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#### **SECTION 1 - DIRECTIVES SECTION 4 - FOOTINGS** ALL DUCTS, CONNECTORS, AND ASSOCIATED FITTINGS, PLENUMS IN AIR DUCT SYSTEMS RESPONSIBILITIES OF IHD Design-Build ARE FOR DRAWINGS ONLY. SITE SUPERVISION FOOTINGS SHALL CONFORM TO O.B.C. SECTION 9.12. ALL STRUCTURAL STEEL SHALL BE SHOP PRIMED WITH ANTI-CORROSIVE PAINT, WITH THE 11.5 ALL HIP AND VALLEY RAFTERS AND ROOF RIDGE BOARDS SHALL BE 2" DEEPER THAN AND MUNICIPAL LIAISON ARE EXTRA TO CONTRACT. EXCEPTION OF UNDER CONTACT AREAS FOR CONNECTIONS. TOUCH UPS IN THE FIELD MAY SPECIFIED RAFTERS, AND NO LESS THAN 1-1/2" ACTUAL THICKNESS. SHALL BE CONSTRUCTED OF STEE, ALUMINUM ALLOY, COPPER, CLAY, OR SIMILAR CONCRETE USED IN FOOTINGS SHALL CONFORM TO O.B.C. 9.3.1 BE REQUIRED NONCOMBUSTIBLE MATERIAL. THESE DRAWINGS ARE PROPERTY OF IHD Design-Build, AND MAY NOT BE USED, COPIED ALL RAFTERS SHALL HAVE A MIN 2x4" CONTINUOUS END RESTRAINT (PLATE TO PLATE TIES) OR REPRODUCED WITHOUT CONSENT. ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL, BEDROCK, OR APPROVED COMPACTED 9.7 ALL WELDS (SHOP, ON IN SITU) SHALL CONFORM TO CSA W59, AND BE PERFORMED BY A OR BE TIED TO CEILING JOISTS. ALL DUCT MARERIALS AND FITTINGS SHALL BE SUITABLE FOR EXPOSURE TO THE WELDING COMPANY OR WELDER APPROVED BY THE CWB TO THE STANDARDS OF ENGINEERED FILL WITH A MINNIMUM SOIL BEARING CAPACITY OF 75kPa. TEMPERATURE AND HUMIDITY OF THE AIR BAING CONVEYED IN THE DUCTS. WHERE REQUIRED BY O.B.C. 9.19.2. PROVIDE A COMPLIANT ATTICH HATCH WITH A THESE DRAWINGS SHALL BE RETURNED UPON REQUEST. CSA W47.1. MINIMUM OF R-20 INSULATED DOOR WITH WEATHER STRIPPING. BOTTOM OF ALL FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE, OR AIR DUCT SYSTEMS SHALL HAVE TIGHT FITTING CONNECTIONS THROUGHOUT AND NO BELOW THE LEVEL OF FROST PENETRATION. IF THIS IS NOT ACHIEVABLE, A SHALLOW OPENINGS OTHER THAN THOSE REQUIRED FOR PROPER OPERATION, INSPECTION, AND THESE DRAWINGS MUST NOT BE USED IN ANY OTHER LOCATION WITHOUT THE WRITTEN ALL STRUCTURAL STEEL SHALL BEAR ON SOLID MASONRY, CONCRETE, OR STEEL UNLESS APPROVAL OF THE DESIGNER. FOOTING DETAIL IS REQUIRED BEARING A PROFESSIONAL ENGINEER'S SEAL. DESIGN WOOD TRUSSES AND ENGINEERED FLOOR SYSTEMS, RELATED CONNECTION MAINTENANCE OF THE SYSTEM. HARDWARE, AND BRACING FOR A COMPLETE INSTALLATION, SUBMIT P.ENG SEALED SHOP ALL FOOTINGS SHALL BE MINIMUM 6" THICK AND HAVE A MINIMUM PROJECTION OF 4" 9.9 LOOSE STEEL LINTELS OVER 6'-0" IN LENGTH SHALL BE BOLTED TOGETHER. THESE DRAWINGS SHALL BE USED IN CONTEXT WITH, AND AS A SUPPLEMENT TO DRAWINGS FOR ALL TRUSSES. RELATED BEAMS. LINTELS AND JOISTS. ACCESS OPENINGS SHALL BE PROVIDED IN DUCT SYSTEMS TO ALLOW THE REMOVAL OF 16.14 DRAWINGS, AND OTHER INCLUDED STANDARD DETAIL PAGES. THESE SPECIFICATIONS AND MATERIAL THAT MAY ACCUMULATE IN PLENUMS AND DUCTS. FROM FOUNDATION WALLS. 9.10 STEEL LINTELS BEARING ON MASONRY OR CONCRETE SHALL HAVE MINIMUM 4" BEARING 11.9 DIMENSIONS SHALL APPLY UNLESS NOTED OTHERWISE. THE SCOPE AND INTENT OF THESE EAVE PROTECTION TO EXTEND A MINIMUM OF 1'-0" BEYOND INNER WALL, PER 0.B.C. 9.19. MINIMUM STRIP FOOTING WIDTHS FOR INTERIOR LOADBEARING MASONRY WALLS SHALL 13.10 HEATING DUCTS AND RETURN AIR PLENUMS HAVE BEEN LOCATED AS A SUGGESTED GUIDE DRAWINGS ARE TO PROVIDE FOR THE COMPLETE BUILDING AND ASSOCIATED WORKS PER 4.6 EACH END (EXCEPT AS SHOWN ON DRAWINGS). ONE END SHALL BE WRAPPED IN 11.10 ROOF VENTING TO COMPLY WITH O.B.C. 9.19.1. FOR ROOFS LESS THAN 1:6, PROVIDE 1 FT<sup>2</sup> BE INCREASED BY 4" FOR EACH STOREY OF MASONRY CONSTRUCTION THE FOOTING CONSTRUCTION PAPER FOR EXPANSION. ONLY. INSTALLATION TO SUIT BUILDING CONDITIONS AND LOCAL BYLAWS. SUBMIT HEATING VENTILATION FOR EVERY 150 FT2 OF ROOF SPACE. FOR ROOFS ABOVE 1:6, PROVIDE 1 FT2 LAYOUTS BEFORE COMMENCEMENT OF CONSTRUCTIONS. OF VENTILATION FOR EVERY 300 FT2 OF ROOF SPACE. TOTAL VENTILATION TO BE DIVIDED USE ONLY THE LATEST REVISED DRAWING, OR THOSE THAT ARE MARKED "FOR 9.11 ALL BOLTS SHALL BE ASTM A325 HIGH STRENTH UNLESS OTHERWISE NOTED. THE PROJECTION OF UNREINFORCED FOOTINGS BEYONND THE SUPPORTED WALL SHALL 13.11 AIR DUCTS IN EXTERIOR WALLS TO HAVE A MINIMUM OF R-4 THERMAL INSULATION AND 50% AT SOFFIT AND 50% AT REIDGE CONSTRUCTION" NOT EXCEED THE THICKNESS OF THE FOOTING. R-12 IN UNHEATED SPACE. SPACE BETWEEN DUCTS TO BE SEALEDWITH NON COMBUSTIBLE SECTION 10 - WOOD 11.11 FASTENERS FOR ROOFING TO BE CORROSION RESISTANT. DO NOT SCALE THE DRAWINGS. STEPPED FOOTINGS SHALL HAVE 2-0" MINIMUM. RUN & MAXIMUM 2-0" RISE FOR FIRM SOIL ALL LUMBER USED SHALL CONFORM TO THE REQUIREMENTS OF O.B.C. 9.3.2 (15" MINIMUM RUN & MAXIMUM 15" RISE FOR SAND OR GRAVEL). A MAXIMUM THE CONSTRUCTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT THE SITE, AND REPORT 11.12 ROOFING NAILS MUST PENETRATE THROUGH ROOFING SHEATHING. 13.12 ALL PIPES INSTALLED IN HVAC SYSTEMS SHALL BE INSTALLED TO ALLOW FOR EXPANSION ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGNER BEFORE UNDERSLOPE OF 2 VERTICAL TO 3 HORIZONTAL. AND CONTRACTION DUE TO TEMPERATURE CHANGES, PIPING SHALL BE MADE FROM ALL MEMBERS SHALL BE SIZED, FRAMED, BRACED, BLOCKED, TIED AND ANCHORED TO PROCEEDING WITH ANY CONSTRUCTION. 11.13 ASPHALT SHINGLES TO BE FASTENED WITH A MINIMUM OF 4 NAILS MATERIALS DESIGNED TO WITHSTAND THE EFFECTS OF TEMPERATURES AND PRESSURES PROVIDE NECESSARY STRENGTH AND RIGIDITY ACCORDING TO THE ONTARIO BUILDING NO FOOTING SHALL BE PLACED UNTIL THE SUPPORTING SOILS HAVE BEEN INSPECTED AND THAT MAY OCCUR IN THE SYSTEM. CODE (LATEST EDITION) ANY CHANGES TO THE DRAWINGS AND RELATED SPECIFICATIONS, OR ANY PART THEREOF, DEEMED ACCEPTABLE BY THE APPLICABLE MUNICIPAL BUILDING DEPARTMENT 11.14 PRE-FINISHED STEEL ROOFING SHALL BE INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTIONS BY OUALIFIED INSTALLERS. ARE RESERVED FOR THE DESIGNER. INSULATION AND COVERINGS ON PIPES SHALL BE COMPMOSED OF MATERIAL SUITABLE ALL FRAMING LUMBER TO BE NO. 1 AND NO. 2 SPF UNLESS OTHERWISE NOTED. FOR THE OPERATING TEMPERATURE OF THE SYSTEM TO WITHSTAND DETERIORATION **SECTION 5 - CONCRETE FLOOR SLABS** ALL CONSTRUCTION SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE LATEST 11.15 ROOFING ON ALL SLOPED ROOFS SHALL EXTEND 1" PAST ROOF EDGE TO FORM A DRIP FROM SOFTENING, MELTING, MILDEW, AND MOULD. ALL WOOD LINTELS TO BE MIN. 2- 2X10 SPF UNLESS OTHERWISE NOTED. EDITION OF THE ONTARIO BUILDING CODE (O.REG 322/12 VOLUMES 1&2) INCLUDING ALL CLEAR OF WALLS, FASCIA BOARDS ETC. CONCRETE FLOOR SLABS TO CONFORM TO O.B.C. 9.16. 13.14 FIREPLACES SHALL BE INSTALED OR COSTRUCTIED IN ACCORDANCE WITH 0.B.C. 9.22. LATEST AMENDMENTS & ALL OTHER APPLICABLE CODES & BYLAWS IN EFFECT AT THE ALL EXTERIOR EXPOSED STRUCTURAL WOOD AND DECK PLANKING SHALL BE No2 11.16 APPROPRIATE LOW SLOPE ROOFING SHALL BE USED FOR SLOPED ROOFS LOWER THAN PRESSURE TREATED (WOLMANIZED OR EQUIV.) UNLESS OTHERWISE NOTED. REINFORCED FLOOR SLABS AND SUSPENDED SLABS OVER COLD ROOMS SHALL CONFORM 13.15 HEATING SYSTEMS, COOLING SYSTEMS, AND DUCT WORK TO CONFORM WITH O.B.C. 9.32 & 1.11 ALL WORK SHALL BE COMPLETED IN A NEAT, SAFE AND PROFESSIONAL MANNER IN 9.33.. AND O.B.C. DIVISION B. PART 6. ALL WOOD SHALL BE ISOLATED FROM POURED CONCRETE OR UNIT MASONRY WITH SILL 11.17 ROOF TRUSS MEMBERS, AND OTHER ENGINEERED FRAMING PRODUCTS, SHALL NOT BE ACCORDANCE WITH ACCEPTED CONSTRUCTION STANDARDS & PRACTICES, AND MATERIAL. GASKET, (6)mil POLY, TREATED TO PREVENT DECAY, OR WHERE APPROPRIATE A 1/2" AIR ALL CONCRETE SLABS SHALL HAVE POSITIVE SLOPE TO FLOOR DRAINS. GARAGE SLABS EQUIPMENT, MANUFACTURER'S, SUPPLIERS' SPECIFICATIONS, RECOMMENDATIONS, AND NOTCHED, DRILLED, OR OTHERWISE WEAKENED UNLESS SUCH NOTCHING OR DRILLING IS MECHANICAL AND ELECTRICAL DESIGN FOR EQUIPMENT, DUCT SIZING, ASSORTED AND SHALL HAVE 2% SLOPE TO OVERHEAD DOORS. SPACE AT THE ENDS AND SIDES. ALLOWED FOR IN THE DESIGN OF THE MEMBER. OTHER ELECTRICAL CIRCUITRY, HEAT LOSS CALCULATIONS, ETC. SHALL BE PROVIDED BY HEATING / MECHANICAL / ELECTRICAL CONTRACTOR. LAYOUT, DESIGN, AND SHOP SILL PLATES FOR BEARING PARTITIONS IN BASEMENT AREAS SHALL BEAR ON ONE (1) NON STRUCTURAL CONCRETE SLABS SHALL NOT BE LESS THAN 4" THICK FOR BOTH 11.18 ALL CONVENTIONAL FRAMING TO CONFORM WITH THE LATEST EDITION OF THE ONTARIO 1.12 THE CONSTRUCTOR SHALL REPAIR, RESTORE AND MAKE GOOD ALL EXISTING ITEMS DRAWINGS ARE REQUIRED. COURSE OF CONCRETE ASHLAR BLOCK. INTERIOR AND EXTERIOR. 18.3 DISTURBED DURING CONSTRUCTION. BUILDING CODE. 13.17 REFER TO MECHANICAL DRAWINGS WHERE APPLICABLE. ALL ITEMS SHALL BE INSTALLED EXCEPT AS SHOWN ELSEWHERE, ALL STRUCTURAL CONCRETE SLABS ON GRADE SHALL BE 10.8 ALL SILLS LOCATED LOWER THAN 6" ABOVE FINISHED GRADE SHALL BE PRESSURE CHIMNEYS AND FLUES TO BE BUILT A MINIMUM OF 2'-0" ABOVE THE HIGHEST POINT AT ACCORDING TO MANUFACTURER'S SPECIFICATIONS. THE CONSTRUCTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOUR, ETC. NECESSARY TO COMPLETE THE PROJECT IN ALL RESPECTS (READY FOR OCCUPANCY) EVEN WHICH IT COMES IN CONTACT WITH THE ROOF SURFACE WITHIN A HORIZONTAL DISTANCE SECTION 14 - EXTERIOR FINISHES THOUGH THERE MAY BE OMISSIONS ON THESE DRAWINGS. OF 10'-0" FROM THE CHIMNEY. HOLES DRILLED IN ROOF, FLOOR OR CEILING FRAMING MEMBERS SHALL NOT BE GREATER DRY CEMENT SHALL NOT BE ADDED TO THE FLOOR SURFACES TO ABSORB EXCESS WATER. 10.9 THAN 1/4 THE DEPTH OF THE MEMBER AND SHALL BE LOCATED NOT LESS THAN 2" FROM 11.20 CHIMNEYS AND FLUES TO BE BUILT A MINIMUM OF 3'-0" ABOVE THE HIGHEST POINT AT WHERE MATERIALS, EQUIPMENT, FINISHES, FIXTURES, ETC., ARE INDICATED WITHOUT STUCCO TO COMPLY WITH O.B.C. 9.28 CONCRETE SLABS ON GRADE SHALL BE REINFORCED USING 6x6 W2.0xW2.0 WWR THE EDGES, UNLESS THE DEPTH OF THE MEMBER IS INCREASED BY THE SIZE OF THE HOLE. SPECIFIC INFORMATION RELATING TO QUALITY, GRADE, COLOUR, TYPE, OR WHICH IT COMES IN CONTACT WITH THE ROOF. EIFS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS USING THE CORRECT EMBEDDED INTO SLAB MANUFACTURER, THE CONSTRUCTOR SHALL OBTAIN THE BUILDING OWNER'S APPROVAL SYSTEM COMPONENTS, SYSTEMS MUST HAVE CURRENT CCMC APPROVAL 10.10 NON ENGINEERED FLOOR, ROOF, AND CEILING FRAMING ARE PERMITTED TO BE NOTCHED ALL ROOFING MATERIAL TO CONFORM WITH O.B.C. 9.26. FOR THE PROPOSED MATERIAL, EQUIPMENT, FINISH, OR FIXTURE PRIOR TO THE 14.3 EXTERIOR CALDDING TO COMPLY WITH O.B.C. 9.27. PROVIDED THE NOTCH IS LOCATED ON THE TOP OF THE MEMBER WITHIN HALF THE JOIST BOND BREAKING MATERIAL SHALL BE PLACED BETWEEN ANY SLAB AND FOOTINGS OR INSTALLATION THEREOF. DEPTH FROM THE EDGE OF BEARING AND IS NOT DEEPER THEN 1/3 THE JOIST DEPTH. **SECTION 12 - THERMAL & MOISTURE PROTECTION** 14.4 REFER TO DRAWINGS FOR TYPE OF EXTERIOR FINISHES. UNLESS THE DEPTH OF THE MEMBER IS INCREASED BY THE SIZE OF THE NOTCH. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO FRAMING. SLABS UNDER FINNISHED AREAS SHALL BE DAMP PROOFED. ALL EXTERIOR SURFACES TO BE PAINTED SHALL BE COVERED WITH ONE (1) COAT OF ENERGY EFFICIENCY COMPLIANCE SHALL CONFORM TO TEH LATEST VERSION OF O.B.C 10.11 ROOF TRUSS MEMBERS, AND OTHER ENGINEERED FRAMING PRODUCTS, SHALL NOT BE IF A DESIGNER'S INSPECTION IS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, OUR PRIMER AND TWO (2) FINISH COATS OF PAINT APPROVED FOR THE SPECIFIC APPLICATION. **VOLUME 2, SUPPLEMENTARY STANDARD SB-12.** NOTCHED, DRILLED, OR OTHERWISE WEAKENED UNLESS SUCH NOTCHING OR DRILLING IS ALL JOINTS BETWEEN SLABS ON GRADE AND FOUNDATION WALLS SHALL BE PROVIDED OFFICE MUST BE CONTACTED A MINIMUM OF 2 DAYS IN ADVANCE. WITH A PREMOULDED EXPANSION JOINT. SAW CUT CONTROL JOINTS SHALL BE PROVIDED ALLOWED FOR IN THE DESIGN OF THE MEMBER. 14.6 BASEMENT CMU WALLS EXPOSED ABOVE GRADE SHALL BE PARGED. 12.2 INSULATION SHALL BE SIZED ACORDING TO THE O.B.C. SB-12 PRESCRIPTIVE COMPLIANCE AS SHOWN ON PLANS. **SECTION 2 - SITE WORKS & EXCAVATION** PACKAGE SELECTED. 10.12 WHERE PRE-ENGINEERED ROOF TRUSSES, FLOOR TRUSSES, WOOD "I" JOISTS, LAMINATED SECTION 15 - STAIRS, GUARDS, LANDINGS COLUMNS, PSL & LVL BEAMS, SIMILAR ENGINEERED WOOD PRODUCTS ARE SPECIFIED ON ALL INTERIOR SLABS SHALL BE SMOOTH TROWELLED TO A SMOOTH FINISH SUITABLE FOR WHERE A BUILDING COMPONENT OR ASSEMBLY WILL BE SUBJECTEDD TO AN INTENDED SITEWORK AND EXCAVATION SHALL CONFORM TO O.B.C. SECTION 9.12. DRAWINGS, THE MANUFACTURER SHALL SUPPLY CALCULATIONS AND SHOP DRAWINGS THE APPLICATION OF V.C.T ETC TEMPERATURE DIFFERENTIAL, THE COMPONENT OR ASSEMBLY SHALL INCLUDE MATERIALS 15.1 STAIRS, RAMPS, HANDRAILS & GUARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STAMPED AND APPROVED BY A OUR OFFICE (WHICH SHALL INCLUDE ALL LOADS AND TO RESIST HEAT TRANSFER OR MEANS TO DISSIPATE TRANSFERRED HEAT. THE CONSTRUCTOR SHALL LOCATE, IDENTIFY, MARK AND PROTECT ALL INGROUND & **SECTION 6 - SOIL GAS CONTROL (RADON)** REACTIONS) PRIOR TO CONSTRUCTION. O.B.C. 9.8. OVERHEAD SERVICES AND CONNECTIONS ON SITE OR WITHIN EASEMENTS, ROAD INSULATION SHALL BE PROTECTED WITH GYPSUM WALL BOARD OR AN EQUIVALENT ALLOWANCES, ETC. PRIOR TO COMMENCING CONSTRUCTION. 10.13 TOP PLATES IN WALLS SHALL NOT BE NOTCHED, DRILLED, OR OTHERWISE WEAKENED TO 12.4 REQUIRED EXIT STAIRS SHALL HAVE A WIDTH, MEASURED BETWEEN WALL FACES OR 6.1 SOIL GAS CONTROL TO CONFORM TO O.B.C. 9.13.4 & SB-9 INTERIOR VINISH. WITH THE EXCEPTION OF AND UNFINISHED BASEMENT, UNLESS REDUCE THE UNDAMAGED WIDTH TO LESS THAN 2" UNLESS THE WEAKENED PLATES ARE GUARDS. OF NOT LESS THAN 2'-11". ALL EXCAVATIONS & SITE WORKS SHALL BE COMPLETED IN A MANNER TO PREVENT OTHERWISE NOTED. SUITABLY REINFORCED. CONSTRUCTOR TO SELECT THE MOST APROPRIATE SOIL GAS CONTROL SYSTEM DAMAGE TO ADJACENT PROPERTIES, EXISTING STRUCTURES, UTILITIES, ROADS, AND MAXIMUM STAIR HEIGHT OR MAXIMUM VERTICAL HEIGHT BETWEEN LANDINGS SHALL BE INCLUDING: AN AIR BARRIER SYSTEM SHALL BE INSTALLED TO PROVIDE PRINCIPAL RESISTANCE TO AIR 10.14 WHERE AS SILL PLATE PROVIDES END BEARING FOR THE FLOOR SYSTEM, THEY SHALL NOT 12.5 SIDEWALKS AT ALL STAGES OF CONSTRUCTION 12'-2". CLEAR HEIGHT OVER LANDINGS AND STAIRS, MEASURED VERTICALLY FROM ALINE SOIL GAS PIPE SYSTEM & MANDATORY RADON TESTING DRAWN THROUGH THE LEADING EDGES OF THE TREADS, SHALL BE NOT LESS THAN 6'-5" IN BE LESS THAN 2x4 SOIL GAS BARRIER SYSTEM & VOLUNTARY RADON TESTING THE CONSTRUCTOR SHALL REPAIR ALL OF HIS OR HER DAMAGE TO EXISTING DWELLINGS AND 6'-9" ELSEWHERE. SUBFLOOR DEPRESSURIZATION SYSTEM & MAKEUP AIR SYSTEM CONSTRUCTED OR LANDSCAPED ITEMS AT HIS OR HER EXPENSE. ALL BUILDING THE AIR BARRIER SYSTEM SHALL BE CONTINUOUS ACROSS CONSTRUCTION, CONTROL AND 10.15 SILL PLATES SHALL BE LEVELLED BY SETTING THEM ON A FULL BED OF MORTAT, OR LAID CONFORMING TO O.B.C. 9.32.3.8. EXPANSION JOINTS, AS WELL AS ACROSS JUNCTIONSBETWEEN DIFFERENT BUILDING EXCEPT FOR STAIRS WITHIN A DWELLING UNIT, AT LEAST 3 RISERS SHALL BE PROVIDED IN 20.1 MATERIALS SHALL BE STORED IN A NEAT AND SAFE MANNER WHICH IS PROTECTED FROM DIRECTLY ON THE FOUNDATION (PROTECTED BY A GASKET) WHERE THE TOP OF THE ASSEMBLIES AND AROUND ALL PENETRATIONS THROUGH THE BUILDING ASSEMBLY. WEATHER. FOUNDATION IS LEVEL **SECTION 7 - FOUNDATION WALLS** A VAPOUR BARRIER SHALL BE INSTALLED TO PROVIDE THE PRINCIPAL RESISTANCE TO SOIL CONDITIONS UNDER FOOTINGS, SLABS ON GRADE, AND/OR PADS ARE CRUCIAL AND 10.16 ANCHORAGE OF BUILDING FRAMES TO THE FOUNDATION SHALL CONSIST OF ANCHOR RISERS SHALL HAVE UNIFORM HEIGHT IN ANY ONE FLIGHT WITH A MAXIMUM TOLERANCE WATER VAPOUR DIFFUSION. THE 6 MIL. VAPOUR BARRIER SHALL BE APPLIED, LAPPED AND SHALL CONSIST OF A COMPACTED GRANULAR MATERIAL AS PER THE FOUNDATION ALL FOUNDATION WALLS TO CONFROM TO 0.B.C. 9.15. OF 1/4" BETWEEN ADJASCENT TREADS OR LANDINGS, AND 1/4" BETWEEN THE TALLEST BOLTS THAT ARE A MINIMUM DIAMETER OF 1/2", SPACED NOT GREATER THAN 7'-10", IN SEALED ON THE WARM SIDE OF ALL ASSEMBLIES. SPECIFICATIONS WITHIN THIS PLAN, OR ON UNDISTURBED SOIL THAT ALLOWS WATER TO AND SHORTEST RISERS IN A FLIGHT. ACCORDANCE WITH O.B.C. 9.23.6. DRAIN TO A DEPTH BELOW THE EXPECTED FROST LINE AND HAS A MINIMUM ALLOWABLE 7.2 CONCRETE USED IN FOUNDATION WALLS TO CONFORM TO THE APPROPRIATE THE VAPOUR BARRIER SHALL BE CONTINUOUS AND ALL JOINTS ARE TO BE OVERLAPPED BY SOIL BEARING CAPACITY OF 75kPa. REQUIREMENTS IN O.B.C. 9.3.1 TREADS SHALL HAVE UNIFORM RUN AND TREAD DEPTH, WITH A MAXIMUM TOLERANCE OF 10.17 UNLESS OTHERWISE NOTED, ALL BEAMS SHALL HAVE MIN. 3" END BEARING. FLOOR, A MINIMUM OF 4", AND SEALED WITH AN ACOUSTICAL SEALANT. CEILING, AND ROOF JOISTS TO HAVE MIN. 1-1/2" END BEARING. 1/4" BETWEEN ADJASCENT TREADS, AND 1/4" BETWEEN THE DEEPEST AND SHALLOWEST ALL ORGANIC MATERIALS MUST BE REMOVED FROM THE FOUNDATION EXCAVATION TO FOUNDATION WALLS SHALL EXTEND MINIMUM 6" ABOVE FINISHED GRADE FOR MASONRY RUNS AND TREADS IN A FLIGHT. CONSTRUCTION AND/OR FOUNDATION BACKFILLING. THE VAPOUR BARRIER SHALL BE PROPERLY SEALED AT ALL ELECTRICAL BOXES. FINISH ABOVE, 8" FOR WOOD SIDING OR EIFS FINISH. WHERE A BEAM IS MADE UP OF INDIVIDUAL PIECES OF LUMBER THAT ARE NAILED ELECTRICAL WIRING, PLUMBING INSTALLATIONS, VENT DUCTS, AND WALL INTERSECTIONS. INTERIOR STAIRS WITHIN DWELLINGS SHALL HAVE: TOGETHER, THE INDIVIDUAL MEMBERS SHALL BE 1-1/2" OR GREATER IN THICKNESS AND THE EXCAVATION SHALL BE COMPLETELY VOID OF WATER BEFORE & DURING CONCRETE 7.4 THE THICKNESS OF CONCRETE IN FLAT INSULATING CONCRETTE FORM FOUNDATION INSTALLED ON EDGE. MAX RISE 12.10 CARPENTERS OR FRAMERS SHALL SUPPLY AND INSTALL VAPOR BARRIER AT THE WALLS SHALL BE NOT LESS THAN THE GREATER OF 5 1/2" OR THE THICKNESS OF THE PLACEMENT. IF A DRY EXCAVATION CANNOT BE ACHIEVED, A PROFESSIONAL ENGINEER MIN. RISE CONCRETE FORM UNITS SHALL BE LATERALLY SUPPORTED AT THE TOP AND THE BOTTOM. 10.19 FLOOR JOISTS MAY BE TOP MOUNTED OR FLUSH MOUNTED TO BEAMS. MIN RUN 9 1/4" (INCLUDES 1" NOSING) MIN TREAD WIDTH THE CONSTRUCTOR SHALL VERIFY SOIL CONDITIONS AND REPORT TO THE DESIGNER PRIOR 7.5 APPLICATION OF FOUNDATION DAMPPROOFING OR WATERPROOFING SHALL CONFORM TO 10.20 ALL EXTERIOR WOOD COLUMNS SHALL BE 6x6" UNLESS NOTED. MIN STAIR WIDTH. 12.11 ALL FLASHINGS SHALL BE ADEQUATE TO PREVENT LEAKAGE UNDER ALL CONDITIONS. TO COMMENCING CONSTRUCTION. MIN HEAD ROOM 10.21 ALL STUDS IN LOAD BEARING PARTITIONS SHALL BE CONTINUOUS, ONE PIECE, FROM PLATE SHOWER AND BATHTUB SURROUNDS SHALL BE LINED WITH A WATERPROOF SHEATHING WHEN BACKFILLING, SPECIAL CARE SHALL BE TAKEN NOT TO DAMAGE FOUNDATION FOUNDATION WALLS SHALL BE CONSIDERED LATERALLY SUPPORTED AT THE TOP IF THE TO PLATE, AND RESTRAINED AT MID HEIGHT WITH SOLID BLOCKING (GIRTS). WHERE ANGLED TREAD OR WINDERS ARE INCORPORATED INTO A STAIR, THE TREADS IN SUCH AS WATERPROOF GYPSUM WALL BOARD, CEMENT BOARD, OR OTHER PREMIUM WALLS, EXTERNAL INSULATION AND DAMPROOFING/ WATERPROOFING MEMBRANES. FLOOR JOISTS ARE EMBEDDED IN THE TOP OF THE FOUNNDATION WALLS OR THE FLOOR ALL SETS OF ANGLED TREADS OR WINDERS WITHIN A FLIGHT SHALL TURN IN THE SAME SYSTEM IS ANCHORERD TO THE TOP OF THE FOUNDATION WALLS WITH ANCHOR BOLTS, IN 10.22 ALL EXTERIOR LOAD BEARING STUDS NOT RECEIVING 1/2" SHEATHING SHALL HAVE WALL BOARD MATERIAL BACKFILLING SHALL NOT COMMENCE UNTIL ALL REQUIRED LATERAL SUPPORT IS WHICH CASE THE JOISTS MAY RUN EITHER PARALLEL OR PERPENDICULAR TO THE DIAGONAL BRACING AT CORNERS. 12.13 2" RIGID INSULATION AND A VAPOUR BARRIER SHALL BE INSTALLED UNDER SLABS ON FOUNDATION WALLS. STAIRS WITHIN DWELLING UNITS ARE PERMITTED TO CONTAIN WINDERS THAT CONVERGE GROUND IN HABITABLE SPACES. TO A CENTER POINT PROVIDED THE WINDERS TURN THROUGH AN ANGLE OF NOT MORE 10.23 PROVIDE DOUBLE STUDS AT OPENINGS, TRIPLE STUDS AT CORNERS, AND DOUBLE PLATES BACKFILL SHALL BE GRADED TO PREVENT DRAINAGE TOWARDS THE FOUNDATION AFTER SECTION 8 - MASONRY AT ON TOP OF ALL LOAD BEARING WALLS AND PARTITIONS. PROVIDE DOUBLE JACK STUDS PROVIDE A PREMANUFACTURED STORM COLLAR, CAULKED TO ALL PLUMBING VENTS AND FOR LINTELS w/ SPANS GREATER THAN 10'-0". LEADING EDGES OF TREADS THAT ARE BEVELLED OR ROUNDED SHALL NOT REDUCE THE 2.12 "UNDERSIDE OF FOOTINGS" AS NOTED ON SITE PLANS IS DERIVED FROM ARCHITECTUR 10.24 BLOCKING FOR THE SUPPORT OF NON LOADBEARING WALLS SHALL BE PROVIDED. REQUIRED TREAD DEPTH BY MORE THAN 5/8" AND NOT, IN ANY CASE, EXCEED 1" 12.15 ALL FOUNDATION WALLS ENCLOSING EXCAVATED BASEMENT OR CRAWL SPACES DRAWINGS, AND DOES NOT REFLECT SOFT GROUND, TRENCHED FOOTINGS, GARAGE C AREAS SHALL RECEIVE AN APPROVED DAMPPROOFING, OR WATERPROOFING, FROM TOP DECK/PORCH FOUNDATIONS, OR BASES AT WALKOUT CONDITIONS. 10.25 JOISTS UNDER ALL PARTITIONS SHOULD BE BLOCKED OR BRIDGED.

10.26 HEADER AND TRIMMER JOISTS SHALL BE DOUBLED.

JOIST OR SOLID BLOCKING BETWEEN JOISTS.

LOCATION RESTRICTIONS.

SOLID PANEL BLOCKING @ 2'-0" OC.

PAINTERS.

**SECTION 11 - ROOF** 

LESS THAN 3/4" THICK.

10.27 NON LOADBEARING WALLS PARALLEL TO THE FLOOR JOIST SHALL BE SUPPORTED BY A

10.28 NON LOADBEARING INTERIOR WALLS PERPENDICULAR TO THE FLOOR JOIST HAVE NO

10.29 LOAD BEARING INTERIOR WALLS PARALLEL TO FLOOR JOIST SHALL BE SUPPORTED BY

10.31 A BOTTOM WALL PLATE SHALL BE PROVIDED IN ALL CASES. THE BOTTOM PLATE IN

10.32 ALL PARTITION WALLS SHALL BE MINIMUM 2x4 STUDS FRAMED AT 16" CENTERS, UNLESS

10.33 ALL BEARING WALLS SHALL BE MINIMUM 2x6 STUDS FRAMED AT 16" CENTERS, UNLESS

10.34 SUBFLOORING SHALL BE 5/8" T&G SPRUCE PLYWOOD GLUED TO SUPPORTING JOISTS.

10.35 FLOOR JOISTS PARALLEL TO FOUNDATION WALLS SHALL RECEIVE SAME FLOOR JOISTS OR

10.36 ALL JOISTS SHALL BE BRIDGED WITH 1-1/2"X1-1/2" CROSS BRIDGING OR 1-1/2" THICK

CLEARANCE BETWEEN WOOD AND ANY EXPOSED FLUE SMOKE PIPE OR VENT.

10.37 MAINTAIN 2" CLEARANCE BETWEEN WOOD AND CHIMNEYS. MAINTAIN 18"

FIELD MEASURE BEFORE COMMENCING FABRICATION.

THAN 2 RAFTER OR JOIST SPACES WIDE.

SUPPORTED DIRECTLY ABOVE THE EXTERIOR WALLS.

WALL AND ROOF SHEATHING SHALL BE 1/2" SPRUCE PLYWOOD, EDGE NAILED. INSTALL

SOLID BLOCKING AT 6'-11" MAX. STRAPPING SHALL BE 1x3 SPACED AT 6'-11" WHERE

ROOF RAFTERS, ROOF JOISTS, AND CEILING JOISTS SHALL BE CONTINUOUS MEMBERS, OR

ROOF AND CEILING MEMBERS SHALL BE DOUBLED ON EITHER SIDE OF OPENINGS GREATER

PEAK, OR MAY BE OFFSET BY THEIR OWN THICKNESS IF NAILED TO A RDGE BOARD NO

RAFTERS SHALL BE SHAPED AT SUPPORTS TO PROVIDE EVEN BEARING SURFACES AND

SHALL BE SPLICED OVER VERTICAL SUPPORTS THAT EXTEND TO SUITABLE BEARING.

ALL PLYWOOD WITH THE SURFACE GRAIN AT RIGHT ANGLES TO THE SUPPORTS, STAGGER

MORE THAN 2'-11" FROM THE JOIST SUPPORTWHEN THE WALL DOES NOT SUPPORT A

ONE OR MORE FLOORS, UNLESS THE JOISTS SIZE IS DESIGNED TO SUPPORT SUCH LOADS.

2.12	"UNDERSIDE OF FOOTINGS" AS NOTED ON SITE PLANS IS DERIVED FROM ARCHITECTURAL	8.1	MASONRY CONSTRUCTION SHALL CONFORM TO CAN/CSA - LATEST EDITION
2.12	DRAWINGS, AND DOES NOT REFLECT SOFT GROUND, TRENCHED FOOTINGS, GARAGE OR DECK/PORCH FOUNDATIONS, OR BASES AT WALKOUT CONDITIONS.	8.2	UNIT MASONRY FOUNDATION WALLS SHALL CONFORM TO 0.B.C. 9.15.4.
2.13	BACKFILLING OF FOUNDATION WALLS (OTHER THAN THOSE ENCLOSING A BASEMENT) SHALL BE CARRIED OUT (INCLUDING COMPACTION) IN 24" MAXIMUM LIFTS ALTERNATING FROM INTERIOR TO EXTERIOR UNTIL REACHING FINAL GRADE.	8.3	HOLLOW MASONRY UNITS SHALL HAVE min. 1100 p.s.i BEARING CAPACITY. SOLID MASONRY UNITS SHALL HAVE min. 1800 p.s.i. BEARING CAPACITY. ALL MASONRY SHALL BE SUPPORTED ON CONCRETE FOUNDATION WALLS OR STEEL.
2.14	BACKFILL MATERIAL SHALL BE CLEAN SAND OR GRANULAR MATERIAL FREE OF FROST AND ORGANIC MATTER (WOOD, ETC.).	8.4	THE CONSTRUCTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT SPECIFIED CAVITIES AND AIR SPACES IN WALL ARE KEPT FREE OF MORTAR DROPPINGS. EXPOSED MASONRY SHALL HAVE TOOLED JOINTS UNLESS NOTED.
2.15	ALL EXTERIOR FOUNDATION WALLS A SHALL BE DRAINED BY MIN. 4" WEEPING TILES LAID	8.5	PROVIDE WALL TIES AT 16" HORIZONTALLY AND 32"" VERTICALLY UNLESS NOTED

THE OBVERT OF ALL WEEPING TILES SHALL BE COVERED WITH 12" CRUSHED STONE. WALL TIES SHALL BE HEAVY DUTY GALVANIZED STEEL. REFER TO DRAWINGS FOR BUILDINGS SHALL BE LOCATED AND THE SITE GRADED SO THAT WATER SHALL NOT BONDING AND TYING OF MASONRY VENEERS & FACINGS. ACCUMULATE AT OR NEAR BUILDINGS, AND WILL NOT ADVERSELY AFFECT ADJACENT

VINYL BRICK VENTS SHALL OR 3/8" WEEP HOLES SHALL BE PROVIDED AT EVERY THIRD BRICK JOINT OR 24" O.C. AT THE BASE COURSE OF ALL WALL CAVITIES,

AND OVER ALL DOORS, WINDOWS AND OTHER WALL OPENINGS. A MINIMUM 1" AIRSPACE IS REQUIRED BETWEEN MASONRY VENEER AND WALL

ALL CONCRETE WORK SHALL COMPLY WITH CSA-A23.1-14 / CSA-A23.2-14 / CSA-A23.3-14 8.8

MAXIMUM HEIGHT OF MASONRY VENEER NOT TO EXCEED 36'-1". MASONRY VENEER OVER ALL OPENINGS SHALL BE SUPPORTED BY A STEEL ANGLE LINTEL

WITH THE LONG LEG VERTICAL (LLV) AS FOLLOWS PER O.B.C. 9.20.5.2: 3 1/2"x 3 1/2" x 1/4" 7'-7" AND UNDER

4" x 3 1/2" x 1/4" (LLV) 8'-2" 5" x 3 1/2" x 5/16" (LLV) 10'-1" 5" x 3 1/2" x 3/8" (LLV) 10'-8" PROVIDE 6" OF BEARING LENGTH AT EACH END SUPPORT

ALL MORTAR SHALL BE TYPE "S". ALL MASONRY SHALL BE LAID IN A FULL BED OF MORTAR FREE OF ANY FOREIGN OBJECTS.

### **SECTION 9 - STEEL**

BE PROVIDED BY FABRICATOR.

AROUND THE EXTERIOR OF ANY FOUNDATION WALL RETAINING AN UNEXCAVATED AREA.

PROTECT ALL CONCRETE FROM RAIN AND FREEZING DURING THE CURING PROCESS.

20MPa (2,900 PSI) WITH 3" SLUMP +/- 1

20MPa (2,900 PSI) WITH 3" SLUMP +/- 1

32 MPa (4,650 PSI) WITH 3" SLUMP +/- 1

25 MPa (3,625 PSI) WITH 3" SLUMP +/-1

REINFORCEMENT BARS TO BE HI-BOND AND HAVE A MINIMUM YIELD STRENGTH OF

CONTINUOUS REINFORCING BARS SHALL BE LAPPED / SPLICED AT CORNERS IN

ADDITIONAL SUPPORT BARS OR STIRRUPS ARE TO BE USED AS REQUIRED.

BEAMS, 25 IN WALLS, AND 50 IN COLUMNS, UNLESS OTHERWISE NOTED.

SLABS SHALL HAVE A MINIMUM EMBEDMENT AS NOTED IN THE SPLICE NOTES.

VERTICAL STEEL IN THE WALLS OR COLUMNS UNLESS OTHERWISE NOTED.

400MPa. BARS MUST BE HELD SECURELY FOR THE PLACEMENT OF CONCRETE, AND

TYPICAL DETAILS OF THIS DESIGN UNLESS OTHERWISE NOTED (MINIMUM 40X BAR

CONFORMANCE WITH THE REQUIREMENTS OF THE RELEVANT CSA STANDRADS AND THE

MINIMUM COVER FOR REINFORCING BARS SHALL BE 25 BAR DIAMETERS IN SLABS, 40 IN

ALL DOWELS EXCEPT COLUMN DOWELS SHALL HAVE A MINIMUM EMBEDMENT OF 24 BAR

PROVIDE DOWELS TO WALLS, COLUMNS AND PIERS SIMILAR IN SIZE AND SPACING TO THE

FOR CONCRETE EXPOSED TO WEATHER OR EARTH FILL, MINIMUM COVER SHALL BE 50 BAR

BAR DIAMETERS FOR CONCRETE CAST AGAINST EARTH, UNLESS OTHERWISE NOTED.

PROVIDE SLEEVES FOR ALL PIPES PENETRATING SLABS, BEAMS, FOOTINGS, WALLS ETC

ALL SLEEVES LARGER THAN 6" REQUIRE THE APPROVAL OF THE STRUCTURAL ENGINEER.

DIAMETERS (40 FOR STIRRUPS) WHERE FORMS ARE USED. MINIMUM COVER SHALL BE 75

DIAMETERS OR 12" -WHICHEVER IS GREATER, EXCEPT THAT DOWELS FROM WALLS TO

PROVIDE 5-8% AIR-ENTRAINMENT +/-1

FOUNDATION WALLS

BASEMENT FLOORS

THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AFTER 28 DAYS AGE SHALL NOT BE

GARAGE & CARPORT FLOORS, ALL EXTERIOR FLATWORK, AND STEPS

**SECTION 3 - CONCRETE** 

LESS THAN:

/ CSA-A23.4-14. O.B.C. 9.3.1

ALL STEEL SHALL CONFORM TO C.S.A. SPEC. CAN3-S16.1-M89. AND CAN/CSA G40.21-M81 (LATEST EDITION) GRADE 300W EXCEPT FOR H.S.S. SECTIONS SHALL BE GRADE 350W CLASS H UNLESS OTHERWISE NOTED.

ALL FRAMING CONNECTIONS SHALL BE DESIGNED FOR LOADS. SHEARS, AND MOMENTS NOTED ON FRAMING PLANS. WHERE NO LOADS ARE PROVIDED THE CONNECTION SHALL BE DESIGNED BY THE PROFESSIONAL ENGINEER FOR FULL SHEAR CAPACITY OF THE

NO FABRICATION SHALL COMMENCE WITHOUT SHOP DRAWINGS WHICH HAVE BEEN APPROVED BY ALL AFFECTED TRADES AND DESIGN CONSULTANTS. REQUIRED COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED BY CONSTRUCTOR TO AUTHORITIES HAVING JURISDICTION -TO BE INCLUDED AS, AND USED AS PART OF THESE DRAWINGS AND SPECIFICATIONS. THE STEEL FABRICATION SHALL SUPPLY SHOP DRAWINGS SHOWING LOCATION OF ALL ANCHOR BOLTS, WALL PLATES, BEAMS, STEEL ANCHORS ETC.

NO SPLICING OF ANY MEMBER SHALL BE PERMITTED WITHOUT THE APPROVAL OF THE THE CONSTRUCTOR SHALL PROVIDE ALL REQUIRED BRIDGING, ANCHORS, BRACING CONNECTIONS, AND BEARING PLATES, FOR THE ERECTION OF ALL STEEL WHICH MAY NOT

OF FOOTING TO FINISHED GRADE, WHERE EITHER CONDITION IS REQUIRED. 12.16 ALL BELOW GRADE EXTERIOR SURFACE OF FOUNDATION WALLS SHALL HAVE A DRAINAGE

LAYER. FROM TOP OF FOOTING TO FINISHED GRADE. ALL EXPOSED FLASHINGS SHALL BE PRE-FINISHED METAL. ALL FLASHINGS USED AS DRIPS SHALL HAVE 1" DRIPS. ALL VALLEYS SHALL BE METAL FLASHED WITH PRE-FINISHED FLASHINGS (COLOUR SHALL MATCH SHINGLES) AND HAVE CONTIGUOUS ROOFING TRIMMED TO FORM A TAPER WHICH WILL VOID ITSELF OF ANY DEBRIS OR DETAILS.

BEAMS OR WALLS OF SUFFICIENT STRENGTH TO TRANSFER SAFELY THE DESIGN LOADS TO 12.18 ALL SKYLIGHTS SHALL BE MOUNTED ON CURBS AND INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND DETAILS.

### 10.30 LOADBEARING INTERIOR WALLS PERPENDICULAR TO FLOOR JOIST SHALL BE LOCATED NOT **SECTION 13 - VENTILATION**

FLOOR AND NOT MORE THAN 2'-0" FROM THE JOIST SUPPORT WHEN THE WALL SUPPORTS 13.1 EVERY DWELLING SHALL BE PROVIDED BY A MECHANICAL VENTILATION SYSTEM HAVING THE CAPACITY TO EXHAUST INSIDE AIRE OR TO INTRODUCE OUTSIDE AIR AT THE RATE OF MINIMUM 0.3 AIR EXCHANGES PER HOUR (ACH) OVER A 24 HOUR PERIOD.

EXTERIOR WALLS SHALL NOT PROJECT MORE THAN 1/3 OF THE PLATE'S WIDTH OVER THE 13.2 RANGE AND DRYER SHALL BE VENTED DIRECTLY TO THE EXTERIOR THROUGH THE WALL. WASHROOMS TO BE MECHANICALLY VENTED TO PROVIDE A MINIMUM OF 1.0 ACH.

INSULATION SHALL BE INSTALLED AND OTHER CONSTRUCTION WORK UNDERTAKEN IN A MANNER WHICH WILL NOT REDUCE THE FLOW OF AIR THROUGH VENTS OR THROUGH AN OTHER PORTION OF THE ROOF SPACE OR ATTIC WHERE NECESSARY TO ENSURE EFFECTIVE AIR CIRCULATION.

ASBESTOS SHALL NOT BE USED IN AIR DISTRIBUTION SYSTEMS OR EQUIPMENT IN A FORM OR LOCATION WHERE ASBESTOS FIBERS COULD ENTER THE AIR SUPPLY OR RETURN

13.6 THE RETURN AIR SYSTEM SHALL BE DESIGNED TO HANDLE THE ENTIRE AIR SUPPLY.

FLAT ROOFS, ROOF SPACES OR ATTIC SPACES SHALL BE VENTED IN ACCORDANCE WITH

13.8 OPENINGS FOR VENTILATION SHALL BE PROTECTED FROM THE WEATHER AND INSECTS. 13.9 VENTILATION SHALL CONFORM TO 0.B.C. 9.32.

### **SECTION 14 - MECHANICAL EQUIPMENT**

10.38 ALL MILLWORK SHALL BE "MADE TO FIT" WITHIN PRESCRIBED AREAS. SUPPLIER SHALL BUILDINGS CLASSIFIED AS GROUP B, DIVISION 2 OR 3 OCCUPANCIES, OR GROUP C RESIDENTIAL OCCUPANCY THAT ARE INTENDED FOR USE IN THE WINTER MONTHS ON A CONTINUING BASIS SHALL BE INSULATED AND EQUIPPED WITH HEATING FACILITIES THAT 10.39 ALL FINISHES SPECIFIED TO BE "UNFINISHED BY MANUFACTURER" SHALL BE FINISHED BY ARE CAPABLE OF MAINTAINING AN INDOOR AIR TEMPERATURE OF 22 DEGREES CELCIUS AT THE OUTSIDE WINTER DESIGN TEMPERATURE. MECHANICAL SYSTEMS AND EQUIPMENT ARE TO BE DESIGNED AND INSTALLED TO

> ACCOMODATE THE MAXIMUM RELATIVE STRUCTURAL MOVEMENT PROVIDED FOR IN THE CONSTRUCTION OF THE BUILDING. THE OUTSIDE CONDITIONS TO BE USED IN DESIGNING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS SHALL BE DETERMINED IN CONFROMANCE WITH THE ONTARIO BUILDING CODE, VOLUME 2 SUPPLEMENTARY STANDARD SB-1.

RAFTERS SHALL BE PLACED DIRECTLY OPPOSITE EACH OTHER AND TIED TOGETHER AT THE 13.4 EQUIPMENT REQUIRING PERIODIC MAINTENANCE SHLL BE GIVEN PROVISION FOR ACCESS, INSPECTION, MAINTENANCE, REPAIR, AND CLEANING HVAC SYSTEMS SHALL BE PROTECTED FROM FREEZING, IF THEY MAY BE ADVERSELEY AFFECTED BY FREEZING TEMPERATURES.

15.11 A LANDING SHALL BE PROVIDED AT THE TOP AND BOTTOM OF EACH FLIGHT OF INTERIOR

AND EXTERIOR STAIRS, INCLUDING STAIRS IN GARAGES, AND WHERE A DOORWAY OPENS

15.12 WHERE A DOOR AT THE TOP OF A STAIR IN A DWELLING UNIT SWINGS AWAY FROM THE STAIRS, NO LANDING IS REQUIRED BETWEEN THE DOORWAY AND THE STAIR. 15.13 INTERIOR RAMPS WITHIN DWELLING UNITS SHALL HAVE MAX 1 TO 10 SLOPE AND

EXTERIOR RAMPS SHALL HAVE MAX. 1 TO 10 SLOPE. 15.14 PROVIDE HANDRAILS AND GUARDS FOR STAIRS AND RAMPS AND LANDINGS SHALL BE

2'-7" MIN. TO 3'-2" MAX ABOVE NOSING OR RAMP. HAND RAILS SHALL BE CONTINUOUS AND UNOBSTRUCTED EXCEPT FOR NEWEL POSTS, DOORS, AT CHANGES OF DIRECTION.

HANDRAILS SHALL BE TERMINATED IN A MANNER THAT WILL NOT OBSTRUCT PEDESTRIAN TRAVEL OR CREATE A HAZARD.

THAN 5'-11" ABOVE FIN GRADE, OR 3'-6" IF MORE THAN 5'-11" ABOVE FIN GRADE

15.15 A CLEARANCE OF NOT LESS THAN 2" SHALL BE PROVIDED BETWEEN A HANDRAIL AND ANY

15.17 INTERIOR GUARDRAIL HEIGHT WITHIN A DWELLING SHALL BE A MINIMUM OF 3'-0" HIGH 15.18 EXTERIOR GUARDRAIL HEIGHT WITHIN A DWELLING SHALL BE A MINIMUM OF 2'-11" IF LESS

### **SECTION 16 - DOORS & WINDOWS**

ALL WINDOWS, ALL DOORS TO CONFORM WITH O.B.C. 9.7.

WINDOWS LOCATED 6'-7" OR LESS FROM GROUND LEVEL SHALL CONFORM TO O.B.C. 9.7.5.3., RESISTANCE TO FORCED ENTRY FOR WINDOWS.

16.3 ENTRY DOORS SHALL CONFORM TO O.B.C. 9.7.5.2., RESISTANCE TO FORCED ENTRY FOR

16.4 WEATHER STRIPPING SHALL BE PROVIDED AROUND ALL EXTERIOR DOORS.

EXTERIOR OUTSWING DOORS, OTHER THAN STORM DOORS OR SCREEN DOORS, SHALL BE PROVIDED WITH HINGES OR PINS SO THAT THE DOOR CANNOT BE REMOVED WHEN IN THE

16.6 THE PRIMARY ENTRY DOOR TO A DWELLING UNIT SHALL BE PROVIDED WITH A VIEWER OR TRANSPARENT GLAZING IN THE DOOR OR SIDELIGHT.

TO THE EXTERIOR, EVERY FLOOR LEVEL SHALL HAVE MINIMUM (1) EGRESSABLE WINDOW

SQ.FT. UNOBSTRUCTED AREA, WITH ONE DIMENSION MIN. 15" AND MAXIMUM SILL HEIGHT

WHICH SHALL OPEN BY HAND TO EXTERIOR SPACE, AND WHICH SHALL HAVE MIN. 3.8

3'-3" ABOVE FLOOR. WHERE WINDOW WELLS ARE PRESENT THERE SHALL BE MIN 22"

GLASS OTHER THAN SEFETY GLASS SHALL NOT BE USED FOR A SHOWER OR BATHTUB EXCEPT WHERE A DOOR ON THE SAME LEVEL AS THE BEDROOM PROVIDES DIRECT ACCESS

WITH THE EXCEPTION OF BASEMENT AREAS, BEDROOM WINDOWS SHALL HAVE A MAXIMUM SILL HEIGHT OF 3'-3" ABOVE THE FINISHED FLOOR.

16.10 REFER TO DOOR AND WINDOW SCHEDULE WHERE PROVIDED. UNLESS NOTED, DOOR AND WINDOW SIZES ARE GIVEN AS A GUIDE ONLY. ACTUAL SIZES AND ROUGH STUD OPENINGS

MUST BE SELECTED FROM MANUFACTURER'S SPECIFICATIONS SDL SIZE, TYPE AND SPACING TO BE REVIEWED BY THE DESIGNER PRIOR TO ORDER AND 16.12 ALL DOORS AND WINDOWS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATION AND DETAILS. INSTALLERS SHALL MAINTAIN AIR AND VAPOR BARRIER INTEGRITY, AND SHALL SUPPLY AND INSTALL ALL BARRIERS, CAULKING, SEALANTS, SILLS, FASTENERS, ETC. AS REQUIRED TO PROPERLY FINISH INSTALLATION. MASONRY SILLS AND INTERIOR MILLWORK ARE BY OTHERS.

16.13 ALL WINDOWS SHALL BE MINIMUM DOUBLE GLAZED WITH THERMALLY BROKEN

DOORS BETWEEN A GARAGE AND A DWELLING UNIT SHALL BE EXTERIOR TYPE. INSULATED, WEATHER STRIPPED TO PROVIDE GASPROOFING, WITH SELF CLOSERS, LOCKS AND DEAD BOLT.

#### **SECTION 17 - INTERIOR FINISHES**

REFER TO THE ONTARIO BUILDING CODE FOR MINIMUM FLAME SPREAD RATINGS FOR INTERIOR FINISHES. FINISHED MATERIALS SHALL CONFORM TO APPROPRIATE SECTIONS OF THE ONTARIO BUILDING CODE GOVERNING FLAME SPREAD RATINGS WHERE APPLICABLE.

PROVIDE WATER RESISTANT FLOORING IN ALL WASHROOMS, KITCHEN, AND LAUNDRY ROOMS.

17.3 PROVIDE NON-SLIP TREADS ON ALL STAIR TREADS.

CERAMIC FLOOR TILE OR STONE FLOORING SHALL BE BEDDED ON APPROVED DECOUPLING LAYER FOLLOWING MANUFACTURER'S GUIDELINES

17.5 ALL INTERIOR SURFACES SPECIALLY NOTED TO BE PAINTED SHALL BE PRIMED AND SHALL RECEIVE (2) COATS OF QUALITY PAINT.

#### SECTION 18 - SPECIALTIES

18.1 ALL LOUVERS AND VENTS SHALL BE PEST/VERMIN SCREEN.

18.2 REFER TO 'FIREPLACE DETAILS PAGE 'WHERE APPLICABLE.

ALL MANUFACTURER'S CHIMNEYS, VENTS, AND OTHER FUEL FIRED APPLIANCES, SHALL BE U.L.C. LABELED AND INSTALLED IN STRICT COMPLIANCE TO MANUFACTURER'S INSTRUCTIONS. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED IN PROXIMITY TO ALL FUEL FIRED ITEMS.

### SECTION 19 - SMOKE DETECTION

SMOKE ALARMS SHALL HAVE A VISUAL SIGNALING COMPONENT CONFORMING TO THE REQUIREMENTS IN 18.5.3. (LIGHT, COLOR AND PULSE CHARACTERISTICS) OF NFPA 72, "NATIONAL FIRE ALARM AND SIGNALING

INTERCONNECTED SMOKE ALARMS/CO DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH O.B.C. 9.10.19.3:

THERE IS AT LEAST ONE SMOKE ALARM INSTALLED ON EACH STOREY, INCLUDING BASEMENTS, AND

ON ANY STOREY OF A DWELLING UNIT CONTAINING SLEEPING ROOMS, A SMOKE ALARM IS INSTALLED,

IN EACH SLEEPING ROOM, AND

IN A LOCATION BETWEEN THE SLEEPING ROOMS AND THE REMAINDER OF THE STOREY, AND IF THE SLEEPING ROOMS ARE SERVED BY A HALLWAY, THE SMOKE ALARM SHALL BE LOCATED IN

#### SECTION 20 - FURNISHINGS

UN-DETAILED CABINETRY SHALL BE ACCORDING TO OWNER'S SPECIFICATIONS AND SHALL BE DETAILED BY SUPPLIER -SHOP DRAWINGS

ALL CLOSETS SHALL HAVE A ROD AND SHELF

20.3 ALL LINEN CLOSETS SHALL HAVE A MINIMUM OF 4 SHELVES.



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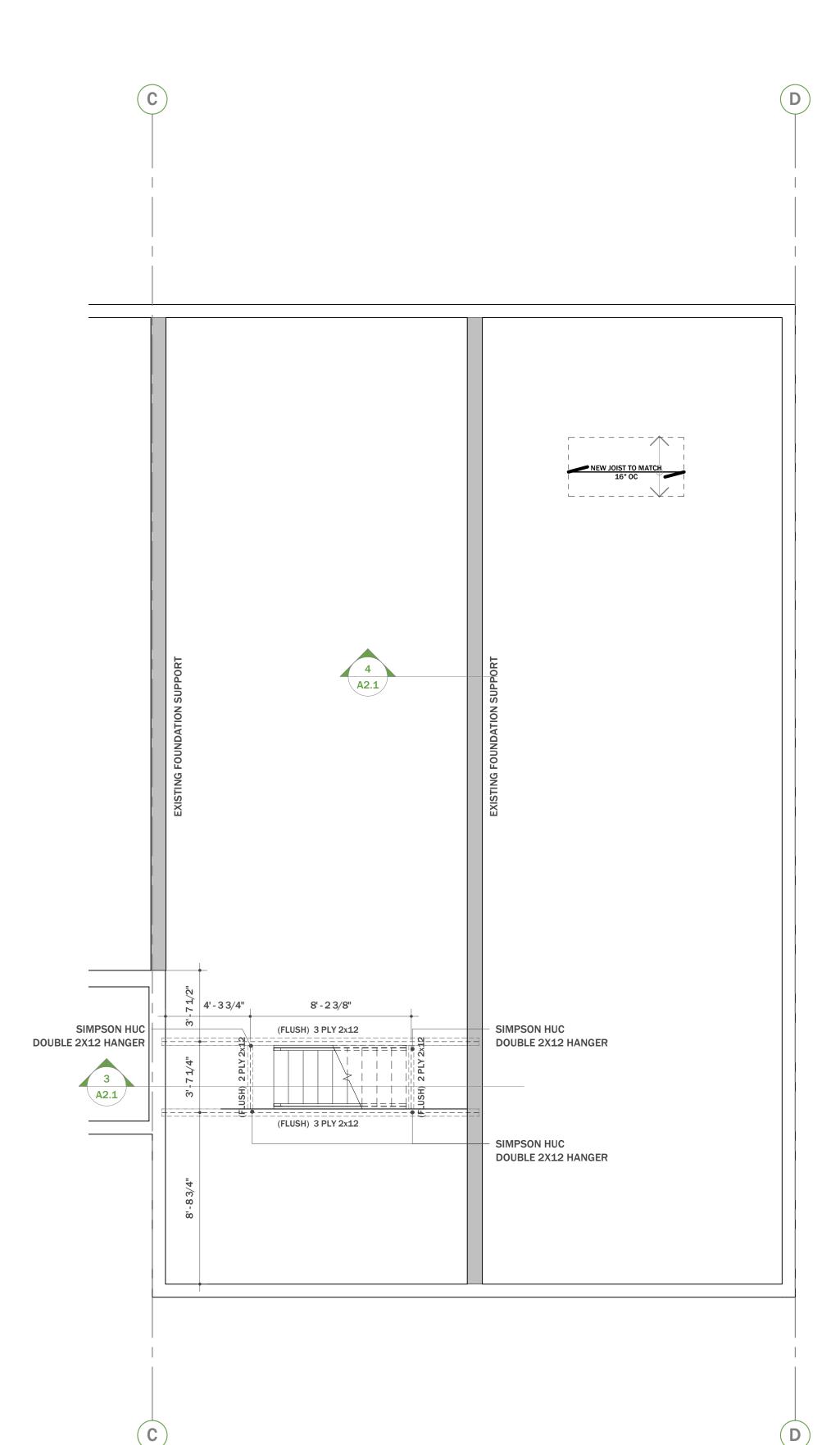
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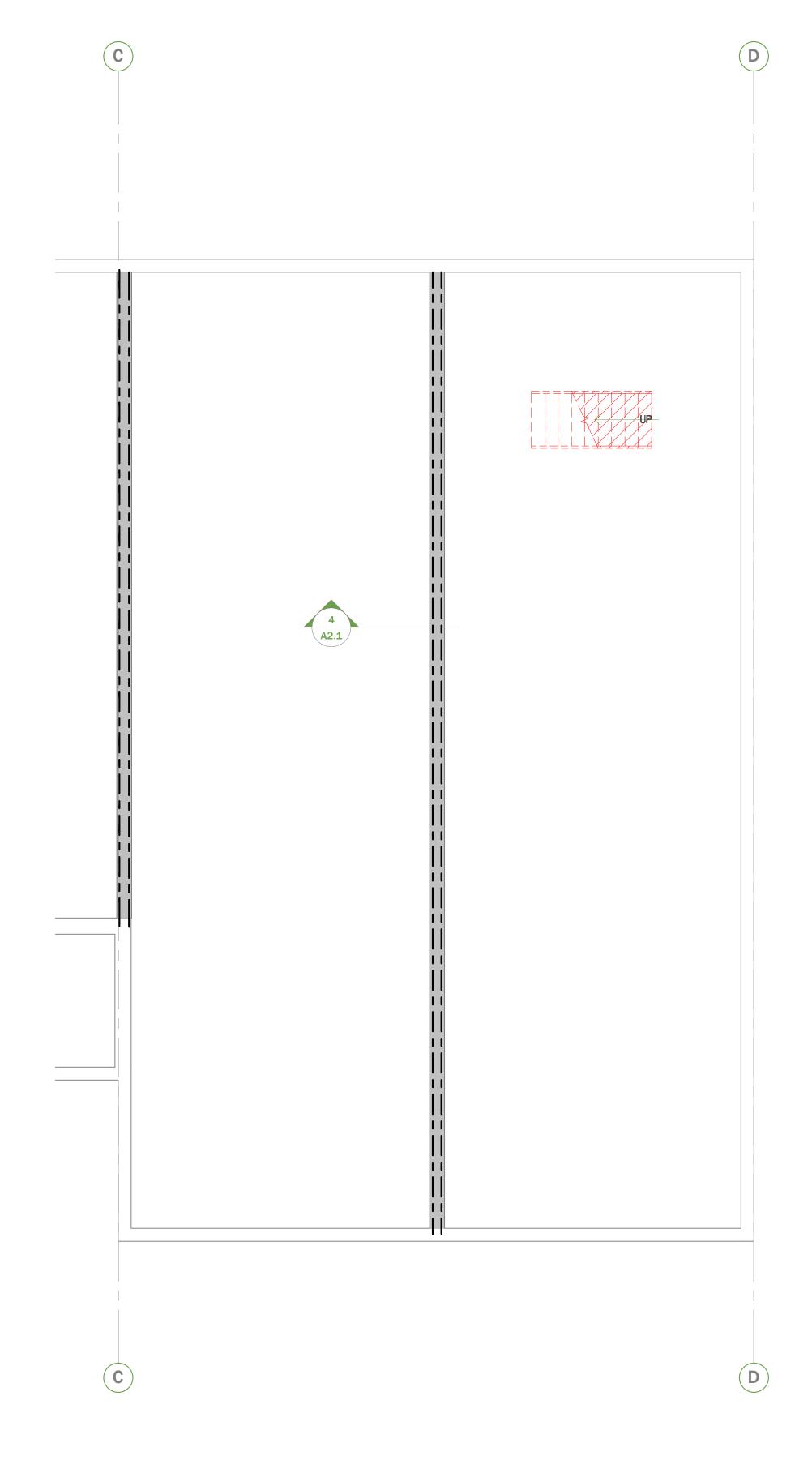


**GENERAL NOTES** 



**BASEMENT - PROPOSED** 

SCALE: 1/4" = 1'-0"



BASEMENT - EXISTING

SCALE: 1/4" = 1'-0"

D. W. LALONDE

Revisions

1. 2024.11.13 FOR BUILDING PERMIT

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CRAWLSPACE
PLAN

A1.1





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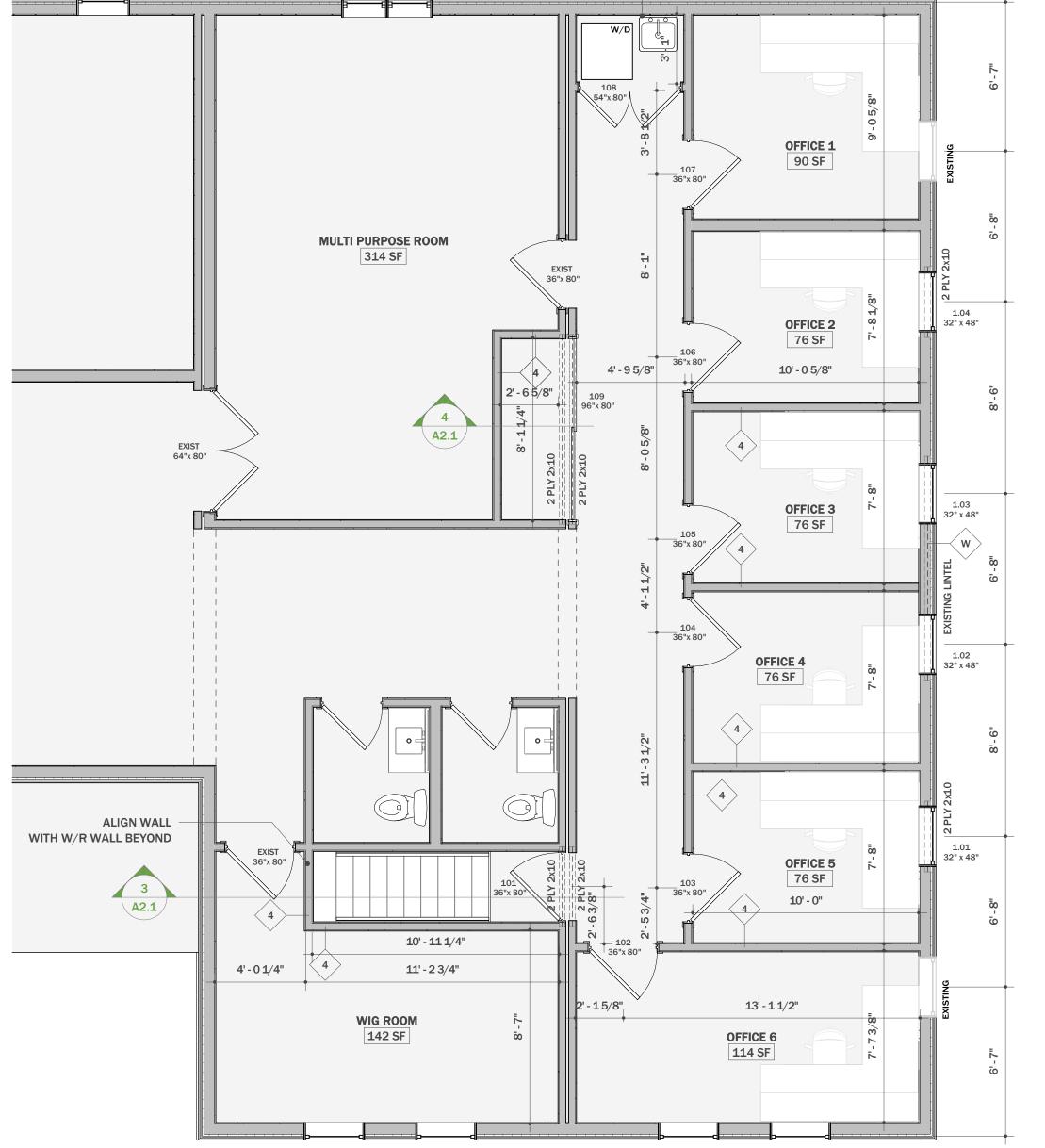
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**PLANS** 

A1.2

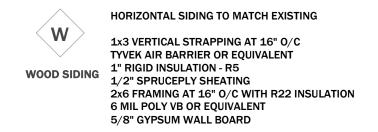
RELOCATE LAUNDRY SERVICE



WINDOW SCHEDULE									
		DIMENS	SIONS						
NO	TYPE	WIDTH	HEIGHT	DESCRIPTION					
	'		,						
		2'-8"	4' - 0"						
1.01	CW	2 -0	T   U						
	cw	2' - 8"	4' - 0"						
1.01 1.02 1.03		_							

DOOR SCHEDULE							
NO	PANEL SIZE						
	WIDTH	HEIGHT	DESCRIPTION				
101	3' - 0"	6' - 8"					
102	3' - 0"	6' - 8"					
103	3' - 0"	6' - 8"					
104	3' - 0"	6' - 8"					
105	3' - 0"	6' - 8"					
106	3' - 0"	6' - 8"					
107	3' - 0"	6' - 8"					
108	4' - 6"	6' - 8"					
109	8' - 0"	6' - 8"					

### EXTERIOR WALL SCHEDULE

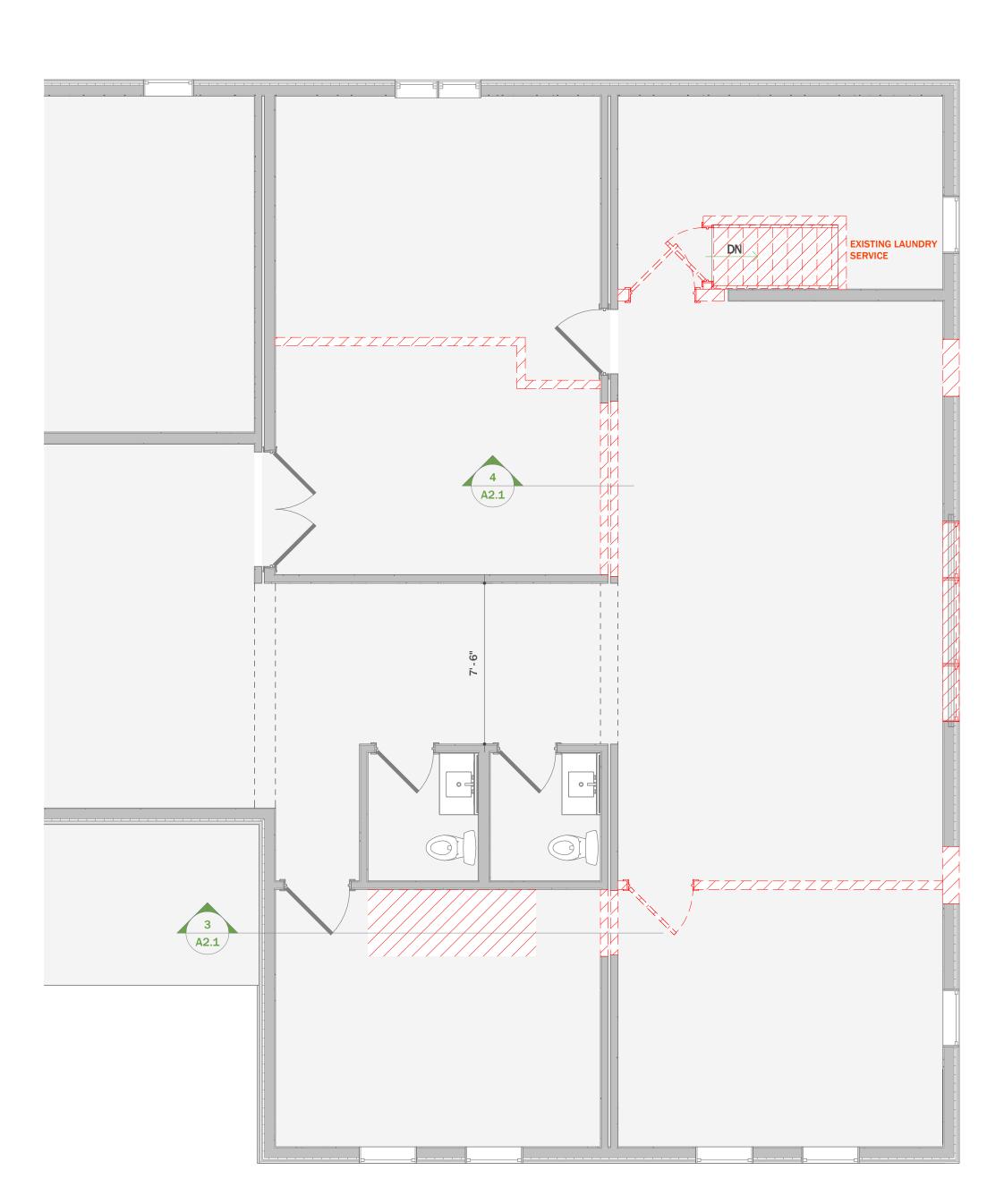


### INTERIOR WALL SCHEDULE

5/8" GYPSUM WALL BOARD 2x4 FRAMING AT 16" O/C 5/8" GYPSUM WALL BOARD

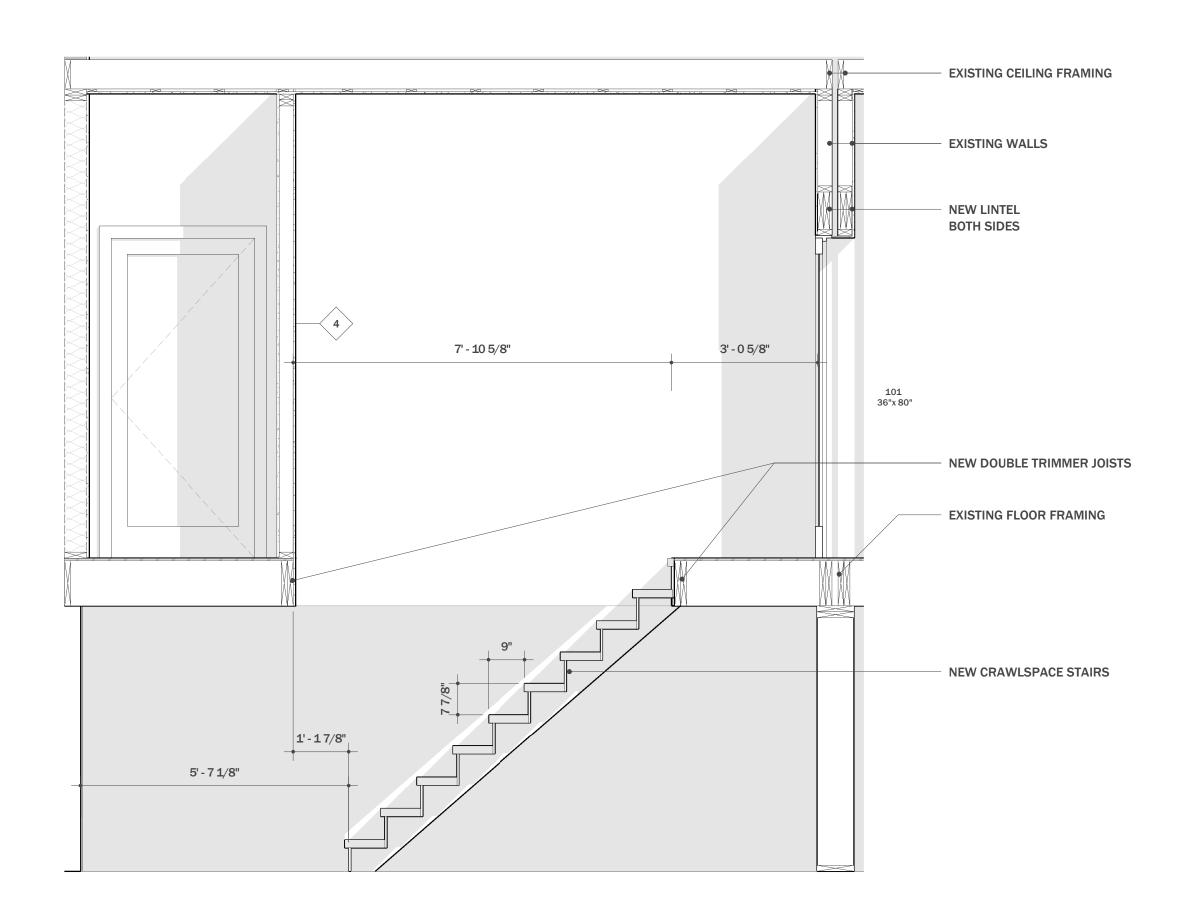
SPF JOISTS TO MATCH EXISTING

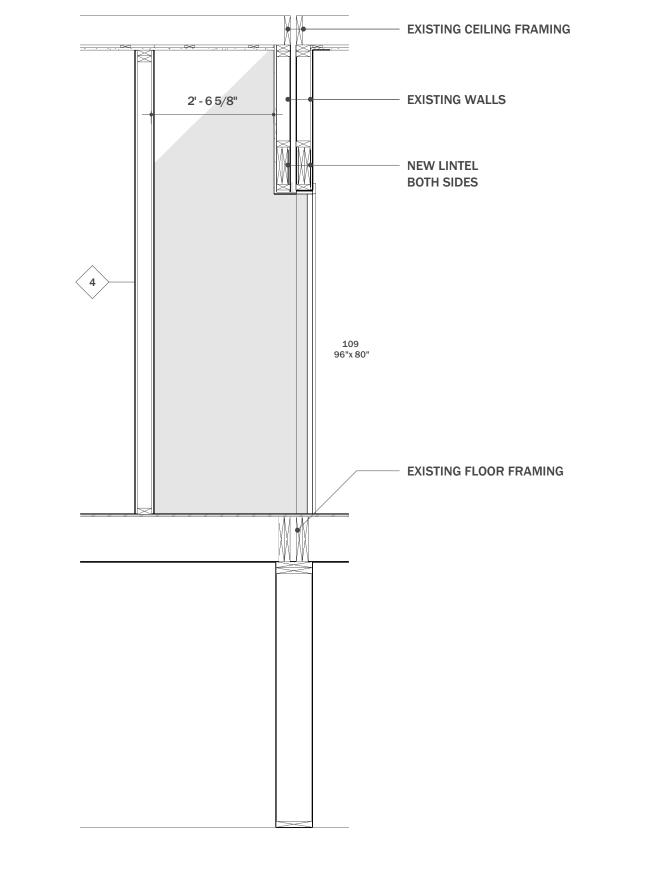
# 2x4 PARTITION **FLOOR SCHEDULE** FINISHED FLOOR TO MATCH EXISTING 5/8" T&G PLYWOOD SUBFLOOR JOISTS



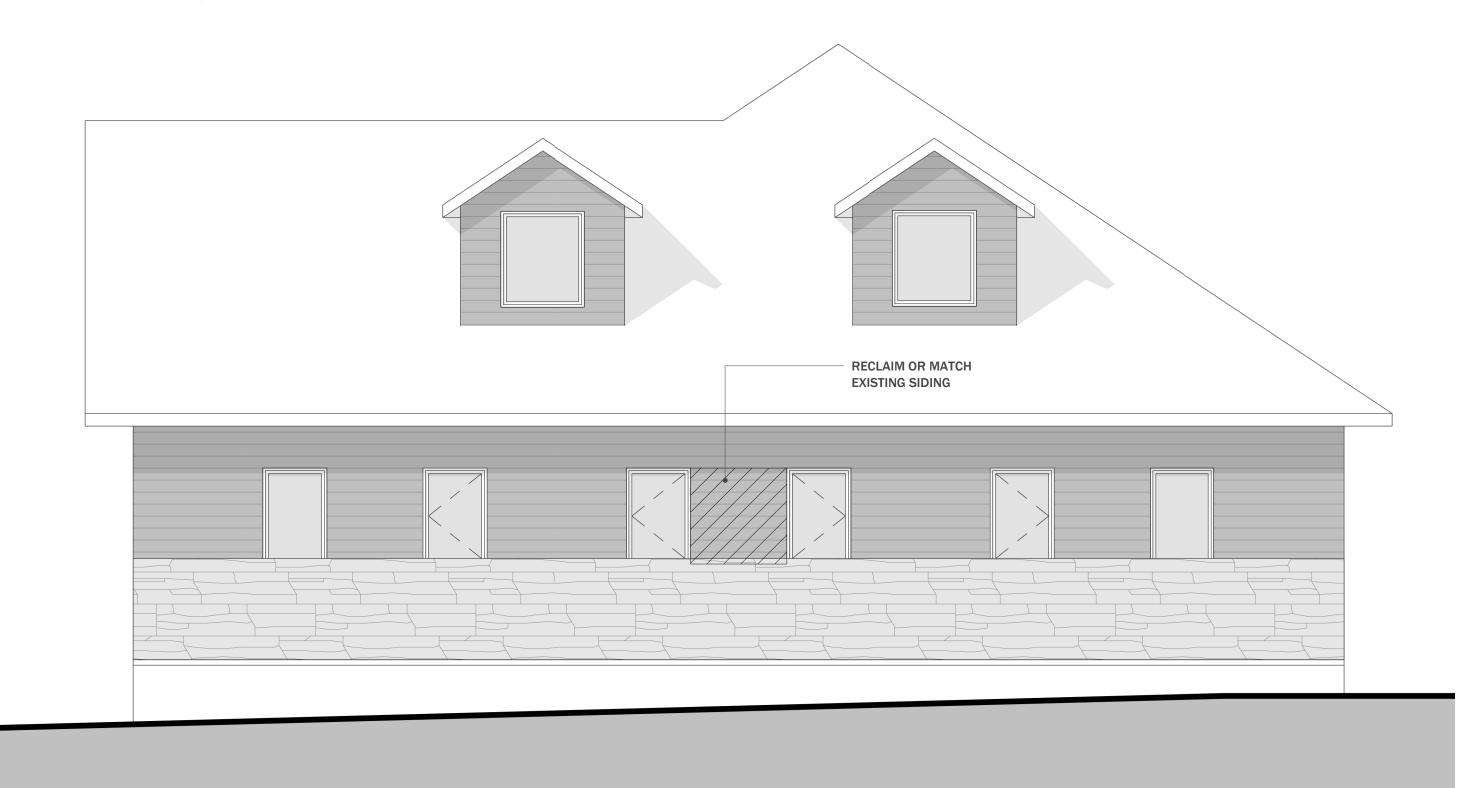
# MAIN - PROPOSED

SCALE: 1/4" = 1'-0"



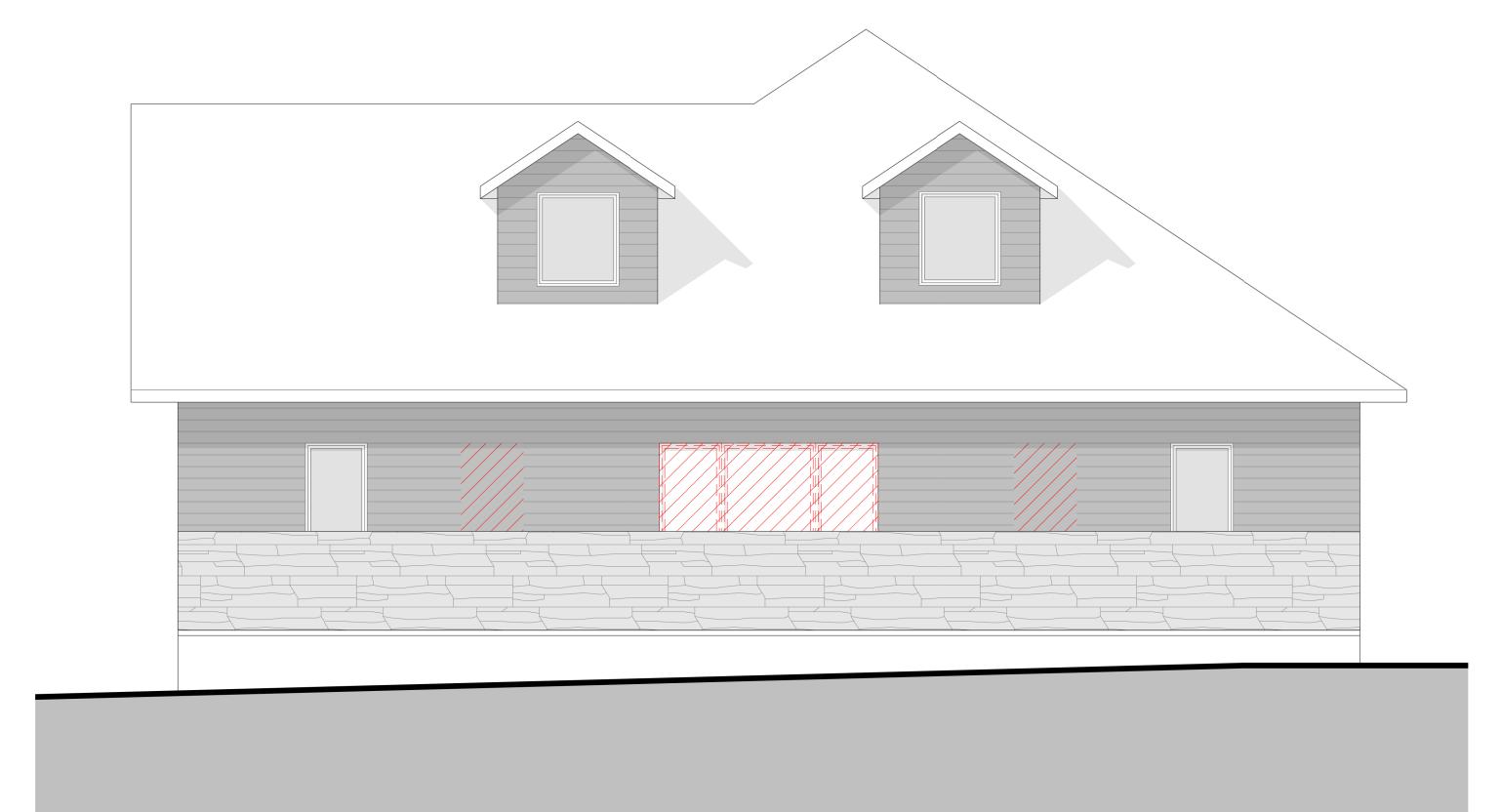






# SECTION - PRINTER CLOSET

SCALE: 1/2" = 1'-0"



## **NORTH ELEVATION - EXISTING**

DESIGN

The Sedward ST.

D. W. LALONDE 2024/11/15

1. 2024.11.13 FOR BUILDING PERMIT

Notes

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Scale As in

**ELEVATIONS** 

A2.1