:	
PLYWOOD, OSB OR WAF 20mm THICK UP TO 25r RESIDENTI/ 1. WALL SHEATHI 1.1. TO BE PLYWOO 1.1.1. CAN/CSA-0121 1.1.2. CAN/CSA-0151 1.1.3. CAN/CSA-0153 1.1.4. CAN/CSA-0153 1.1.5. CAN/CSA-0141 1.2. ALL WALL SHE/	AL WALL NG: D, O.S.B., WAFE , "DOUGLAS FIR , "CANADIAN SO , "CONSTRUCT , "SOFTWOOD LI THING IS TO BE ATHING FASTENI	SHEAT RBOARD, OR I PLYWOOD"; FTWOOD PLYV DOD"; ION SHEATHII JMBER" FASTENED TO FR SCHEDULE	UMBER CON VOOD"; NG"; OR, D ITS SUPPC BELOW.	IFORMING TO:	G WIT
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PLYWOOD, OSB OR WAF 20mm THICK UP TO 25r RESIDENTIA 1. WALL SHEATHI 1.1. TO BE PLYWOO 1.1.1. CAN/CSA-0121 1.1.2. CAN/CSA-0151 1.1.3. CAN/CSA-0153 1.1.4. CAN/CSA-0153 1.1.5. CAN/CSA-0153 1.1.5. CAN/CSA-0153 1.1.5. CAN/CSA-0153 1.1.5. CAN/CSA-0154 1.2. ALL WALL SHEA THE WALL SHEATHING & INTERIOU	AL WALL NG: D, O.S.B., WAFE , "DOUGLAS FIR , "CANADIAN SO , "POPLAR PLYW' .0, "CONSTRUCT ,"SOFTWOOD LL ,"SOFTWOOD LL ,"SOFTWOOD LL ALL SHEATH ALL SHEATH , WHERE Sa(0. AT	SHEAT SHEAT RBOARD, OR I PLYWOOD"; FTWOOD PLYV DOD"; ION SHEATHIN JMBER" FASTENED TO SR SCHEDULE ING MININ 2) ≤ 0.90 WIT	HING UMBER CON VOOD"; NG"; OR, D ITS SUPPC BELOW. MUM THI TH SUPPORT D.C.	IFORMING TO: RTING FRAMING CKNESS SC S WHERE Sa(0. AT :	G WIT CHE[2) ≤ 24" (6
PLYWOOD, OSB OR WAF 20mm THICK UP TO 25r RESIDENTIA 1. WALL SHEATHI 1.1. TO BE PLYWOO 1.1.1. CAN/CSA-0121 1.1.2. CAN/CSA-0151 1.1.3. CAN/CSA-0151 1.1.3. CAN/CSA-0151 1.1.4. CAN/CSA-0151 1.1.5. CAN/CSA-0141 1.2. ALL WALL SHEATHING THE WALL SHEATHING & INTERIOU FINISHES SYPSUM BOARD INTERIO	AL WALL AL WALL AL WALL AL WALL AL WALL AL SHEATH ALL SHEATH	SHEAT SHEAT RBOARD, OR I PLYWOOD"; FTWOOD PLYV DOD"; ION SHEATHIN JMBER" FASTENED TC FR SCHEDULE ING MININ 2) ≤ 0.90 WIT 16" (400mm)	HING UMBER CON VOOD"; NG"; OR, D ITS SUPPC BELOW. MUM THI TH SUPPORT D.C.	IFORMING TO: RTING FRAMING CKNESS SC S WHERE Sa(0. AT :	CHEI 2) ≤ 24" (€
PLYWOOD, OSB OR WAF 20mm THICK UP TO 25r RESIDENTIA 1. WALL SHEATHI 1.1. TO BE PLYWOO 1.1.1. CAN/CSA-0121 1.1.2. CAN/CSA-0151 1.1.3. CAN/CSA-0153 1.1.4. CAN/CSA-0153 1.1.5. CAN/CSA-0151 1.1.5. CAN/CSA-0151 1.1.5. CAN/CSA-0151 1.1.2. ALL WALL SHEA THE WALL SHEA SUPSUM BOARD INTERIO FINISHES SYPSUM BOARD INTERIO FINISHES	ALL SHEATH	SHEAT SHEAT RBOARD, OR I PLYWOOD"; FTWOOD PLYV DOD"; ION SHEATHIN JMBER" FASTENED T(ER SCHEDULE ING MINII 2) ≤ 0.90 WIT L6" (400mm) 0 /2 " (12.7mm)	HING UMBER CON VOOD"; NG"; OR, D ITS SUPPC BELOW. MUM THI TH SUPPORT D.C.	IFORMING TO: RTING FRAMING CKNESS SC	G WIT CHE[2) ≤ 24" (6 5/8" (\
PLYWOOD, OSB OR WAF 20mm THICK UP TO 25r RESIDENTI 1. WALL SHEATHI 1.1. TO BE PLYWOO 1.1.1. CAN/CSA-0121 1.1.2. CAN/CSA-0151 1.1.3. CAN/CSA-0153 1.1.4. CAN/CSA-0153 1.1.5. CAN/CSA-0153 1.1.5. CAN/CSA-0151 1.2. ALL WALL SHE THE WALL SHE THE WALL SHE THE WALL SHE SHEATHING & INTERION FINISHES SHEATHING & INTERION FINISHES SHEATHING COMPLYING WITH CAN/CSA-0325 0-1 & 0-2 GRADE 0.S.E	AL WALL AL WALL AL WALL AL WALL AL WALL AL CONSTRUCT , "DOUGLAS FIR , "DOUGLAS FIR , "CANADIAN SO , "POPLAR PLYW .0, "CONSTRUCT , "SOFTWOOD LI THING IS TO BE ATHING FASTENI ALL SHEATH , WHERE Sa(0. AT] ALL SHEATH , ALL SHEATH	SHEAT SHEAT RBOARD, OR I PLYWOOD"; FTWOOD PLYV DOD"; ION SHEATHIN JMBER" FASTENED TC ER SCHEDULE ING MINII 2) ≤ 0.90 WIT L6" (400mm) /2 " (12.7mm W16	HING UMBER CON VOOD"; NG"; OR, D ITS SUPPC BELOW. MUM THI TH SUPPORT D.C.	IFORMING TO: RTING FRAMING CKNESS SC S WHERE Sa(0. AT 1	G WIT CHEE 2) ≤ 24" (6 5/8" (\ \ \ \
PLYWOOD, OSB OR WAF 20mm THICK UP TO 25r RESIDENTIA 1. WALL SHEATHI 1.1. TO BE PLYWOO 1.1.1. CAN/CSA-0121 1.1.2. CAN/CSA-0151 1.1.3. CAN/CSA-0151 1.1.3. CAN/CSA-0151 1.1.4. CAN/CSA-0151 1.1.5. CAN/CSA-0151 1.1.5. CAN/CSA-0151 1.1.6. CAN/CSA-0151 1.1.7. ALL WALL SHEA THE WALL SHEA THE WALL SHEA THE WALL SHEA THE WALL SHEA THE WALL SHEA SHEATHING & INTERIOU FINISHES GYPSUM BOARD INTERIO FINISHES SHEATHING COMPLYING WITH CAN/CSA-0325	AL WALL AL WALL AL WALL AL WALL AL WALL AL SHEATH ALL SHEATH	SHEAT RBOARD, OR I PLYWOOD"; FTWOOD PLYV DOD"; ION SHEATHIN JMBER" FASTENED TC ER SCHEDULE ING MINII 2) ≤ 0.90 WIT 16" (400mm) /2 " (12.7mm W16 7/16 " (11mm)	HING UMBER CON VOOD"; NG"; OR, D ITS SUPPC BELOW. MUM THI TH SUPPORT D.C.	IFORMING TO: CKNESS SC S WHERE Sa(0, AT : 1 1 1 1 1	G WIT

ELEMENT:	

BOARD LUMBER 184mm OR LESS V
BOARD LUMBER 184mm OR MORE
PLYWOOD, OSB OR WAFERBOARD TO 10mm THICK
PLYWOOD, OSB OR WAFERBOARD 10mm THICK UP TO 20mm THICK
PLYWOOD, OSB OR WAFERBOARD 20mm THICK UP TO 25mm THICK

RES	SIDENTIAL ROOF SHEATHIN
1. 1.1. 1.1.1. 1.1.2. 1.1.3. 1.1.4. 1.1.5. 1.2.	ROOF SHEATHING: TO BE PLYWOOD, O.S.B., WAFERBOARD, OR LUMBER (CAN/CSA-0121, "DOUGLAS FIR PLYWOOD"; CAN/CSA-0151, "CANADIAN SOFTWOOD PLYWOOD"; CAN/CSA-0153, "POPLAR PLYWOOD"; CAN/CSA-0325.0, "CONSTRUCTION SHEATHING"; OR, CAN/CSA-0141, "SOFTWOOD LUMBER" ALL ROOF SHEATHING IS TO BE FASTENED TO ITS SUI THE ROOF SHEATHING FASTENER SCHEDULE BELOW.

RESIDEN	ITI	AL ROC	F SHE
EDGE CONDITION	S	MAX. PACING	CAN/C O325 SHEAT
UNSUPPORTED	12"	(300mm)	2R1
UNSUPPORTED	16"	(400mm)	2R2
UNSUPPORTED	24"	(600mm)	2R2
SUPPORTED	12"	(300mm)	2R1
SUPPORTED	16"	(400mm)	2R2
SUPPORTED	24"	(600mm)	2R2

SPIRAL NAILS NAILS OR SCREWS INCH (mm) INCH (mm) BOARD LUMBER 184mm OR LESS WIDE 51mm BOARD LUMBER 184mm OR MORE WIDE 51mm BOARD LUMBER 184mm OR MORE WIDE 51mm PLYWOOD, OSB OR WAFERBOARD UP TO 10mm THICK 51mm PLYWOOD, OSB OR WAFERBOARDOVER 10mm THICK UP TO 20mm THICK 51mm PLYWOOD, OSB OR WAFERBOARDOVER 20mm THICK UP TO 25mm THICK 57mm S1mm 51mm	ROOFING NAILS NCH (mm) N/A N/A N/A	STAPLES INCH (mm) 51mm 51mm 38mm 51mm	2 PER SUP'T 3 PER SUP'T 150mm O.C. ALONG EDGES AND 300mm O.C.		
BOARD LUMBER 184mm OR LESS WIDE 51mm 45mm BOARD LUMBER 184mm OR MORE WIDE 51mm 45mm PLYWOOD, OSB OR WAFERBOARD UP 51mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 51mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 51mm 45mm 10mm THICK 51mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 51mm 45mm 10mm THICK UP TO 20mm THICK 51mm 51mm PLYWOOD, OSB OR WAFERBOARDOVER 57mm 51mm 20mm THICK UP TO 25mm THICK 57mm 51mm WOODD FRAMED CONSTRUCTION - CONCRETE T 1. CONCRETE TOPPING (SEE NOTE A-9.23.4.4.)	N/A N/A N/A	51mm 51mm 38mm	2 PER SUP'T 3 PER SUP'T 150mm O.C. ALONG EDGES AND 300mm O.C.		
BOARD LUMBER 184mm OR MORE WIDE 51mm 45mm PLYWOOD, OSB OR WAFERBOARD UP 51mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 51mm 51mm PLYWOOD, OSB OR WAFERBOARDOVER 57mm 51mm WOODD FRAMED CONSTRUCTION - CONCRETE T 1. CONCRETE TOPPING (SEE NOTE A-9.23.4.4.)	N/A N/A	51mm 38mm	3 PER SUP'T 150mm O.C. ALONG EDGES AND 300mm O.C.		
PLYWOOD, OSB OR WAFERBOARD UP 51mm 45mm TO 10mm THICK 51mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 51mm 45mm 10mm THICK UP TO 20mm THICK 51mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 57mm 51mm Qumm THICK UP TO 25mm THICK 57mm 51mm WOOD FRAMED CONSTRUCTION - CONCRETE T 1. CONCRETE TOPPING (SEE NOTE A-9.23.4.4.)	N/A	38mm	150mm O.C. ALONG EDGES AND 300mm O.C.		
TO 10mm THICK S1mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 51mm 45mm 10mm THICK UP TO 20mm THICK 51mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 57mm 51mm 20mm THICK UP TO 25mm THICK 57mm 51mm WOOD FRAMED CONSTRUCTION - CONCRETE T 1. CONCRETE TOPPING (SEE NOTE A-9.23.4.4.)	,		ALONG EDGES AND 300mm O.C.		
10mm THICK UP TO 20mm THICK 51mm 45mm PLYWOOD, OSB OR WAFERBOARDOVER 20mm THICK UP TO 25mm THICK 57mm 51mm WOOD FRAMED CONSTRUCTION - CONCRETE T 1. CONCRETE TOPPING (SEE NOTE A-9.23.4.4.)	N/A	51mm	300mm O.C		
WOOD FRAMED CONSTRUCTION - CONCRETE T 1. CONCRETE TOPPING (SEE NOTE A-9.23.4.4.)			ALONG		
1. CONCRETE TOPPING (SEE NOTE A-9.23.4.4.)	N/A	N/A	INTER- MEDIATE SUPPORTS		
 EXCEPT AS PERMITTED IN SENTENCE (2), WHERE A FLOOR IS REQUIRED TO SUPPORT A CONCRETE TOPPING, THE JOIST SPANS SHOWN IN SPAN TABLE 9.23.4.2A OR THE SPACING OF THE MEMBERS SHALL BE REDUCED TO ALLOW FOR THE LOADS DUE TO THE TOPPING. 1.2. 2) WHERE A FLOOR IS REQUIRED TO SUPPORT A CONCRETE TOPPING, JOIST SPANS ARE PERMITTED TO BE SELECTED FROM SPAN TABLE 9.23.4.2B PROVIDED THE CONCRETE 1.2.1. A) IS 38 TO 51 MM THICK, 1.2.2. B) IS NORMAL WEIGHT, 					

ROOF SHEATHING FASTENE) QLD2 AN			
$S_a(0.2) \le 0.7$ i.e. SASKATCHE				J.OKF a AN			
MINIMUM LENGTH OF FASTENERS							
ELEMENT:	COMMON OR SPIRAL NAILS	RING THREAD NAILS OR SCREWS	ROOFING NAILS	STAPLES	MAX. SPACING OF NAILS		
INCH (mm) INCH (mm) INCH (mm) I							
BOARD LUMBER 184mm OR LESS WIDE	51mm	45mm	N/A	51mm	2 PER SUP'T		
BOARD LUMBER 184mm OR MORE WIDE	51mm	45mm	N/A	51mm	3 PER SUP'T		
PLYWOOD, OSB OR WAFERBOARD UP TO 10mm THICK 51mm 45mm N/A 38mm 150mm O.C. ALONG							
PLYWOOD, OSB OR WAFERBOARDOVER 10mm THICK UP TO 20mm THICK	51mm	45mm	N/A	51mm	EDGES AND 300mm O.C. ALONG		
PLYWOOD, OSB OR WAFERBOARDOVER 20mm THICK UP TO 25mm THICK	INTER- MEDIATE SUPPORTS						
WOOD FRAMED CONSTRUCTION - CONCRETE TOPPING - 2015 NBC:							
 CONCRETE TOPPING (SEE NOTE A-9.23.4.4.) EXCEPT AS PERMITTED IN SENTENCE (2), WHERE A FLOOR IS REQUIRED TO SUPPORT A CONCRETE TOPPING, THE JOIST SPANS SHOWN IN SPAN TABLE 9.23.4.2A OR THE SPACING OF THE MEMBERS SHALL BE REDUCED TO ALLOW FOR THE LOADS DUE TO THE TOPPING. 2) WHERE A FLOOR IS REQUIRED TO SUPPORT A CONCRETE TOPPING, JOIST SPANS ARE PERMITTED TO BE SELECTED FROM SPAN TABLE 9.23.4.2B PROVIDED THE CONCRETE A) IS 38 TO 51 MM THICK, C) IS PLACED DIRECTLY ON THE SUBFLOORING, AND C) IS PLACED DIRECTLY ON THE SUBFLOORING AND C) IS PLACED TOR SEQUIRED TO SUPPORT A CONCRETE TOPPING NOT MORE THAN 51 MM THICK, THE ALLOWABLE BEAM SPANS SHOWN IN SPAN TABLES 9.23.4.2H TO 9.23.4.2K SHALL BE MULTIPLIED BY 0.8 OR THE SUPPORTED LENGTH OF THE FLOOR JOISTS SHALL BE REDUCED TO ALLOW FOR THE LOADS DUE TO THE TOPPING. 							

ICATED IN ACCORDANCE WITH DIMENSIONS AND LOADS SHOWN ON IES INCLUDING ALL INDIVIDUAL RT 4 OF NBC. IFESSIONAL ENGINEER LICENSED TO	 NAILS INSTALLED USING PNEUMATIC DRIVERS (I MINIMUM DIAMETER AND MINIMUM LENGTH REQU ALTERNATIVE NAILS MAY BE SUBSTITUTED PROV DIAMETER AND THE SAME OR LARGER SHANK LEN 	E. AIR NAIL G JIREMENTS. IDED THAT TH	UNS) MUST M	SAME OR LAR	GER MINIMUM	
CONNECTIONS, INCLUDING HOLD ANE CLIPS"). & O.W.W.J.) TO BE MANUFACTURED	WOOD FRAMED CONSTR. FRAMING FASTENER SCHEDULE - 2015 NBC:					
,	WHERE FLOOR LIVE LOADING DOES NOT EXCEED 2.4kPa (50psf) & U.N.O. OTHERWISE IN THE PLANS AND SPECIFICATIONS:	MINIMUM L		MINIMUM N MAXIMUM S NA	SPACING OF	
	NAILING OF FRAMING MEMBERS IS TO CONFORM TO THE FOLLOWING CONSTRUCTION DETAIL:	INCHES	mm (1" = 25.4mm)	INCHES	mm (1" = 25.4mm)	
	FLOOR JOIST OR BLOCKING PERPENDICULAR TO SILL PLATE OR TOP WALL PLATE BELOW- TOE NAIL	3-1/4"	82 mm	2 PER FLOOR JOIST OR BLOCKING	2 PER FLOOR JOIST OR BLOCKING	

BFLOOR SHEATHING: WAFERBOARD, OR LUMBER CONFORMING TO: AS FIR PLYWOOD"; (AN SOFTWOOD PLYWOOD"; PLYWOOD"; TRUCTION SHEATHING"; OR, NOD LUMBER" NG IS TO BE FASTENED TO ITS SUPPORTING FRAMING WITH: ON ADHESIVE; AND,

R SHEATHING MINIMUM THICKNESS SCHEDULE:								
AND O.S.B.	GRADE O-1 & R-1 O.S.B. OR GRADE R-1 & O-1 WAFERBOARD	LUMBER SHEATHING	CAN/CSA-O325.0 SHEATHING					
5mm)	15.9mm	17mm	1F16					
5mm)	15.9mm	19.0mm	1F20					
5mm)	19.0mm	19.0mm	1F24					

FASTENER SCHEDULE (1-IN-50 HWP<0.8kPa AND CHEWAN) - 2015 NBC:

	MIM	MIN. NUMBER OR				
	COMMON OR SPIRAL NAILS	RING THREAD NAILS OR SCREWS	ROOFING NAILS	STAPLES	MAX. SPACING OF NAILS	
	INCH (mm)	INCH (mm)	INCH (mm)	INCH (mm)	INCH (mm)	
WIDE	51mm	45mm	N/A	51mm	2 PER SUP'T	
WIDE	51mm	45mm	N/A	51mm	3 PER SUP'T	
UP	51mm	45mm	N/A	38mm	150mm O.C. ALONG EDGES AND 300mm O.C. ALONG INTER- MEDIATE SUPPORTS	
OVER	51mm	45mm	N/A	51mm		
OVER	57mm	51mm	N/A	N/A		

ALL SHEATHING:

WAFERBOARD, OR LUMBER CONFORMING TO:	
AS FIR PLYWOOD";	

TO BE FASTENED TO ITS SUPPORTING FRAMING WITH FASTENERS AS PER STENER SCHEDULE BELOW.

ATHING MINIMUM THICKNESS SCHEDULE:					
Sa(0.2) ≤ 0.90 WITH SUPPORTS AT 16" (400mm) O.C.	WHERE Sa(0.2) ≤ 0.90 WITH SUPPORTS AT 24" (600mm) O.C.				
1/2 " (12.7mm)	5/8" (15.9mm)				
W16	W24				
7/16 " (11mm)	1/2 " (12.7mm)				
3/8 " (9.5mm)	1/2 " (12.7mm)				
7/16 " (11mm)	1/2 " (12.7mm)				
21/32 " (17mm)	21/32 " (17mm)				

ENER SCHEDULE (1-IN-50 HWP<0.8kPa AND CHEWAN) - 2015 NBC:								
	MINIMUM LENGTH OF FASTENERS MIN.							
	COMMON OR SPIRAL NAILS	RING THREAD NAILS OR SCREWS	ROOFING NAILS	STAPLES	MAX. SPACING OF NAILS			
	INCH (mm)	INCH (mm)	INCH (mm)	INCH (mm)	INCH (mm)			
WIDE	51mm	45mm	N/A	51mm	2 PER SUP'T			
WIDE	51mm	45mm	N/A	51mm	3 PER SUP'T			
UP	51mm	45mm	N/A	38mm	150mm O.C.			
OVER	51mm	45mm	N/A	51mm	ALONG EDGES AND 300mm O.C.			
OVER	57mm	51mm	N/A	N/A	ALONG INTER- MEDIATE			
					SUPPORTS			

OF SHEATHING:

WAFERBOARD, OR LUMBER CONFORMING TO: S FIR PLYWOOD":

AN SOFTWOOD PLYWOOD"; PLYWOOD":

FRUCTION SHEATHING"; OR, OD LUMBER" TO BE FASTENED TO ITS SUPPORTING FRAMING WITH FASTENERS AS PER

EATHING MINIMUM THICKNESS SCHEDULE:						
CSA- 5.0 PLYWOOD O.S.B. & O.S.B. & O.S.B. & LUMBER HING WAFERBOARDWAFERBOARDWAFERBOARD						
7.5mm	9.5mm	9.5mm		17.0mm		
9.5mm			9.5mm	17.0mm		
1/2"(12.5mm)				19.0mm		
7.5mm	9.5mm	9.5mm				
7.5mm	9.5mm	9.5mm				
9.5mm			9.5mm			
	PLYWOOD 7.5mm 9.5mm 1/2"(12.5mm) 7.5mm 7.5mm	PLYWOOD R-1 GRADE O.S.B. & WAFERBOARD 7.5mm 9.5mm 9.5mm 1/2"(12.5mm) 7.5mm 9.5mm 7.5mm 9.5mm	PLYWOOD R-1 GRADE O.S.B. & WAFERBOARD 0-1 GRADE O.S.B. & WAFERBOARD 7.5mm 9.5mm 9.5mm 9.5mm 9.5mm 9.5mm 1/2"(12.5mm) 9.5mm 9.5mm 7.5mm 9.5mm 9.5mm 7.5mm 9.5mm 9.5mm 7.5mm 9.5mm 9.5mm	PLYWOOD R-1 GRADE O.S.B. & WAFERBOARDWAFERBOARD 9.5mm 0-1 GRADE O.S.B. & WAFERBOARDWAFERBOARD 9.5mm 0-2 GRADE O.S.B. & WAFERBOARD 9.5mm 9.5mm 9.5mm 9.5mm 1/2"(12.5mm) 9.5mm 9.5mm 7.5mm 9.5mm 9.5mm 7.5mm 9.5mm 9.5mm 7.5mm 9.5mm 9.5mm		

WOOD FRAMED CONSTRUCTION - ANCHORAGE OF SUPERSTRUCTURES TO FOUNDATIONS - NBC 2015: ANCHORAGE OF PART 9 BUILDINGS ANCHOR PLACEMENT AND TOLERANCE ANCHORS MUST NOT VARY FROM THE SIZES AND DIMENSIONS REQUIRED BELOW AND MUST BE PLACED AS FOLLOWS: 1.1.1.2. WITHIN 1/8" (3MM) CENTRE TO CENTRE OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP, WHERE AN ANCHOR ROD GROUP IS DEFINED AS THE SET OF ANCHOR RODS WHICH RECEIVES A SINGLE FABRICATED STEEL SHIPPING PIECE; WITHIN 1/4" (6MM) CENTRE TO CENTRE OF ADJACENT ANCHOR ROD GROUPS: 1.1.1.3. WITH A MAXIMUM ACCUMULATION OF 1/4" (6MM) PER 100' (30.480M) ALONG THE ESTABLISHED COLUMN LINE OF MULTIPLE ANCHOR ROD GROUPS, BUT NOT TO EXCEED A TOTAL OF 1" (25MM). THE ESTABLISHED COLUMN LINE IS THE ACTUAL FIELD LINE MOST 1.1.1.4. REPRESENTATIVE OF THE CENTRES OF THE AS-BUILT ANCHOR ROD GROUPS ALONG A LINE OF 1.1.1.5. WITHIN 1/4" (6MM) FROM THE CENTRE OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP. THE TOLERANCES OF PARAGRAPHS B, C AND D ALSO APPLY TO OFFSET DIMENSIONS, SHOWN ON THE CONSTRUCTION DRAWINGS, MEASURED PARALLEL ND PERPENDICULAR TO HE NEAREST ESTABLISHED COLUMN LINE OR INDIVIDUAL COLUMNS SHOWN ON THE DRAWINGS TO BE OFFSET ROM ESTABLISHED COLUMN LINE. ANCHOR SHALL BE SET PERPENDICULAR TO THE THEORETICAL BEARING SURFACE AND ALL THREADS SHALL BE PROTECTED AND FREE OF CONCRETE AND NUTS SHALL RUN FREELY ON 1.1.1.6. THE THREADS. SHEAR POCKETS SHALL BE CLEANED OF DEBRIS, FORMWORK, ICE AND SNOW PRIOR INSTALLING ANCHORS. ALL PART 9 BUILDING FRAMES SHALL BE ANCHORED TO THEIR RESPECTIVE SUPPORTING FOUNDATIONS IN ACCORDANCE WITH THE BALANCE OF THIS SPECIFICATION. FOR BUILDINGS WITH LESS THAN TWO (2) OR MORE FLORDS SUPPORTED BY FRAME WALLS, ANCHORAGE SHALL BE PROVIDED BY FASTENING THE SILL PLATE TO THE FOUNDATION WITH NOT LESS THAN TWO ANCHORS PER BRACED WALL PANEL, WHERE ALL ANCHORS USED ARE: 1.2.1. NOT LESS THAN 12.7mm (1/2") DIAMETER ANCHOR RODS SPACED NOT MORE THAN 2.4m 1.2.1.1. 1.2.1.2. NOT LESS THAN 12.7mm (1/2") DIAMETER SIMPSON STRONG-TIE WEDGE-ALL WEDGE ANCHORS SPACED NOT MORE THAN 2.4M (8'-0") O.C.; OR 1.2.1.3. NOT LESS THAN 12.7mm (1/2") DIAMETER SIMPSON STRONG-TIE TITEN HD ANCHORS SPACED NOT MORE THAN 2.4M (8'-0") O.C.. NOT MORE THAN 2.4M (8'-0") O.C.. 1.2.2. FOR BUILDINGS WITH TWO (2) OR MORE FLOORS SUPPORTED BY FRAME WALLS, ANCHORAGE SHALL BE PROVIDED BY FASTENING THE SILL PLATE TO THE FOUNDATION WITH NOT LESS THAN TWO ANCHORS PER BRACED WALL PANEL, WHERE ALL ANCHORS USED ARE: 1.2.2.1. NOT LESS THAN 15.9mm IN DIAMETER ANCHOR RODS, LOCATED WITHIN 0.5m OF THE END OF THE FOUNDATION, AND SPACED NOT MORE THAN 2.4m O.C., OR 1.2.2.2. NOT LESS THAN 12.7mm IN DIAMETER ANCHOR PODS. 1.2.2.2. NOT LESS THAN 12.7mm IN DIAMETER ANCHOR RODS, LOCATED WITHIN 0.5 M OF THE END OF HE FOUNDATION, AND SPACED NOT MORE THAN 1.7m O.C. 1.2.3. ANCHORS NOTED ABOVE SHALL CONFORM TO

ANCHOR RODS ASTM F1554, GRADE 36 (248MPa) 1.2.3.1 ANCHOR RODS AS 100 (248M) SIMPSON STRONG-TIE WEDGE-ALL WEDGE ANCHORS MANUF. SPECIFICATIONS SIMPSON STRONG-TIE TITEN HD ANCHORS MANUF. SPECIFICATIONS ALL ANCHOR RODS, SIMPSON STRONG-TIE WEDGE-ALL WEDGE ANCHORS AND SIMPSON STRONG-TIE TITEN HD ANCHORS SHALL BE: 1.2.3.2 1.2.3.3. FASTENED TO THE SILL PLATE WITH NUTS AND WASHERS, EMBEDDED NOT LESS THAN 100mm (4") IN THE CONCRETE FOUNDATION, AND 1.2.4.1.

1.2.4.2. SO DESIGNED THAT THEY MAY BE TIGHTENED WITHOUT WITHDRAWING THEM FROM THE 1.2.4.3. FOUNDATION. ANCHORAGE OF COLUMNS AND POSTS IN PART 9 BUILDINGS

EXCEPT AS PERMITTED BELOW, ALL EXTERIOR COLUMNS AND POSTS SHALL BE ANCHORED TO RESIST UPLIFT AND LATERAL MOVEMENT WITH SIMPSON STRONG-TIE COLUMN AND POST

WHERE COLUMNS OR POSTS SUPPORT BALCONIES, DECKS, VERANDAS OR OTHER EXTERIOR PLATFORMS, AND THE DISTANCE FROM FINISHED GROUND TO THE UNDERSIDE OF THE JOISTS IS NOT MORE THAN 600mm (2'-0"),

THE COLUMNS OR POSTS SHALL BE ANCHORED TO THE FOUNDATION TO RESIST UPLIFT AND .3.2.1. LATERAL MOVEMENT, OR 1.3.2.2.

THE SUPPORTED JOISTS OR BEAMS SHALL BE DIRECTLY ANCHORED TO THE GROUND TO RESIST UPLIFT.

ANCHORAGE IS NOT REQUIRED FOR PLATFORMS DESCRIBED ABOVE THAT ARE NOT MORE THAN 1 STOREY IN HEIGHT, ARE NOT MORE THAN 55m² (592ft²) IN AREA, DO NOT SUPPORT A ROOF, AND

1.2.4.

1.3.1.

1.3.2.

1.4.1

ARE NOT ATTACHED TO ANOTHER STRUCTURE. 1.3.3.4 ANCHORAGE OF SMALL PART 9 BUILDINGS

BUILDINGS NOT MORE THAN 4.3m $(14'-1\frac{1}{4}")$ WIDE AND NOT MORE THAN 1 STOREY IN BUILDING HEIGHT SHALL BE EITHER ANCHORED AS REQUIRED ABOVE, OR ANCHORED IN CONFORMANCE WITH THE REQUIREMENTS OF CSA-Z240.10.1, "SITE PREPARATION, FOUNDATION, AND ANCHORAGE OF MANUFACTURED HOMES.

ANCHORAGE OF OTHER ELEMENTS:

- ANCHORAGE FOR OTHER THAN BUILDING STRUCTURES TO FOUNDATIONS IS TO MEET THE REOUIREMENTS OF THIS SECTION.
- DRILLED CONCRETE ANCHORS (DCA) WHERE DRILLED CONCRETE ANCHORS ARE NOTED ON DRAWINGS, PROVIDE: HILTI KWIK BOLT - TZ EXPANSION ANCHORS.
- ADHESIVE CONCRETE ANCHORS WHERE ADHESIVE CONCRETE ANCHORS (ACA) ARE NOTED ON DRAWINGS, PROVIDE: HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM WITH
- HILTI HIT-Z ANCHOR RODS. 3.1.2. REBAR DOWELS WHERE REBAR DOWELS ARE NOTED ON DRAWINGS, IT IS ACCEPTABLE TO PROVIDE:
- REINFORCING STEEL BARS OF THE THE DIMENSION SHOWN MEETING 400MPa SET WITH HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM INSTALLED USING 4.1.2 HILTI SAFESET HOLLOW DRILL BIT TECHNOLOGY. 4.1.3 ANCHORAGE TO MASONRY
- UNLESS OTHERWISE NOTED ON DRAWINGS, ANCHORAGE TO MASONRY TO BE: FOR SOLID OR GROUTED MASONRY, WHERE DRILLED MASONRY ANCHORS (DMA) ARE NOTED ON DRAWINGS, PROVIDE HILTI KB-3 EXPANSION ANCHORS. LOCATE MIN. 35 (1-3/8"") FROM ANY VERTICAL MORTAR JOINT. FOR SOLID OR GROUTED MASONRY, WHERE ADHESIVE MASONRY ANCHORS ARE NOTED ON
- 5.1.2 DRAWINGS, PROVIDE HILTI HIT-HY 70 ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED FOR HOLLOW MASONRY, PROVIDE HILTI HIT-HY 70 ADHESIVE ANCHORING SYSTEM WITH HIT-SC MESH SLEEVE AND HAS-E THREADED RODS. 5.1.3.
- WHERE GALVANIZED ANCHORS ARE SPECIFIED, PROVIDE HOT DIPPED GALVANIZED (RATHER THAN ZINC PLATED) ANCHORS.
- CONCRETE, MASONRY AND MORTAR IS TO BE A MINIMUM 28 DAYS OLD AT THE TIME OF ANCHOR INSTALLATION. USE DRILLING AND INSTALLATION TOOLS AND PROCEDURES PER MANUFACTURERS'
- HOLE DIAMETERS ARE NOT TO EXCEED THOSE REQUIRED BY MANUFACTURER. ARRANGE FOR A MANUFACTURER'S TECHNICAL REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL THE PRODUCTS SPECIFIED, AND CONDITIONS ENCOUNTERED (E.G. HORIZONTAL, INCLINED, OVERHEAD)
- SUBMIT RECORD OF TRAINING LISTING ALL TRAINED PERSONNE IF THE CONTRACTOR IS NEW TO THE ANCHOR TYPE BEING INSTALLED AND HAS JUST RECEIVED TRAINING FOR THE ANCHORAGE SYSTEM, ARRANGE FOR A MANUFACTURER'S TECHNICAL
- REPRESENTATIVE TO BE PRESENT DURING INSTALLATION OF FIRST FEW ANCHORS OF EACH SIZE AND TYPE. SUBMIT SITE REPORTS BY MANUFACTURER TO CONSULTANT WITHIN ONE WEEK OF EACH VISIT. REPORTS TO INDICATE ANCHOR TYPES AND SIZES INSTALLED, LOCATIONS AND INSTALLERS'
- DO NOT CUT REINFORCEMENT TO ACCOMMODATE DRILLED ANCHORS AND DOWELS. SCAN THE STRUCTURE TO LOCATE REINFORCEMENT PRIOR TO ANCHORAGE INSTALLATIONS. WHEN OBSTRUCTIONS PREVENT DRILLING HOLES IN SPECIFIED LOCATIONS TO THE REQUIRED
- DEPTH, RELOCATE AT NO EXTRA COST TO THE CONTRACT. OBTAIN CONSULTANT'S APPROVAL OF NEW LOCATIONS BEFORE DRILLING HOLES. FILL ALL ABANDONED HOLES WITH MIN, 50MPa GROUT. DO NOT TIGHTEN ANCHORS UNTIL GROUT IN ADJACENT ABANDONED HOLES REACHES
- 75% f'c STANDARD EMBEDMENT LENGTHS FOR POST-INSTALLED ANCHORS TO BE IN ACCORDANCE WITH 'MINIMUM EMBEDMENT LENGTHS FOR POST-INSTALLED ANCHORS & DOWELS SCHEDULE' CONTAINED IN THESE PLANS & SPECIFICATIONS.
- ALL EMBEDMENT LENGTHS SHOWN ARE EFFECTIVE EMBEDMENT LENGTHS; FOR REQUIRED HOLE DEPTHS FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ALL IANUFACTURER RECOMMENDATIONS
- SEE DRAWINGS FOR EMBEDMENT LENGTHS OF REBAR DOWELS. 16.2. DO NOT BEND AND/OR MODIFY ANCHORS IN ANY CAPACITY. DO NOT WELD TO PLATES FASTENED WITH ADHESIVE ANCHORS AFTER THE ADHESIVE IS

MINIMUM EMBEDMENT LENGTHS FOR POST-INSTALLED ANCHORS & DOWELS:

-				
ANCHOR SIZE	CONC. (HILTI KB-TZ AND	ADHESIVE ANCHORS INTO CONC. AND SOLID OR GROUTED CONC. MASONRY (HILTI HIT HY-200 AND HIT HY-70)	INTO HOLLOW CONC. MASONRY (HILTI HIT HY-70)	ADHESIVE ANCHORS INTO HOLLOW BRICK MASONRY (HILTI HIT HY-70)
12mm (½")	83mm (3-¼")	114mm (4-½")	50mm (2")	80mm (3-½")
16mm (%")	102mm (4")	143mm (5-%")	NIL	NIL
19mm (¾")	121mm (4-¾")	171mm (6-¾")	NIL	NIL

PRESERVED WOOD - TREATMENT - NBC 2015:

PRESERVATIVE WOOD TREATMENT

PLACED

- TERMITE AND DECAY PROTECTION IN LOCALITIES WHERE TERMITES ARE KNOWN TO OCCUR, CLEARANCE BETWEEN STRUCTURAL WOOD ELEMENTS AND THE FINISHED GROUND LEVEL 1.1.1.1. DIRECTLY BELOW THEM SHALL BE NOT LESS THAN 450mm AND, EXCEPT AS PROVIDED BELOW, ALL SIDES OF THE SUPPORTING ELEMENTS SHALL BE VISIBLE TO PERMIT INSPECTION, OR 1.1.1.2. STRUCTURAL WOOD ELEMENTS, SUPPORTED BY ELEMENTS IN CONTACT WITH THE GROUND OR EXPOSED OVER BARE SOIL, SHALL BE PRESSURE-TREATED WITH A CHEMICAL THAT IS TOXIC O TERMITES IN LOCALITIES WHERE TERMITES ARE KNOWN TO OCCUR AND FOUNDATIONS ARE INSULATED 1.1.2. OR OTHERWISE FINISHED IN A MANNER THAT COULD CONCEAL A TERMITE INFESTATION, A METAL OR PLASTIC BARRIER SHALL BE INSTALLED THROUGH THE INSULATION AND ANY 1.1.2.1. THER SEPARATION OR FINISH MATERIALS ABOVE FINISHED GROUND LEVEL TO CONTROL THE PASSAGE OF TERMITES BEHIND OR THROUGH THE INSULATION, SEPARATION OR FINISH 1.1.2.2. ALL SIDES OF THE FINISHED SUPPORTING ASSEMBLY SHALL BE VISIBLE TO PERMIT STRUCTURAL WOOD ELEMENTS SHALL BE PRESSURE-TREATED WITH A PRESERVATIVE TO 1.1.3. WHERE THE VERTICAL CLEARANCE BETWEEN STRUCTURAL WOOD ELEMENTS AND THE 1.1.3.1. FINISHED GROUND LEVEL IS LESS THAN 150mm (6"), OR 1.1.3.2. WHERE THE WOOD ELEMENTS ARE NOT PROTECTED FROM EXPOSURE TO PRECIPITATION, 1.1.3.2.1. 1.1.3.2.2. THE CONFIGURATION IS CONDUCIVE TO MOISTURE ACCUMULATION, AND 1.1.3.2.3. THE MOISTURE INDEX IS GREATER THAN 1.00. STRUCTURAL WOOD ELEMENTS USED IN RETAINING WALLS AND CRIBBING SHALL BE PRESSURE-TREATED WITH A PRESERVATIVE TO RESIST DECAY, WHERE 1.1.4. THE RETAINING WALL OR CRIBBING SUPPORTS GROUND THAT IS CRITICAL TO THE STABILITY 1.1.4.1. OF BUILDING FOUNDATIONS, OR THE RETAINING WALL OR CRIBBING IS GREATER THAN 1.2m IN HEIGHT. 1.1.4.2. 1.1.5.
- WHERE WOOD IS REQUIRED BY THIS ARTICLE TO BE TREATED TO RESIST TERMITES OR DECAY, SUCH TREATMENT SHALL BE IN ACCORDANCE WITH TABLE 2, USE CATEGORIES FOR SPECIFIC PRODUCTS, USES, AND EXPOSURES, OF CAN/CSA-080.1, "SPECIFICATION OF TREATED WOOD," AS FOLLOWS: 1.1.5.1. USE CATEGORY 1 (UC1), WHERE THE WOOD MEMBER IS USED IN 1.1.5.1.1. INTERIOR CONSTRUCTION,
- 1.1.5.1.2. ABOVE-GROUND APPLICATIONS, AND 1.1.5.1.3. APPLICATIONS WHERE THE WOOD MEMBER REMAINS DRY,
- 1.1.5.2. USE CATEGORY 2 (UC2), WHERE THE WOOD MEMBER IS USED IN 1.1.5.2.1. INTERIOR CONSTRUCTION, .1.5.2.2. ABOVE-GROUND APPLICATIONS, AND

WOOD FRAMED CONSTR NOTCHING & DRILLING - NBC 2015:	WOOD FRAMED CONSTRUCTION - LINTELS & HEADERS - NBC 2015:	
5. NOTCHING AND DRILLING	1. FRAMING OVER OPENINGS (I.E., LINTELS & HEADERS)	49NORTH
5.1. HOLES DRILLED IN FRAMING MEMBERS 5.1.1. HOLES DRILLED IN ROOF, FLOOR OR CEILING FRAMING MEMBERS SHALL BE NOT LARGER THAN	1.1. OPENINGS IN NON-LOADBEARING WALLS 1.1.1. EXCEPT AS PROVIDED IN THE NEXT POINT BELOW, OPENINGS IN NON-LOADBEARING WALLS SHALL BE FRAMED WITH NOT LESS THAN 38mm (1-1/2") MATERIAL THE SAME WIDTH AS THE	ENGINEERING CORP.
ONE-QUARTER THE DEPTH OF THE MEMBER AND SHALL BE LOCATED NOT LESS THAN 50mm FROM THE EDGES, UNLESS THE DEPTH OF THE MEMBER IS INCREASED BY THE SIZE OF THE HOLE. 5.2. NOTCHING OF FRAMING MEMBERS	 STUDS, SECURELY NAILED TO ADJACENT STUDS. 1.1.2. OPENINGS FOR DOORS IN NON-LOADBEARING WALLS REQUIRED TO BE FIRE SEPARATIONS WITH A FIRE-RESISTANCE RATING SHALL BE FRAMED WITH THE EQUIVALENT OF AT LEAST TWO 	CONSULTING ENGINEERS
5.2.1. FLOOR, ROOF AND CEILING FRAMING MEMBERS ARE PERMITTED TO BE NOTCHED PROVIDED THE NOTCH IS LOCATED ON THE TOP OF THE MEMBER WITHIN HALF THE JOIST DEPTH FROM THE EDGE OF BEARING AND IS NOT DEEPER THAN ONE-THIRD THE JOIST DEPTH, UNLESS THE DEPTH OF THE	38mm (1-1/2") THICK MEMBERS THAT ARE THE SAME WIDTH AS THE WALL PLATES. 1.2. OPENINGS IN LOADBEARING WALLS	
MEMBER IS INCREASED BY THE SIZE OF THE NOTCH. 5.3. WALL STUDS	1.2.1. OPENINGS IN LOADBEARING WALLS GREATER THAN THE MIN. REQUIRED STUD SPACING SHALL BE FRAMED WITH LINTELS DESIGNED TO CARRY THE SUPERIMPOSED LOADS TO ADJACENT STUDS. (SEE 2015 NBC NOTE A-9.23.10.6.(3). AND THE TABLE BELOW IN THESE	16 CRESTVIEW BAY
5.3.1. WALL STUDS SHALL NOT BE NOTCHED, DRILLED OR OTHERWISE DAMAGED SO THAT THE UNDAMAGED PORTION OF THE STUD IS LESS THAN TWO-THIRDS THE DEPTH OF THE STUD IF THE STUD IS LOADBEARING OR 40mm IF THE STUD IS NON-LOADBEARING, UNLESS THE WEAKENED	SPECIFICATIONS). 1.2.2. EXCEPT AS PROVIDED IN THE 2015 NBC SENTENCE 9.23.12.3.(2), WHERE 2 OR MORE MEMBERS	REGINA, SASKATCHEWAN S4R 0B7 PHONE: 1 (306) 522-1568
STUDS ARE SUITABLY REINFORCED. 5.4. TOP PLATES	ARE USED IN LINTELS, THEY SHALL BE FASTENED TOGETHER WITH NOT LESS THAN 82mm (3-1/4") NAILS IN A DOUBLE ROW, WITH NAILS NOT MORE THAN 450mm (18") APART IN EACH ROW.	EMAIL: weare49north.ca
5.4.1. TOP PLATES IN WALLS SHALL NOT BE NOTCHED, DRILLED OR OTHERWISE WEAKENED TO REDUCE THE UNDAMAGED WIDTH TO LESS THAN 50mm UNLESS THE WEAKENED PLATES ARE SUITABLY REINFORCED.	1.2.3. LINTEL MEMBERS ARE PERMITTED TO BE SEPARATED BY SOLID WOOD FILLER PIECES THAT ARE LOCATED AT THE NAILING LOCATIONS PROVIDED THEY ARE NOT LESS THAN 38mm (1-1/2") BY 89mm (3-1/2") SPF NO 2 OR BETTER SOLID WOOD FILLER PIECES CENTERED AT THE NAILING	WEBSITE: www.weare49north.ca
 5.5. ROOF & FLOOR TRUSSES & ENGINEERED WOOD PRODUCTS 5.5.1. ROOF & FLOOR TRUSS MEMBERS SHALL NOT BE NOTCHED, DRILLED OR OTHERWISE WEAKENED UNLESS SUCH NOTCHING OR DRILLING IS ALLOWED FOR IN THE DESIGN OF THE TRUSS. 	LOCATIONS. 1.3. LINTEL SPANS AND SIZES	CLIENT:
SNEEDS SOCH NOTCHING OK DIVIELING IS ALLOWED FOR IN THE DESIGN OF THE TROSS.	1.3.1.SPANS AND SIZES OF WOOD LINTELS SHALL CONFORM TO THE SPANS SHOWN IN SPAN THE 2015 NBC SPAN TABLES 9.23.4.2L AND 9.23.12.3A TO 9.23.12.3D.1.3.1.1.A) FOR BUILDINGS OF RESIDENTIAL OCCUPANCY,	
	1.3.1.2.B) WHERE THE WALL STUDS EXCEED 38mm (1-1/2") BY 64mm (2-1/2") IN SIZE,1.3.1.3.C) WHERE THE SPANS OF SUPPORTED JOISTS DO NOT EXCEED 4.9m (16'-0"), AND1.3.1.4.D) WHERE THE SPANS OF TRUSSES DO NOT EXCEED 9.8m (32'-0").	
WOOD FRAMED CONSTRUCTION - FLOOR JOISTS - NBC 2015:	1.3.2. SPANS AND SIZES OF WOOD LINTELS SHALL CONFORM TO THE SPANS SHOWN IN THE TABLE BELOW.	BLAIR PATTERSON
1.1. END BEARING FOR JOISTS 1.1.1. EXCEPT WHEN SUPPORTED ON RIBBON BOARDS, FLOOR JOISTS SHALL HAVE NOT LESS THAN	 1.3.2.1. A) FOR PART 9 BUILDINGS THAT DO NOT MEET THE ABOVE REQUIREMENTS, INCLUDING RESIDENTIAL BUILDINGS, 1.3.2.2. B) WHERE THE WALL STUDS EXCEED 38mm (1-1/2") BY 64mm (2-1/2") IN SIZE, 	1624 GRANT ROAD REGINA, SASKATCHEWAN S4S 4N2
 38mm (1-1/2") LENGTH OF END BEARING. 1.1.2. RIBBON BOARDS REFERRED TO IN THE SENTENCE ABOVE SHALL BE NOT LESS THAN 19mm (3/4") BY 89mm (1-1/2") LUMBER LET INTO THE STUDS. 	1.3.2.3. C) WHERE THE SPANS OF SUPPORTED JOISTS EXCEED 4.9m (16'-0"), AND 1.3.2.4. D) WHERE THE SPANS OF TRUSSES EXCEED 9.8m (32'-0").	PHONE: 1 (306) 591-2319
 1.2. JOISTS SUPPORTED BY BEAMS 1.2.1. FLOOR JOISTS MAY BE SUPPORTED ON THE TOPS OF BEAMS OR MAY BE FRAMED INTO THE SIDES OF BEAMS. 	LINTEL & HEADER SPAN TABLE (REGINA & MOOSE JAW, SK): 2-PLY 2X10 SPF NO. 2 MAXIMUM SPANS PERMITTED	EMAIL: hello@blairpatterson.ca
1.2.2.WHEN FRAMED INTO THE SIDE OF A WOOD BEAM, JOISTS SHALL BE SUPPORTED ON1.2.2.1.SIMPSON STRONG-TIE JOIST HANGERS OR OTHER MECHANICAL CONNECTORS APPROVED BY	SUPPORTED LENGTH (1/2 ROOF SPAN)2-PLY LINTEL 1.4kPa ROOF LOAD ONLY2-PLY LINTEL 1.4kPa ROOF LOAD + 1 FLOOR @ 1.9kPa2-PLY LINTEL 1.4kPa ROOF LOAD + 22-PLY LINTEL 1.4kPa ROOF LOAD + 3 FLOORS @ 1.9kPa EA.	
THE CONSULTANT, OR 1.2.2.2. NOT LESS THAN 38mm (1-1/2") BY 64mm (2-1/2") LEDGER STRIPS NAILED TO THE SIDE OF THE BEAM, EXCEPT THAT 38mm (1-1/2") BY 38mm (1-1/2") LEDGER STRIPS MAY BE USED	5.4m (17'-9") 2.74m 2.24m 1.98m 1.83m 6.1m (20'-0") 2.31m 2.07m 1.84m 1.71m	
PROVIDED EACH JOIST IS NAILED TO THE BEAM BY NOT LESS THAN FOUR 89mm (3-1/2") NAILS, IN ADDITION TO THE NAILING FOR THE LEDGER STRIP REQUIRED IN TABLE 9.23.3.4. OF	0.111(200) 2.5111 2.0711 1.0411 1.7111	OWNER:
THE 2015 NBC. 1.2.3. WHEN FRAMED INTO THE SIDE OF A STEEL BEAM, JOISTS SHALL BE SUPPORTED ON THE BOTTOM FLANGE OF THE THE STEEL BEAM OR ON A SOLID WOOD STRIP NOT LESS THAN 38mm	BEAMS - NBC 2015:	OWNER.
 (1-1/2") BY 38mm (1-1/2") LUMBER BOLTED TO THE WEB OF THE STEEL BEAM WITH NOT LESS THAN 6.3mm (1/4") DIAMETER BOLTS SPACED NOT MORE THAN 600mm (2'-0") APART. 1.2.4. JOISTS SUPPORTED ON THE SIDE OF A STEEL BEAM SHALL BE SPLICED ABOVE THE BEAM WITH 		
NOT LESS THAN 38mm (1-1/2") BY 38mm (1-1/2") LUMBER AT LEAST 600mm (2'-0") LONG TO SUPPORT THE FLOORING.	1. BEAMS 1.1. ALL REFERENCED ARTICLES AND TABLES ARE AS SPECIFIED IN THE 2015 NBC SUBSECTION 9.23.8. 1.1. Second Seco	BLAIR PATTERSON 1624 GRANT ROAD
1.2.5. NOT LESS THAN A 12mm (1/2") SPACE SHALL BE PROVIDED BETWEEN THE SPLICE REQUIRED ABOVE AND THE BEAM TO ALLOW FOR SHRINKAGE OF THE WOOD JOISTS. 1.3. RESTRAINT OF JOIST BOTTOMS	 BEARING FOR BEAMS BEAMS SHALL HAVE EVEN AND LEVEL BEARING AND THE BEARING AT END SUPPORTS SHALL BE NOT LESS THAN 89mm (3-1/2") LONG BY THE WIDTH OF THE BEAM. 	REGINA, SASKATCHEWAN S4S 4N2
1.3.1. BOTTOMS OF FLOOR JOISTS SHALL BE RESTRAINED FROM TWISTING AT EACH END BY 1.3.1.1. TOE-NAILING TO THE SUPPORTS, 1.3.1.2. END-NAILING TO THE HEADER JOISTS OR BY	1.3.PRIMING OF STEEL BEAMS1.3.1.EXTERIOR STEEL BEAMS SHALL BE SHOP PRIMED.	PHONE: 1 (306) 591-2319 EMAIL: hello@blairpatterson.ca
1.3.1.3. PROVIDING CONTINUOUS STRAPPING, BLOCKING BETWEEN THE JOISTS OR CROSS-BRIDGING NEAR THE SUPPORTS.	1.4. BUILT-UP DIMENSIONAL LUMBER WOOD BEAMS (SEE 2015 NBC NOTE A-9.23.8.3.) 1.4.1. WHERE A BEAM IS MADE UP OF INDIVIDUAL PIECES OF LUMBER THAT ARE NAILED TOGETHER, THE INDIVIDUAL MEMBERS SHALL BE 38mm (1-1/2") OR GREATER IN THICKNESS AND	
1.4. HEADER JOISTS 1.4.1. HEADER JOISTS AROUND FLOOR OPENINGS SHALL BE DOUBLED WHEN THEY EXCEED 1.2m (4'-0") IN LENGTH.	INSTALLED ON EDGE. 1.4.2. EXCEPT AS PERMITTED IN THE NEXT POINT BELOW, WHERE INDIVIDUAL MEMBERS OF A BUILT-UP BEAM ARE BUTTED TOGETHER TO FORM A JOINT, THE JOINT SHALL OCCUR OVER A	
1.4.2. THE SIZE OF HEADER JOISTS EXCEEDING 3.2m (10'-6") IN LENGTH SHALL ONLY BE INSTALLED AS PER THE DETAILS IN THE CONSULTANT'S DRAWINGS.	SUPPORT. 1.4.3. WHERE A BEAM IS CONTINUOUS OVER MORE THAN ONE SPAN, INDIVIDUAL MEMBERS ARE	
1.5.1. TRIMMER JOISTS AROUND FLOOR OPENINGS SHALL BE DOUBLED WHEN THE LENGTH OF THE HEADER JOIST EXCEEDS 800mm (31-1/2").	PERMITTED TO BE BUTTED TOGETHER TO FORM A JOINT AT OR WITHIN 150mm (6") OF THE END QUARTER POINTS OF THE CLEAR SPANS, PROVIDED THE QUARTER POINTS ARE NOT THOSE CLOSEST TO THE ENDS OF THE BEAM.	SEAL:
 1.5.2. WHEN THE HEADER JOIST EXCEEDS 2m (6'-6") IN LENGTH THE SIZE OF THE TRIMMER JOISTS SHALL ONLY BE INSTALLED AS PER THE DETAILS IN THE CONSULTANT'S DRAWINGS. 1.6. SUPPORT OF TAIL AND HEADER JOISTS 	 1.4.4. MEMBERS JOINED AT QUARTER POINTS SHALL BE CONTINUOUS OVER ADJACENT SUPPORTS. 1.4.5. JOINTS IN INDIVIDUAL MEMBERS OF A BEAM THAT ARE LOCATED AT OR NEAR THE END QUARTER POINTS SHALL NOT OCCUR IN ADJACENT MEMBERS AT THE SAME QUARTER POINT 	
1.6.1. WHEN TAIL JOISTS AND/OR HEADER JOISTS ARE SUPPORTED BY THE FLOOR FRAMING, THEY SHALL BE SUPPORTED BY SIMPSON STRONG-TIE JOIST HANGERS OR NAILING IN ACCORDANCE	AND SHALL NOT REDUCE THE EFFECTIVE BEAM WIDTH BY MORE THAN HALF. 1.4.6. NOT MORE THAN ONE BUTT JOINT SHALL OCCUR IN ANY INDIVIDUAL MEMBER OF A BUILT-UP	
WITH THE 2015 NBC TABLE 9.23.3.4. 1.7. SUPPORT OF WALLS 1.7.1. NON-LOADBEARING WALLS RUNNING PARALLEL TO THE FLOOR JOISTS SHALL BE SUPPORTED	BEAM WITHIN ANY ONE SPAN. 1.4.7. EXCEPT AS PROVIDED IN IN THE NEXT POINT BELOW, WHERE 38mm (1-1/2") MEMBERS ARE LAID ON EDGE TO FORM A BUILT-UP BEAM, INDIVIDUAL MEMBERS SHALL BE NAILED TOGETHER	2021/02/25
BY JOISTS BENEATH THE WALL OR ON PERPENDICULAR BLOCKING BETWEEN THE JOISTS. 1.7.2. BLOCKING BETWEEN THE JOISTS FOR THE SUPPORT OF NON-LOADBEARING WALLS RUNNING PARALLEL TO THE JOISTS SHALL BE	WITH A DOUBLE ROW OF NAILS NOT LESS THAN 89mm (3-1/2") IN LENGTH, SPACED NOT MORE THAN 450mm (18") APART IN EACH ROW WITH THE END NAILS LOCATED 100mm (4") TO	NR LIZ CAN C
1.7.2.1. NOT LESS THAN 38mm (1-1/2") BY 89mm (3-1/2") LUMBER, AND 1.7.2.2. BE SPACED NOT MORE THAN 600mm (2'-0") APART.	 150mm (6") FROM THE END OF EACH PIECE. 1.4.8. WHERE 38mm (1-1/2") MEMBERS IN BUILT-UP WOOD BEAMS ARE NOT NAILED TOGETHER AS PROVIDED IN THE PREVIOUS POINT, THEY SHALL BE BOLTED TOGETHER WITH NOT LESS THAN 	THATCHE T
1.7.3. NON-LOADBEARING INTERIOR WALLS AT RIGHT ANGLES TO THE FLOOR JOISTS, THAT ARE NOT PART OF THE LATERAL LOAD RESISTING SYSTEM FOR THE STRUCTURE, ARE NOT RESTRICTED AS TO LOCATION.	12.7mm (1/2") DIAMETER BOLTS EQUIPPED WITH WASHERS AND SPACED NOT MORE THAN 1,200mm (4'-0") O.C., WITH THE END BOLTS LOCATED NOT MORE THAN 600mm (2'-0") FROM THE ENDS OF THE MEMBERS.	COPYRIGHTS, SITE INSPECTIONS & DISCLAIMERS
1.7.4. LOADBEARING INTERIOR WALLS PARALLEL TO FLOOR JOISTS SHALL BE SUPPORTED BY BEAMS OR WALLS OF SUFFICIENT STRENGTH TO SAFELY TRANSFER THE SPECIFIED LIVE LOADS TO THE VERTICAL SUPPORTS AT ALL TIMES.	1.5. SOLID AND BUILT-UP ENGINEERED LUMBER BEAMS 1.5.1. U.N.O. ALL ENGINEERED LUMBER WOOD BEAMS ARE TO HAVE A MINIMUM BEARING LENGTH	THESE DRAWINGS ARE THE COPYRIGHT OF 49NORTH ENGINEERING CORP. (49NORTH); AND, ARE ISSUED FOR A ONE (1) TIME USE ONLY. NEITHER THESE DRAWINGS, NOR THE
1.7.5. LOADBEARING INTERIOR WALLS AT RIGHT ANGLES TO FLOOR JOISTS SHALL BE LOCATED 1.7.5.1. NOT MORE THAN 900mm (3'-0") FROM THE JOIST SUPPORT WHERE THE WALL DOES NOT	EQUIVALENT TO 1.5.1.1. THAT STATED IN "THE SPAN BOOK" 2004 EDITION (OR NEWER) PUBLISHED BY THE CANADIAN WOOD COUNCIL, OR	INFORMATION CONTAINED HEREIN, SHALL BE USED, AND/OR REPRODUCED BY ANY PARTY IN ANY FORM WITHOUT THE EXPRESS WRITTEN CONSENT OF 49NORTH. THE COPYRIGHT OF
SUPPORT A FLOOR, AND 1.7.5.2. NOT MORE THAN 600mm (2'-0") FROM THE JOIST SUPPORT WHERE THE WALL SUPPORTS ONE OR MORE FLOORS ABOVE.	 1.5.1.2. OR SHALL BE NOT LESS THAN 114mm (4-1/2") LONG BY THE WIDTH OF THE BEAM. 1.5.2. WHERE A BEAM IS MADE UP OF INDIVIDUAL PIECES OF ENGINEERED WOOD LUMBER THAT ARE NAILED TOGETHER, THE INDIVIDUAL MEMBERS SHALL BE 45mm (1-3/4") IN THICKNESS AND 	49NORTH IS HEREBY ASSERTED - COPYRIGHT 2021. THE USE OF THESE DRAWINGS AND DOCUMENTS FOR ANY OTHER
1.7.6. LOADBEARING AND NON-LOADBEARING WALLS, DESIGNED TO BE PART OF THE LATERAL LOAD RESISTING SYSTEM FOR THE STRUCTURE, SHALL BE CONTINUOUSLY SUPPORTED BY FLOOR	INSTALLED ON EDGE. 1.5.3. EXCEPT AS PERMITTED BELOW, WHERE INDIVIDUAL MEMBERS OF AN ENGINEERED WOOD	PURPOSE BY ANY PARTY IS STRICTLY PROHIBITED. WHERE ANY ERROR, OMISSION AND/OR DISCREPANCY IS FOUND TO EXIST WITHIN OR BETWEEN DRAWINGS, PROJECT DOCUMENTS
JOISTS, BLOCKING OR RIM JOISTS TO ALLOW FOR THE REQUIRED FASTENING (SEE 2015 NBC TABLE 9.23.3.4.). 1.8. CANTILEVERED FLOOR JOISTS	LUMBER BUILT-UP BEAM ARE BUTTED TOGETHER TO FORM A JOINT, THE JOINT SHALL OCCUR OVER A SUPPORT. 1.5.4. WHERE AN ENGINEERED WOOD LUMBER BUILT-UP BEAM IS CONTINUOUS OVER MORE THAN	AND/OR SITE CONDITIONS; IT IS TO BE REPORTED TO 49NORTH IMMEDIATELY IN WRITING. 49NORTH RESERVES THE RIGHT TO PROVIDE ADDENDA, REVISIONS, SITE
1.8.1. FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 400mm (16") BEYOND THEIR SUPPORTS WHERE 38mm (1-1/2") BY 184mm (7-1/4") JOISTS ARE USED AND NOT MORE THAN 600mm (2'-0") BEYOND THEIR SUPPORTS WHERE 38mm (1-1/2") BY	ONE SPAN, INDIVIDUAL MEMBERS ARE PERMITTED TO BE BUTTED TOGETHER TO FORM A JOINT AT OR WITHIN 150mm (6") OF THE END QUARTER POINTS OF THE CLEAR SPANS, PROVIDED	INSTRUCTIONS, AND/OR CORRECTIONS TO THE DESIGN TO RECTIFY ANY ERROR, OMISSION AND/OR DISCREPANCY IN
235mm (9-1/4") OR LARGER JOISTS ARE USED.1.8.2.THE CANTILEVERED PORTIONS REFERRED TO IN THE PRECEDING POINT SHALL NOT SUPPORT	THE QUARTER POINTS ARE NOT THOSE CLOSEST TO THE ENDS OF THE BEAM.1.5.5.MEMBERS OF AN ENGINEERED WOOD LUMBER BUILT-UP WOOD BEAM THAT ARE JOINED AT QUARTER POINTS SHALL BE CONTINUOUS OVER ADJACENT SUPPORTS.	ACCORDANCE WITH THE AGREEMENT FOR ENGINEERING SERVICES AND 49NORTH'S STANDARD ENGINEERING CONSULTING SERVICE TERMS & CONDITIONS. THE OWNER
FLOOR LOADS FROM OTHER STOREYS, UNLESS EXPLICITLY SHOWN IN THE CONSULTANT'S PLANS. 1.8.3. WHERE CANTILEVERED FLOOR JOISTS DESCRIBED THE PRECEDING TWO POINTS ARE AT RIGHT	1.5.6. JOINTS IN INDIVIDUAL MEMBERS OF AN ENGINEERED WOOD LUMBER BUILT-UP WOOD BEAM THAT ARE LOCATED AT OR NEAR THE END QUARTER POINTS SHALL NOT OCCUR IN ADJACENT MEMBERS AT THE SAME QUARTER POINT AND SHALL NOT REDUCE THE EFFECTIVE BEAM WIDTH	AND CONTRACTOR MUST PROVIDE 49NORTH WITH COPIES OF THE BUILDING PERMIT APPROVAL DOCUMENTS, BUILDING
ANGLES TO THE MAIN FLOOR JOISTS, THE TAIL JOISTS IN THE CANTILEVERED PORTION SHALL EXTEND INWARD AWAY FROM THE CANTILEVER SUPPORT A DISTANCE EQUAL TO NOT LESS	BY MORE THAN HALF. 1.5.7. NOT MORE THAN ONE BUTT JOINT SHALL OCCUR IN ANY INDIVIDUAL MEMBER OF AN	OFFICIAL SITE INSPECTION REPORTS, AND SHOP DRAWING DOCUMENTS THROUGHOUT THE COURSE OF THE PROJECT. THE OWNER AND CONTRACTOR MUST ALSO NOTIFY 49NORTH IN
THAN 6 TIMES THE LENGTH OF THE CANTILEVER (EX. 12'-0" FOR A 2'-0" CANTILEVER), AND SHALL BE END NAILED TO AN INTERIOR DOUBLED HEADER JOIST IN CONFORMANCE WITH THE 2015 NBC TABLE 9.23.3.4.	ENGINEERED WOOD LUMBER BUILT-UP BEAM WITHIN ANY ONE SPAN. 1.5.8. EXCEPT AS PROVIDED BELOW, WHERE 45mm (1-3/4") MEMBERS ARE LAID ON EDGE TO FORM AN ENGINEERED WOOD LUMBER BUILT-UP BEAM, INDIVIDUAL MEMBERS SHALL BE NAILED	WRITING AT EACH PROJECT CONSTRUCTION STAGE DURING THE COURSE OF THE PROJECT TO CONDUCT SITE INSPECTIONS SO THAT 49NORTH MAY ASCERTAIN CONSTRUCTION
	TOGETHER WITH A DOUBLE ROW OF NAILS NOT LESS THAN 102mm (4") IN LENGTH, SPACED NOT MORE THAN 450mm (18") APART IN EACH ROW WITH THE END NAILS LOCATED 100mm (4") TO 150mm (6") FROM THE END OF EACH PIECE.	COMPLIANCE WITH THESE DESIGN DOCUMENTS. 49NORTH WILL NOT EXPRESSLY MONITOR THIS PROJECT UNLESS
WOOD FRAMED CONSTRUCTION - WALL STUDS - STANDARD HEIGHT - NBC 2015 (MAX. 3.6m $(11'-9\frac{3}{4}'')$:	1.5.9. WHERE 45mm (1-3/4") MEMBERS IN BUILT-UP ENGINEERED WOOD LUMBER WOOD BEAMS ARE NOT NAILED TOGETHER AS PROVIDED ABOVE, THEY SHALL BE BOLTED TOGETHER WITH NOT	EXPLICITLY AGREED TO IN THE AGREEMENT FOR CONSULTING ENGINEERING SERVICES. THE OWNER AND CONTRACTOR ARE NOTIFIED AND ADVISED TO CONTACT 49NORTH'S OFFICE VIA
	LESS THAN 12.7mm (1-1/2") DIAMETER BOLTS EQUIPPED WITH NUTS AND WASHERS AND BE SPACED NOT MORE THAN 1.2m (48") O.C., WITH THE END BOLTS LOCATED NOT MORE THAN 600mm (24") FROM THE ENDS OF THE BEAM.	EMAIL FOR THE INSPECTION REQUIREMENT STAGES FOR THIS PROJECT. NEITHER THE PROFESSIONAL ENGINEER NOR 49NORTH ENGINEERING CORP. WILL BE LIABLE IN CONTRACT
1. WALL STUDS 1.1. STUD SIZE AND SPACING 1.1.1. THE SIZE AND SPACING OF WALL STUDS SHALL CONFORM TO THE 2015 NBC TABLE 9.23.10.1.		OR IN TORT, FOR ANY NORMAL, REGULAR, STANDARD, INCIDENTAL, SPECIAL, RESULTANT, SUBSEQUENT AND/OR
1.2. BRACING AND LATERAL SUPPORT 1.2.1. WHERE LOADBEARING INTERIOR WALLS ARE NOT FINISHED IN ACCORDANCE WITH THE 2015 NBC SECTION 9.29., WALL BLOCKING SHALL BE FASTENED TO THE STUDS AT 1.2m (4'-0")		CONSEQUENTIAL DAMAGES, LOST PROFITS, AND/OR ANY OTHER DIRECT AND/OR INDIRECT DAMAGES RESULTING FROM: DISCREPANCIES AND/OR ERRORS AND/OR OMISSIONS DUE TO
SPACING INTERVALS TO PREVENT SIDEWAYS BUCKLING. 1.3. ORIENTATION OF STUDS	BUILT-UP WOOD COLUMNS:	CAUSES OTHER THAN NEGLIGENCE; AND, IN SUCH CASE SHALL ONLY BE LIABLE TO THE PARTY UNDER CONTRACT WITH 49NORTH FOR THE COMPILATION, PRODUCTION AND/ DELIVERY
1.3.1. EXCEPT AS PERMITTED IN THE NEXT TWO POINTS, ALL STUDS SHALL BE PLACED AT RIGHT ANGLES TO THE WALL FACE. 1.3.2. STUDS ON THE FLAT ARE PERMITTED TO BE USED IN GABLE ENDS OF ROOFS THAT CONTAIN	 BUILT-UP COLUMNS U.N.O. ALL WOOD TO CONFORM TO THE GENERAL REQUIREMENTS OF THIS SECTION. 	OF THESE DOCUMENTS.
ONLY UNFINISHED SPACE OR IN NON-LOADBEARING INTERIOR WALLS WITHIN THE LIMITS DESCRIBED IN THE 2015 NBC ARTICLE 9.23.10.1. 1.3.3. WALL STUDS THAT SUPPORT ONLY A LOAD FROM AN ATTIC NOT ACCESSIBLE BY A STAIRWAY	3. ALL WOOD MEMBERS IN BUILT-UP COLUMNS AND BEAMS ARE TO CONFORM TO CAN/CSA 086.1 AND NLGA RULES FOR VISUALLY GRADED LUMBER, AND BE NOT LESS THAN SPF NO. 2 OR BETTER GRADE.	DO NOT SCALE FROM THESE DRAWINGS. U.N.O. ALL DIMENSIONS SHOWN IN THESE DRAWINGS ARE MEASURED TO THE OUTSIDE FACE OF EXTERIOR WALLS AND TO THE
ARE PERMITTED TO BE PLACED ON THE FLAT WITHIN THE LIMITS PERMITTED IN THE 2015 NBC ARTICLE 9.23.10.1. PROVIDED THAT	4. LUMBER USED SHALL BE IDENTIFIED BY THE GRADE STAMP OF AN ASSOCIATION OR INDEPENDENT GRADING AGENCY IN ACCORDANCE WITH "NLGA SPECIAL STANDARD SPS 1".	CENTERLINE OF INTERIOR WALLS. ALL DIMENSIONS MUST BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO SUBMITTING
1.3.3.1. THE STUDS ARE CLAD ON NOT LESS THAN ONE SIDE WITH PLYWOOD, OSB OR WAFERBOARD SHEATHING FASTENED TO THE FACE OF THE STUDS WITH A STRUCTURAL ADHESIVE, AND 1.3.3.2. THE PORTION OF THE ROOF SUPPORTED BY THE STUDS DOES NOT EXCEED 2.0m (6'-6") IN	5. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED TOGETHER AS TO PROVIDE THE STRENGTH AND RIGIDITY NECESSARY FOR THE PURPOSE FOR WHICH THEY WERE INTENDED.	ANY ESTIMATE, PROPOSAL AND/OR CONTRACT TO THE OWNER; AND BY THE CONTRACTOR AGAIN PRIOR TO THE EXECUTION OF ANY WORK REFERENCED BY THESE DRAWINGS AND/OR
Interview of the rest of the rest of the store of th	6. ALL COMPONENTS OF BUILT UP MEMBERS TO BE CONTINUOUS FOR FULL SPAN. DO NOT SPLICE OR USE BUTT JOINTS, EXCEPT AS (AND ONLY AS) EXPLICITLY SHOWN IN THESE PLANS, DETAILS AND SPECIFICATIONS.	SPECIFICATIONS. 49NORTH ENGINEERING CORP. PROJECT NUMBER:
AND SHALL NOT BE SPLICED. 1.5. SUPPORT FOR CLADDING, SHEATHING AND FINISHING MATERIALS	7. COLUMNS 7.1. IN THE CASE OF NAILED BUILT-UP COMPRESSION MEMBERS (COLUMNS) ALL NAILS SHALL	2021 - 2062
1.5.1. CORNERS AND INTERSECTIONS SHALL BE DESIGNED TO PROVIDE ADEQUATE SUPPORT FOR THE VERTICAL EDGES OF INTERIOR FINISHES, SHEATHING AND CLADDING MATERIALS, AND IN NO INSTANCE SHALL EXTERIOR CORNERS BE FRAMED WITH LESS THAN THE EQUIVALENT OF 2	PENETRATE THROUGH THE ENTIRE THICKNESS OF ALL INDIVIDUAL PIECES BEING ATTACHED; AND, NAILS SHALL BE DRIVEN ALTERNATELY FROM EITHER FACE OF THE BUILT-UP MEMBER ALONG THE LENGTH.	CLIENT PROJECT NUMBER:
STUDS. BEST PRACTICE FRAMING IS TO BE EMPLOYED THAT TAKES INTO ACCOUNT STRUCTURAL MINIMUM REQUIREMENTS AND ENERGY LOSS MITIGATION. 1.5.2. WHERE THE VERTICAL EDGES OF INTERIOR FINISHES AT WALL INTERSECTIONS ARE	7.2. FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT OF 2"X4" (38MMX89MM) PLIES, THE NAILS SHALL START NOT CLOSER THAN 2.5" (60MM) FROM THE END OF THE PLIES, AND SHALL CONTINUE (ONLY A SINGLE ROW OF NAILS REQUIRED) AT 8 2/3" (220MM) ON	
SUPPORTED AT VERTICAL INTERVALS BY BLOCKING OR FURRING, THE VERTICAL DISTANCE BETWEEN SUCH SUPPORTS SHALL NOT EXCEED THE MAXIMUM DISTANCE BETWEEN SUPPORTS	CENTRE ALONG THE LENGTH OF THE PLIES STAGGERED IN THE DIRECTION OF THE GRAIN, WITH NO NAIL CLOSER THAN 1-5/32" (30MM) TO THE OUTSIDE EDGE OF THE PLIES.	ISSUED FOR: YYYY.MM.DD
SPECIFIED IN THE 2015 NBC SECTION 9.29. 1.6. STUDS AT SIDES OF OPENINGS 1.6.1. WHERE THE LINTEL SPANNING THE OPENING IS MORE THAN 3m (9'-10") LONG, STUDS SHALL	7.3. FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT OF 2"X6" (38MMX140MM) PLIES, THE NAILS SHALL START NOT CLOSER THAN 2.5" (60MM) FROM THE END OF THE PLIES, AND SHALL CONTINUE (DOUBLE ROW OF NAILS REQUIRED) AT 8 2/3" (220MM) ON CENTRE	SCHEMATIC DESIGN REVIEW
BE TRIPLED ON EACH SIDE OF THE OPENING SO THAT 1.6.1.1. THE TWO INNER STUDS (I.E., JACK STUDS) ON EACH SIDE EXTEND FROM THE BOTTOM OF THE	ALONG THE LENGTH OF THE PLIES STAGGERED IN THE DIRECTION OF THE GRAIN, WITH NO NAIL CLOSER THAN 2-5/32" (55MM) TO THE OUTSIDE EDGE OF THE PLIES. 7.4. FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT OF 2"X8" (38MMX184MM)	CONSTRUCTION DOCUMENT REVIEW
SUPPORTED LINTEL TO THE TOP OF THE BOTTOM WALL PLATE, AND 1.6.1.2. THE OUTER STUD (I.E., KING STUD) ON EACH SIDE EXTENDS FROM THE BOTTOM OF THE TOP WALL PLATE TO THE BOTTOM WALL PLATE.	PLIES, THE NAILS SHALL START NOT CLOSER THAN 2.5" (60MM) FROM THE END OF THE PLIES, AND SHALL CONTINUE (DOUBLE ROW OF NAILS REQUIRED) AT 8 2/3" (220MM) ON CENTRE	TENDER PACKAGE REVIEWISSUED FOR DEVELOPMENT PERMIT2021.02.25
1.6.2. EXCEPT AS PROVIDED BELOW, WHERE THE LINTEL SPANNING THE OPENING IS LESS THAN 3m (9'-10") LONG, STUDS SHALL BE DOUBLED ON EACH SIDE OF THE OPENING SO THAT 1.6.2.1. THE INNER STUD (I.E., JACK STUD) ON EACH SIDE EXTENDS FROM THE BOTTOM OF THE	ALONG THE LENGTH OF THE PLIES STAGGERED IN THE DIRECTION OF THE GRAIN, WITH NO NAIL CLOSER THAN 1-3/8" (35MM) TO THE OUTSIDE EDGE OF THE PLIES. 7.5. FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT F 2"X10" OR 2"X12"	ISSUED FOR BUILDING PERMIT2021.02.25ISSUED FOR CONSTRUCTION (IFC)2021.02.25
SUPPORTED LINTEL TO THE TOP OF THE BOTTOM WALL PLATE, AND 1.6.2.2. THE OUTER STUD (I.E., KING STUD) ON EACH SIDE EXTENDS FROM THE BOTTOM OF THE TOP	(38MMX234MM) OR (38MMX286MM) PLIES, NAILS SHALL START NOT CLOSER THAN 2.5" (60MM) FROM THE END OF THE PLIES, AND SHALL CONTINUE (DOUBLE ROW OF NAILS REQUIRED) AT 8	
WALL PLATE TO THE BOTTOM WALL PLATE.1.6.3.SINGLE STUDS ARE PERMITTED TO BE USED ON EITHER SIDE OF OPENINGS1.6.3.1.IN NON-LOADBEARING INTERIOR WALLS NOT REQUIRED TO HAVE FIRE-RESISTANCE RATINGS,	2/3" (220MM) ON CENTRE ALONG THE LENGTH OF THE PLIES STAGGERED IN THE DIRECTION OF THE GRAIN, WITH NO NAIL CLOSER THAN 1-3/8" (35MM) TO THE OUTSIDE EDGE OF THE PLIES.	
PROVIDED THE STUDS EXTEND FROM THE TOP WALL PLATE TO THE BOTTOM WALL PLATE, OR 1.6.3.2. IN LOADBEARING OR NON-LOADBEARING INTERIOR OR EXTERIOR WALLS, PROVIDED 1.6.3.2.1. THE OPENING IS LESS THAN THE REQUIRED STUD SPACING, AND	7.6. IN THE CASE OF BUILT-UP COMPRESSION MEMBERS (COLUMNS) WITH MORE THAN 4 PLIES OF MATERIAL, AT LEAST 1 ROW OF 1/2" Ø BOLTS SHALL BE INSTALLED AT 48" (1,219MM) ON CENTRE - CENTERED ACROSS THE MEMBER WIDTH IN ADDITION TO THE NAILING REQUIRED	
 1.6.3.2.1. THE OPENING IS LESS THAN THE REQUIRED STUD SPACING, AND 1.6.3.2.2. NO TWO SUCH OPENINGS OF FULL STUD-SPACE WIDTH ARE LOCATED IN ADJACENT STUD SPACES. (SEE 2015 NBC NOTE A-9.23.10.6.(3).) 	ABOVE. 7.7. WHERE ANY SPLICE OCCURS IN A BUILT-UP COMPRESSION MEMBER (COLUMNS), NOT MORE	PROJECT:
	THAN ONE PLY SHALL BE PERMITTED TO BE SPLICED IN ANY ONE LOCATION; AND, NO TWO SPLICES SHALL BE PERMITTED WITHIN 48" (1,219MM) OF ANOTHER SPLICE LOCATION. (I.E. ALL SPLICE LOCATIONS MUST CONSIST OF A MINIMUM OF 3 CONTINUOUS MEMBERS THROUGH	
	THE SPLICE, WIDTH NAILS PENETRATING ALL 4 MEMBERS).7.8.IN THE CASE OF BUILT-UP COMPRESSION MEMBERS (COLUMNS) FOR POLE BUILDING	DETACHED ACCESSORY WORKSHOP BUILDING
WOOD FRAMED CONSTRUCTION - WALL PLATES - NBC 2015:	CONSTRUCTION, NO SPLICE MAY NOT OCCUR CLOSER THAN 4'-0" (1,219MM) EITHER ABOVE OR BELOW FINISHED GRADE. (I.E. 7.9. IN THE CASE OF BUILT-UP COMPRESSION MEMBERS (COLUMNS) FOR POLE BUILDING	
1. WALL PLATES 1.1. SIZE OF WALL PLATES	CONSTRUCTION,THE MINIMUM OVERALL DISTANCE BETWEEN ANY TWO SPLICES SHALL BE 1200MM (4'-0"). SPLICED COLUMNS SHALL BE BRACED BY SHEATHING, GIRTS OR PURLINS SPACED AT A MAXIMUM OF 600MM (2'-0") O/C IN THE DIRECTION PERPENDICULAR TO THE	1624 GRANT ROAD
1.1.1 EXCEPT AS PROVIDED BELOW, WALL PLATES SHALL BE 1.1.1. NOT LESS THAN 38mm (1-1/2") THICK, AND 1.1.1.2. NOT LESS THAN THE REQUIRED WIDTH OF THE WALL STUDS.	WIDE FACE OF THE LAMINATIONS. 7.10. IN THE CASE OF BUILT-UP COMPRESSION MEMBERS (COLUMNS) FOR POLE BUILDING	REGINA, SASKATCHEWAN
1.1.2. IN NON-LOADBEARING WALLS AND IN LOADBEARING WALLS WHERE THE STUDS ARE LOCATED DIRECTLY OVER FRAMING MEMBERS, THE BOTTOM WALL PLATE IS PERMITTED TO BE 38mm	CONSTRUCTION,THE MINIMUM LAMINATION SIZE SHALL BE 38MM X 184MM (2 X 8) AND THE MAXIMUM SHALL BE 38MM X 286MM (2 X 12). SEE DRAWINGS FOR SPECIFICS RELATED TO THIS BUILDING.	LOT 12, BLOCK 35, PLAN 59R04305
 (1-1/2") THICK AS WELL. 1.2. BOTTOM WALL PLATES 1.2.1. A BOTTOM WALL PLATE SHALL BE PROVIDED IN ALL CASES. 		
1.2.2. THE BOTTOM PLATE IN EXTERIOR WALLS SHALL NOT PROJECT MORE THAN ONE-THIRD THE PLATE WIDTH OVER THE SUPPORT (I.E., TWO THIRDS OF THE PLATE MUST BE LOCATED	WOOD BLOCKING:	
DIRECTLY OVER THE SUPPORT PATH TO THE FOUNDATIONS).1.3.TOP PLATES1.3.1.AT LEAST 2 TOP PLATES SHALL BE PROVIDED IN ALL LOADBEARING WALLS WITHOUT		ENGINEER TWEIDT
EXCEPTIONS. 1.3.2. A SINGLE TOP PLATE IS NOT PERMITTED IN NON-LOADBEARING WALLS.	1.1. U.N.O. BLOCKING FOR WOOD FRAME CONSTRUCTION IS TO COMPLY WITH THE FOLLOWING GENERAL REQUIREMENTS U.N.O. IN THE PLANS AND/OR SPECIFICATIONS FOR SPECIFIC	TECHNICIAN TWEIDT
1.3.3. A SINGLE TOP PLATE IS NOT PERMITTED IN LOADBEARING WALLS. 1.4. JOINTS IN TOP PLATES 1.4.1. JOINTS IN THE TOP PLATES OF LOADBEARING WALLS SHALL BE STAGGERED NOT LESS THAN	ELEMENTS. 1.1.1. CO-ORDINATE BLOCKING REQUIREMENTS WITH OTHER TRADES. 1.1.2. PROVIDE BLOCKING AT 1.2m (4'-0") O.C. IN ALL LOADBEARING SHEAR WALLS OVER 2.4m	DRAWING SCALE 1/8" = 1'-0"
ONE STUD SPACING. 1.4.2. THE TOP PLATES IN LOADBEARING WALLS SHALL BE LAPPED OR OTHERWISE TIED AT CORNERS AND INTERSECTING WALLS IN ACCORDANCE WITH THE REQUIREMENTS BELOW.	(8'-0" IN HEIGHT). 1.1.3. PROVIDE BLOCKING AT 2.4m (8'-0") O.C. IN ALL NON-LOADBEARING NON-SHEAR WALLS OVER	DATE FEBRUARY 25, 2021 DRAWING TITLE:
1.4.3. TIES REFERRED TO ABOVE SHALL BE THE EQUIVALENT OF NOT LESS THAN 75mm (3") BY 150 (6") MM BY 0.91mm THICK GALVANIZED STEEL NAILED TO EACH WALL WITH AT LEAST THREE	 2.4M (8'-0" IN HEIGHT). 1.2. MISCELLANEOUS FRAMING, BLOCKING, NAILING STRIPS (NON-LOADBEARING) TO BE MINIMUM CONSTRUCTION SPF NO. 2 OR BETTER. 	SPECIFICATIONS
63mm LONG NAILS. 1.4.4. WHERE THE SEISMIC SPECTRAL RESPONSE ACCELERATION, SA(0.2), IS GREATER THAN 0.70 BUT NOT MORE THAN 1.8, DOUBLED TOP PLATES IN BRACED WALL BANDS SHALL BE FASTENED	 PROVIDE BLOCKING, NAILING STRIPS AS REQUIRED FOR SUPPORT OF WALL HUNG ITEMS, ETC. ALL CONNECTIONS, MINIMUM BEARING LENGTHS, AND MAXIMUM SPANS TO BE IN ACCORDANCE WITH PART 9 OF THE NBC (EDITION IN FORCE) U.N.O. 	
ON EACH SIDE OF A SPLICE WITH 76mm (3") LONG COMMON STEEL WIRE NAILS OR SPIRAL NAILS IN ACCORDANCE WITH THE 2015 NBC TABLE 9.23.11.4.	 PROVIDE SOLID BLOCKING BETWEEN JOISTS AT INTERIOR SUPPORTS, AND PROVIDE CROSS-BRIDGING BETWEEN JOISTS AT MAX. 2.1m (7'-0") ON CENTER ALONG LENGTH OF SPAN. 	SHEET NUMBER:
		\$2.2

SPACES. (SEE 2015 NBC NOTE A-9.23.10.6.(3).)

WOOD FRAMED CONSTR NOTCHING & DRILLING - NBC 2015:	WOOD FRAMED CONSTRUCTION - LINTELS & HEADERS - NBC 2015:	STRUCTURAL ENGINEERING CONSULTANT: 49NORTH
5. NOTCHING AND DRILLING 5.1. HOLES DRILLED IN FRAMING MEMBERS 5.1. HOLES DRILLED IN PROFE LOOP OF CEILING FRAMING MEMBERS SHALL BE NOT LARCED THAN	1. FRAMING OVER OPENINGS (I.E., LINTELS & HEADERS) 1.1. OPENINGS IN NON-LOADBEARING WALLS 1.1.1. EXCEPT AS PROVIDED IN THE NEXT POINT BELOW, OPENINGS IN NON-LOADBEARING WALLS	
 5.1.1. HOLES DRILLED IN ROOF, FLOOR OR CEILING FRAMING MEMBERS SHALL BE NOT LARGER THAN ONE-QUARTER THE DEPTH OF THE MEMBER AND SHALL BE LOCATED NOT LESS THAN 50mm FROM THE EDGES, UNLESS THE DEPTH OF THE MEMBER IS INCREASED BY THE SIZE OF THE HOLE. 5.2. NOTCHING OF FRAMING MEMBERS 	SHALL BE FRAMED WITH NOT LESS THAN 38mm (1-1/2") MATERIAL THE SAME WIDTH AS THE STUDS, SECURELY NAILED TO ADJACENT STUDS. 1.1.2. OPENINGS FOR DOORS IN NON-LOADBEARING WALLS REQUIRED TO BE FIRE SEPARATIONS	ENGINEERING CORP. CONSULTING ENGINEERS
5.2.1. FLOOR, ROOF AND CEILING FRAMING MEMBERS ARE PERMITTED TO BE NOTCHED PROVIDED THE NOTCH IS LOCATED ON THE TOP OF THE MEMBER WITHIN HALF THE JOIST DEPTH FROM THE EDGE OF BEARING AND IS NOT DEEPER THAN ONE-THIRD THE JOIST DEPTH, UNLESS THE DEPTH OF THE	WITH A FIRE-RESISTANCE RATING SHALL BE FRAMED WITH THE EQUIVALENT OF AT LEAST TWO 38mm (1-1/2") THICK MEMBERS THAT ARE THE SAME WIDTH AS THE WALL PLATES. 1.2. OPENINGS IN LOADBEARING WALLS 1.2.1. OPENINGS IN LOADBEARING WALLS GREATER THAN THE MIN. REQUIRED STUD SPACING SHALL	
MEMBER IS INCREASED BY THE SIZE OF THE NOTCH. 5.3. WALL STUDS 5.3.1. WALL STUDS SHALL NOT BE NOTCHED, DRILLED OR OTHERWISE DAMAGED SO THAT THE	BE FRAMED WITH LINTELS DESIGNED TO CARRY THE SUPERIMPOSED LOADS TO ADJACENT STUDS. (SEE 2015 NBC NOTE A-9.23.10.6.(3). AND THE TABLE BELOW IN THESE SPECIFICATIONS).	16 CRESTVIEW BAY REGINA, SASKATCHEWAN S4R 0B7
UNDAMAGED PORTION OF THE STUD IS LESS THAN TWO-THIRDS THE DEPTH OF THE STUD IF THE STUD IS LOADBEARING OR 40mm IF THE STUD IS NON-LOADBEARING, UNLESS THE WEAKENED STUDS ARE SUITABLY REINFORCED.	1.2.2. EXCEPT AS PROVIDED IN THE 2015 NBC SENTENCE 9.23.12.3.(2), WHERE 2 OR MORE MEMBERS ARE USED IN LINTELS, THEY SHALL BE FASTENED TOGETHER WITH NOT LESS THAN 82mm (3-1/4") NAILS IN A DOUBLE ROW, WITH NAILS NOT MORE THAN 450mm (18") APART IN EACH	PHONE: 1 (306) 522-1568 EMAIL: weare49north.ca
5.4. TOP PLATES 5.4.1. TOP PLATES IN WALLS SHALL NOT BE NOTCHED, DRILLED OR OTHERWISE WEAKENED TO REDUCE THE UNDAMAGED WIDTH TO LESS THAN 50mm UNLESS THE WEAKENED PLATES ARE SUITABLY REINFORCED.	ROW. 1.2.3. LINTEL MEMBERS ARE PERMITTED TO BE SEPARATED BY SOLID WOOD FILLER PIECES THAT ARE LOCATED AT THE NAILING LOCATIONS PROVIDED THEY ARE NOT LESS THAN 38mm (1-1/2") BY	WEBSITE: www.weare49north.ca
REINFORCED. 5.5. ROOF & FLOOR TRUSSES & ENGINEERED WOOD PRODUCTS 5.5.1. ROOF & FLOOR TRUSS MEMBERS SHALL NOT BE NOTCHED, DRILLED OR OTHERWISE WEAKENED UNLESS SUCH NOTCHING OR DRILLING IS ALLOWED FOR IN THE DESIGN OF THE TRUSS.	89mm (3-1/2") SPF NO 2 OR BETTER SOLID WOOD FILLER PIECES CENTERED AT THE NAILING LOCATIONS. 1.3. LINTEL SPANS AND SIZES 1.3.1 SPANS AND SIZES OF WOOD LINTELS SHALL CONFORM TO THE SPANS SHOWN IN SPAN THE	CLIENT:
	1.3.1. SPANS AND SIZES OF WOOD LINTELS SHALL CONFORM TO THE SPANS SHOWN IN SPAN THE 2015 NBC SPAN TABLES 9.23.4.2L AND 9.23.12.3A TO 9.23.12.3D. 1.3.1.1. A) FOR BUILDINGS OF RESIDENTIAL OCCUPANCY, 1.3.1.2. B) WHERE THE WALL STUDS EXCEED 38mm (1-1/2") BY 64mm (2-1/2") IN SIZE,	
WOOD FRAMED CONSTRUCTION - FLOOR JOISTS - NBC 2015:	 1.3.1.2. B) WHERE THE WALL STUDS EXCEED 38mm (1-1/2') BY 64mm (2-1/2') IN SIZE, 1.3.1.3. C) WHERE THE SPANS OF SUPPORTED JOISTS DO NOT EXCEED 4.9m (16'-0"), AND 1.3.1.4. D) WHERE THE SPANS OF TRUSSES DO NOT EXCEED 9.8m (32'-0"). 1.3.2. SPANS AND SIZES OF WOOD LINTELS SHALL CONFORM TO THE SPANS SHOWN IN THE TABLE 	
FLOOR JOISTS I.1. END BEARING FOR JOISTS I.1. END BEARING FOR JOISTS I.1.1	BELOW. 1.3.2.1. A) FOR PART 9 BUILDINGS THAT DO NOT MEET THE ABOVE REQUIREMENTS, INCLUDING RESIDENTIAL BUILDINGS,	BLAIR PATTERSON 1624 GRANT ROAD
1.1.1. EXCEPT WHEN SUPPORTED ON RIBBON BOARDS, FLOOR JOISTS SHALL HAVE NOT LESS THAN 38mm (1-1/2") LENGTH OF END BEARING. 1.1.2. RIBBON BOARDS REFERRED TO IN THE SENTENCE ABOVE SHALL BE NOT LESS THAN 19mm (3/4") BY 89mm (1-1/2") LUMBER LET INTO THE STUDS.	1.3.2.2. B) WHERE THE WALL STUDS EXCEED 38mm (1-1/2") BY 64mm (2-1/2") IN SIZE, 1.3.2.3. C) WHERE THE SPANS OF SUPPORTED JOISTS EXCEED 4.9m (16'-0"), AND 1.3.2.4. D) WHERE THE SPANS OF TRUSSES EXCEED 9.8m (32'-0").	REGINA, SASKATCHEWAN S4S 4N2 PHONE: 1 (306) 591-2319
1.2. JOISTS SUPPORTED BY BEAMS 1.2.1. FLOOR JOISTS MAY BE SUPPORTED ON THE TOPS OF BEAMS OR MAY BE FRAMED INTO THE SIDES OF BEAMS.	LINTEL & HEADER SPAN TABLE (REGINA & MOOSE JAW, SK): 2-PLY 2X10 SPF NO. 2 MAXIMUM SPANS PERMITTED	EMAIL: hello@blairpatterson.ca
I I <thi< th=""> <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>	SUPPORTED LENGTH (1/2 ROOF SPAN) 2-PLY LINTEL 1.4kPa ROOF LOAD ONLY 2-PLY LINTEL 1.4kPa ROOF LOAD + 1 FLOOR @ 1.9kPa 2-PLY LINTEL 1.4kPa ROOF LOAD + 2 FLOORS @ 1.9kPa EA. 2-PLY LINTEL 1.4kPa ROOF LOAD + 3 FLOORS @ 1.9kPa EA. 5.4m (17'-9") 2.74m 2.74m 1.98m 1.83m	
1.2.2.2. NOT LESS THAN 38mm (1-1/2") BY 64mm (2-1/2") LEDGER STRIPS NAILED TO THE SIDE OF THE BEAM, EXCEPT THAT 38mm (1-1/2") BY 38mm (1-1/2") LEDGER STRIPS MAY BE USED PROVIDED EACH JOIST IS NAILED TO THE BEAM BY NOT LESS THAN FOUR 89mm (3-1/2") NAILS IN ADDITION TO THE NAILING FOR THE LOCEP STRIP PROVIDED IN TABLE 9.23.3.4 OF	5.4m (17'-9") 2.74m 2.24m 1.98m 1.83m 6.1m (20'-0") 2.31m 2.07m 1.84m 1.71m	
NAILS, IN ADDITION TO THE NAILING FOR THE LEDGER STRIP REQUIRED IN TABLE 9.23.3.4. OF THE 2015 NBC. 1.2.3. WHEN FRAMED INTO THE SIDE OF A STEEL BEAM, JOISTS SHALL BE SUPPORTED ON THE BOTTOM FLANGE OF THE THE STEEL BEAM OR ON A SOLID WOOD STRIP NOT LESS THAN 38mm		OWNER:
 (1-1/2") BY 38m (1-1/2") LUMBER BOLTED TO THE WEB OF THE STELE BEAM WITH NOT LESS THAN SOUTH WEB OF THE STELE BEAM WITH NOT LESS 1.2.4. JOISTS SUPPORTED ON THE SIDE OF A STEEL BEAM SHALL BE SPLICED ABOVE THE BEAM WITH 	BEAMS - NBC 2015: 1. BEAMS	
 NOT LESS THAN 38mm (1-1/2") BY 38mm (1-1/2") LUMBER AT LEAST 600mm (2'-0") LONG TO SUPPORT THE FLOORING. 1.2.5. NOT LESS THAN A 12mm (1/2") SPACE SHALL BE PROVIDED BETWEEN THE SPLICE REQUIRED 	 ALL REFERENCED ARTICLES AND TABLES ARE AS SPECIFIED IN THE 2015 NBC SUBSECTION 9.23.8. BEARING FOR BEAMS 	BLAIR PATTERSON 1624 GRANT ROAD
ABOVE AND THE BEAM TO ALLOW FOR SHRINKAGE OF THE WOOD JOISTS. 1.3. RESTRAINT OF JOIST BOTTOMS 1.3.1. BOTTOMS OF FLOOR JOISTS SHALL BE RESTRAINED FROM TWISTING AT EACH END BY 1.3.1.1. TOE-NAILING TO THE SUPPORTS,	 BEAMS SHALL HAVE EVEN AND LEVEL BEARING AND THE BEARING AT END SUPPORTS SHALL BE NOT LESS THAN 89mm (3-1/2") LONG BY THE WIDTH OF THE BEAM. PRIMING OF STEEL BEAMS STERIOR STEEL BEAMS SHALL BE SHOP PRIMED. 	REGINA, SASKATCHEWAN S4S 4N2 PHONE: 1 (306) 591-2319
1.3.1.2.END-NAILING TO THE HEADER JOISTS OR BY1.3.1.3.PROVIDING CONTINUOUS STRAPPING, BLOCKING BETWEEN THE JOISTS OR CROSS-BRIDGING NEAR THE SUPPORTS.	 1.3.1. EXTERIOR STEEL BEAMS SHALL BE SHOP PRIMED. 1.4. BUILT-UP DIMENSIONAL LUMBER WOOD BEAMS (SEE 2015 NBC NOTE A-9.23.8.3.) 1.4.1. WHERE A BEAM IS MADE UP OF INDIVIDUAL PIECES OF LUMBER THAT ARE NAILED TOGETHER, THE INDIVIDUAL MEMBERS SHALL BE 38mm (1-1/2") OR GREATER IN THICKNESS AND 	EMAIL: hello@blairpatterson.ca
1.4. HEADER JOISTS 1.4.1. HEADER JOISTS AROUND FLOOR OPENINGS SHALL BE DOUBLED WHEN THEY EXCEED 1.2m (4'-0") IN LENGTH.	INSTALLED ON EDGE. 1.4.2. EXCEPT AS PERMITTED IN THE NEXT POINT BELOW, WHERE INDIVIDUAL MEMBERS OF A BUILT-UP BEAM ARE BUTTED TOGETHER TO FORM A JOINT, THE JOINT SHALL OCCUR OVER A	
1.4.2. THE SIZE OF HEADER JOISTS EXCEEDING 3.2m (10'-6") IN LENGTH SHALL ONLY BE INSTALLED AS PER THE DETAILS IN THE CONSULTANT'S DRAWINGS. 1.5. TRIMMER JOISTS 1.5.1. TRIMMER JOISTS AROUND FLOOR OPENINGS SHALL BE DOUBLED WHEN THE LENGTH OF THE	SUPPORT. 1.4.3. WHERE A BEAM IS CONTINUOUS OVER MORE THAN ONE SPAN, INDIVIDUAL MEMBERS ARE PERMITTED TO BE BUTTED TOGETHER TO FORM A JOINT AT OR WITHIN 150mm (6") OF THE	SEAL:
G 1.5.1. TRIMMER JOISTS AROUND FLOOR OPENINGS SHALL BE DOUBLED WHEN THE LENGTH OF THE HEADER JOIST EXCEEDS 800mm (31-1/2"). 1.5.2. WHEN THE HEADER JOIST EXCEEDS 2m (6'-6") IN LENGTH THE SIZE OF THE TRIMMER JOISTS SHALL ONLY BE INSTALLED AS PER THE DETAILS IN THE CONSULTANT'S DRAWINGS.	END QUARTER POINTS OF THE CLEAR SPANS, PROVIDED THE QUARTER POINTS ARE NOT THOSE CLOSEST TO THE ENDS OF THE BEAM. 1.4.4. MEMBERS JOINED AT QUARTER POINTS SHALL BE CONTINUOUS OVER ADJACENT SUPPORTS. 1.4.5. JOINTS IN INDIVIDUAL MEMBERS OF A BEAM THAT ARE LOCATED AT OR NEAR THE END	CONTRACT OF CONTRACT
1.6. SUPPORT OF TAIL AND HEADER JOISTS 1.6.1. WHEN TAIL JOISTS AND/OR HEADER JOISTS ARE SUPPORTED BY THE FLOOR FRAMING, THEY SHALL BE SUPPORTED BY SIMPSON STRONG-TIE JOIST HANGERS OR NAILING IN ACCORDANCE	 1.4.5. JOINTS IN INDIVIDUAL MEMBERS OF A BEAM THAT ARE LOCATED AT OR NEAR THE END QUARTER POINTS SHALL NOT OCCUR IN ADJACENT MEMBERS AT THE SAME QUARTER POINT AND SHALL NOT REDUCE THE EFFECTIVE BEAM WIDTH BY MORE THAN HALF. 1.4.6. NOT MORE THAN ONE BUTT JOINT SHALL OCCUR IN ANY INDIVIDUAL MEMBER OF A BUILT-UP 	
WITH THE 2015 NBC TABLE 9.23.3.4. 1.7. SUPPORT OF WALLS 1.7.1. NON-LOADBEARING WALLS RUNNING PARALLEL TO THE FLOOR JOISTS SHALL BE SUPPORTED	BEAM WITHIN ANY ONE SPAN. 1.4.7. EXCEPT AS PROVIDED IN IN THE NEXT POINT BELOW, WHERE 38mm (1-1/2") MEMBERS ARE LAID ON EDGE TO FORM A BUILT-UP BEAM, INDIVIDUAL MEMBERS SHALL BE NAILED TOGETHER	
BY JOISTS BENEATH THE WALL OR ON PERPENDICULAR BLOCKING BETWEEN THE JOISTS. 1.7.2. BLOCKING BETWEEN THE JOISTS FOR THE SUPPORT OF NON-LOADBEARING WALLS RUNNING PARALLEL TO THE JOISTS SHALL BE 1.7.2.1. NOT LESS THAN 38mm (1-1/2") BY 89mm (3-1/2") LUMBER, AND	WITH A DOUBLE ROW OF NAILS NOT LESS THAN 89mm (3-1/2") IN LENGTH, SPACED NOT MORE THAN 450mm (18") APART IN EACH ROW WITH THE END NAILS LOCATED 100mm (4") TO 150mm (6") FROM THE END OF EACH PIECE. 1.4.8. WHERE 38mm (1-1/2") MEMBERS IN BUILT-UP WOOD BEAMS ARE NOT NAILED TOGETHER AS	TO TO HERE A
1.7.2.2. BE SPACED NOT MORE THAN 600mm (2'-0") APART. 1.7.3. NON-LOADBEARING INTERIOR WALLS AT RIGHT ANGLES TO THE FLOOR JOISTS, THAT ARE NOT PART OF THE LATERAL LOAD RESISTING SYSTEM FOR THE STRUCTURE, ARE NOT RESTRICTED	PROVIDED IN THE PREVIOUS POINT, THEY SHALL BE BOLTED TOGETHER WITH NOT LESS THAN 12.7mm (1/2") DIAMETER BOLTS EQUIPPED WITH WASHERS AND SPACED NOT MORE THAN 1,200mm (4'-0") O.C., WITH THE END BOLTS LOCATED NOT MORE THAN 600mm (2'-0") FROM	COPYRIGHTS, SITE INSPECTIONS & DISCLAIMERS
AS TO LOCATION. 1.7.4. LOADBEARING INTERIOR WALLS PARALLEL TO FLOOR JOISTS SHALL BE SUPPORTED BY BEAMS OR WALLS OF SUFFICIENT STRENGTH TO SAFELY TRANSFER THE SPECIFIED LIVE LOADS TO THE VERTICAL SUPPORTS AT ALL TIMES.	THE ENDS OF THE MEMBERS. 1.5. SOLID AND BUILT-UP ENGINEERED LUMBER BEAMS 1.5.1. U.N.O. ALL ENGINEERED LUMBER WOOD BEAMS ARE TO HAVE A MINIMUM BEARING LENGTH	THESE DRAWINGS ARE THE COPYRIGHT OF 49NORTH ENGINEERING CORP. (49NORTH); AND, ARE ISSUED FOR A ONE (1) TIME USE ONLY. NEITHER THESE DRAWINGS, NOR THE
1.7.5. LOADBEARING INTERIOR WALLS AT RIGHT ANGLES TO FLOOR JOISTS SHALL BE LOCATED 1.7.5.1. NOT MORE THAN 900mm (3'-0") FROM THE JOIST SUPPORT WHERE THE WALL DOES NOT SUPPORT A FLOOR, AND	EQUIVALENT TO 1.5.1.1. THAT STATED IN "THE SPAN BOOK" 2004 EDITION (OR NEWER) PUBLISHED BY THE CANADIAN WOOD COUNCIL, OR 1.5.1.2. OR SHALL BE NOT LESS THAN 114mm (4-1/2") LONG BY THE WIDTH OF THE BEAM.	INFORMATION CONTAINED HEREIN, SHALL BE USED, AND/OR REPRODUCED BY ANY PARTY IN ANY FORM WITHOUT THE EXPRESS WRITTEN CONSENT OF 49NORTH. THE COPYRIGHT OF
1.7.5.2. NOT MORE THAN 600mm (2'-0") FROM THE JOIST SUPPORT WHERE THE WALL SUPPORTS ONE OR MORE FLOORS ABOVE. 1.7.6. LOADBEARING AND NON-LOADBEARING WALLS, DESIGNED TO BE PART OF THE LATERAL LOAD	1.5.2. WHERE A BEAM IS MADE UP OF INDIVIDUAL PIECES OF ENGINEERED WOOD LUMBER THAT ARE NAILED TOGETHER, THE INDIVIDUAL MEMBERS SHALL BE 45mm (1-3/4") IN THICKNESS AND INSTALLED ON EDGE.	49NORTH IS HEREBY ASSERTED - COPYRIGHT 2021. THE USE OF THESE DRAWINGS AND DOCUMENTS FOR ANY OTHER PURPOSE BY ANY PARTY IS STRICTLY PROHIBITED. WHERE ANY ERROR, OMISSION AND/OR DISCREPANCY IS FOUND TO EXIST
RESISTING SYSTEM FOR THE STRUCTURE, SHALL BE CONTINUOUSLY SUPPORTED BY FLOOR JOISTS, BLOCKING OR RIM JOISTS TO ALLOW FOR THE REQUIRED FASTENING (SEE 2015 NBC TABLE 9.23.3.4.).	1.5.3. EXCEPT AS PERMITTED BELOW, WHERE INDIVIDUAL MEMBERS OF AN ENGINEERED WOOD LUMBER BUILT-UP BEAM ARE BUTTED TOGETHER TO FORM A JOINT, THE JOINT SHALL OCCUR OVER A SUPPORT.	WITHIN OR BETWEEN DRAWINGS, PROJECT DOCUMENTS AND/OR SITE CONDITIONS; IT IS TO BE REPORTED TO 49NORTH IMMEDIATELY IN WRITING. 49NORTH RESERVES THE
1.8. CANTILEVERED FLOOR JOISTS 1.8.1. FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 400mm (16") BEYOND THEIR SUPPORTS WHERE 38mm (1-1/2") BY 184mm (7-1/4") JOISTS ARE USED AND NOT MORE THAN 600mm (2'-0") BEYOND THEIR SUPPORTS WHERE 38mm (1-1/2") BY	1.5.4. WHERE AN ENGINEERED WOOD LUMBER BUILT-UP BEAM IS CONTINUOUS OVER MORE THAN ONE SPAN, INDIVIDUAL MEMBERS ARE PERMITTED TO BE BUTTED TOGETHER TO FORM A JOINT AT OR WITHIN 150mm (6") OF THE END QUARTER POINTS OF THE CLEAR SPANS, PROVIDED THE OUARTER POINTS ARE NOT THOSE CLOSEST TO THE ENDS OF THE BEAM.	RIGHT TO PROVIDE ADDENDA, REVISIONS, SITE INSTRUCTIONS, AND/OR CORRECTIONS TO THE DESIGN TO RECTIFY ANY ERROR, OMISSION AND/OR DISCREPANCY IN
235mm (9-1/4") OR LARGER JOISTS ARE USED. 1.8.2. THE CANTILEVERED PORTIONS REFERRED TO IN THE PRECEDING POINT SHALL NOT SUPPORT FLOOR LOADS FROM OTHER STOREYS, UNLESS EXPLICITLY SHOWN IN THE CONSULTANT'S	 THE QUARTER POINTS ARE NOT THOSE CLOSEST TO THE ENDS OF THE BEAM. 1.5.5. MEMBERS OF AN ENGINEERED WOOD LUMBER BUILT-UP WOOD BEAM THAT ARE JOINED AT QUARTER POINTS SHALL BE CONTINUOUS OVER ADJACENT SUPPORTS. 1.5.6. JOINTS IN INDIVIDUAL MEMBERS OF AN ENGINEERED WOOD LUMBER BUILT-UP WOOD BEAM 	ACCORDANCE WITH THE AGREEMENT FOR ENGINEERING SERVICES AND 49NORTH'S STANDARD ENGINEERING CONSULTING SERVICE TERMS & CONDITIONS. THE OWNER AND CONTRACTOR MUST PROVIDE 49NORTH WITH COPIES OF
PLANS. 1.8.3. WHERE CANTILEVERED FLOOR JOISTS DESCRIBED THE PRECEDING TWO POINTS ARE AT RIGHT ANGLES TO THE MAIN FLOOR JOISTS, THE TAIL JOISTS IN THE CANTILEVERED PORTION SHALL	THAT ARE LOCATED AT OR NEAR THE END QUARTER POINTS SHALL NOT OCCUR IN ADJACENT MEMBERS AT THE SAME QUARTER POINT AND SHALL NOT REDUCE THE EFFECTIVE BEAM WIDTH BY MORE THAN HALF.	AND CONTRACTOR MUST PROVIDE 49NORTH WITH COPIES OF THE BUILDING PERMIT APPROVAL DOCUMENTS, BUILDING OFFICIAL SITE INSPECTION REPORTS, AND SHOP DRAWING DOCUMENTS THROUGHOUT THE COURSE OF THE PROJECT. THE
EXTEND INWARD AWAY FROM THE CANTILEVER SUPPORT A DISTANCE EQUAL TO NOT LESS THAN 6 TIMES THE LENGTH OF THE CANTILEVER (EX. 12'-0" FOR A 2'-0" CANTILEVER), AND SHALL BE END NAILED TO AN INTERIOR DOUBLED HEADER JOIST IN CONFORMANCE WITH THE 2015 NBC TABLE 9.23.3.4.	 NOT MORE THAN ONE BUTT JOINT SHALL OCCUR IN ANY INDIVIDUAL MEMBER OF AN ENGINEERED WOOD LUMBER BUILT-UP BEAM WITHIN ANY ONE SPAN. EXCEPT AS PROVIDED BELOW, WHERE 45mm (1-3/4") MEMBERS ARE LAID ON EDGE TO FORM AN ENGINEERED WOOD LUMBER BUILT-UP BEAM INDIVIDUAL MEMBERS SHALL BE NATIED 	OWNER AND CONTRACTOR MUST ALSO NOTIFY 49NORTH IN WRITING AT EACH PROJECT CONSTRUCTION STAGE DURING THE COURSE OF THE PROJECT TO CONDUCT SITE INSPECTIONS
	AN ENGINEERED WOOD LUMBER BUILT-UP BEAM, INDIVIDUAL MEMBERS SHALL BE NAILED TOGETHER WITH A DOUBLE ROW OF NAILS NOT LESS THAN 102mm (4") IN LENGTH, SPACED NOT MORE THAN 450mm (18") APART IN EACH ROW WITH THE END NAILS LOCATED 100mm (4") TO 150mm (6") FROM THE END OF EACH PIECE.	SO THAT 49NORTH MAY ASCERTAIN CONSTRUCTION COMPLIANCE WITH THESE DESIGN DOCUMENTS. 49NORTH WILL NOT EXPRESSLY MONITOR THIS PROJECT UNLESS
WOOD FRAMED CONSTRUCTION - WALL STUDS - STANDARD HEIGHT - NBC 2015 (MAX. 3.6m $(11'-9\frac{3}{4}")$:	1.5.9. WHERE 45mm (1-3/4") MEMBERS IN BUILT-UP ENGINEERED WOOD LUMBER WOOD BEAMS ARE NOT NAILED TOGETHER AS PROVIDED ABOVE, THEY SHALL BE BOLTED TOGETHER WITH NOT LESS THAN 12.7mm (1-1/2") DIAMETER BOLTS EQUIPPED WITH NUTS AND WASHERS AND BE	EXPLICITLY AGREED TO IN THE AGREEMENT FOR CONSULTING ENGINEERING SERVICES. THE OWNER AND CONTRACTOR ARE NOTIFIED AND ADVISED TO CONTACT 49NORTH'S OFFICE VIA EMAIL FOR THE INSPECTION REQUIREMENT STAGES FOR THIS
T. 1. WALL STUDS 1.1. STUD SIZE AND SPACING	SPACED NOT MORE THAN 1.2m (48") O.C., WITH THE END BOLTS LOCATED NOT MORE THAN 600mm (24") FROM THE ENDS OF THE BEAM.	PROJECT. NEITHER THE PROFESSIONAL ENGINEER NOR 49NORTH ENGINEERING CORP. WILL BE LIABLE IN CONTRACT OR IN TORT, FOR ANY NORMAL, REGULAR, STANDARD,
E 1.1.1. THE SIZE AND SPACING OF WALL STUDS SHALL CONFORM TO THE 2015 NBC TABLE 9.23.10.1. 1.2. BRACING AND LATERAL SUPPORT 1.2.1. WHERE LOADBEARING INTERIOR WALLS ARE NOT FINISHED IN ACCORDANCE WITH THE 2015		INCIDENTAL, SPECIAL, RESULTANT, SUBSEQUENT AND/OR CONSEQUENTIAL DAMAGES, LOST PROFITS, AND/OR ANY OTHER DIRECT AND/OR INDIRECT DAMAGES RESULTING FROM: DISCREPANCIES AND/OR ERRORS AND/OR OMISSIONS DUE TO
 NBC SECTION 9.29., WALL BLOCKING SHALL BE FASTENED TO THE STUDS AT 1.2m (4'-0") SPACING INTERVALS TO PREVENT SIDEWAYS BUCKLING. 1.3. ORIENTATION OF STUDS 1.3.1. EXCEPT AS PERMITTED IN THE NEXT TWO POINTS, ALL STUDS SHALL BE PLACED AT RIGHT 	BUILT-UP WOOD COLUMNS:	CAUSES OTHER THAN NEGLIGENCE; AND, IN SUCH CASE SHALL ONLY BE LIABLE TO THE PARTY UNDER CONTRACT WITH 49NORTH FOR THE COMPILATION, PRODUCTION AND/ DELIVERY
ANGLES TO THE WALL FACE. 1.3.2. STUDS ON THE FLAT ARE PERMITTED TO BE USED IN GABLE ENDS OF ROOFS THAT CONTAIN ONLY UNFINISHED SPACE OR IN NON-LOADBEARING INTERIOR WALLS WITHIN THE LIMITS	 BUILT-UP COLUMNS U.N.O. ALL WOOD TO CONFORM TO THE GENERAL REQUIREMENTS OF THIS SECTION. ALL WOOD MEMBERS IN BUILT-UP COLUMNS AND BEAMS ARE TO CONFORM TO CAN/CSA 086.1 AND NUCA PUILES END VISUALLY CRADED LUMPER AND REINOL SESS THAN SPEND OF 2 OP 	OF THESE DOCUMENTS. DO NOT SCALE FROM THESE DRAWINGS. U.N.O. ALL
DESCRIBED IN THE 2015 NBC ARTICLE 9.23.10.1. 1.3.3. WALL STUDS THAT SUPPORT ONLY A LOAD FROM AN ATTIC NOT ACCESSIBLE BY A STAIRWAY ARE PERMITTED TO BE PLACED ON THE FLAT WITHIN THE LIMITS PERMITTED IN THE 2015 NBC ARTICLE 9.23.10.1. PROVIDED THAT	 AND NLGA RULES FOR VISUALLY GRADED LUMBER, AND BE NOT LESS THAN SPF NO. 2 OR BETTER GRADE. 4. LUMBER USED SHALL BE IDENTIFIED BY THE GRADE STAMP OF AN ASSOCIATION OR INDEPENDENT GRADING AGENCY IN ACCORDANCE WITH "NLGA SPECIAL STANDARD SPS 1". 	DIMENSIONS SHOWN IN THESE DRAWINGS ARE MEASURED TO THE OUTSIDE FACE OF EXTERIOR WALLS AND TO THE CENTERLINE OF INTERIOR WALLS. ALL DIMENSIONS MUST BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO SUBMITTING
ARTICLE 9.23.10.1. PROVIDED THAT 1.3.3.1. THE STUDS ARE CLAD ON NOT LESS THAN ONE SIDE WITH PLYWOOD, OSB OR WAFERBOARD SHEATHING FASTENED TO THE FACE OF THE STUDS WITH A STRUCTURAL ADHESIVE, AND 1.3.3.2. THE PORTION OF THE ROOF SUPPORTED BY THE STUDS DOES NOT EXCEED 2.0m (6'-6") IN	5. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED TOGETHER AS TO PROVIDE THE STRENGTH AND RIGIDITY NECESSARY FOR THE PURPOSE FOR WHICH THEY WERE INTENDED.	ANY ESTIMATE, PROPOSAL AND/OR CONTRACT TO THE OWNER; AND BY THE CONTRACTOR AGAIN PRIOR TO THE EXECUTION OF ANY WORK REFERENCED BY THESE DRAWINGS AND/OR
WIDTH. 1.4. CONTINUITY OF STUDS 1.4.1. WALL STUDS SHALL BE CONTINUOUS FOR THE FULL STOREY HEIGHT EXCEPT AT OPENINGS	 ALL COMPONENTS OF BUILT UP MEMBERS TO BE CONTINUOUS FOR FULL SPAN. DO NOT SPLICE OR USE BUTT JOINTS, EXCEPT AS (AND ONLY AS) EXPLICITLY SHOWN IN THESE PLANS, DETAILS AND SPECIFICATIONS. COLUMNS 	SPECIFICATIONS. 49NORTH ENGINEERING CORP. PROJECT NUMBER:
AND SHALL NOT BE SPLICED. 1.5. SUPPORT FOR CLADDING, SHEATHING AND FINISHING MATERIALS 1.5.1. CORNERS AND INTERSECTIONS SHALL BE DESIGNED TO PROVIDE ADEQUATE SUPPORT FOR THE VERTICAL EDGES OF INTERIOR FINISHES, SHEATHING AND CLADDING MATERIALS, AND IN	COLUMNS COLUMNS IN THE CASE OF NAILED BUILT-UP COMPRESSION MEMBERS (COLUMNS) ALL NAILS SHALL PENETRATE THROUGH THE ENTIRE THICKNESS OF ALL INDIVIDUAL PIECES BEING ATTACHED; AND, NAILS SHALL BE DRIVEN ALTERNATELY FROM EITHER FACE OF THE BUILT-UP MEMBER	2021 - 2062 CLIENT PROJECT NUMBER:
INTERVENTION OF A STATE OF A STAT	ALONG THE LENGTH. 7.2. FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT OF 2"X4" (38MMX89MM) PLIES, THE NAILS SHALL START NOT CLOSER THAN 2.5" (60MM) FROM THE END OF THE PLIES,	
1.5.2. WHERE THE VERTICAL EDGES OF INTERIOR FINISHES AT WALL INTERSECTIONS ARE SUPPORTED AT VERTICAL INTERVALS BY BLOCKING OR FURRING, THE VERTICAL DISTANCE BETWEEN SUCH SUPPORTS SHALL NOT EXCEED THE MAXIMUM DISTANCE BETWEEN SUPPORTS	AND SHALL CONTINUE (ONLY A SINGLE ROW OF NAILS REQUIRED) AT 8 2/3" (220MM) ON CENTRE ALONG THE LENGTH OF THE PLIES STAGGERED IN THE DIRECTION OF THE GRAIN, WITH NO NAIL CLOSER THAN 1-5/32" (30MM) TO THE OUTSIDE EDGE OF THE PLIES.	ISSUED FOR: YYYY.MM.DD
SPECIFIED IN THE 2015 NBC SECTION 9.29. 1.6. STUDS AT SIDES OF OPENINGS 1.6.1. WHERE THE LINTEL SPANNING THE OPENING IS MORE THAN 3m (9'-10") LONG, STUDS SHALL BE TRIPLED ON EACH SIDE OF THE OPENING SO THAT	7.3. FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT OF 2"X6" (38MMX140MM) PLIES, THE NAILS SHALL START NOT CLOSER THAN 2.5" (60MM) FROM THE END OF THE PLIES, AND SHALL CONTINUE (DOUBLE ROW OF NAILS REQUIRED) AT 8 2/3" (220MM) ON CENTRE ALONG THE LENGTH OF THE PLIES STAGGERED IN THE DIRECTION OF THE GRAIN, WITH NO	SCHEMATIC DESIGN REVIEW DESIGN DEVELOPMENT REVIEW
1.6.1.1. THE TWO INNER STUDS (I.E., JACK STUDS) ON EACH SIDE EXTEND FROM THE BOTTOM OF THE SUPPORTED LINTEL TO THE TOP OF THE BOTTOM WALL PLATE, AND 1.6.1.2. THE OUTER STUD (I.E., KING STUD) ON EACH SIDE EXTENDS FROM THE BOTTOM OF THE TOP	 NAIL CLOSER THAN 2-5/32" (55MM) TO THE OUTSIDE EDGE OF THE PLIES. 7.4. FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT OF 2"X8" (38MMX184MM) PLIES, THE NAILS SHALL START NOT CLOSER THAN 2.5" (60MM) FROM THE END OF THE PLIES, 	CONSTRUCTION DOCUMENT REVIEW TENDER PACKAGE REVIEW ISSUED FOR DEVELOPMENT REPAIL
WALL PLATE TO THE BOTTOM WALL PLATE. 1.6.2. EXCEPT AS PROVIDED BELOW, WHERE THE LINTEL SPANNING THE OPENING IS LESS THAN 3m (9'-10") LONG, STUDS SHALL BE DOUBLED ON EACH SIDE OF THE OPENING SO THAT	AND SHALL CONTINUE (DOUBLE ROW OF NAILS REQUIRED) AT 8 2/3" (220MM) ON CENTRE ALONG THE LENGTH OF THE PLIES STAGGERED IN THE DIRECTION OF THE GRAIN, WITH NO NAIL CLOSER THAN 1-3/8" (35MM) TO THE OUTSIDE EDGE OF THE PLIES. 7.5. FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT F 2"X10" OR 2"X12"	ISSUED FOR DEVELOPMENT PERMIT2021.02.25ISSUED FOR BUILDING PERMIT2021.02.25ISSUED FOR CONSTRUCTION (IFC)2021.02.25
1.6.2.1. THE INNER STUD (I.E., JACK STUD) ON EACH SIDE EXTENDS FROM THE BOTTOM OF THE SUPPORTED LINTEL TO THE TOP OF THE BOTTOM WALL PLATE, AND 1.6.2.2. THE OUTER STUD (I.E., KING STUD) ON EACH SIDE EXTENDS FROM THE BOTTOM OF THE TOP WALL PLATE TO THE BOTTOM WALL PLATE.	 FOR BUILT-UP COMPRESSION MEMBERS (COLUMNS) FABRICATED OUT F 2"X10" OR 2"X12" (38MMX234MM) OR (38MMX286MM) PLIES, NAILS SHALL START NOT CLOSER THAN 2.5" (60MM) FROM THE END OF THE PLIES, AND SHALL CONTINUE (DOUBLE ROW OF NAILS REQUIRED) AT 8 2/3" (220MM) ON CENTRE ALONG THE LENGTH OF THE PLIES STAGGERED IN THE DIRECTION 	ISSUED FOR CONSTRUCTION (IFC) 2021.02.25
1.6.3. SINGLE STUDS ARE PERMITTED TO BE USED ON EITHER SIDE OF OPENINGS 1.6.3.1. IN NON-LOADBEARING INTERIOR WALLS NOT REQUIRED TO HAVE FIRE-RESISTANCE RATINGS, PROVIDED THE STUDS EXTEND FROM THE TOP WALL PLATE TO THE BOTTOM WALL PLATE, OR	OF THE GRAIN, WITH NO NAIL CLOSER THAN 1-3/8" (35MM) TO THE OUTSIDE EDGE OF THE PLIES. 7.6. IN THE CASE OF BUILT-UP COMPRESSION MEMBERS (COLUMNS) WITH MORE THAN 4 PLIES OF	
1.6.3.2. IN LOADBEARING OR NON-LOADBEARING INTERIOR OR EXTERIOR WALLS, PROVIDED 1.6.3.2.1. THE OPENING IS LESS THAN THE REQUIRED STUD SPACING, AND 1.6.3.2.2. NO TWO SUCH OPENINGS OF FULL STUD-SPACE WIDTH ARE LOCATED IN ADJACENT STUD	MATERIAL, AT LEAST 1 ROW OF $1/2$ " Ø BOLTS SHALL BE INSTALLED AT 48" (1,219MM) ON CENTRE - CENTERED ACROSS THE MEMBER WIDTH IN ADDITION TO THE NAILING REQUIRED ABOVE.	PROJECT:
SPACES. (SEE 2015 NBC NOTE A-9.23.10.6.(3).)	7.7. WHERE ANY SPLICE OCCURS IN A BUILT-UP COMPRESSION MEMBER (COLUMNS), NOT MORE THAN ONE PLY SHALL BE PERMITTED TO BE SPLICED IN ANY ONE LOCATION; AND, NO TWO SPLICES SHALL BE PERMITTED WITHIN 48" (1,219MM) OF ANOTHER SPLICE LOCATION. (I.E. ALL SPLICE LOCATIONS MUST CONSIST OF A MINIMUM OF 3 CONTINUOUS MEMBERS THROUGH	
WOOD FRAMED CONSTRUCTION - WALL PLATES - NBC 2015:	 THE SPLICE, WIDTH NAILS PENETRATING ALL 4 MEMBERS). 7.8. IN THE CASE OF BUILT-UP COMPRESSION MEMBERS (COLUMNS) FOR POLE BUILDING CONSTRUCTION, NO SPLICE MAY NOT OCCUR CLOSER THAN 4'-0" (1,219MM) EITHER ABOVE OR 	DETACHED ACCESSORY WORKSHOP BUILDING
1. WALL PLATES	BELOW FINISHED GRADE. (I.E. 7.9. IN THE CASE OF BUILT-UP COMPRESSION MEMBERS (COLUMNS) FOR POLE BUILDING CONSTRUCTION,THE MINIMUM OVERALL DISTANCE BETWEEN ANY TWO SPLICES SHALL BE	
1.1. SIZE OF WALL PLATES 1.1. SIZE OF WALL PLATES 1.1.1. EXCEPT AS PROVIDED BELOW, WALL PLATES SHALL BE 1.1.1.1. NOT LESS THAN 38mm (1-1/2") THICK, AND	1200MM (4'-0"). SPLICED COLUMNS SHALL BE BRACED BY SHEATHING, GIRTS OR PURLINS SPACED AT A MAXIMUM OF 600MM (2'-0") O/C IN THE DIRECTION PERPENDICULAR TO THE WIDE FACE OF THE LAMINATIONS. 7.10. IN THE CASE OF BUILT-UP COMPRESSION MEMBERS (COLUMNS) FOR POLE BUILDING	1624 GRANT ROAD REGINA, SASKATCHEWAN
1.1.1.2. NOT LESS THAN THE REQUIRED WIDTH OF THE WALL STUDS. 1.1.2. IN NON-LOADBEARING WALLS AND IN LOADBEARING WALLS WHERE THE STUDS ARE LOCATED DIRECTLY OVER FRAMING MEMBERS, THE BOTTOM WALL PLATE IS PERMITTED TO BE 38mm	7.10. IN THE CASE OF BUILT-OP COMPRESSION MEMBERS (COLUMNS) FOR FOLE BUILDING CONSTRUCTION, THE MINIMUM LAMINATION SIZE SHALL BE 38MM X 184MM (2 X 8) AND THE MAXIMUM SHALL BE 38MM X 286MM (2 X 12). SEE DRAWINGS FOR SPECIFICS RELATED TO THIS BUILDING.	LOT 12, BLOCK 35, PLAN 59R04305
(1-1/2") THICK AS WELL. 1.2. BOTTOM WALL PLATES 1.2.1. A BOTTOM WALL PLATE SHALL BE PROVIDED IN ALL CASES. 1.2.2. THE BOTTOM PLATE IN EXTERIOR WALLS SHALL NOT PROJECT MORE THAN ONE-THIRD THE		
 1.2.2. THE BOTTOM PLATE IN EXTERIOR WALLS SHALL NOT PROJECT MORE THAN ONE-THIRD THE PLATE WIDTH OVER THE SUPPORT (I.E., TWO THIRDS OF THE PLATE MUST BE LOCATED DIRECTLY OVER THE SUPPORT PATH TO THE FOUNDATIONS). 1.3. TOP PLATES 	WOOD BLOCKING:	
1.3.1. AT LEAST 2 TOP PLATES SHALL BE PROVIDED IN ALL LOADBEARING WALLS WITHOUT EXCEPTIONS. 1.3.2. A SINGLE TOP PLATE IS NOT PERMITTED IN NON-LOADBEARING WALLS.	1. WOOD BLOCKING 1.1. U.N.O. BLOCKING FOR WOOD FRAME CONSTRUCTION IS TO COMPLY WITH THE FOLLOWING GENERAL REQUIREMENTS U.N.O. IN THE PLANS AND/OR SPECIFICATIONS FOR SPECIFIC	ENGINEERTWEIDTTECHNICIANTWEIDT
1.3.3. A SINGLE TOP PLATE IS NOT PERMITTED IN LOADBEARING WALLS. 1.4. JOINTS IN TOP PLATES 1.4.1. JOINTS IN THE TOP PLATES OF LOADBEARING WALLS SHALL BE STAGGERED NOT LESS THAN ONE STUD SPACING.	ELEMENTS. 1.1.1. CO-ORDINATE BLOCKING REQUIREMENTS WITH OTHER TRADES. 1.1.2. PROVIDE BLOCKING AT 1.2m (4'-0") O.C. IN ALL LOADBEARING SHEAR WALLS OVER 2.4m	DRAWING SCALE 1/8" = 1'-0" DATE FEBRUARY 25, 2021
1.4.2. THE TOP PLATES IN LOADBEARING WALLS SHALL BE LAPPED OR OTHERWISE TIED AT CORNERS AND INTERSECTING WALLS IN ACCORDANCE WITH THE REQUIREMENTS BELOW. 1.4.3. TIES REFERRED TO ABOVE SHALL BE THE EQUIVALENT OF NOT LESS THAN 75mm (3") BY 150	 (8'-0" IN HEIGHT). 1.1.3. PROVIDE BLOCKING AT 2.4m (8'-0") O.C. IN ALL NON-LOADBEARING NON-SHEAR WALLS OVER 2.4M (8'-0" IN HEIGHT). 1.2. MISCELLANEOUS FRAMING, BLOCKING, NAILING STRIPS (NON-LOADBEARING) TO BE MINIMUM 	DRAWING TITLE:
 (6") MM BY 0.91mm THICK GALVANIZED STEEL NAILED TO EACH WALL WITH AT LEAST THREE 63mm LONG NAILS. 1.4.4. WHERE THE SEISMIC SPECTRAL RESPONSE ACCELERATION, SA(0.2), IS GREATER THAN 0.70 	CONSTRUCTION SPF NO. 2 OR BETTER. 1.3. PROVIDE BLOCKING, NAILING STRIPS AS REQUIRED FOR SUPPORT OF WALL HUNG ITEMS, ETC. 1.4. ALL CONNECTIONS, MINIMUM BEARING LENGTHS, AND MAXIMUM SPANS TO BE IN	SPECIFICATIONS
BUT NOT MORE THAN 1.8, DOUBLED TOP PLATES IN BRACED WALL BANDS SHALL BE FASTENED ON EACH SIDE OF A SPLICE WITH 76mm (3") LONG COMMON STEEL WIRE NAILS OR SPIRAL NAILS IN ACCORDANCE WITH THE 2015 NBC TABLE 9.23.11.4.	ACCORDANCE WITH PART 9 OF THE NBC (EDITION IN FORCE) U.N.O. 1.5. PROVIDE SOLID BLOCKING BETWEEN JOISTS AT INTERIOR SUPPORTS, AND PROVIDE CROSS-BRIDGING BETWEEN JOISTS AT MAX. 2.1m (7'-0") ON CENTER ALONG LENGTH OF SPAN.	SHEET NUMBER:

PERMA	NENT WOOD FOUNDATIONS - GENERAL - S406-2014:	PERMA S406-	ANENT WOOD FOUNDATIONS - CUTTING & MACHINING - 2014:		NENT WOOD FO SLEEPER OR CC
1. 1.1.	GENERAL PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE THE 2015	1. 1.1.	CUTTING AND MACHINING ALL CUTTING & CORING FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW.	1. 1.1.	EXTERIOR WALLS WITH ALL EXTERIOR WALLS W
2.	NATIONAL BUILDING CODE OF CANADA (NBC), CAN/CSA-S406-2014, "PERMANENT WOOD FOUNDATIONS", AND ALL ASSOCIATED DESIGN STANDARDS AND REFERENCE PUBLICATIONS. DESIGN STANDARDS AND REFERENCE PUBLICATIONS	1.2. 1.2.1.	ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14. TREATMENT OF CUT LUMBER AND PLYWOOD CUTTING AND MACHINING OF LUMBER AND PLYWOOD SHOULD BE DONE PRIOR TO TREATMENT.	1.1.	WOOD FOUNDATIONS S AS DETAILED IN THE SP BELOW ARE AS FOUND I
2.1.	THIS STANDARD REFERS TO THE FOLLOWING PUBLICATIONS AND WHERE SUCH REFERENCE IS MADE IT SHALL BE TO THE LATEST EDITION, INCLUDING ALL AMENDMENTS PUBLISHED THERETO:		TREATED LUMBER SHALL NOT BE CUT LENGTHWISE OR NOTCHED. IN CASES WHERE CUTTING OR BORING AFTER TREATMENT IS UNAVOIDABLE, ALL CUTS, HOLES, AND INJURIES TO THE SURFACE OF TREATED MATERIALS SHALL BE PROTECTED BY TWO APPLICATIONS OF	1.2. 1.2.1.	WALL STUDS BACKFILL HEIGHTS FOR OR CONCRETE SLAB FLC
2.1.1. 2.1.1.1.	CSA GROUP CAN/CSA-A123.4-04 (R2013), "ASPHALT FOR CONSTRUCTING BUILT-UP ROOF COVERINGS AND WATERPROOFING SYSTEMS"	1.3. 1.3.1.	PRESERVATIVE IN ACCORDANCE WITH CLAUSE 5.1.1. THIS APPLICATION SHALL BE IN ACCORDANCE WITH THE PMRA LABEL. FOUNDATION WALL STUDS TREATED FOUNDATION WALL STUDS SHALL NOT BE CUT, NOTCHED, OR BORED TO	1.3. 1.3.1.	FRAMING AROUND WALL WHERE THE HEIGHT OF AROUND WALL OPENING HEIGHT OF BACKFILL IS
2.1.1.2. 2.1.1.3. 2.1.1.4. 2.1.1.5.	B111 (WITHDRAWN), "WIRE NAILS, SPIKES AND STAPLES" CAN/CSA-080 SERIES-08 (R2012), "WOOD PRESERVATION" CAN/CSA-086-14, "ENGINEERING DESIGN IN WOOD" CAN/CSA-0121-08 (R2013), "DOUGLAS FIR PLYWOOD"	1.3.1.	ACCOMMODATE THE INSTALLATION OF PLUMBING, HEATING SERVICES AND OTHER UTILITIES, OR FOR ANY OTHER REASON. WHEN STUDS ARE CROSSCUT TO LENGTH AFTER INITIAL TREATMENT END CUTS SHALL BE TREATED IN ACCORDANCE WITH CSA 080.3.	1.3.2.	HEIGHT OF BACKFILL IS SHALL CONFORM TO CLA WHERE LINTELS ARE LO ADJACENT MEMBERS WI
2.1.1.5. 2.1.1.6. 2.1.1.7. 2.1.1.8.	CAN/CSA-0141-05 (R2009), "SOFTWOOD LUMBER" CAN/CSA-0151-09, "CANADIAN SOFTWOOD PLYWOOD" CAN/CSA-0153-13, "POPLAR PLYWOOD"	1.4. 1.4.1.	INSTALLATION OF ELECTRICAL SERVICES INSTALLATION OF ELECTRICAL FACILITIES SHOULD BE MINIMIZED IN THE EXTERIOR WALLS OF PRESERVED WOOD FOUNDATIONS. WHERE DUPLEX OUTLETS AND OTHER WIRING MUST BE	1.3.2.1.	450 MM (18 IN) APART I TO 6 IN) FROM THE END NOTE: BUILT-UP FLOOR
2.1.1.9.	CAN/CSA-0322-02 (R2012), "PROCEDURE FOR CERTIFICATION OF PRESSURE-TREATED WOOD MATERIALS FOR USE IN PRESERVED WOOD FOUNDATIONS" CAN/CSA-0325-07 (R2012), "CONSTRUCTION SHEATHING"		PLACED IN EXTERIOR WALLS, THE WIRING TO SERVICE EACH OUTLET BOX SHALL BE RUN VERTICALLY WITHIN A SINGLE STUD SPACE AND SHALL PASS THROUGH A HOLE DRILLED IN THE TOP PLATES. IN ADDITION TO THE REMEDIAL TREATMENT REQUIRED IN CLAUSE 6.1, THE	1.3.3.	MEMBERS COMPLETELY S EACH MEMBER OF LINTE MM (3 IN) NAILS SPACE
2.1.2. 2.1.2.1.	ASTM INTERNATIONAL (AMERICAN SOCIETY FOR TESTING AND MATERIALS) ASTM A653/A653M-13, "STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS"	1.5. 1.5.1.	HOLE IN THE TOP PLATE SHALL BE SEALED AGAINST AIR CIRCULATION. FLOOR JOISTS, BLOCKING, AND SERVICES STRUCTURAL BLOCKING OR OTHER FLOOR MEMBERS REQUIRED UNDER CLAUSES 9.7.3, 10.7.3, AND 12.3 SHALL NOT BE CUT, REMOVED, OR OTHERWISE INTERFERED WITH FOR THE PURPOSE	1.3.4.	WALL OPENINGS. JACK STUDS AND ADJAC 76 MM (3 IN) NAILS SPA
2.1.2.2. 2.1.2.3. 2.1.2.4.	ASTM C834-10, "STANDARD SPECIFICATION FOR LATEX SEALANTS" ASTM C920-14, "STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS" ASTM C1184-13, "STANDARD SPECIFICATION FOR STRUCTURAL SILICONE SEALANTS" ACTM C1311-10, "STANDARD SPECIFICATION FOR STRUCTURAL SILICONE SEALANTS"		AND 12:3 SHALL NOT BE COT, REMOVED, OR OTHERWISE INTERPRETED WITH FOR THE PORFOSE OF INSTALLING PLUMBING, HEATING AND/OR AIR CONDITIONING DUCTS AND PIPES, OR FOR ANY OTHER REASON. WHERE DUCTS OR PIPES ARE REQUIRED TO SERVICE REGISTERS AT WALLS SITTING PARALLEL TO FLOOR JOISTS AND WHERE THEY CANNOT BE INSTALLED	1.3.5. 1.3.6.	FRAMING STRAPS OR FR THE SILLS, JACK STUDS THE SIZE AND SPACING BE THE SAME AS SPECIF
2.1.2.5. 2.1.2.6. 2.1.2.7.	ASTM C1311-10, "STANDARD SPECIFICATION FOR SOLVENT RELEASE SEALANTS" ASTM C1330-02(2013), "STANDARD SPECIFICATION FOR CYLINDRICAL SEALANT BACKING FOR USE WITH COLD LIQUID-APPLIED SEALANTS" ASTM D1227-13, "STANDARD SPECIFICATION FOR EMULSIFIED ASPHALT USED AS A		BETWEEN THE JOISTS WITHOUT CUTTING, REMOVING, OR REDUCING THE EFFECTIVENESS OF THE BLOCKING, SUCH DUCTS OR PIPES SHALL BE LOCATED BENEATH THE LEVEL OF THE BOTTOM OF THE FLOOR JOISTS.		OPENINGS OF 1200 MM STUDS AT BOTH SIDES (LINTEL, ON ONLY OF TH
2.1.2.8.	PROTECTIVE COATING FOR ROOFING" ASTM D2487-11, "STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOIL CLASSIFICATION SYSTEM)"			1.3.7.	AND 2400 MM (4 AND 8 FIGURE A.11. NAIL LAMINATED WOOD
2.1.2.9. 2.1.2.10.	ASTM D4479/D4479M-07(2012)E1, "STANDARD SPECIFICATION FOR ASPHALT ROOF COATINGS — ASBESTOS-FREE" ASTM E96/E96M-13, "STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF	PERMA S406-		1.3.8. 1.4. 1.4.1.	FOR OPENINGS WIDER T ACCORDANCE WITH CLA WALL SHEATHING MINIMUM THICKNESS OI
2.1.3. 2.1.3.1.	MATERIALS" (CGSB) CANADIAN GENERAL STANDARDS BOARD CAN/CGSB-37.2-M88, "EMULSIFIED ASPHALT, MINERAL COLLOID TYPE, UNFILLED, FOR DAMPPROOFING AND WATERPROOFING AND FOR ROOF COATINGS"	1. 1.1.	SITE PREPARATION ALL SITE PREPARATION FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW.	1.4.2.	ALL EDGES OF FOUNDAT FINISHED GRADE LEVEL (2 × 4 IN) WOOD BLOCK
2.1.3.2. 2.1.3.3.	CAN/CGSB-37.16-M89, "FILLED CUTBACK ASPHALT FOR DAMPPROOFING AND WATERPROOFING" CAN/CGSB-37.3-M, "APPLICATION OF EMULSIFIED ASPHALTS FOR DAMPPROOFING OR WATERPROOFING"	1.2. 1.2.1.	ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14. EXCAVATION EXCAVATION REQUIREMENTS SHALL BE AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE FOUNDATION EXCAVATION SHALL DRAIN TOWARD THE SUMP LOCATION.	1.4.3. 1.4.4.	A SEPARATION OF 2 TO SHEETS OF PLYWOOD (S ALL GAPS AROUND EDG
2.1.3.4. 2.1.3.5.	CAN/CGSB-51.34-M, "VAPOUR BARRIER, POLYETHYLENE SHEET FOR USE IN BUILDING CONSTRUCTION" CAN/CGSB-51.34-M86, "VAPOUR BARRIER, POLYETHYLENE SHEET, FOR USE IN BUILDING	1.3. 1.3.1. 1.3.1.1.	FOUNDATION DRAINAGE CONTINUOUS GRANULAR DRAINAGE LAYER FOR FULLY EXCAVATED FOUNDATIONS ENCLOSING HABITABLE SPACE, A CONTINUOUS	1.5.	EXTERIOR FINISHED GR. CLAUSE 5.6. FASTENINGS
2.1.4. 2.1.4.1.	CONSTRUCTION" NLGA (NATIONAL LUMBER GRADES AUTHORITY) STANDARD GRADING RULES FOR CANADIAN LUMBER, 2010		GRANULAR DRAINAGE LAYER OF CRUSHED STONE OR GRAVEL CONFORMING TO CLAUSE 5.10 SHALL BE INSTALLED UNDER ALL WOOD FOOTINGS AND UNDER FLOORS OF PRESERVED WOOD FOUNDATIONS. THIS LAYER THICKNESS SHALL BE IN ACCORDANCE WITH TABLES 3A AND 3B,	1.5.1. 1.5.1.1.	NAILING EXCEPT AS PROVIDED IN REQUIREMENTS OF TABI 9.4.3, 9.7, 12.3, 12.4, A
		1.2.2	AND SHALL EXTEND BEYOND THE FOOTING PLATE BY AT LEAST 300 MM (12 IN) (SEE FIGURES A.2 AND A.3). WHERE THE LAYER EXCEEDS 200 MM (8 IN) IN THICKNESS UNDER THE FOOTING PLATE, IT SHALL BE COMPACTED.	1.5.2. 1.5.2.1. 1.5.3.	STAPLING WHERE BACKFILL HEIGH FRAMING ANCHORS AND
PERMA	NENT WOOD FOUNDATIONS - MATERIALS - S406-2014:	1.3.2. 1.3.2.1.	SUMP THE GRANULAR DRAINAGE LAYER SHALL DRAIN TO A SUMP (SEE FIGURES A.2, A.3, AND A.4), WHICH IN TURN SHALL BE PROVIDED WITH POSITIVE DRAINAGE, BY GRAVITY OR MECHANICAL MEANS, TO A POINT OF FINAL DISPOSAL OUTSIDE THE BUILDING.	1.5.3.1.	WHEN REQUIRED BY CL/ JOIST SYSTEM FROM TH OPENINGS, FRAMING ST
1.		1.3.3. 1.3.3.1.	TILE NOT PERMITTED PERIMETER DRAINAGE TILE OR PIPE SHALL NOT BE USED WITH PRESERVED WOOD FOUNDATIONS.		THICKNESS GALVANIZE HAVE A MINIMUM SPECI CONNECT THE WALL STU
1.1.	ALL MATERIALS FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14. TREATED MATERIALS		NOTES: WEEPING TILE IS NOT PERMITTED DUE TO THE RISK OF SUBSOIL EROSION, BLOCKAGE, AND FAILURE.	1.5.4. 1.5.4.1.	LENGTH. SEE TABLE 7, A NAILING WHEN BACKFIL FOR RECTANGULAR PRES HEIGHT ON OPPOSITE W
1.2.1.	EXCEPT AS SET FORTH BELOW, ALL LUMBER AND PLYWOOD USED IN A PRESERVED WOOD FOUNDATION SHALL BE TREATED WITH PRESERVATIVE IN ACCORDANCE WITH THE CAN/CSA-080 SERIES, USE CATEGORY 4.2.	1.3.4.	SOME SPECIAL CONDITIONS (E.G., BASEMENT WALKOUTS) MAY REQUIRE ALLOWANCE FOR PERIMETER DRAINAGE TILE, BUT ONLY WHEN SPECIFICALLY DESIGNED. DRAINAGE THROUGH CONCRETE FOOTINGS		WALLS SHALL HAVE SHE 8E, OR THE FOUNDATIO RESISTANCE. NOTES:
1.2.2.	THE PROVISIONS IN THIS STANDARD FOR CONSTRUCTION OF PRESERVED WOOD FOUNDATIONS ARE PREDICATED ON THE ASSUMPTION THAT ALL LUMBER AND PLYWOOD THAT IS REQUIRED TO BE TREATED WHEN INCORPORATED IN A PRESERVED WOOD FOUNDATION	1.3.4.1.	WHEN CONCRETE FOOTINGS ARE PLACED ON UNDISTURBED SOIL, WATER PASSAGES CONFORMING TO CLAUSE 8.4.2 SHALL BE INCORPORATED IN THE FOOTING AND SHALL BE PLACED TO ENSURE DRAINAGE FROM THE GRANULAR DRAINAGE LAYER OUTSIDE THE FOOTING, THROUGH THE FOOTING, AND INTO THE GRANULAR DRAINAGE LAYER BELOW THE FLOOR (SEE	1.5.4.1.1.	WHERE STAIRWAY OPEN FOR DIAPHRAGM DEFLEC LENGTH-TO-WIDTH RAT
	WILL BE IDENTIFIED AS SUCH BY A CERTIFICATION MARK STAMPED ON THE MATERIAL THAT CONFIRMS THAT IT HAS BEEN TREATED IN CONFORMANCE WITH CSA 0322. NOTE: SOME PRESERVATIVE-TREATED WOOD IS TREATED TO REQUIREMENTS LESS STRINGENT THAN THOSE SPECIFIED ABOVE SUCH MATERIALS ARE NOT ACCEPTABLE FOR USE IN THE CONSTRUCTION OF	1.3.5.	FIGURE A.5). ALTERNATIVELY, ALL THROUGH-FOOTING DRAINAGE PASSAGES MAY BE CONNECTED BY PIPING TO THE SUMP. DRAINAGE OF TRENCHED FOOTINGS	1.5.4.1.2.	DEFLECTION BY A QUAL LONG DIRECTION, SPEC LATERAL DEFLECTION O
1.2.3. 1.2.3.1.	PRESERVED WOOD FOUNDATIONS. END CUT PRESERVATIVE THE PRESERVATIVE USED FOR FIELD TREATING CUT ENDS OF LUMBER SHALL BE IN	1.3.5.1.	THE GRANULAR DRAINAGE LAYER IN TRENCHED FOOTINGS (SEE FIGURE A.6) SHALL BE DRAINED WHEN ACCUMULATION OF WATER IN THE TRENCH MAY RESULT IN FROST DAMAGE (LIFTING) OF THE SUPPORTED STRUCTURE, IN UNACCEPTABLE WETTING OF DRY EXPANSIVE	1.5.4.1.3.	BASEMENTS. WHERE EX SHOULD BE DESIGNED E ALL WALL SHEATHING P WIDER FRAMING. SHEAT
1.3. 1.3.1.	ACCORDANCE WITH CSA 080.3. UNTREATED MATERIALS LUMBER, PLYWOOD, AND OTHER WOOD BASED MATERIALS USED IN THE FOLLOWING		SOILS (SEE TABLE 2), OR IN EXCESSIVE HUMIDITY IN ENCLOSED CRAWL SPACES AND BELOW FLOORS.		SPACE NAILS AT 300 MM STAPLES ARE NOT CONS OPENINGS ARE NOT PER
1.3.1.1.	LOCATIONS NEED NOT BE TREATED: THOSE PORTIONS OF EXTERIOR WALLS WHICH WILL BE MORE THAN 200mm (8") ABOVE THE ADJACENT EXTERIOR FINISHED GRADE AFTER LANDSCAPING; FLOOR STRUCTURES MORE THAN 300mm (12") ABOVE THE GRANULAR DRAINAGE LAYER OR	PERM	ANENT WOOD FOUNDATIONS - FOOTINGS - S406-2014:	1.6. 1.6.1.	FOUNDATION COLUMNS COLUMNS SUPPORTING PART OF THE EXTERIOR
1.3.1.3.	INTERIOR GROUND LEVEL OF A VENTILATED CRAWL SPACE; AND INTERIOR COLUMNS AND PARTITIONS ABOVE A WOOD SLEEPER OR SUSPENDED WOOD FLOOR OR ABOVE A CONCRETE SLAB FLOOR WHEN SEPARATED FROM THE CONCRETE BY A	1. 1.1.	FOOTINGS ALL FOOTINGS FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE	1.7.	CONFORMANCE WITH CO COLUMN FOOTINGS SHA INTERIOR LOADBEARING IN ADDITION TO THE RE
1.4. 1.4.1.	DAMPPROOFING MATERIAL. LUMBER SOFTWOOD LUMBER USED IN THE EXTERIOR WALL AS STUDS OR AS HORIZONTAL STRUCTURAL	1.2.	REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14. GENERAL		THE APPROPRIATE BUIL PLATES (SEE FIGURE A.1 CONFORMING TO CLAUS
	FRAMING RESISTING LATERAL SOIL LOADS SHALL BE NO. 2 GRADE OR BETTER, GRADED IN ACCORDANCE WITH NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER; SHALL BE GRADE STAMPED, AND SHALL CONFORM TO CSA 0141. THE SPECIES SHOWN IN TABLE 1 SHALL BE USED WHERE TREATMENT IS REQUIRED IN ACCORDANCE WITH "TREATED MATERIALS"	1.2.1.	ALL FOUNDATION WALLS AND LOAD BEARING COLUMNS SHALL BE SUPPORTED ON FOOTINGS. EXCEPT AS PERMITTED IN CLAUSE 8.3 FOR WOOD COLUMN FOOTINGS AND CLAUSE 8.4 FOR CONCRETE FOOTINGS, ALL FOOTINGS SHALL BE PLACED ON A CONTINUOUS GRANULAR DRAINAGE LAVER HAVING A MINIMUM DEPTH BELOW THE FOOTING IN ACCORDANCE WITH	1.8. 1.8.1. 1.8.1.1.	WOOD SLEEPER FLOORS GENERAL WOOD SLEEPER FLOORS
1.5.	ABOVE. NOTE: BLOCKING MEMBERS CUT FROM FULL LENGTH TREATED MATERIAL REQUIRE END CUT TREATMENT BUT DO NOT REQUIRE A GRADE STAMP. PLYWOOD SHEATHING	1.2.2.	TABLES 3A AND 3B. NOTE: SEE ALSO CLAUSE 7 AND THE FIGURES IN ANNEX A. WHERE EXCAVATION DETAILS REQUIRE THE FOUNDATION FOOTING TO BE DISCONTINUOUS, A BEAM MEETING THE REQUIREMENTS OF THE APPROPRIATE BUILDING CODE SHALL BE USED		INWARD MOVEMENT OF CONFORM TO THE MININ APPROPRIATE BUILDING 9.7.3. THE CLEAR DISTA
1.5.1.	EXTERIOR WALL SHEATHING AND PRESERVATIVE TREATED SUBFLOOR SHALL BE UNSANDED EXTERIOR TYPE PLYWOOD HAVING AT LEAST FOUR PLIES AND SHALL BE LIMITED TO THE FOLLOWING SPECIES: WESTERN HEMLOCK, AMABILIS FIR, GRAND FIR, AND COAST DOUGLAS		TO DISTRIBUTE VERTICAL STRUCTURE LOADS TO FOOTINGS AT EITHER SIDE OF ANY HORIZONTAL GAP EXCEEDING 1200 MM (4 FT) IN LENGTH. NOTE: THE BEAM SPANNING THE GAP MAY BE A BUILT-UP LINTEL, A PLYWOOD WEB BEAM, OR OTHER (SEE FIGURES A.7 AND	1.8.2. 1.8.2.1.	BE USED AS THE SPAN I SUPPORT FOR SIDE WAL EXCEPT AS PERMITTED E
1.5.1.1. 1.5.1.2.	FIR. ALL SUCH PLYWOOD SHALL BEAR MARKINGS IDENTIFYING IT AS "HEM-FIR" PLYWOOD, AND SHALL BE PLYWOOD MANUFACTURED IN ACCORDANCE WITH CSA 0121; OR PLYWOOD MANUFACTURED IN ACCORDANCE WITH CSA 0151.	1.3. 1.3.1.	A.8). WOOD FOOTING PLATES FOR WALLS WOOD FOOTING PLATE SIZES SHOWN IN TABLES 3A AND 3B MAY BE USED WHERE THE DESIGN ASSUMPTIONS OF CLAUSE 4.3 APPLY.		FOUNDATION WALLS SH STUDS AND BE BUTTED TOE-NAILED TO EACH SI
1.5.1.2. 1.6. 1.6.1. 1.6.1.1.	FASTENERS NAILS NAILS FOR FASTENING TREATED MATERIAL WHICH IS USED EITHER ABOVE OR BELOW GRADE	1.3.2.	FOOTING PLATES CONSISTING OF A SINGLE WOOD MEMBER SHALL EXTEND BEYOND THE WIDTH OF THE BOTTOM WALL PLATE TO PROVIDE A SEAT FOR THE SHEATHING BUT SHALL PROJECT NO MORE THAN 50mm (2") ON EITHER SIDE. NOTE: COMPOSITE FOOTING PLATES	1.8.2.2.	FULL DEPTH BLOCKING I BETWEEN FLOOR AND W JOISTS PERPENDICULAR STUDS PROVIDED THAT
	SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL CONFORMING TO CSA B111. NAIL SIZES AND DIMENSIONS SHALL CONFORM TO CSA B111 FOR COMMON ROUND WIRE NAILS AND FOR SPIRAL NAILS.		CONSISTING OF ONE WOOD FOOTING PLATE, OR TWO WOOD FOOTING PLATES PLACED EDGE TO EDGE, REINFORCED ON THE BOTTOM FACE BY PLYWOOD AT LEAST 12.5mm (1/2") THICK AND PLACED WITH THE FACE GRAIN PERPENDICULAR TO THE WALL MAY BE USED IN LIEU OF	1.8.2.3. 1.8.2.3.1.	JOIST ENDS IS USED TO SUPPORT FOR END WALL WHEN JOISTS ARE PARA
1.6.2. 1.6.2.1.	STAPLES STAPLES SHALL BE STAINLESS STEEL CONFORMING TO AMERICAN IRON AND STEEL INSTITUTE TYPE 304 OR 316 AND HAVE A MINIMUM DIAMETER OR THICKNESS OF 1.6 MM (1/16 IN) WITH	1.3.3.	SINGLE FOOTING PLATES. ALL FOOTING PLATES SHALL EXTEND BEYOND THE WIDTH OF THE BOTTOM WALL PLATE TO PROVIDE A SEAT FOR THE SHEATHING. WHEN A KNEE WALL IS USED TO SUPPORT MASONRY VENEER, THE KNEE WALL AND MAIN FOUNDATION WALL SHALL BOTH BE SUPPORTED ON A FOOTING OR FOOTINGS.	1.9. 1.9.1.	PROVIDED WITH SPECIA CONCRETE SLAB FLOOR GENERAL
1.6.3. 1.6.3.1.	A 9.5 MM (3/8 IN) CROWN. FRAMING ANCHORS AND STRAPS FRAMING ANCHORS AND STRAPS IN CONTACT WITH TREATED MATERIALS SHALL BE GALVANIZED TO CONFORM TO ASTM A653/A653M. NAILS FOR USE WITH FRAMING ANCHORS	1.3.4.	EXCEPT AS REQUIRED IN CLAUSE 8.2.4, WOOD FOOTING PLATES SHALL BE BUTTED TOGETHER AT THE ENDS AND PLACED DIRECTLY ON THE GRANULAR DRAINAGE LAYER. THEY MAY EXTEND BEYOND THE LINE OF THE WALL AT CORNERS AS SHOWN IN FIGURE A.2, BUT IF	1.9.1.1.	CONCRETE SLAB FLOORS EXCLUSIVE OF CONCRET OF THE APPROPRIATE BU SUPPORT FOR SIDE AND
1.7.	AND STRAPS SHALL CONFORM TO THE MANUFACTURER'S REQUIREMENTS AND TO THE ABOVE REQUIREMENTS FOR "NAILS". SEALANTS AND DAMPPROOFING	1.3.5.	PLATES MUST BE CUT TO LENGTH ON THE JOB SITE, THEY SHALL BE TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 6.1. WHERE FOOTINGS ARE REQUIRED TO BE STEPPED (DISCONTINUOUS) DUE TO ELEVATION	1.9.2.1.	CONCRETE SLAB FLOOR BOTTOM PLATE (SEE FIG
	SEALANTS SEALANTS SHALL BE A NON-HARDENING TYPE SUITABLE FOR EXTERIOR USE; CELECTED FOR THEIR ADDITION TO DESIGN THE EFFECT OF WEATHERING, AND	1.3.6.	CHANGES IN THE FOUNDATION, ANY ADDITIONAL CONCENTRATED VERTICAL LOADS (SEE CLAUSE 8.1.1) SHALL BE SUPPORTED BY COLUMN FOOTINGS SIZED TO CARRY THE ADDITIONAL LOADS. BOTTOM WALL PLATES SHALL BE NAILED TO WOOD FOOTING PLATES IN ACCORDANCE WITH		
1.7.1.1.3. 1.7.1.2.	SELECTED FOR THEIR ABILITY TO RESIST THE EFFECTS OF WEATHERING; AND COMPATIBLE WITH AND ADHERE TO THE SUBSTRATE TO WHICH THEY ARE APPLIED. SEALANTS SHALL CONFORM TO ASTM C834;	1.4.	THE PROVISIONS OF TABLE 7. JOINTS IN THE BOTTOM WALL PLATE SHALL BE OFFSET A MINIMUM OF 600mm (24") FROM ADJACENT JOINTS IN THE FOOTING PLATE. WOOD FOOTINGS FOR COLUMNS		
1.7.1.2.2. 1.7.1.2.3.	ASTM C920; ASTM C1184; OR ASTM C1311.	1.4.1.	FOUNDATION COLUMNS MAY BE SUPPORTED ON WOOD FOOTINGS. THE WOOD MEMBERS SHALL BE NAIL LAMINATED TOGETHER BY NOT LESS THAN 76mm (3") NAILS SPACED AT MAXIMUM 225mm (9") ON CENTRE AND WITH NAILS AT MEMBER ENDS LOCATED BETWEEN		
1.7.1.3. 1.7.2. 1.7.2.1.	BACKER ROD SHALL CONFORM TO ASTM C1330. DAMPPROOFING MATERIALS INSTALLED TO PROVIDE THE REQUIRED DAMPPROOFING SHALL	1.4.1.1.	100mm AND 150mm (4" AND 6") FROM THE ENDS. THE APPROPRIATE TYPE OF WOOD FOOTING MAY BE SELECTED IN ACCORDANCE WITH TABLE 4 AND FIGURE A.9. NOTES: FULL BEARING TRANSFER IS NECESSARY ACROSS THE WIDTH OF THE FOOTING AT THE BASE		
1.7.2.1.2.	POSSESS THE CHARACTERISTICS NECESSARY TO PROVIDE PROTECTION FROM MOISTURE TRANSFER FROM THE GROUND; BE COMPATIBLE WITH ADJACENT MATERIALS; AND BE RESISTANT TO DAMAGE AND DETERIORATION IN THEIR SERVICE ENVIRONMENT.		OF THE COLUMN (SEE FIGURE A.9). WOOD COLUMN FOOTINGS MAY BEAR ON UNDISTURBED SOIL, OR THEY MAY REST ON A GRANULAR DRAINAGE LAYER OR A THIN LAYER OF SAND OR GRAVEL AS SHOWN IN FIGURES		
1.7.2.2. 1.7.2.2.1.	MATERIALS USED FOR EXTERIOR DAMPPROOFING SHALL BE A VAPOUR-RESISTANT COATING HAVING A WATER VAPOUR PERMEANCE OF NOT MORE THAN 43 NG/PASM2, WHEN TESTED ACCORDING TO PROCEDURE A OF ASTM E96/E96M;	1.5. 1.5.1.	A.9 AND A.10. CONCRETE FOOTINGS CONCRETE FOOTINGS SUPPORTING WALLS OR COLUMNS SHALL BE SIZED AND CONSTRUCTED		
1.7.2.2.3. 1.7.2.2.4.	BE A COLD-FLUID APPLIED OR HOT RUBBERIZED BITUMINOUS DAMPPROOFING MEMBRANES; BE A LIQUID APPLIED OR SPRAY-APPLIED ASPHALT BASED EMULSION DAMPPROOFING; BE A TYPE III HOT APPLIED ASPHALT; OR	1.5.2.	IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE. EXCEPT AS PROVIDED IN CLAUSES 7.2.4 AND 8.4.3, CONCRETE FOOTINGS SHALL BE PLACED ON A GRANULAR DRAINAGE LAYER.		
1.7.2.2.5.1. 1.7.2.2.5.2.	CONFORM TO ASTM D1227 TYPE III, CLASS I; ASTM D4479/D4479M TYPE III; CAN/CGSB-51.34-M; OR	1.5.3.	WHERE A CONCRETE FOOTING IS NOT PLACED ON A GRANULAR DRAINAGE LAYER, DRAINAGE THROUGH THE FOOTINGS SHALL BE PROVIDED BY MEANS OF WATER PASSAGES HAVING A MINIMAL SECTIONAL AREA OF 2500mm ² (4inch ²) AT A MAXIMUM SPACING OF 1200mm (4'-0") AS SHOWN IN FIGURE A.5.		
	CAN/CSA-A123.4. OTHER COMPOUNDS OTHER SEALANTS OR DAMPPROOFING MAY BE USED PROVIDED THEY ARE COMPATIBLE WITH	1.5.4.	THE BOTTOM WALL PLATE OF EXTERIOR WALLS NEED NOT BE FASTENED TO THE CONCRETE FOOTING. IF THE WALL PLATE IS TO BE FASTENED TO THE CONCRETE, HOLES SHALL NOT BE DRILLED IN THE PLATE TO ACCOMMODATE THE FASTENER. LATERAL RESISTANCE TO INWARD		
1.8.	THE PRESERVATIVE-TREATED LUMBER AND SHEATHING, AS WELL AS THE MOISTURE BARRIER USED ON THE EXTERIOR OF THE PRESERVED WOOD FOUNDATION. MOISTURE AND VAPOUR BARRIERS		SOIL PRESSURE AT THE BOTTOM OF THE EXTERIOR WALL SHALL BE PROVIDED IN ACCORDANCE WITH CLAUSES 4.5.2, 9.7.2, 9.7.3, 9.8.1, AND 9.8.2.		
1.8.1. 1.9. 1.9.1.	MOISTURE AND VAPOUR BARRIERS SHALL CONFORM TO PART 9 OF THE NATIONAL BUILDING CODE. MANUFACTURED DRAINAGE LAYERS WHEN USED IN COMBINATION WITH THE SHEET MOISTURE BARRIER, THE MANUFACTURED				
1.9.1.	DRAINAGE LAYER SHALL PROVIDE A CAPILLARY BREAK BETWEEN THE SOIL AND THE PLYWOOD. NOTE: MANUFACTURED DRAINAGE LAYERS SHOULD BE CERTIFIED BY AN APPROPRIATE CERTIFICATION ORGANIZATION.				
	SUBFLOORING SUBFLOORING SHALL CONFORM TO ONE OF THE FOLLOWING STANDARDS: CAN/CSA 0121;				
1.10.1.3. 1.10.1.4.	CAN/CSA 0141; CAN/CSA 0151; CAN/CSA 0153; OR CAN/CSA 0325				
1.11. 1.11.1.	CAN/CSA 0325 GRANULAR DRAINAGE LAYER NEW MATERIAL GRANULAR MATERIAL FOR USE IN THE GRANULAR DRAINAGE LAYER BENEATH A PRESERVED				
	WOOD FOUNDATION SHALL CONSIST OF CLEAN CRUSHED STONE OR CLEAN GRAVEL WHICH WILL PASS THROUGH A 40mm (1-1/2") SIEVE AND CONTAIN NOT MORE THAN 10% OF FINE MATERIAL THAT WILL PASS A 4mm (0.15") SIEVE.				
1.11.2. 1.11.2.1.	NATIVE SOIL WHERE THE EXISTING NATIVE SOIL IS AS PERMEABLE AS THE GRANULAR DRAINAGE MATERIAL SPECIFIED ABOVE, SUCH SOIL MAY BE DEEMED TO SATISFY THE REQUIREMENTS OF CAN/CSA-5406-2015 CLAUSES 5.10.1 AND 7.2.1. SUCH SOIL SHALL ALSO MEET THE				
1.12.	CAN/CSA-S406-2015 CLAUSES 5.10.1 AND 7.2.1. SUCH SOIL SHALL ALSO MEET THE REQUIREMENT OF CAN/CSA-S406-2015 CLAUSE 4.3(B) OR THE FOOTINGS SHALL BE DESIGNED TO ACCOUNT FOR THE APPROPRIATE LOWER SOIL BEARING CAPACITY. BACKFILL				
1.12.1.	NATIVE SOILS AS PERMEABLE AS THE GRANULAR DRAINAGE MATERIAL SPECIFIED IN CAN/CSA-S406-2015 CLAUSE 5.9.1 MAY BE USED AS BACKFILL MATERIAL WHEN THE BACKFILL MUST BE DRAINED. ALL BACKFILL MATERIAL PLACED WITHIN 600mm (24") OF THE				
1 1 3	FOUNDATION WALLS SHALL BE FREE OF DELETERIOUS DEBRIS, FROZEN CLUMPS, AND BOULDERS LARGER THAN 150mm (6") IN DIAMETER. NOTE: SEE ALSO CAN/CSA-S406-2015 CLAUSE 15.				
1.13. 1.13.1.	MANUFACTURED DRAINAGE LAYERS A MANUFACTURED DRAINAGE LAYER SHALL BE A DURABLE COMPOSITE BOARD OR MAT WITH A VERTICAL WATER PERMEABILITY AT LEAST EQUAL TO COARSE, CLEAN SAND AND SHALL BE PROTECTED FROM INFILTRATION OF SOIL PARTICLES FINER THAN FINE SAND.				
1.14. 1.14.1.	SOIL GAS PROTECTION CONSTRUCTION SHALL CONFORM TO SOIL GAS CONTROL PROVISIONS OF THE APPLICABLE BUILDING CODE. NOTE: IN THE ABSENCE OF LOCAL REQUIREMENTS, REFER TO PART 9 OF THE NATIONAL BUILDING CODE OF CANADA.				

T WOOD FOUNDATIONS - EXTERIOR WALLS WITH EEPER OR CONCRETE SLAB FLOOR - S406-2014:	PER SUS
ERIOR WALLS WITH WOOD SLEEPER OR CONCRETE SLAB FLOOR EXTERIOR WALLS WITH WOOD SLEEPER OR CONCRETE SLAB FLOOR FOR PERMANENT OD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) OW ARE AS FOUND IN CSA-S406-14.	1. 1.1.
LL STUDS KFILL HEIGHTS FOR STUDS IN EXTERIOR WALLS OF FOUNDATIONS WITH WOOD SLEEPER CONCRETE SLAB FLOORS SHALL NOT EXCEED THE VALUES IN TABLES 5A TO 5L.	1.2. 1.2.1. 1.2.1.
MING AROUND WALL OPENINGS (SEE FIGURE A.11) ERE THE HEIGHT OF BACKFILL IS 1200 MM (4 FT) OR LESS, FRAMING AND FASTENING DUND WALL OPENINGS MAY CONFORM TO THE APPROPRIATE BUILDING CODE. WHERE THE GHT OF BACKFILL IS GREATER THAN 1200 MM (4 FT), SUCH FRAMING AND FASTENING	1.2.2. 1.2.2.
ALL CONFORM TO CLAUSES 9.2.2 TO 9.2.8. ERE LINTELS ARE LOCATED BELOW THE WALL TOP PLATE THEY SHALL BE NAILED TO ACENT MEMBERS WITH A DOUBLE ROW OF 76 MM (3 IN) NAILS, SPACED NOT MORE THAN MM (18 IN) APART IN EACH ROW WITH THE END NAILS LOCATED 100 MM TO 150 MM (4 6 IN) FROM THE END OF THE MEMBER.	1.3. 1.3.1.
THE BUILT-UP FLOOR HEADER JOISTS MAY ACT AS REQUIRED LINTELS PROVIDED ALL IBERS COMPLETELY SPAN THE OPENING. IH MEMBER OF LINTELS SHALL BE FASTENED TO THE ADJACENT WALL TOP PLATE WITH 76 (3 IN) NAILS SPACED 150 MM (6 IN) OC. DOUBLE TOP PLATES SHALL BE USED OVER ALL LOPENINGS.	1.3.2.
K STUDS AND ADJACENT WALL STUDS SHALL BE FASTENED TOGETHER BY TWO ROWS OF MM (3 IN) NAILS SPACED 300 MM (12 IN) OC. MING STRAPS OR FRAMING ANCHORS SHALL BE PROVIDED AT THE CONNECTION BETWEEN : SILLS, JACK STUDS, LINTELS, AND CRIPPLE STUDS.	1.3.3.
SIZE AND SPACING OF CRIPPLES LOCATED BELOW THE SILL IN A WALL OPENING SHALL THE SAME AS SPECIFIED FOR THE WALL STUDS FOR THE BACKFILL ANTICIPATED. FOR ININGS OF 1200 MM (4 FT) OR LESS IN WIDTH, THERE SHALL BE A MINIMUM OF TWO	1.3.4. 1.3.5.
IDS AT BOTH SIDES OF THE OPENING. WHERE REQUIRED TO SUPPORT THE END OF A TEL, ON ONLY OF THE TWO STUDS MAY BE A JACK STUD. FOR OPENINGS, BETWEEN 1200	1.3.6.
2 2400 MM (4 AND 8 FT) IN WIDTH, STUD REQUIREMENTS SHALL BE AS SPECIFIED IN URE A.11. L LAMINATED WOOD SILLS SHALL CONFORM TO FIGURE A.11. COPENINGS WIDER THAN 2400 MM (8 FT), THE DESIGN SHALL BE DETERMINED IN	
CORDANCE WITH CLAUSE 4.4. LL SHEATHING IMUM THICKNESS OF PLYWOOD SHEATHING SHALL CONFORM TO TABLE 6.	1.3.7.
EDGES OF FOUNDATION SHEATHING PANELS THAT OCCUR BELOW THE EXTERIOR ISHED GRADE LEVEL SHALL BE SUPPORTED EITHER BY FRAMING MEMBERS, BY 38 × 89 MM < 4 IN) WOOD BLOCKING SECURELY FASTENED TO SHALL BE EMBEDDED IN A SEALANT.	1.3.8.
EPARATION OF 2 TO 3 MM (ABOUT 1/10 IN) SHALL BE MAINTAINED BETWEEN ADJACENT ETS OF PLYWOOD (SEE CLAUSE 15). GAPS AROUND EDGES OF ALL FOUNDATION SHEATHING PANELS THAT OCCUR BELOW THE ERIOR FINISHED GRADE LEVEL SHALL BE SEALED WITH A SEALANT CONFORMING TO USE 5.6.	1.4.1. 1.4.2.
TENINGS LING	1.4.3.
EPT AS PROVIDED IN CLAUSE 9.4.4, NAILING SHALL CONFORM TO THE MINIMUM UIREMENTS OF TABLE 7, IN ADDITION TO THE SPECIFIC REQUIREMENTS OF CLAUSES 3, 9.7, 12.3, 12.4, AND OF THE APPROPRIATE BUILDING CODE.	1.4.4.
.PLING ERE BACKFILL HEIGHT IS UNIFORM, STAPLES MAY BE USED IN CONFORMANCE TO TABLE 7 MING ANCHORS AND STRAPS EN REQUIRED BY CLAUSE 12 TO PROVIDE POSITIVE LOAD TRANSFER TO THE MAIN FLOOR ST SYSTEM FROM THE WALL STUDS AND BY CLAUSE 9.2 FOR FRAMING AROUND WALL	. 1.5. 1.5.1. 1.5.1.
CKNESS GALVANIZED STEAL OF APPROPRIATE LENGTH, AND FRAMING ANCHORS SHALL CKNESS GALVANIZED STEEL OF APPROPRIATE LENGTH, AND FRAMING ANCHORS SHALL (E A MINIMUM SPECIFIED LOAD CAPACITY OF 2 KN (450 LB). NOTE: STRAPS USED TO	1.5.2.
A MINIMUM SPECIFIED LOAD CAPACITY OF 2 KN (450 LB). NOTE: STRAPS USED TO INECT THE WALL STUD TO THE MAIN FLOOR SHOULD BE AT LEAST 600 MM (24 IN) IN GTH. SEE TABLE 7, AND FIGURES A.19 AND A.20 FOR ILLUSTRATIONS. LING WHEN BACKFILL HEIGHT IS NOT UNIFORM RECTANGULAR PRESERVED WOOD FOUNDATIONS HAVING A DIFFERENCE IN BACKFILL GHT ON OPPOSITE WALLS, THE WALLS THAT ARE PERPENDICULAR TO THESE OPPOSITE LLS SHALL HAVE SHEATHING-TO-FRAMING NAIL SPACING CONFORMING TO TABLES 8A TO OR THE FOUNDATION SHALL BE DESIGNED TO PROVIDE THE REQUIRED RACKING ISTANCE. NOTES:	1.5.2. 1.5.3. 1.5.3.
ERE STAIRWAY OPENINGS OCCUR IN CRITICAL LOCATIONS, FLOORS SHOULD BE CHECKED ERE STAIRWAY OPENINGS OCCUR IN CRITICAL LOCATIONS, FLOORS SHOULD BE CHECKED OIAPHRAGM DEFLECTION. FLOORS HAVING LENGTHS GREATER THAN 15 M (50 FT), OR GTH-TO-WIDTH RATIOS EXCEEDING 4:1 SHOULD ALSO BE CHECKED FOR DIAPHRAGM LECTION BY A QUALIFIED STRUCTURAL ENGINEER. WHERE JOISTS RUN PARALLEL TO THE IG DIRECTION, SPECIAL CARE MAY BE NECESSARY TO AVOID DIAPHRAGM DEFLECTION. ERAL DEFLECTION OF THE FLOOR GENERALLY IS SIGNIFICANT ONLY WITH "WALKOUT" IEMENTS. WHERE EXCESSIVE DEFLECTION MAY OCCUR, INTERIOR BASEMENT PARTITIONS	1.5.4. 1.5.4.
DULD BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER AS SHEAR WALLS. WALL SHEATHING PANEL EDGES ARE REQUIRED TO BE BACKED WITH 38 MM (2 IN) OR DER FRAMING. SHEATHING MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY. CE NAILS AT 300 MM (12 IN) ON THE CENTRE ALONG INTERMEDIATE FRAMING MEMBERS.	1.5.4.
PLES ARE NOT CONSIDERED TO BE ADEQUATE FOR THE PURPOSES OF THIS CLAUSE. NINGS ARE NOT PERMITTED IN RACKING WALLS CONFORMING TO TABLES 8A TO 8E. NDATION COLUMNS	1.5.4.
LUMNS SUPPORTING FLOOR BEAMS IN THE INTERIOR OF THE STRUCTURE, OR FORMING T OF THE EXTERIOR FOUNDATION WALL (SEE FIGURE A.10), SHALL BE CONSTRUCTED IN IFORMANCE WITH COLUMN REQUIREMENTS IN THE APPROPRIATE BUILDING CODE. LUMN FOOTINGS SHALL CONFORM TO CLAUSE 8.3 OR TO CLAUSE 8.4, AS APPLICABLE.	1.5.4.
ERIOR LOADBEARING WALLS ADDITION TO THE REQUIREMENTS FOR INTERIOR LOADBEARING WOOD FRAME WALLS IN E APPROPRIATE BUILDING CODE, SUCH WALLS SHALL BE SUPPORTED BY WOOD FOOTING TES (SEE FIGURE A.13) CONFORMING TO CLAUSE 8.2 OR BY CONCRETE FOOTINGS NFORMING TO CLAUSE 8.4. OD SLEEPER FLOORS	1.5.4. 1.5.4. 1.6. 1.6.1.
IERAL OD SLEEPER FLOORS (SEE FIGURE A.14) SHALL BE CONSTRUCTED TO PREVENT THE /ARD MOVEMENT OF EXTERIOR WALLS DUE TO LATERAL PRESSURE. CONSTRUCTION SHALL	1.7. 1.7.1.
IFORM TO THE MINIMUM REQUIREMENTS FOR WOOD FRAME CONSTRUCTION IN THE ROPRIATE BUILDING CODE AND THE ADDITIONAL REQUIREMENTS OF CLAUSES 9.7.2 AND 3. THE CLEAR DISTANCE BETWEEN WOOD SLEEPERS SUPPORTING THE FLOOR JOISTS MAY JSED AS THE SPAN IN DETERMINING THE SIZE REQUIREMENTS FOR THE JOISTS. PORT FOR SIDE WALL	1.8. 1.8.1. 1.8.1.
EPT AS PERMITTED BY CLAUSE 9.7.2.2, JOISTS PERPENDICULAR TO THE EXTERIOR INDATION WALLS SHALL BE PLACED DIRECTLY IN LINE WITH THE FOUNDATION WALL IDS AND BE BUTTED TOGETHER IN LINE OVER THE WOOD SLEEPERS. JOISTS SHALL BE E-NAILED TO EACH SUPPORTING SLEEPER USING TWO 76 MM (3 IN) NAILS. RIM JOISTS OR L DEPTH BLOCKING BETWEEN STUDS SHALL BE USED TO PROVIDE FIRE STOPPING WEEN FLOOR AND WALL CAVITIES.	1.8.1.
STS PERPENDICULAR TO THE EXTERIOR FOUNDATION WALL MAY BE LOCATED BETWEEN IDS PROVIDED THAT A RIM JOIST OF EQUIVALENT DEPTH NAILED TO BOTH STUDS AND ST ENDS IS USED TO TRANSFER LATERAL WALL LOADS TO THE FLOOR SYSTEM. PORT FOR END WALL	1.8.2. 1.8.2.
EN JOISTS ARE PARALLEL TO THE EXTERIOR FOUNDATION WALL, THE WALL SHALL BE IVIDED WITH SPECIAL SUPPORT (SEE FIGURE A.14, DETAIL B) AS REQUIRED IN TABLE 9. INCRETE SLAB FLOORS IERAL	1.8.2.
NCRETE SLAB FLOORS (SEE FIGURE A.15) SHALL BE NOT LESS THAN 75 MM (3 IN) THICK CLUSIVE OF CONCRETE TOPPING. THEY SHALL BE INSTALLED TO MEET THE REQUIREMENTS THE APPROPRIATE BUILDING CODE AND OF CLAUSES 9.8.2 AND 9.8.3. PORT FOR SIDE AND END WALLS	1.8.3.
NCRETE SLAB FLOORS SHALL EXTEND AT LEAST 25 MM (1 IN) ABOVE THE TOP OF THE TOM PLATE (SEE FIGURE A.15).	1.8.3.

	NENT WOOD FOUNDATIONS - EXTERIOR WALLS WITH
<u> 505PE</u>	NDED WOOD FLOOR - S406-2014:
1. 1.1.	EXTERIOR WALLS WITH SUSPENDED WOOD FLOOR ALL EXTERIOR WALLS WITH SUSPENDED WOOD FLOORS FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14.
1.2. 1.2.1. 1.2.1.1.	WALL STUDS BACKFILL HEIGHTS BACKFILL HEIGHTS FOR STUDS IN EXTERIOR WALLS WITH SUSPENDED WOOD FLOORS (S FIGURES A.16, A.17, AND A.18) SHALL NOT EXCEED THE VALUES IN TABLES 10A TO 10L.
1.2.2. 1.2.2.1.	DRAFT AND FIRESTOPPING WHERE THE SUSPENDED WOOD FLOOR MEETS THE EXTERIOR WALL, OPENINGS WITHIN S SPACES SHALL BE FIRE STOPPED BY MEANS OF 38 MM (2 IN) THICK WOOD BLOCKING OF
1.3. 1.3.1.	STUD WIDTH AT THE LEVEL OF THE SUBFLOOR AS SHOWN IN FIGURES A.16, A.17, AND A. FRAMING AROUND WALL OPENINGS WHERE THE HEIGHT OF BACKFILL IS 2000 MM (6 FT 8 IN) OR LESS, FRAMING AND FASTENINGS AROUND WALL OPENINGS MAY CONFORM TO THE APPROPRIATE BUILDING CO
1.3.2.	WHERE THE HEIGHT OF BACKFILL IS GREATER THAN 2000 MM (6 FT 8 IN), SUCH FRAMING AND FASTENING SHALL CONFORM TO CLAUSES 10.2.1 TO 10.2.4. LINTELS SHALL BE NAILED TO ADJACENT MEMBERS WITH A DOUBLE ROW OF 76 MM (3 IN NAILS, SPACED NOT MORE THAN 450 MM (18 IN) APART IN EACH ROW WITH THE END NAI LOCATED 100 MM TO 150 MM (4 TO 6 IN) FROM THE END OF THE MEMBER STUDS. NOTE: BUILT-UP FLOOR HEADER JOISTS MAY ACT AS REQUIRED LINTELS PROVIDED ALL MEMBER
1.3.3.	COMPLETELY SPAN THE OPENING. EACH LINTEL MEMBER SHALL BE FASTENED TO THE ADJACENT WALL TOP PLATE WITH 76 M (3 IN) NAILS SPACED 150 MM (6 IN) OC. DOUBLE TOP PLATES SHALL BE USED OVER ALL V
1.3.4.	OPENINGS. JACK STUDS AND ADJACENT WALL STUDS SHALL BE FASTENED TOGETHER BY TWO ROWS 76 MM (3 IN) NAILS SPACED 300 MM (12 IN) OC.
1.3.5. 1.3.6.	FRAMING STRAPS OR FRAMING ANCHORS SHALL BE PROVIDED AT THE CONNECTION BETV THE SILLS, JACK STUDS, LINTELS, AND CRIPPLE STUDS. THE SIZE AND SPACING OF CRIPPLES LOCATED BELOW THE SILL IN A WALL OPENING SHA
	BE THE SAME AS SPECIFIED FOR THE WALL STUDS FOR THE BACKFILL ANTICIPATED. FOR OPENINGS OF 1200 MM (4 FT) OR LESS IN WIDTH, THERE SHALL BE A MINIMUM OF TWO STUDS AT BOTH SIDES OF THE OPENING. WHERE REQUIRED TO SUPPORT THE END OF A LINTEL, ON ONLY OF THE TWO STUDS MAY BE A JACK STUD. FOR OPENINGS, BETWEEN 12 AND 2400 MM (4 AND 8 FT) IN WIDTH STUD REQUIREMENTS SHALL BE AS SPECIFIED IN FIGURE A.11.
1.3.7. 1.3.8. 1.4.	NAIL LAMINATED WOOD SILLS SHALL CONFORM TO FIGURE A.11. FOR OPENINGS WIDER THAN 2400 MM (8 FT), THE DESIGN SHALL BE DETERMINED IN ACCORDANCE WITH CLAUSE 4.4. WALL SHEATHING
1.4. 1.4.1. 1.4.2.	WALL SHEATHING MINITUM THICKNESS OF PLYWOOD SHEATHING SHALL CONFORM TO TABLE 6. ALL EDGES OF FOUNDATION SHEATHING PANELS THAT OCCUR BELOW THE EXTERIOR FINISHED GRADE LEVEL SHALL BE SUPPORTED EITHER BY FRAMING MEMBERS, BY FIRESTOPPING, BY 38 × 89 MM (2 × 4 IN) WOOD BLOCKING SECURELY FASTENED TO ADJACENT FRAMING MEMBERS (SEE FIGURE A.12), OR BY BOTTOM WALL PLATES. EDGES S SHEATHIN PANELS SHALL BE EMBEDDED IN A SEALANT.
1.4.3.	A SEPARATION OF FROM 2 TO 3 MM (ABOUT 1/10 IN) SHALL BE MAINTAINED BETWEEN ADJACENT SHEETS OF PLYWOOD (SEE CLAUSE 15).
1.4.4. 1.5.	ALL GAPS AROUND EDGES OF ALL FOUNDATION SHEATHING PANELS THAT OCCUR BELOW EXTERIOR FINISHED GRADE LEVEL SHALL BE SEALED WITH A SEALANT CONFORMING TO CLAUSE 5.6. FASTENINGS
1.5.1. 1.5.1.1.	NAILING EXCEPT AS PROVIDED IN CLAUSE 10.4.4, NAILING SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF TABLE 7, IN ADDITION TO THE SPECIFIC REQUIREMENTS OF CLAUSES 10.4.3, 10.7, 12.3, 12.4, AND OF THE APPROPRIATE BUILDING CODE.
1.5.2. 1.5.2.1.	STAPLING WHERE THE BACKFILL HEIGHT IS UNIFORM, STAPLES MAY BE USED IN CONFORMANCE TO TABLE 7.
1.5.3. 1.5.3.1. 1.5.4.	FRAMING ANCHORS AND STRAPS WHEN REQUIRED BY CLAUSE 12 TO PROVIDE POSITIVE LOAD TRANSFER TO THE MAIN FLC JOIST SYSTEM FROM THE WALL STUDS, OR BY CLAUSE 9.2 FOR FRAMING AROUND WALL OPENINGS, FRAMING STRAPS SHALL BE 35 MM (1-3/8 IN) BY MINIMUM 0.9 MM (24 GAUGE THICKNESS GALVANIZED STEEL OF APPROPRIATE LENGTH, AND FRAMING ANCHORS SHAL HAVE A MINIMUM LOAD CAPACITY OF 2 KN (450 LB). NOTE: STRAPS USED TO CONNECT TH WALL STUD TO THE MAIN FLOOR SHOULD BE AT LEAST 600 MM (24 IN) IN LENGTH. SEE TABLE 7 AND FIGURES A.19 AND A.20 FOR ILLUSTRATIONS. NAILING WHEN BACKFILL HEIGHT IS NOT UNIFORM
1.5.4.1.	FOR RECTANGULAR PRESERVED WOOD FOUNDATIONS HAVING A DIFFERENCE IN BACKFILL HEIGHT ON OPPOSITE WALLS, THE WALLS THAT ARE PERPENDICULAR TO THESE OPPOSITI WALLS SHALL HAVE SHEATHING-TO-FRAMING NAIL SPACING CONFORMING TO TABLES 8A 8E, OR THE FOUNDATION SHALL BE DESIGNED TO PROVIDE THE REQUIRED RACKING RESISTANCE. NOTES:
1.5.4.1.1.	WHERE STAIRWAY OPENINGS OCCUR IN CRITICAL LOCATIONS, FLOORS SHOULD BE CHEC FOR DIAPHRAGM DEFLECTION. FLOORS HAVING LENGTHS GREATER THAN 15 M (50 FT), O LENGTH-TO-WIDTH RATIOS EXCEEDING 4:1 SHOULD ALSO BE CHECKED FOR DIAPHRAGM DEFLECTION BY A QUALIFIED STRUCTURAL ENGINEER. WHERE JOISTS RUN PARALLEL TO LONG DIRECTION, SPECIAL CARE MAY BE NECESSARY TO AVOID DIAPHRAGM DEFLECTION
1.5.4.1.2. 1.5.4.1.3.	LATERAL DEFLECTION OF THE FLOOR GENERALLY IS SIGNIFICANT ONLY WITH "WALKOUT" BASEMENTS. WHERE EXCESSIVE DEFLECTION MAY OCCUR, INTERIOR BASEMENT PARTITIC SHOULD BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER AS SHEAR WALLS. ALL WALL SHEATHING PANEL EDGES ARE REQUIRED TO BE BACKED WITH 38 MM (2 IN) OI
1.5.4.1.4. 1.5.4.1.5.	WIDER FRAMING. SHEATHING CAN BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY SPACE NAILS AT 300 MM (12 IN) ON CENTRE ALONG INTERMEDIATE FRAMING MEMBERS. STAPLES ARE NOT CONSIDERED TO BE ADEQUATE FOR THE PURPOSES OF THIS CLAUSE. OPENINGS ARE NOT PERMITTED IN RACKING WALLS CONFORMING TO TABLES 8A TO 8E.
1.6. 1.6.1.	FOUNDATION COLUMNS COLUMNS SUPPORTING FLOOR BEAMS IN THE INTERIOR OF THE STRUCTURE, OR FORMING PART OF THE EXTERIOR FOUNDATION WALL, SHALL BE CONSTRUCTED IN CONFORMANCE WITH COLUMN REQUIREMENTS IN THE APPROPRIATE BUILDING CODE. COLUMN FOOTINGS
1.7. 1.7.1.	SHALL CONFORM TO EITHER CLAUSE 8.3 OR 8.4, AS APPLICABLE. INTERIOR LOADBEARING WALLS WHERE INTERIOR LOADBEARING WALLS ARE SUPPORTED ON TOP OF SUSPENDED WOOD FLOORS (SEE FIGURE A.16) THEY MAY BE CONSTRUCTED OF UNTREATED LUMBER.
1.8. 1.8.1. 1.8.1.1.	SUSPENDED WOOD FLOORS GENERAL SUSPENDED WOOD FLOORS SHALL BE CONSTRUCTED TO PREVENT THE INWARD MOVEMEI OF EXTERIOR WALLS DUE TO LATERAL PRESSURE. CONSTRUCTION SHALL CONFORM TO TI MINIMUM REQUIREMENTS FOR WOOD FRAME CONSTRUCTION IN THE APPROPRIATE BUILD
1.8.1.2.	CODE AND THE ADDITIONAL REQUIREMENTS OF CLAUSES 10.7.2 AND 10.7.3. USE OF APPROVED PARALLEL CHORD WOOD FLOOR TRUSSES OR I-JOISTS MAY BE USED I PLACE OF SOLID SAWN WOOD JOISTS PROVIDED THE TRUSSES OR I-JOISTS ARE INSTALL WITH ADEQUATE LATERAL BRACING AND BLOCKING TO RESTRAIN THE MEMBERS FROM TWISTING. THE PROVISIONS OF CLAUSES 10.7.2 AND 10.7.3, AND TABLE 9 SHALL APPLY.
1.8.2. 1.8.2.1.	SUPPORT FOR SIDE WALL EXCEPT AS PERMITTED BY CLAUSE 10.7.2.2, JOISTS PERPENDICULAR TO THE EXTERIOR FOUNDATION WALLS SHALL BE PLACED DIRECTLY IN LINE WITH THE FOUNDATION WALL STUDS AND BE BUTTED TOGETHER IN LINE OVER THE INTERIOR SUPPORT BEARING WALL JOISTS SHALL BE NAILED DIRECTLY TO THE INTERIOR SUPPORT BEARING WALL, AND SHA BE SUPPORTED AT THE EXTERIOR WALL BY A MINIMUM 38 × 140 MM (2 × 6 IN) LEDGER
1.8.2.2.	NAILED IN ACCORDANCE WITH TABLE 7. JOISTS PERPENDICULAR TO THE EXTERIOR FOUNDATION WALL MAY BE LOCATED BETWEE STUDS PROVIDED THAT A MINIMUM 38 × 140 MM (2 × 6 IN) RIM JOIST NAILED TO BOTH STUDS AND JOIST ENDS IS USED TO TRANSFER LATERAL WALL LOADS TO THE FLOOR SYSTEM.
1.8.3. 1.8.3.1.	SYSTEM. SUPPORT FOR END WALL WHEN JOISTS ARE PARALLEL TO THE EXTERIOR FOUNDATION WALL, THE WALL SHALL BE PROVIDED WITH SPECIAL SUPPORT (SEE FIGURES A.17 AND A.18) AS REQUIRED IN TABLE

PERMANENT WOOD FOUNDATIONS - EXTERIOR WALLS FOR CRAWLSPACE FOUNDATIONS - S406-2014:

EXTERIOR WALLS FOR CRAWL SPACE FOUNDATIONS (SEE FIGURE A.6) ALL EXTERIOR WALLS WITH SUSPENDED WOOD FLOORS FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-5406-14. THE PROVISIONS OF CLAUSE 9 SHALL APPLY TO CRAWL SPACE FOUNDATION WALLS. WHERE NO FLOOR SYSTEM IS PROVIDED AT OR NEAR THE BASE OF THE CRAWL SPACE FOUNDATION WALL, THE WALL SHALL BE PLACED IN A TRENCH AND BACKFILLED ON THE INSIDE TO RESIST LATERAL PRESSURE. THE INSIDE BACKFILL SHALL BE COMPACTED TO A DEPTH OF NO LESS THAN 2/5 OF THE EXTERIOR BACKFILL HEIGHT. 1.1.1. 1.1.2.

1	DERMA	NENT WOOD FOUNDATIONS - FLOORS AT
		DATION - S406-2014:
	FUUNL	JATION - 5400-2014.
	1. 1.1.	FLOORS AT TOP OF FOUNDATION ALL FLOORS AT TOP OF FOUNDATION FOR PERMANENT WOOD FOUND.
	1.1.	TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IM
	1.2.	BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS F GENERAL
	1.2.1.	FLOORS AT TOP OF THE FOUNDATION SHALL BE CONSTRUCTED TO PR
		MOVEMENT OF EXTERIOR WALLS DUE TO LATERAL PRESSURE. CONST TO THE MINIMUM REQUIREMENTS FOR WOOD FRAME CONSTRUCTION
		BUILDING CODE AND THE ADDITIONAL REQUIREMENTS OF CLAUSES 5
	1.2.2.	USE OF APPROVED PARALLEL CHORD WOOD FLOOR TRUSSES OR I-JO PERMITTED IN PLACE OF SOLID SAWN WOOD JOISTS PROVIDED THE
		ARE INSTALLED WITH ADEQUATE LATERAL BRACING AND BLOCKING T
		FROM TWISTING. WOOD FLOOR TRUSSES OR I-JOISTS MAY BE INSTAI FOUNDATION WALLS AS EITHER TOP CHORD BEARING OR BOTTOM CH
		PROVIDED THEY ARE DESIGNED FOR THE PARTICULAR APPLICATION A
		VERTICAL SUPPORT ARE PROVIDED. THE ADDITIONAL PROVISIONS OF 12.2.3, AND 12.3.2 OR 12.3.3 SHALL APPLY.
	1.3.	SUPPORT FOR SIDE WALLS
	1.3.1. 1.3.1.1.	SOLID SAWN WOOD JOISTS JOISTS AND BLOCKING SHALL BE NAILED AS REQUIRED BY TABLE 7, 1
	1.3.1.2.	OF BOTH TO THE TOP PLATE OF THE FOUNDATION WALL. WHEN THE BACKFILL HEIGHT IS GREATER THAN 1500 MM (5 FT) WITH
	1.3.1.2.	CONCRETE SLAB FLOOR, OR GREATER THAN 2000 MM (5 FT) WIT
		FLOOR, FRAMING STRAPS (SEE FIGURE A.19) SHALL BE INSTALLED TO THE FOUNDATION WALL IN ACCORDANCE WITH THE REQUIREMENTS (
	1.3.2.	TOP CHORD BEARING TRUSSES AND I-JOISTS
	1.3.2.1.	TOP CHORD BEARING UNITS SHALL BE CONNECTED TO THE TOP OF THE INWARD MOVEMENT OF THE WALL BY MEANS OF
	1.3.2.1.1.	FRAMING STRAPS NAILED TO THE ENDS OF THE TOP CHORD AND THE
	1.3.2.1.2.	WALL STUDS; STEEL HANGERS OR A WOOD LEDGER SO LOCATED AS TO PROVIDE PO
	1.J.Z.1.Z.	CHORD END AGAINST THE WALL STUD ENDS; OR
	1.3.2.1.3.	OTHER MEANS OR PROVIDING SUPPORT AND POSITIVE TRANSFER OF THE WALL STUDS INTO THE TOP CHORD AND FLOOR SHEATHING.
	1.3.3.	BOTTOM CHORD BEARING TRUSSES AND I-JOISTS
	1.3.3.1.	BOTTOM CHORD BEARING UNITS SHALL BE CONNECTED TO THE TOP (INWARD MOVEMENT OF THE WALL BY MEANS OF
	1.3.3.1.1.	STEEL HANGERS OR A WOOD LEDGER SO LOCATED AS TO PROVIDE PO
	1.3.3.1.2.	CHORD END AGAINST THE WALL STUDS; OR OTHER MEANS OF PROVIDING SUPPORT AND POSITIVE TRANSFER OF
	1.3.3.1.2.	FROM THE WALL STUDS INTO THE BOTTOM CHORD. THE LINE OF LATE
		BE DESIGNED AND CONSTRUCTED TO MOVE DIAGONALLY FROM THE E THE TOP CHORD TO THE FLOOR SHEATHING, OR IN A DIRECT LINE TH
		CHORD, TO THE OPPOSITE FOUNDATION WALL.
	1.4. 1.4.1.	SUPPORT FOR END WALLS LATERAL LOADING OF SOLID SAWN WOOD JOISTS
	1.4.1.1.	FULL-DEPTH BLOCKING SHALL BE INSTALLED, IN LINE WITH FOUNDAT
		THE RIM JOIST OR WALL STUDS AND THE FIRST JOIST FROM THE WAL AND A.21).THE REQUIREMENTS OF CLAUSE 6 SHALL BE ADHERED TO.
	1.4.1.2.	WHEN THE BACKFILL HEIGHT IS GREATER THAN 1500 MM (5 FT) WITH
		CONCRETE SLAB FLOOR, OR GREATER THAN 2000 MM (6 FT 8 IN) WIT FLOOR, THE FIRST JOISTS AWAY FROM THE WALL SHALL BE REINFOR
		ADDITIONAL JOIST OF 38 × 89 MM (2 × 4 IN) SIZE OR LARGER. IN TH
		SUBFLOORING SHALL BE NAILED TO EACH OF THE FLOOR JOISTS WIT IN) NAILS AT 100 MM (4 IN) CENTRES. FRAMING STRAPS SHALL ALSO
		ACCORDANCE WITH TABLE 7.
	1.4.2. 1.4.2.1.	LATERAL LOADING OF TRUSS OR I-JOIST AT TOP CHORD WHEN THE TOP CHORDS OF FLOOR TRUSSES OR I-JOISTS ARE LOCAT
		FOUNDATION TOP PLATES (SEE FIGURES A.20 AND A.21), LATERAL IN
		WALL SHALL BE RESISTED BY BLOCKING, INSTALLED TO ENSURE THE LATERAL LOADS FROM THE STUDS TO THE TOP CHORD OF THE FIRST
		WALL, AND BY INCREASED NAILING OF THE SUBFLOOR TO THE TOP C
		WITH TABLE 7. WHEN THE NAILING FACE OF THE TOP CHORD OF THE (4 IN) WIDE, REINFORCEMENT OF THE CHORD PER CLAUSE 12.3.1.1 IS
	1.4.3.	LATERAL LOADING OF TRUSS OR I-JOIST AT BOTTOM CHORD
	1.4.3.1.	WHEN THE BOTTOM CHORDS OF FLOOR TRUSSES OR I-JOISTS ARE LC THE FOUNDATION TOP PLATES, LATERAL INWARD MOVEMENT OF THE
	1.4.3.1.1.	BY BLOCKING OR DIAGONAL BRACING DESIGNED AND INSTALLED SO TH
	1.4.5.1.1.	TRANSFERRED UPWARD INTO THE FLOOR SHEATHING AT A TOP CHOR
	1.4.3.1.2.	DISTANCE FROM THE WALL AT LEAST TWICE THE DEPTH OF THE TRUS IF THE BACKFILL HEIGHT ON OPPOSITE FOUNDATION WALLS IS UNIFO
	1.4.3.1.2.	INSTALLED IN A CONTINUOUS LINE TO TRANSFER LATERAL LOADS AC
	1.4.3.1.3.	FOUNDATION TO OPPOSING EXTERIOR WALLS. IN BOTH CASES, CONNECTIONS AT THE TOP OF THE WALL SHALL BE A
		TRANSFER OF LATERAL LOADS FROM THE WALL STUDS INTO THE BLO
	1.5. 1.5.1.	STAIRWELL OPENINGS GENERAL
	1.5.1.1.	STAIRWELL OPENINGS ADJACENT TO FOUNDATION WALLS REQUIRE S
		INCREASED NAILING TO PROVIDE LATERAL RESISTANCE AGAINST SO THE FOUNDATION WALL (SEE FIGURES A.22, A.23, AND A.24). CONST
		CONFORM TO THE MINIMUM REQUIREMENTS FOR WOOD FRAME CONS
		APPROPRIATE BUILDING CODE WHEN THE OPENING IS 1200 MM (4 FT FOUNDATION SIDE WALL AND 1800 MM (6 FT) OR MORE FROM A FOUR
		OTHERWISE THE REQUIREMENTS OF CLAUSES 12.4.2 THROUGH 12.4.
	1.5.2. 1.5.2.1.	DIMENSIONS THE MAXIMUM DIMENSIONS OF A STAIRWELL OPENING SHALL BE 430
		LOCATED WITHIN 1200 MM (4 FT) OF THE SIDE WALL OR WITHIN 180
	1.5.3.	WALL. FRAMING AT SIDE WALL
	1.5.3.1.	OPENINGS LESS THAN 1200 MM (4 FT) FROM A SIDE WALL SHALL BE HORIZONTAL MEMBER (SEE FIGURES A.22 AND A.24), THE SIZE AND
		CONFORM TO TABLE 11.
	1.5.4. 1.5.4.1.	FRAMING AT END WALL OPENINGS LESS THAN 1800 MM (6 FT) FROM AN END WALL SHALL BE
	1.5.4.1.	MULTIPLY HORIZONTAL MEMBER (SEE FIGURES A.23 AND A.24), THE
		WHICH SHALL CONFORM TO TABLE 11.
		NENT WOOD FOUNDATIONS - SUPPORT FO
	MATER	IALS AND STRUCTURES - S406-2014:
	1.	SUPPORT FOR ACCESSORY MATERIALS AND STRUCTURES
	1.1.	ALL SUPPORTED ACCESSORY MATERIALS AND STRUCTURES FOR PERM
		FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE
		ARE AS FOUND IN CSA-S406-14.
	1.2. 1.2.1.	SUPPORT FOR MASONRY VENEER GENERAL
	1.2.1.1.	MASONRY VENEER EXTERIOR CLADDING CONFORMING TO THE APPRO
		FOR ABOVE-GRADE MASONRY MAY BE SUPPORTED ON A PRESERVED VEITHER
	1.2.1.1.1.	A) ON A KNEE WALL ATTACHED TO THE EXTERIOR OF THE MAIN FOUN
	1.2.1.1.2.	IN FIGURE A.25; OR B) ON TOP OF THE MAIN FOUNDATION WALL, AS SHOWN IN FIGURE A
	1.2.1.1.3.	IN EITHER CASE, THE MAIN FOUNDATION WALL SHALL BE CONSTRUCT
	1.2.2.	CLAUSES 9, 10, OR 11, AS APPLICABLE. MASONRY VENEER ON KNEE WALL
	1.2.2.1.	THE KNEE WALL SUPPORTING MASONRY VENEER CLADDING (SEE FIG
	1.2.2.2.	ACCORDANCE WITH CLAUSES 14.1.2.1 THROUGH 14.1.2.4. FOOTINGS SHALL CONFORM TO CLAUSE 8. COMPOSITE-TYPE WOOD F
		USED.
	1.2.2.3.	KNEE-WALL STUDS SHALL BE 38 \times 89 MM (2 \times 4 IN) AT 300 MM (12 I SINGLE WYTHE OF MASONRY OF A MAXIMUM 5200 MM (17 FT) IN HEI
		SHALL BE INSTALLED OUTSIDE THE EXTERIOR MOISTURE BARRIER AM
		BOTTOM OF EACH STUD TO THE MAIN FOUNDATION WALL. WHERE KN

	ANENT WOOD FOUNDATIONS - FLOORS AT TOP OF DATION - S406-2014:	PERMANENT WOOD FOUNDATIONS - EXTERIOR MOISTURE BARRIER - S406-2014:	STRUCTURAL ENGINEERING CONSULTANT:
1.	FLOORS AT TOP OF FOUNDATION	DARKILK - 5400-2014. 1. 15 EXTERIOR MOISTURE BARRIER 1.1. ALL EXTERIOR MOISTURE BARRIERS FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM	49NORTH
1.1.	ALL FLOORS AT TOP OF FOUNDATION FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14.	TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14. 1.2. GENERAL	ENGINEERING CORP.
1.2. 1.2.1.	GENERAL FLOORS AT TOP OF THE FOUNDATION SHALL BE CONSTRUCTED TO PREVENT THE INWARD MOVEMENT OF EXTERIOR WALLS DUE TO LATERAL PRESSURE. CONSTRUCTION SHALL CONFORM	1.2.1. EXCEPT FOR THE CASE OF KNEE WALLS, OR CRAWL SPACES WITH TRENCHED FOOTINGS, THE BELOW-GRADE PORTION OF THE EXTERIOR FACE OF THE WALL SHEATHING ON A PRESERVED	CONSULTING ENGINEERS
1.2.2.	TO THE MINIMUM REQUIREMENTS FOR WOOD FRAME CONSTRUCTION IN THE APPROPRIATE BUILDING CODE AND THE ADDITIONAL REQUIREMENTS OF CLAUSES 5.8, 12.2, 12.3, AND 12.4. USE OF APPROVED PARALLEL CHORD WOOD FLOOR TRUSSES OR I-JOISTS SHALL BE	WOOD FOUNDATION ENCLOSING HABITABLE SPACE SHALL BE PROTECTED BY THE MOISTURE BARRIER SPECIFIED IN CLAUSE 15.2. 1.3. ATTACHMENT OF POLYETHYLENE SHEET	
1.2.2.	PERMITTED IN PLACE OF SOLID SAWN WOOD JOISTS PROVIDED THE TRUSSES OR I-JOISTS ARE INSTALLED WITH ADEQUATE LATERAL BRACING AND BLOCKING TO PREVENT THE MEMBERS	1.3.1. A POLYETHYLENE SHEET MOISTURE BARRIER SHALL BE APPLIED TO THE PLYWOOD BY MEANS OF EMBEDMENT INTO VERTICAL BEADS OF SEALANT, OR INTO DAMPPROOFING APPLIED UNIFORMLY OVER THE PLYWOOD. JOINTS BETWEEN POLYETHYLENE SHEETS SHALL BE	16 CRESTVIEW BAY REGINA, SASKATCHEWAN S4R 0B7
	FROM TWISTING. WOOD FLOOR TRUSSES OR I-JOISTS MAY BE INSTALLED AT THE TOP OF FOUNDATION WALLS AS EITHER TOP CHORD BEARING OR BOTTOM CHORD BEARING MEMBERS PROVIDED THEY ARE DESIGNED FOR THE PARTICULAR APPLICATION AND ADEQUATE MEANS OF	VERTICAL, LAPPED A MINIMUM OF 600 MM (2 FT), AND SEALED. WHEN ATTACHED WITH VERTICAL SEALANT BEADS, THE POLYETHYLENE SHALL NOT BE SEALED ALONG THE BOTTOM OF THE WALL. THE UPPER EDGE OF THE POLYETHYLENE SHALL BE LOOPED A MINIMUM OF 150 MM	PHONE: 1 (306) 522-1568
1.3.	VERTICAL SUPPORT ARE PROVIDED. THE ADDITIONAL PROVISIONS OF CLAUSES 12.2.2 OR 12.2.3, AND 12.3.2 OR 12.3.3 SHALL APPLY. SUPPORT FOR SIDE WALLS	(6 IN) AND SECURED IN PLACE BY NAILING OF THE COVER PLATE (SEE FIGURE A.28). 1.4. PROTECTION BY COVER PLATE	EMAIL: weare49north.ca WEBSITE: www.weare49north.ca
1.3.1. 1.3.1.1.	SOLID SAWN WOOD JOISTS JOISTS AND BLOCKING SHALL BE NAILED AS REQUIRED BY TABLE 7, INCLUDING THE NAILING OF BOTH TO THE TOP PLATE OF THE FOUNDATION WALL.	1.4.1. THE MOISTURE BARRIER SHALL BE PROTECTED AT ITS UPPER EDGE BY COVERING IT WITH A COVER PLATE CONSISTING OF A TREATED STRIP OF PLYWOOD HAVING A MINIMUM THICKNESS OF 12.5 MM AND A MINIMUM WIDTH OF 300 MM (12 IN). THE TOP EDGE OF THIS CONTINUOUS	
1.3.1.2.	WHEN THE BACKFILL HEIGHT IS GREATER THAN 1500 MM (5 FT) WITH A WOOD SLEEPER OR CONCRETE SLAB FLOOR, OR GREATER THAN 2000 MM (6 FT 8 IN) WITH A SUSPENDED WOOD	STRIP SHALL BE EMBEDDED IN SEALANT OR DAMPPROOFING ALONG ITS FULL LENGTH. THE PLYWOOD STRIP MAY FOLLOW THE CONTOUR OF THE FINISHED OUTSIDE GRADE BUT IT SHALL EXTEND ABOVE THE GRADE AT ANY POINT BY A MINIMUM OF 75 MM (3 IN).	CLIENT:
1.3.2.	FLOOR, FRAMING STRAPS (SEE FIGURE A.19) SHALL BE INSTALLED TO ATTACH THE FLOOR TO THE FOUNDATION WALL IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 7. TOP CHORD BEARING TRUSSES AND I-JOISTS	 PROTECTION OF CORNERS THE MOISTURE BARRIER SHALL BE PROTECTED AT INTERIOR AND EXTERIOR CORNERS FROM MECHANICAL DAMAGE BY TREATED PLYWOOD STRIPS OR OTHER DURABLE CORNER 	
1.3.2.1.	TOP CHORD BEARING UNITS SHALL BE CONNECTED TO THE TOP OF THE WALL TO PREVENT INWARD MOVEMENT OF THE WALL BY MEANS OF FRAMING STRAPS NAILED TO THE ENDS OF THE TOP CHORD AND THE INNER FACE OF THE	PROTECTION. 1.6. EXTENT OF COVERAGE	BLAIR PATTERSON
1.3.2.1.2.	WALL STUDS; STEEL HANGERS OR A WOOD LEDGER SO LOCATED AS TO PROVIDE POSITIVE BEARING OF THE CHORD END AGAINST THE WALL STUD ENDS; OR	1.6.1. THE MOISTURE BARRIER SHALL COVER THE ENTIRE SURFACE OF THE WALL BELOW FINISHED GRADE AND EXTEND TO THE BOTTOM EDGE OF THE WOOD FOOTING. IT SHALL NOT EXTEND OUT OVER THE GRANULAR DRAINAGE LAYER OR UNDER THE WOOD FOOTING PLATE. IN THE	1624 GRANT ROAD
	OTHER MEANS OR PROVIDING SUPPORT AND POSITIVE TRANSFER OF LATERAL LOADS FROM THE WALL STUDS INTO THE TOP CHORD AND FLOOR SHEATHING.	CASE OF A CONCRETE FOOTING, THE MOISTURE BARRIER SHALL NOT OBSTRUCT THE REQUIRED DRAINAGE PASSAGES (SEE FIGURE A.5).	REGINA, SASKATCHEWAN S4S 4N2 PHONE: 1 (306) 591-2319
1.3.3. 1.3.3.1.	BOTTOM CHORD BEARING TRUSSES AND I-JOISTS BOTTOM CHORD BEARING UNITS SHALL BE CONNECTED TO THE TOP OF THE WALL TO PREVENT INWARD MOVEMENT OF THE WALL BY MEANS OF		EMAIL: hello@blairpatterson.ca
	STEEL HANGERS OR A WOOD LEDGER SO LOCATED AS TO PROVIDE POSITIVE BEARING OF THE CHORD END AGAINST THE WALL STUDS; OR OTHER MEANS OF PROVIDING SUPPORT AND POSITIVE TRANSFER OF LATERAL SOIL LOADS	PERMANENT WOOD FOUNDATIONS - BACKFILL & SITE GRADING - S406-2014:	
	FROM THE WALL STUDS INTO THE BOTTOM CHORD. THE LINE OF LATERAL LOAD TRANSFER MAY BE DESIGNED AND CONSTRUCTED TO MOVE DIAGONALLY FROM THE END OF THE CHORD TO THE TOP CHORD TO THE FLOOR SHEATHING, OR IN A DIRECT LINE THROUGH THE BOTTOM	1. 16 BACKFILLING AND SITE GRADING 1.1. ALL BACKFILLING AND SITE GRADING FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM	
1.4.	CHORD, TO THE OPPOSITE FOUNDATION WALL. SUPPORT FOR END WALLS	TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14	
1.4.1. 1.4.1.1.	LATERAL LOADING OF SOLID SAWN WOOD JOISTS FULL-DEPTH BLOCKING SHALL BE INSTALLED, IN LINE WITH FOUNDATION STUDS, BETWEEN THE RIM JOIST OR WALL STUDS AND THE FIRST JOIST FROM THE WALL (SEE FIGURES A.20	1.2. TIMING 1.2.1. PRESERVED WOOD FOUNDATIONS SHALL NOT BE BACKFILLED UNTIL THE BASEMENT FLOOR OR SUSPENDED FLOOR AND THE FLOOR AT THE TOP OF THE FOUNDATION WALLS ARE BOTH FULLY	OWNER:
1.4.1.2.	AND A.21).THE REQUIREMENTS OF CLAUSE 6 SHALL BE ADHERED TO. WHEN THE BACKFILL HEIGHT IS GREATER THAN 1500 MM (5 FT) WITH A WOOD SLEEPER OR CONCRETE SLAB FLOOR, OR GREATER THAN 2000 MM (6 FT 8 IN) WITH A SUSPENDED WOOD	INSTALLED INCLUDING SUBFLOOR SHEATHING AND ALL FASTENINGS, OR IN THE CASE OF CRAWL SPACES, ADEQUATE INTERIOR RESISTANCE TO EXTERIOR LOAD IS INSTALLED. 1.3. SAFE PLACEMENT OF BACKFILL	
	FLOOR, THE FIRST JOISTS AWAY FROM THE WALL SHALL BE REINFORCED WITH ONE ADDITIONAL JOIST OF 38 × 89 MM (2 × 4 IN) SIZE OR LARGER. IN THESE CASES, THE SUBFLOORING SHALL BE NAILED TO EACH OF THE FLOOR JOISTS WITH ONE ROW OF 51 MM (2	1.3.1. HEAVY EQUIPMENT AND LOADS SHALL BE KEPT A SAFE DISTANCE AWAY FROM FOUNDATIONS DURING BACKFILLING. BACKFILL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 600 MM (2 FT) AROUND THE FOUNDATION.	BLAIR PATTERSON 1624 GRANT ROAD
	IN) NAILS AT 100 MM (4 IN) CENTRES. FRAMING STRAPS SHALL ALSO BE INSTALLED IN ACCORDANCE WITH TABLE 7.	1.3.2. NOTE: IN MOST SOILS, A SAFE DISTANCE FOR THE USE OF BACKFILLING EQUIPMENT IS A DISTANCE EQUAL TO THE DEPTH OF THE TRENCH FROM THE EDGE OF THE TRENCH. BACKFILL	REGINA, SASKATCHEWAN S4S 4N2
1.4.2. 1.4.2.1.	LATERAL LOADING OF TRUSS OR I-JOIST AT TOP CHORD WHEN THE TOP CHORDS OF FLOOR TRUSSES OR I-JOISTS ARE LOCATED AT THE LEVEL OF THE FOUNDATION TOP PLATES (SEE FIGURES A.20 AND A.21), LATERAL INWARD MOVEMENT OF THE	SHOULD NOT BE MECHANICALLY COMPACTED.1.4.BACKFILL MATERIAL1.4.1.EXCEPT AS PERMITTED IN CLAUSES 16.4 OR 16.5, AND EXCEPT AS REQUIRED IN CLAUSE 16.6,	PHONE: 1 (306) 591-2319 EMAIL: hello@blairpatterson.ca
	WALL SHALL BE RESISTED BY BLOCKING, INSTALLED TO ENSURE THE DIRECT TRANSFER OF LATERAL LOADS FROM THE STUDS TO THE TOP CHORD OF THE FIRST UNIT FROM THE END WALL, AND BY INCREASED NAILING OF THE SUBFLOOR TO THE TOP CHORD IN ACCORDANCE	NATIVE SOILS CONFORMING TO CLAUSE 5.10 MAY BE USED AS THE BACKFILL MATERIAL AROUND FOUNDATIONS ENCLOSING HEATED SPACE AND FROST WALLS EXTENDING BELOW THE FROSTLINE. OTHERWISE NATIVE SOIL SHALL BE REPLACED BY SAND AND/ OR GRAVEL AS	
	WITH TABLE 7. WHEN THE NAILING FACE OF THE TOP CHORD OF THE UNIT IS MINIMUM 89 MM (4 IN) WIDE, REINFORCEMENT OF THE CHORD PER CLAUSE 12.3.1.1 IS NOT REQUIRED.	THE BACKFILL MATERIAL TO PROVIDE SUBGRADE DRAINAGE AROUND THE FOUNDATION. THE TOP 300 M (1 FT) OF BACKFILL MATERIAL SHALL HAVE NO GREATER POROSITY THAN THAT OF	
1.4.3. 1.4.3.1.	LATERAL LOADING OF TRUSS OR I-JOIST AT BOTTOM CHORD WHEN THE BOTTOM CHORDS OF FLOOR TRUSSES OR I-JOISTS ARE LOCATED AT THE LEVEL OF THE FOUNDATION TOP PLATES, LATERAL INWARD MOVEMENT OF THE WALL SHALL BE RESISTED	THE SURROUNDING SOIL. 1.5. USE OF MANUFACTURED DRAINAGE LAYERS 1.5.1. WHERE A MANUFACTURED DRAINAGE LAYER IS APPLIED TO THE VERTICAL FACE OF THE 1.5.1. WHERE A MANUFACTURED DRAINAGE LAYER IS APPLIED TO THE VERTICAL FACE OF THE	SEAL:
1.4.3.1.1.	BY BLOCKING OR DIAGONAL BRACING DESIGNED AND INSTALLED SO THAT LATERAL LOADS ARE TRANSFERRED UPWARD INTO THE FLOOR SHEATHING AT A TOP CHORD LOCATED AT A	FOUNDATION WALL FROM GRADE LEVEL TO THE GRANULAR DRAINAGE LAYER, THE BACKFILL NEED NOT CONFORM TO CLAUSE 16.3. 1.6. FOUNDATIONS NOT REQUIRING DRAINAGE	CONAL CAS
1.4.3.1.2.	DISTANCE FROM THE WALL AT LEAST TWICE THE DEPTH OF THE TRUSS OR I-JOIST; OR IF THE BACKFILL HEIGHT ON OPPOSITE FOUNDATION WALLS IS UNIFORM, BY BLOCKING INSTALLED IN A CONTINUOUS LINE TO TRANSFER LATERAL LOADS ACROSS THE FULL	1.6.1. FOR BACKFILLING FOUNDATIONS ENCLOSING UNHEATED SPACE, NATIVE SOILS IN THE COARSE GRAINED (COHESIONLESS) GROUP IN TABLE 2 MAY BE USED FULL HEIGHT AS THE BACKFILL MATERIAL.	
1.4.3.1.3.	FOUNDATION TO OPPOSING EXTERIOR WALLS. IN BOTH CASES, CONNECTIONS AT THE TOP OF THE WALL SHALL BE ADEQUATE TO PROVIDE	1.7.PROBLEM SOILS1.7.1.THE BACKFILL AND DRAINAGE SYSTEM SHALL BE DESIGNED BY A QUALIFIED ENGINEER WHEN	
1.5. 1.5.1.	TRANSFER OF LATERAL LOADS FROM THE WALL STUDS INTO THE BLOCKING OR BRACING. STAIRWELL OPENINGS GENERAL	THE FOUNDATION IS TO BE INSTALLED IN A SOIL HAVING A HIGH VOLUME CHANGE POTENTIAL OR WHERE SOILS SUSCEPTIBLE TO FROST HEAVE ARE PRESENT AROUND UNHEATED PORTIONS OF FOUNDATION WALLS.	
1.5.1.1.	STAIRWELL OPENINGS ADJACENT TO FOUNDATION WALLS REQUIRE SPECIAL FRAMING AND INCREASED NAILING TO PROVIDE LATERAL RESISTANCE AGAINST SOIL LOADS AT THE TOP OF THE FOUNDATION WALL (SEE FIGURES A.22, A.23, AND A.24). CONSTRUCTION SHALL	1.8. SITE GRADING 1.8.1. BACKFILL SHALL BE PLACED SUCH THAT THE FINAL GRADE AFTER THE FILL SETTLES SHALL FALL AWAY FROM THE WALLS AT A MINIMUM SLOPE OF 1 IN 12 (SEE FIGURE A.3).	A TO HIE
	CONFORM TO THE MINIMUM REQUIREMENTS FOR WOOD FRAME CONSTRUCTION IN THE APPROPRIATE BUILDING CODE WHEN THE OPENING IS 1200 MM (4 FT) OR MORE FROM A FOUNDATION SIDE WALL AND 1800 MM (6 FT) OR MORE FROM A FOUNDATION END WALL.		
1.5.2.	OTHERWISE THE REQUIREMENTS OF CLAUSES 12.4.2 THROUGH 12.4.4 SHALL APPLY. DIMENSIONS		COPYRIGHTS, SITE INSPECTIONS & DISCLAIMERS THESE DRAWINGS ARE THE COPYRIGHT OF 49NORTH
1.5.2.1.	THE MAXIMUM DIMENSIONS OF A STAIRWELL OPENING SHALL BE 4300 MM (14 FT) WHEN LOCATED WITHIN 1200 MM (4 FT) OF THE SIDE WALL OR WITHIN 1800 MM (6 FT) OF THE END WALL.		ENGINEERING CORP. (49NORTH); AND, ARE ISSUED FOR A ONE (1) TIME USE ONLY. NEITHER THESE DRAWINGS, NOR THE INFORMATION CONTAINED HEREIN, SHALL BE USED, AND/OR
1.5.3. 1.5.3.1.	FRAMING AT SIDE WALL OPENINGS LESS THAN 1200 MM (4 FT) FROM A SIDE WALL SHALL BE FRAMED WITH A MULTIPLY HORIZONTAL MEMBER (SEE FIGURES A.22 AND A.24), THE SIZE AND NAILING OF WHICH SHALL		REPRODUCED BY ANY PARTY IN ANY FORM WITHOUT THE EXPRESS WRITTEN CONSENT OF 49NORTH. THE COPYRIGHT OF 49NORTH IS HEREBY ASSERTED - COPYRIGHT 2021. THE USE
1.5.4.	CONFORM TO TABLE 11. FRAMING AT END WALL		OF THESE DRAWINGS AND DOCUMENTS FOR ANY OTHER PURPOSE BY ANY PARTY IS STRICTLY PROHIBITED. WHERE ANY ERROR, OMISSION AND/OR DISCREPANCY IS FOUND TO EXIST
1.5.4.1.	OPENINGS LESS THAN 1800 MM (6 FT) FROM AN END WALL SHALL BE FRAMED WITH A MULTIPLY HORIZONTAL MEMBER (SEE FIGURES A.23 AND A.24), THE SIZES AND NAILING OF WHICH SHALL CONFORM TO TABLE 11.		WITHIN OR BETWEEN DRAWINGS, PROJECT DOCUMENTS AND/OR SITE CONDITIONS; IT IS TO BE REPORTED TO
			49NORTH IMMEDIATELY IN WRITING. 49NORTH RESERVES THE RIGHT TO PROVIDE ADDENDA, REVISIONS, SITE INSTRUCTIONS, AND/OR CORRECTIONS TO THE DESIGN TO
	ANENT WOOD FOUNDATIONS - SUPPORT FOR ACCESSORY		RECTIFY ANY ERROR, OMISSION AND/OR DISCREPANCY IN ACCORDANCE WITH THE AGREEMENT FOR ENGINEERING SERVICES AND 49NORTH'S STANDARD ENGINEERING
	RIALS AND STRUCTURES - S406-2014: SUPPORT FOR ACCESSORY MATERIALS AND STRUCTURES		CONSULTING SERVICE TERMS & CONDITIONS. THE OWNER AND CONTRACTOR MUST PROVIDE 49NORTH WITH COPIES OF
1. 1.1.	ALL SUPPORTED ACCESSORY MATERIALS AND STRUCTURES FOR PERMANENT WOOD FOUNDATIONS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S406-2014 AND AS		THE BUILDING PERMIT APPROVAL DOCUMENTS, BUILDING OFFICIAL SITE INSPECTION REPORTS, AND SHOP DRAWING DOCUMENTS THROUGHOUT THE COURSE OF THE PROJECT. THE
1.2.	DETAILED IN THE SPECIFICATIONS BELOW. ALL REFERENCED CLAUSE(S) AND TABLE(S) BELOW ARE AS FOUND IN CSA-S406-14. SUPPORT FOR MASONRY VENEER		OWNER AND CONTRACTOR MUST ALSO NOTIFY 49NORTH IN WRITING AT EACH PROJECT CONSTRUCTION STAGE DURING THE COURSE OF THE PROJECT TO CONDUCT SITE INSPECTIONS
1.2.1. 1.2.1.1.	GENERAL MASONRY VENEER EXTERIOR CLADDING CONFORMING TO THE APPROPRIATE BUILDING CODE FOR ABOVE-GRADE MASONRY MAY BE SUPPORTED ON A PRESERVED WOOD FOUNDATION		SO THAT 49NORTH MAY ASCERTAIN CONSTRUCTION COMPLIANCE WITH THESE DESIGN DOCUMENTS. 49NORTH WILL NOT EXPRESSLY MONITOR THIS PROJECT UNLESS
1.2.1.1.1.	EITHER A) ON A KNEE WALL ATTACHED TO THE EXTERIOR OF THE MAIN FOUNDATION WALL, AS SHOWN		EXPLICITLY AGREED TO IN THE AGREEMENT FOR CONSULTING ENGINEERING SERVICES. THE OWNER AND CONTRACTOR ARE NOTIFIED AND ADVISED TO CONTACT 49NORTH'S OFFICE VIA
	IN FIGURE A.25; OR B) ON TOP OF THE MAIN FOUNDATION WALL, AS SHOWN IN FIGURE A.26. IN EITHER CASE, THE MAIN FOUNDATION WALL SHALL BE CONSTRUCTED AS REQUIRED IN		EMAIL FOR THE INSPECTION REQUIREMENT STAGES FOR THIS PROJECT. NEITHER THE PROFESSIONAL ENGINEER NOR
1.2.2. 1.2.2.1.	CLAUSES 9, 10, OR 11, AS APPLICABLE. MASONRY VENEER ON KNEE WALL THE KNEE WALL SUPPORTING MASONRY VENEER CLADDING (SEE FIGURE A.25) SHALL BE IN		49NORTH ENGINEERING CORP. WILL BE LIABLE IN CONTRACT OR IN TORT, FOR ANY NORMAL, REGULAR, STANDARD, INCIDENTAL, SPECIAL, RESULTANT, SUBSEQUENT AND/OR
1.2.2.2.	ACCORDANCE WITH CLAUSES 14.1.2.1 THROUGH 14.1.2.4. FOOTINGS SHALL CONFORM TO CLAUSE 8. COMPOSITE-TYPE WOOD FOOTING PLATES MAY BE USED.		CONSEQUENTIAL DAMAGES, LOST PROFITS, AND/OR ANY OTHER DIRECT AND/OR INDIRECT DAMAGES RESULTING FROM: DISCREPANCIES AND/OR ERRORS AND/OR OMISSIONS DUE TO
1.2.2.3.	KNEE-WALL STUDS SHALL BE 38 × 89 MM (2 × 4 IN) AT 300 MM (12 IN) OC FOR SUPPORTING A SINGLE WYTHE OF MASONRY OF A MAXIMUM 5200 MM (17 FT) IN HEIGHT. THE KNEE WALL		CAUSES OTHER THAN NEGLIGENCE; AND, IN SUCH CASE SHALL ONLY BE LIABLE TO THE PARTY UNDER CONTRACT WITH
	SHALL BE INSTALLED OUTSIDE THE EXTERIOR MOISTURE BARRIER AND NAILED AT TOP AND BOTTOM OF EACH STUD TO THE MAIN FOUNDATION WALL. WHERE KNEEWALL STUDS EXCEED 1500 MM (5 FT) IN HEIGHT, THEY SHALL ALSO BE TOE-NAILED AT MID-HEIGHT TO THE WALL.		49NORTH FOR THE COMPILATION, PRODUCTION AND/ DELIVERY OF THESE DOCUMENTS.
	TO PLATES OF KNEE WALLS SHALL BE DOUBLED TO SUPPORT THE MASONRY VENEER. JOINTS IN THE TWO TOP PLATES SHALL BE SPACED A MINIMUM OF TWO STUD SPACES APART AND SHALL OCCUR DIRECTLY ABOVE THE CENTRE OF A SUPPORTING STUD.		DO NOT SCALE FROM THESE DRAWINGS. U.N.O. ALL DIMENSIONS SHOWN IN THESE DRAWINGS ARE MEASURED TO THE OUTSIDE FACE OF EXTERIOR WALLS AND TO THE
1.2.2.4.	KNEE-WALL SHEATHING SHALL CONFORM TO CLAUSE 5.4 AND AT ANY POINT SHALL EXTEND BELOW THE EXTERIOR FINISHED GRADE A MINIMUM OF 300 MM (12 IN). NOTE: SHEATHING NEED NOT BE INSTALLED BETWEEN THIS POINT AND THE FOOTING: BACKFILL MATERIAL IS		CENTERLINE OF INTERIOR WALLS. ALL DIMENSIONS MUST BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO SUBMITTING
1.2.2.5.	PERMITTED BETWEEN THE EXPOSED KNEE-WALL STUDS. NO EXTERIOR MOISTURE BARRIER IS REQUIRED OVER THE KNEE-WALL SHEATHING.		ANY ESTIMATE, PROPOSAL AND/OR CONTRACT TO THE OWNER; AND BY THE CONTRACTOR AGAIN PRIOR TO THE EXECUTION OF ANY WORK REFERENCED BY THESE DRAWINGS AND/OR
1.2.3. 1.2.3.1.	MASONRY VENEER ON MAIN FOUNDATION WALL WHERE MASONRY VENEER IS SUPPORTED ON THE MAIN FOUNDATION WALL (SEE FIGURE A.27), THE FOUNDATION FRAMING SHALL HAVE A WIDTH SUFFICIENT TO PROVIDE REQUIRED		SPECIFICATIONS. 49NORTH ENGINEERING CORP. PROJECT NUMBER:
1.3.	SUPPORT FOR THE MASONRY VENEER AS WELL AS ACCOMMODATING THE FLOOR FRAMING. TOP PLATES SHALL BE DOUBLED AND PRESSURE TREATED. SUPPORT FOR EXTERIOR CONCRETE SLABS		2021 - 2062
1.3.1.	WHERE DRIVEWAY OR GARAGE FLOOR SLABS SUPPORTING CARS OR LIGHT TRUCKS ABUT THE FOUNDATION WALL, APPROPRIATE STEPS SHALL BE TAKEN TO ENSURE THAT THE EFFECTS OF		CLIENT PROJECT NUMBER:
1.3.2. 1.3.2.1.	ADDITIONAL LOADING ARE CONSIDERED. NOTE: TWO POSSIBLE APPROACHES TO ACCOUNT FOR THIS ADDITIONAL LOADING ARE SELECTING THE STUD SIZE AND SPACING FOR THE WALL USING AN EFFECTIVE BACKFILL		
1.3.2.2.	HEIGHT 500 MM (20 IN) GREATER THAN THE ACTUAL BACKFILL HEIGHT; OR WHERE THE SLAB IS REINFORCED ON THE BOTTOM SIDE, SUPPORTING THE SLAB ON A PRESERVED-WOOD KNEE WALL PLACED ADJACENT TO THE FOUNDATION WALL (SEE FIGURE		ISSUED FOR: YYYY.MM.DD
1.4.	A.27). SUPPORT FOR EXTERIOR STEPS AND LANDINGS		SCHEMATIC DESIGN REVIEW DESIGN DEVELOPMENT REVIEW
1.4.1.	EXTERIOR STEPS AND LANDINGS MAY BE SUPPORTED ON A PRESERVED WOOD FOUNDATION. SUPPORTED STEPS AND LANDINGS SHALL NOT BE HUNG SO AS TO BE CANTILEVERED FROM A FOUNDATION WALL.		CONSTRUCTION DOCUMENT REVIEW TENDER PACKAGE REVIEW
1.5. 1.5.1.	GARAGE FROST WALLS THE FROST WALL SHALL BE PLACED IN A TRENCH AND BACKFILLED ON BOTH SIDES. FOOTING PLATES SHALL BE LOCATED BELOW THE FROST PENETRATION LEVEL AS SPECIFIED BY THE		ISSUED FOR DEVELOPMENT PERMIT 2021.02.25
	LOCAL BUILDING CODE, EXCEPT, WHERE THE GARAGE IS HEATED AND EXTERNAL THERMAL INSULATION OF THE FROST WALL IS PROPERLY AND CONTINUOUSLY INSTALLED TO DIRECT HEAT LOSS TO THE SOIL BELOW THE FOOTING, THE DEPTH OF THE FOOTING MAY BE REDUCED.		ISSUED FOR BUILDING PERMIT2021.02.25ISSUED FOR CONSTRUCTION (IFC)2021.02.25
1.5.2.	14.4.2 WHERE THE WALL IS SUBJECT TO BALANCED SOIL LOADS, THE STUDS MAY BE 38 \times 89 MM (2 \times 4 IN) IN SIZE, AND THE PLYWOOD SHEATHING MAY BE 12.5 MM IN THICKNESS AND		
1.6. 1.6.1.	EXTEND A MINIMUM OF 600 MM (24 IN) BELOW FINISHED GRADE. WALK-OUT BASEMENT FROST WALL (FIGURE A.29) THE ABOVE GRADE EXPOSED WALL WITH THE DOORWAY TO THE EXTERIOR SHOULD REST ON A		
	FROST WALL EXTENDING BELOW THE FROST PENETRATION, MINIMUM OF 1200 MM (4 FT) DEPTH OR AS SPECIFIED BY THE LOCAL BUILDING CODE.		PROJECT:
L			
			DETACHED ACCESSORY
			WORKSHOP BUILDING
			1624 GRANT ROAD REGINA, SASKATCHEWAN
			LOT 12, BLOCK 35, PLAN 59R04305
			ENGINEER TWEIDT TECHNICIAN TWEIDT
			DRAWING SCALE 1/8" = 1'-0"
			DATE FEBRUARY 25, 2021 DRAWING TITLE:

SPECIFICATIONS

REVISION NUMBER: SHEET NUMBER: S2.3