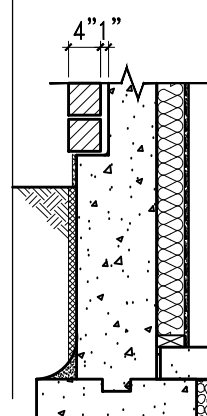
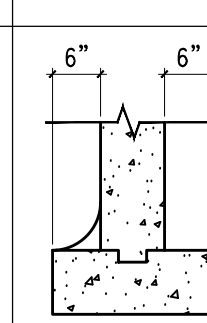
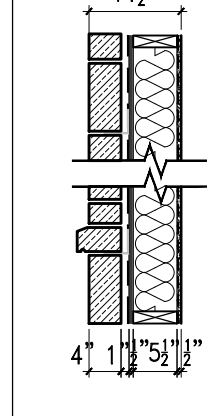
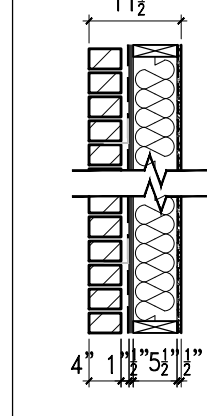
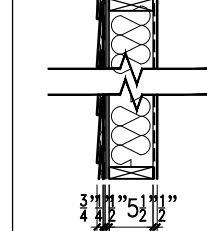
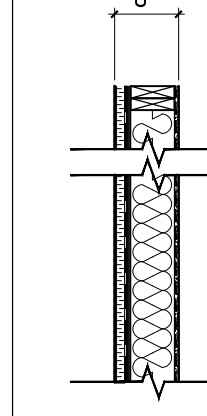
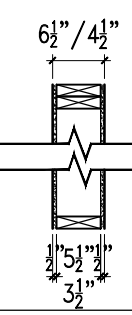
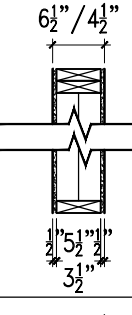
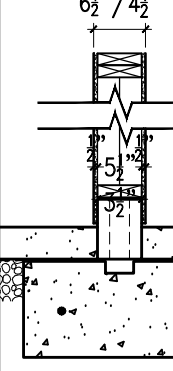
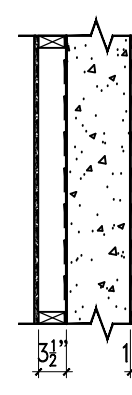
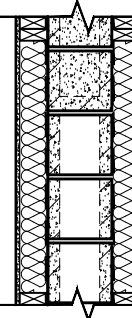


NOTE SCHEDULE:	
1	ALL INTERIOR FINISHES TO BE SPECIFIED BY OWNER, UNLESS NOTED ON DRAWINGS.
2	RENOVATION: (a) ALL EXISTING FRAMING TO BE SITE VERIFIED AND SUITABILITY IS TO BE DETERMINED. (b) ALL NEW EXTERIOR TRIM AND MATERIALS TO MATCH EXISTING UNLESS OTHERWISE STATED. (c) ALL INTERIOR FINISHES TO MATCH EXISTING UNLESS OTHERWISE STATED.
3	FOUNDATION: FOUNDATION WALLS TO BE CUT OUT FOR OVERHEAD DOOR, OR MAN DOOR ABOVE.
4	STAIRS: STAIRS C/W HANDRAIL, REFER TO SPECIFICATION FOR MATERIAL, REFER TO CONSTRUCTION NOTES FOR CONSTRUCTION DETAILS.
6	CABINETY: CABINETY AND MILLWORK AS PER CABINETY MANUFACTURER'S LAYOUT, CONFIRM LOCATION OF APPLIANCES WITH OWNER, ARCHITECT & INTERIOR DESIGNER.
7	CABINETY: UPPER CABINETS TO MANUFACTURER DETAIL C/W LIGHT GAUGE STEEL FRAMING GYPSUM BOARD BULKHEAD FROM TOP OF CABINETS TO CEILING.
8	CABINETY: BUILT-IN CABINETY, AS PER INTERIOR DESIGNER, IF NO INTERIOR DESIGNER IS TO BE CONSULTED, AS PER OWNER'S REQUIREMENTS.
9	CABINETY: BATHROOM VANITY AND MILLWORK AS PER CABINETY MANUFACTURER'S LAYOUT, C/W FULL HEIGHT x VANITY WIDTH MIRROR.
11	BATHROOM: TEMPERED GLASS SHOWER ENCLOSURE C/W 24"x72" TEMPERED GLASS DOOR, 4" CURB AND CERAMIC TILE WALLS AND CEILING, UNLESS OTHERWISE NOTED.
12	BATHROOM: CERAMIC TILE TUB PLATFORM, PROVIDE RECESS ADJACENT TO WINDOW (WHERE APPLICABLE) PROVIDE ACCESS TO WHIRPOOL EQUIPMENT.
14	FIREPLACE: ZERO CLEARANCE GAS FIREPLACE C/W VENT TO EXTERIOR & CARBON MONOXIDE DETECTOR.
15	INTERIOR FINISH: FLAT ARCH OR ARCHWAY, SIZE AND TYPE AS NOTED ON DRAWINGS. COMPLETE WITH TRIM AND CASING TO MATCH DOORS.
16	INTERIOR FINISH: CLOSET FINISH, ROD & SHELF, EXCEPT FOR MASTER BEDROOM WALK IN CLOSETS, WILL HAVE CUSTOM BUILT-INS TO LATER DETAIL.
18	INTERIOR FINISH: LINEN CLOSET, PROVIDE 5 ADJUSTABLE WOOD SHELVES.
19	INTERIOR FINISH: INTERIOR PARTY WALL REFER DETAIL 2/A5.2 SHEET.
20	INTERIOR FINISH: SLOPE CONCRETE FLOOR TO FLOOR DRAIN WITH MINIMUM 2% SLOPE.
21	RAILINGS: HANDRAIL DETAIL: WROUGHT IRON GUARD AS PER OWNER'S SELECTION 3"-6" A.F.F., AS PER O.B.C. REQUIREMENTS. C/W 12"x12" RAISED WOOD MAIN POSTS & 6"x6" SOLID CEDAR INTERMEDIATE POSTS.
23	DOORS/WINDOWS: OVERHEAD GARAGE DOOR - AS PER WINDOW DOOR SCHEDULE.
24	DOORS/WINDOWS: C/W AUTOMATIC OPENER AS APPROVED BY OWNER.
27	DOOR & WINDOW TRIM: DOOR FROM GARAGE TO HOUSE TO BE: INSULATED STEEL DOOR, WEATHER-STRIPPED AND SHALL BE FITTED WITH A SELF CLOSING DEVICE.
29	DOOR & WINDOW TRIM: SILL TRIM: SOLDIER COURSE BRICK, 2"x6" CUT STONE, C/W FLASHING AND DRIP EDGE.
30	DOORS/WINDOWS: LANDSCAPE STONE WINDOW WELL C/W WEeping TILE CONNECTED TO PERIMETER DRAINAGE, PROVIDE MINIMUM 3'-0" IN FRONT OF WINDOW OPENING. GARAGE GAS PROOFING NOTES: ATTACHED GARAGES MUST BE COMPLETELY SEALED TO PREVENT INFILTRATION OF GASES INTO DWELLING. 1. PROVIDE ½" GYPSUM BOARD WITH MINIMUM 2 COATS OF JOINT COMPOUND AT ALL WALLS ADJACENT TO DWELLING. 2. CAULK JOINTS BETWEEN GYPSUM BOARD & OTHER SURFACES WITH ACOUSTIC SEALANT. 3. CAULK ALL PENETRATIONS SUCH AS HOSE BIBS WITH ACOUSTICAL SEALANT. 4. DOORS BETWEEN GARAGE & DWELLING SHALL BE TIGHT FITTING AND WEATHER-STRIPPED AND PROVIDED WITH A SELF CLOSING DEVICE. DOOR MUST NOT OPEN DIRECTLY INTO A ROOM INTENDED FOR SLEEPING. 5. GARAGE SLAB SHALL BE SLOPED TO DRAIN TO OUTDOORS. 6. WHERE AN ATTACHED GARAGE IS ADJACENT TO AN ATTIC SPACE & CAULK WITH ACOUSTIC SEALANT.
31	VENTILATION: COOKTOP/RANGE TO VENT DIRECTLY TO EXTERIOR, UNLESS OTHERWISE SPECIFIED, PROVIDE 10" DUCT WITH FAN MOUNTED ON EXTERIOR WALL OR ROOF.
32	VENTILATION: DRYER TO VENT DIRECTLY TO EXTERIOR.
33	VENTILATION: EXHAUST FAN, ROOMS WHERE SPECIFIED TO BE MECHANICALLY VENTED TO PROVIDE AT LEAST 1 AIR-CHANGE PER HOUR.
34	VENTILATION: ROOF VENTILATION: (HIGH) INSTALL ½"-COLOURED PLASTIC MUSHROOM TYPE VENTS TO PROVIDE VENT AREA OF 1/200 OF THE INSULATED CEILING AREA, OR VENT AREA OF 1/150 WHERE THE ROOF SLOPE IS LESS THAN 1 IN 6. ROOF VENTILATION: (LOW) INSTALL 1" CONTINUOUS CORE VENT BETWEEN CROWN MOULDING AND EXTERIOR WALL.
35	EXTERIOR FINISH: HORIZONTAL WOOD SIDING, PAINT ALL SIDES, PROVIDE 2"x6" PAINTED WOOD CORNER BATTENS UNLESS OTHERWISE STATED.
36	EXTERIOR FINISH: 4" STONE VENEER, RANDOM RECTANGULAR, COLOUR AS APPROVED BY OWNER AND ARCHITECT.
37	EXTERIOR FINISH: 4" BRICK VENEER, COLOUR AS APPROVED BY OWNER AND ARCHITECT.
38	EXTERIOR FINISH: E.I.F.S. (STUCCO) FINISH, COLOUR AS APPROVED BY OWNER AND ARCHITECT.
41	EXTERIOR FINISH: 30 YEAR, 3 TAB ASPHALT SHINGLES, COLOUR AND TEXTURE AS APPROVED BY OWNER AND DESIGNER.
43	EXTERIOR FINISH: MINIMUM 1/2" PARGING ON ALL EXPOSED FOUNDATION WALLS ABOVE GRADE, C/W BROOM FINISH
47	EXTERIOR TRIM: EXTERIOR WOOD BEAM: ENCASE EXTERIOR BEAMS WITH TRIM AND MOULDINGS, AS PER ELEVATIONS AND SECTIONS.
48	EXTERIOR TRIM: CONTINUOUS SILL: CUT STONE SILL, C/W SLOPE, WALL FLASHING AND DRIP EDGE FOR DRAINAGE.
51	ROOF FINISH: PROVIDE ICE AND WATER SHIELD PROTECTIVE MEMBRANE BY "W.R. GRACE & Co." OR APPROVED EQUAL. APPLY MEMBRANE OVER PLYWOOD SHEATHING, MEMBRANE TO EXTEND FROM EDGE OF ROOF OVERHANG (AT LOW SIDE) TO A POINT MINIMUM 5'-0" BEYOND INSIDE FACE OF EXTERIOR WALLS. ALSO INSTALL MEMBRANE UP VALLEYS MINIMUM 1'-6" UP SLOPE EACH WAY TYPICAL.
52	ROOF FINISH: ALL EAVESTROUGHS AND DOWNSPOUTS TO BE PREFINISHED ALUMINUM (PAINTED BLACK)(COPPER) AND DIRECTED AWAY FROM HOUSE. PROFILE TO BE APPROVED BY OWNER AND ARCHITECT.
54	ROOF FINISH: OVERHANG CONSTRUCTION - ½" SHINGLE MOULD ON 1"x10" WOOD FASCIA, WITH 1"x4" T&G SOFFIT.
55	FLASHING: WALL FLASHING: ALL FLASHING TO BE PREFINISHED ALUMINUM, PAINTED TO MATCH.
56	FLASHING: ROOF TO WALL FLASHING: ALL FLASHING TO BE PREFINISHED ALUMINUM, PAINTED TO MATCH.
57	FLASHING: ROOF VALLEY FLASHING: ALL FLASHING TO BE PREFINISHED ALUMINUM, PAINTED TO MATCH.

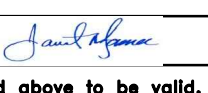
WINDOW & EXTERIOR DOOR SCHEDULE:					
MARK	ROUGH OPENING	MODEL NUMBER, DESCRIPTION			
A	5'-7" x 8'-2"	ENTRY DOOR, 40"x98" INSWING, WOOD. SIDELITE 12"x98" C/W GLAZING PANEL DETAIL. AS PER ELEVATIONS			
B	15'-10" x 8'-0"	OVERHEAD SECTIONAL GARAGE DOOR AND TRANSOM. C/W GLAZING PANELS AS PER ELEVATION AND AUTOMATIC OPENER.			
C	4'-2 3/4" x 5'-11 1/4"	CASEMENT WINDOW, 2-25"x71", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION.			
D	2'-5 3/4" x 6'-0 3/8"	CASEMENT WINDOW, 29"x71", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION.			
E	2'-9 3/4" x 7'-7 7/8"	CASEMENT WINDOW, 33"x71", TRANSOM 33x18, OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION.			
F	2'-10 1/4" x 8'-0 3/8"	ENTRY DOOR, 32"x96" INSWING, WOOD. C/W GLAZING PANEL DETAIL. AS PER ELEVATIONS			
G	4'-2 3/4" x 5'-5 3/4"	CASEMENT WINDOW, 2-25"x65", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION.			
H	6'-2 3/4" x 1'-6 3/4" AS PER ELEVATION	FIXED WINDOW ABOVE FIREPLACE, 74"x18", FINISH AND HARDWARE AS PER CLIENT SELECTION.			
I	6'-4 1/8" x 7'-1 1/8"	CASEMENT WINDOW, 76"x84", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION. GRILLE PATTERN AS PER ELEVATION.			
J	4'-2 3/4" x 7'-1 1/8"	CASEMENT WINDOW, 50"x84", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION. GRILLE PATTERN AS PER ELEVATION.			
K	2'-3 3/4" x 7'-1 1/8"	CASEMENT WINDOW, 27"x84", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION. GRILLE PATTERN AS PER ELEVATION.			
L	7'-3 3/4" x 5'-5 3/4"	CASEMENT WINDOW, 3-28"x65", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION.			
M	2'-1 3/4" x 6'-0 3/8"	CASEMENT WINDOW, 25"x71", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION.			
BA	4'-2 3/4" x 2'-11 1/4" M.O.	CASEMENT WINDOW, 2-25"x35", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION.			
BB	2'-5 3/4" x 3'-0 3/8" M.O.	CASEMENT WINDOW, 29"x35", OPENING DIRECTION, FINISH AND HARDWARE AS PER CLIENT SELECTION.			
NOTE: WINDOWS & DOORS TO MEET FOLLOWING SPECIFICATIONS:					
1.	CONTRACTOR TO VERIFY QUANTITY OF ALL WINDOWS AND DOORS AND WILL BE RESPONSIBLE FOR ALL ORDERING.				
2.	PROVIDE SHOP DRAWINGS FOR VERIFICATION WITH GENERAL CONTRACTOR & ARCHITECT.				
3.	ROUGH SIZES & MODEL NUMBERS PROVIDED, RELATE TO PELLA ARCHITECT SERIES WINDOWS & DOORS. ANY VARIATION OF PRODUCTS AND OR SIZES, SHALL BE REVIEWED BY THE CLIENT & ARCHITECT.				
4.	EXTERIOR FINISH TO BE WOOD. INTERIOR TO BE UNFINISHED & READY FOR PAINT OR STAIN.				
5.	FRAMES TO BE KILN DRIED WESTERN PINE WITH NO FINGER JOINTS. JAMBS TO EXTEND FULL WIDTH OF WALL DIMENSION. BRICK MOULDS TO BE 3/4" WIDE.				
6.	GLASS TO BE DOUBLE-GLAZED THERMALLY BROKEN UNITS WITH LOW "E" & ARGON GAS FILLED.				
MUNTIN BARS: INSULATING GLASS TO CONTAIN FOAM MUNTIN GRID BETWEEN TWO PANES OF GLASS. FOAM GRID IS TO BE ADHERED TO THE GLASS.					
MUNTIN BARS SHALL BE ADHERED TO BOTH SIDES OF THE INSULATING GLASS WITH VHB ACRYLIC ADHESIVE TAPE AND ALLIGNED WITH THE FOAM GRID.					
8.	ALL DOUBLE DOORS SHALL NOT HAVE CENTRE MULLION. ALL DOORS SHALL BE COMPLETE WITH HANDICAP SILLS.				
9.	ALL PICTURE WINDOWS TO BE COMPLETE WITH SASH TO MATCH CASEMENT WINDOWS.				
10.	ALL FRENCH DOORS SHALL BE COMPLETE WITH MICRO SCREENS.				
11.	<div><div><div></div></div><div>DENOTES WINDOW TYPE</div></div> <div><div><div></div></div><div>DENOTES WINDOW NUMBER</div></div>				
ABBREVIATIONS					
CT.	CASEMENT WINDOW	SL.	SIDELIGHT	M.O.	MASONRY OPENING
D.H.	DOUBLE HUNG WINDOW	TR.	TRANSOM	R.O.	ROUGH OPENING (STUD)
WD. DR.	WOOD DOOR	F.G.	FIXED GLASS		
FR. DR.	FRENCH DOOR	F.G.T.	FIXED GLASS TRANSOM		
SC.	SCREEN	F.S.T.	FIXED SCREEN TRANSOM		

CONSTRUCTION SCHEDULE:		
FOUNDATION WALL CONST.		
FW1	<div>FOUNDATION WALL CONSTRUCTION</div> <div>POURED CONCRETE, FINISHED BASEMENT</div> <div>DRAINAGE COMPOSITE C/W FILTER FABRIC - CCMC</div> <div>2-COURSE SPRAY-ON DAMPROOFING, CGSB "37-GP-18M6"</div> <div>½" PARGING ON ALL EXPOSED CONCRETE ABOVE GRADE</div> <div>POURED CONCRETE FOUNDATION (THICKNESS AS PER DRAWINGS)</div> <div>PROVIDE ¾" LEDGE FOR MASONRY VENEER - WHERE APPLICABLE</div> <div>15# FELT PAPER MOISTURE PROTECTION</div> <div>2"x4" SPRUCE STUDS @ 16" O.C.</div> <div>R12 MINERAL WOOL INSULATION</div> <div>6 MIL POLY VAPOUR BARRIER</div> <div>½" GYPSUM BOARD</div> <div>2"x6" CONTINUOUS SILL PLATE C/W ½" x 10" LONG ANCHOR BOLTS @ 4'-0" O.C. AND SILL GASKET</div> <div>COVE PARGING AT FOOTING</div> <div>4" WEeping TILE C/W FILTER FABRIC ON CONTINUOUS POURED CONCRETE FOOTING, AS PER STRUCTURAL SCHEDULE.</div> <div>NOTE: NO DRYWALL IS REQUIRED IN CRAWLSPACES.</div>	
FW2	<div>FOUNDATION WALL CONSTRUCTION</div> <div>POURED CONCRETE, NO WEeping TILE</div> <div>POURED CONCRETE FOUNDATION WALL THICKNESS AS INDICATED ON PLANS</div> <div>PROVIDE ¾" LEDGE FOR MASONRY VENEER WHERE INDICATED</div> <div>PROVIDE CONCRETE COVE AT INTERSECTION OF FOUNDATION AND FOOTING FOR DRAINAGE. (BOTH SIDES)</div> <div>ON CONTINUOUS POURED CONCRETE FOOTING, AS PER STRUCTURAL SCHEDULE.</div>	
EXTERIOR WALL CONSTRUCTION		
W1	<div>RANDOM LIMESTONE VENEER</div> <div>STONE AREAS AS PER ELEVATIONS</div> <div>4" RANDOM STONE VENEER REFER TO ELEVATIONS FOR EXTENT</div> <div>BRICK & STONE TO BE APPROVED BY OWNER</div> <div>1" AIR SPACE</div> <div>BRICK TIES AS PER 9.20.9.5 OF O.B.C.</div> <div>CONTINUOUS STONE SILL</div> <div>"TYVEK" MOISTURE PROTECTION</div> <div>½" SPRUCE PLYWOOD</div> <div>2"x6" SPRUCE STUDS @ 16" O.C.</div> <div>R22 MINERAL WOOL "ROXUL" INSULATION</div> <div>6 MIL POLY CONTINUOUS VAPOUR BARRIER (EXTERIOR GARAGE WALLS WILL NOT BE INSULATED)</div> <div>½" GYPSUM BOARD</div>	
W2	<div>MASONRY/STONE VENEER WALL</div> <div>STONE AREAS AS PER ELEVATIONS</div> <div>4" BRICK/STONE VENEER REFER TO ELEVATIONS FOR EXTENT</div> <div>BRICK & STONE TO BE APPROVED BY OWNER</div> <div>1" AIR SPACE</div> <div>BRICK TIES AS PER 9.20.9.5 OF O.B.C.</div> <div>"TYVEK" MOISTURE PROTECTION</div> <div>½" SPRUCE PLYWOOD</div> <div>2"x6" SPRUCE STUDS @ 16" O.C.</div> <div>R22 MINERAL WOOL "ROXUL" INSULATION</div> <div>6 MIL POLY CONTINUOUS VAPOUR BARRIER (EXTERIOR GARAGE WALLS WILL NOT BE INSULATED)</div> <div>½" GYPSUM BOARD</div>	
W3	<div>HORIZONTAL WOOD SIDING</div> <div>6" (EXPOSED) HORIZONTAL WOOD SIDING, PAINT OR STAIN ALL SIDES</div> <div>ON RIGID PLASTIC DRAINAGE MAT</div> <div>PROVIDE 2"x6" PINE CORNER BATTENS AT IN & AROUND ALL CORNERS - PAINTED OR STAINED TO MATCH</div> <div>"TYVEK" MOISTURE PROTECTION</div> <div>½" SPRUCE PLYWOOD</div> <div>2"x6" SPRUCE STUDS @ 16" O.C.</div> <div>R22 MINERAL WOOL "ROXUL" INSULATION</div> <div>6 MIL POLY VAPOUR BARRIER, TAPE AND SEAL ALL JOINTS</div> <div>½" GYPSUM BOARD</div>	
W4	<div>STUCCO</div> <div>SCREEN WALL CONSTRUCTION</div> <div>APPROVED MINISTER'S RULING: - No. 99-07-66 (12874-R)-DRYVT -OR- - No. 95-03-22 (12416-R)-Sto</div> <div>INSTALL ABOVE CONTINUOUS SILL: FINISH COAT BASE COAT REINFORCING MESH PREP COAT MINIMUM 1 1/2" RIGID INSULATION BOARD ADHESIVE AS PER MANUFACTURER'S SPECIFICATION WATER PENETRATION BARRIER AS PER MANUFACTURER'S SPEC'S ½" CEMENTITIOUS PANELS OR GLASS-MAT SURFACED GYPSUM SHEATHING 2"x6" SPRUCE STUDS @ 16" O.C. R22 MINERAL WOOL "ROXUL" INSULATION 6 MIL POLY CONTINUOUS VAPOUR BARRIER ½" GYPSUM BOARD PROVIDE COPPER FLASHING ABOVE SILL TO BEHIND SIDING INSTALL ABOVE CONTINUOUS SILL</div> <div>NOTE: PROVIDE WEEP HOLES IN DRAINAGE TRACK AT ALL HORIZONTAL CONNECTIONS</div>	

CONSTRUCTION SCHEDULE:		
INTERIOR WALL CONSTRUCTION		
N1	<p>INTERIOR DRYWALL PARTITION</p> <p>½" GYPSUM BOARD EACH SIDE OF 2"x4" OR 2"x6" SPRUCE STUDS @ 16" O.C.</p> <p>NOTE:</p> <ul style="list-style-type: none">~ALL INTERIOR WALLS TO BE 'N1' CONSTRUCTION, UNLESS OTHERWISE NOTED.~PROVIDE MOISTURE GASKET BETWEEN BOTTOM SILL PLATE AND ANY CONCRETE ELEMENTS	
N3	<p>INTERIOR LOAD BEARING, ABOVE BASEMENT</p> <p>~~~ DENOTES EXTENT OF INTERIOR LOAD BEARING WALLS TO BE CONSTRUCTED OF:</p> <ul style="list-style-type: none">2"x6" SPRUCE STUDS @ 12" O.C.OR 2"x4" SPRUCE STUDS @ 12" O.C.C/W ½" GYPSUM BOARD EACH SIDE OF STUDS AS INDICATED ON PLANS	
N4	<p>INTERIOR LOAD BEARING, BASEMENT</p> <p>~~~ DENOTES EXTENT OF INTERIOR LOAD BEARING WALLS TO BE CONSTRUCTED OF:</p> <ul style="list-style-type: none">2"x6" SPRUCE STUDS @ 12" O.C.ON 1 COURSE OF 6" BLOCKON 24" WIDE X 12" DEEPCONCRETE FOOTING WITH 2 CONT. 10M REBAR. PROVIDE MOISTURE PROTECTION ATOP OF CONCRETE BLOCKC/W ½" GYPSUM BOARD EACH SIDE OF STUDS AS INDICATED ON PLANS	
N5	<p>INTERIOR POURED CONCRETE BACKER @ COLD RM</p> <p>POURED CONCRETE FOUNDATION (THICKNESS AS PER DRAWINGS) PROVIDE REINFORCING AS PER STRUCTURAL SCHEDULE ON BOTH SIDES OF FOUNDATION WALL.</p> <ul style="list-style-type: none">15# FELT PAPER MOISTURE PROTECTION BETWEEN CONCRETE AND ALL WOOD FRAMINGAND ALL WOOD FRAMINGSPRUCE STUDS @ 16" O.C. AS PER PLANS½" GYPSUM BOARD2"x6" CONTINUOUS SILL PLATE C/W ½"x 10" LONG ANCHOR BOLTS @ 4'-0" O.C. AND SILL GASKET <p>ON CONTINUOUS POURED CONCRETE FOOTING, AS PER STRUCTURAL SCHEDULE.</p>	
<p>TYPICAL NOTES FOR INTERIOR WALLS:</p> <p>STANDARD APPLICATION</p> <p>NOTE:</p> <ol style="list-style-type: none">WASHROOM WALLS TO HAVE WATER RESISTANT GYPSUM BOARD.SHOWER ENCLOSURES TO BE CLAD WITH WONDER BOARD.PROVIDE POLY MOISTURE PROTECTION BELOW WALLS ATOP OF CONCRETE FLOOR SLABS.PROVIDE SOUND ABSORPTIVE INSULATION IN PARTITIONS AROUND WASHROOMS, ENSUITES, POWDER ROOMS & LAUNDRY ROOMS.		
N6	<p>INTERIOR FOUNDATION WALL</p> <p>POURED CONCRETE BACKER</p> <p>PARTITION TYPE B8c AS PER SUPPLEMENTARY SB3 (TABLE 1) - 2 HR. F.R.R. STC RATING 69</p> <p>POURED CONCRETE FOUNDATION (MIN. 190 THICKNESS OR AS PER DRAWINGS) (PROVIDE SOLID COURSE BOND BEAM AS REQUIRED)</p> <p>PROVIDE REINFORCING AS PER STRUCTURAL SCHEDULE</p> <p>15# FELT PAPER MOISTURE PROTECTION</p> <p>38x64 SPRUCE STUDS @ 610mm O.C. ON EACH SIDE</p> <p>ABSORPTIVE MATERIAL FILLING STUDS SPACE ON EACH SIDE</p> <p>½" GYPSUM BOARD</p> <p>ON CONTINUOUS POURED CONCRETE FOOTING, AS PER STRUCTURAL SCHEDULE.</p>	

ROOF CONSTRUCTION		
R1	<p>SLATE SHINGLE ROOF ENGINEERED TRUSSES</p> <p>ASPHALT SHINGLES – 30 YEAR OR STANDING SEAM COPPER ROOFING, 18" SEAMS, SEALED AND CRIMPED AS PER ELEVATIONS</p> <p>UNDERLAY ICE AND WATER SHIELD ENTIRE ROOF</p> <p>½" SPRUCE PLYWOOD + 1" CLIPS ON, 2"x4" CROSS PURLINS FOR VENTILATION</p> <p>ENGINEERED TRUSSES AS PER TRUSS MANUFACTURER</p> <p>R50 BLOWN IN INSULATION,</p> <p>LOCATE "RAFT-R-MATE" ATTIC RAFTER VENTS TO ENSURE MIN 2" AIR FLOW SPACE BETWEEN TOP OF INSULATION AND BOTTOM OF PURLINS</p> <p>6 MIL POLY VAPOUR BARRIER (GARAGE CEILINGS WILL NOT BE INSULATED)</p> <p>½" GYPSUM BOARD</p> <p>½" PLYWOOD SUB-SOFFIT & 1"x4" T&G WOOD SOFFIT @ PORCHES)</p>	
FLOOR CONSTRUCTION		
F1	<p>CONCRETE FLOOR CONSTRUCTION SLAB ON GRADE</p> <p>4" CONCRETE FLOOR SLAB</p> <p>6 MIL POLY DAMPROOFING</p> <p>5" OF ¾" CLEAR CRUSHED STONE ON GRADE</p>	
F2	<p>EXTERIOR FLOOR CONSTRUCTION FLAGSTONE TOPPING ON STRUCTURAL SLAB</p> <p>1½" FLAGSTONE TOPPING, STYLE & COLOUR TO BE APPROVED BY OWNER & ARCHITECT</p> <p>1" MORTAR BED</p> <p>REINFORCED CONCRETE SLAB ON GRADE</p> <p>REINFORCING AS PER STRUCTURAL DRAWINGS</p> <p>COMPLETE WITH MINIMUM 2% SLOPE AWAY FROM HOUSE FOR DRAINAGE</p>	
F3	<p>WOOD FLOOR CONSTRUCTION TYPICAL APPLICATION</p> <p>¾" T&G SPRUCE PLYWOOD SUBFLOOR</p> <p>GLUE AND SCREW TO WOOD FLOOR JOISTS, REFER TO FLOOR PLANS FOR SIZES</p> <p>2"x2" CROSS BRIDGING AT MAXIMUM 7'-0" SPACING</p> <p>¾" GYPSUM BOARD CEILING, DIRECTLY APPLIED TO UNDERSIDE OF JOISTS</p>	
F4	<p>WOOD FLOOR CONSTRUCTION INSULATED, BOTTOM GARAGE</p> <p>¾" T&G SPRUCE PLYWOOD SUB-FLOOR</p> <p>SCREW TO WOOD FLOOR JOISTS, REFER TO FLOOR PLANS</p> <p>2"x2" CROSS BRIDGING AT MAXIMUM 7'-0" SPACING</p> <p>MIN. R40 SPRAY FOAM INSULATION BETWEEN JOISTS, AND AROUND HVAC DUCTING, AND MECHANICAL PIPING – CCMC, AS PER CAN/ULC 5705.1 CAN/ULC 5705.2</p> <p>¾" GYPSUM BOARD</p> <p>CONTINUOUS 6 MIL POLY VAPOUR BARRIER C/W LAPPED AND CAULKED JOINTS</p>	
F5	<p>CONCRETE FLOOR CONSTRUCTION GARAGE FLOOR</p> <p>4" CONCRETE SLAB (MINIMUM DEPTH)</p> <p>C/W 35MPA & 8% AIR ENTRAINMENT</p> <p>PROVIDE 6"x6"x6/8 WIRE MESH SHEETS</p> <p>SLAB TO BE ON 6" CLEAR CRUSHED STONE</p> <p>AND HAVE MINIMUM 2% SLOPE TOWARDS OVERHEAD DOOR</p>	

Drawings must NOT be scaled. Contractor must check and verify all dimensions, specifications and drawings on site and report any discrepancies to the Designer prior to proceeding with any of the work.

The undersigned has reviewed and takes responsibility for this design, has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer.
REGISTRATION AND QUALIFICATION INFORMATION
Required unless design is exempt under 2.17.5.1 and/or 2.17.4.1 of the Ontario Building Code
FIRM BCIN: 111071
INDIVIDUAL BCIN: 36866
NAME: A. Janet McNamara SIGNATURE: 
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8	19.04.08	RE-ISSUED FOR EXPIRED B.P.
7	17.01.18	REVISED AS PER CITY COMMENTS
6	16.12.02	ISSUED FOR PERMITS
5	16.10.08	ISSUED TO CONSULTANTS
4	16.09.20	ISSUED FOR FLOOR LAYOUTS
3	16.07.28	ISSUED FOR MINOR VARIANCE
2	16.06.14	ISSUED FOR TRUSSES
1	16.03.10	ISSUED FOR REVIEW
REF.	DATE:	DESCRIPTION:
REVISIONS / ISSUANCE:		


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DRAWING TITLE:
GENERAL NOTES & SCHEDULES

DRAWN: J.Mc.
DATE: 18.10.15
JOB NUMBER: 235-16
SCALE: N.T.S.
SHEET NUMBER: A2.1

CONSTRUCTION NOTES:	
9.3.1.6.	COMPRESSIVE STRENGTH
(1)	EXCEPT AS PROVIDED ELSEWHERE IN THIS PART, THE COMPRESSIVE STRENGTH OF UNREINFORCED CONCRETE AFTER 28 DAYS SHALL BE NOT LESS THAN,
(a)	32 MPa (4650 psi) FOR GARAGE FLOORS, CARPORT FLOORS AND ALL EXTERIOR FLATWORK,
(b)	20 MPa (2900 psi) FOR INTERIOR FLOORS OTHER THAN THOSE FOR GARAGES AND CARPORTS, AND
(c)	15 MPa (2200 psi) FOR ALL OTHER APPLICATIONS.
(2)	CONCRETE USED FOR GARAGE AND CARPORT FLOORS AND EXTERIOR STEPS SHALL HAVE AIR ENTRAINMENT OF 5 TO 8%.
9.3.1.7.	CONCRETE MIXES
(1)	FOR SITE-BATCHED CONCRETE, THE CONCRETE MIXES DESCRIBED IN TABLE 9.3.1.7. SHALL BE CONSIDERED ACCEPTABLE IF THE RATIO OF WATER TO CEMENTING MATERIALS DOES NOT EXCEED,
(a)	0.45 FOR GARAGE FLOORS, CARPORT FLOORS AND ALL EXTERIOR FLATWORK,
(b)	0.65 FOR INTERIOR FLOORS OTHER THAN THOSE FOR GARAGES AND CARPORTS, AND
(c)	0.70 FOR ALL OTHER APPLICATIONS.
9.5.2.3.	SUITABLE BLOCKING FOR FUTURE BARRIER FREE ACCESSORIES
(1)	IF WOOD WALL STUDS OR SHEET STEEL WALL STUDS ENCLOSE THE MAIN BATHROOM IN A DWELLING UNIT, REINFORCEMENT SHALL BE INSTALLED TO PERMIT THE FUTURE INSTALLATION OF A GRAB BAR ON A WALL ADJACENT TO,
(a)	A WATER CLOSET IN THE LOCATION REQUIRED BY CLAUSE 3.8.3.8.(1)(D), AND
(b)	A SHOWER OR BATHTUB IN THE LOCATION REQUIRED BY CLAUSE 3.8.3.13.(1)(F).
9.7.5.	SITE-BUILT WINDOWS, DOORS AND SKYLIGHTS
9.7.5.2.	RESISTANCE TO FORCED ENTRY FOR DOORS
(1)	EXCEPT FOR EXTERIOR DOORS TO GARAGES AND TO OTHER ANCILARY SPACES, THIS ARTICLE APPLIES TO,
(a)	SWINGING ENTRANCE DOORS TO DWELLING UNITS,
(b)	SWINGING DOORS BETWEEN DWELLING UNITS AND ATTACHED GARAGES OR OTHER ANCILARY SPACES, AND
(c)	SWINGING DOORS THAT PROVIDE ACCESS DIRECTLY OR INDIRECTLY FROM A STORAGE GARAGE TO A DWELLING UNIT.
(2)	DOORS, FRAMES AND HARDWARE THAT CONFORM TO A SECURITY LEVEL OF AT LEAST GRADE 10 AS DESCRIBED IN THE ANNEX TO ASTM F476, "SECURITY OF SWINGING DOOR ASSEMBLIES", ARE NOT REQUIRED TO CONFORM TO SENTENCES (3) TO (7).
(3)	EXCEPT AS PROVIDED IN SENTENCE (2), WOOD DOORS DESCRIBED IN SENTENCE (1) SHALL,
(a)	BE SOLID CORE OR STILE-AND-RAIL TYPE,
(b)	BE NOT LESS THAN 45mm THICK, AND
(c)	IF OF THE STILE-AND-RAIL PANEL TYPE, HAVE A PANEL THICKNESS OF NOT LESS THAN 19mm, WITH A TOTAL PANEL AREA NOT MORE THAN HALF OF THE DOOR AREA
(4)	EXCEPT AS PROVIDED IN SENTENCE (2), DOORS DESCRIBED IN SENTENCE (1) SHALL BE PROVIDED WITH,
(a)	A DEADBOLT LOCK WITH A CYLINDER HAVING NO FEWER THAN FIVE PINS, AND
(b)	A BOLT THROW NOT LESS THAN 25mm LONG, PROTECTED WITH A SOLID OR HARDENED FREE-TURNING RING OR BEVELED CYLINDER HOUSING
(5)	EXCEPT AS PROVIDED IN SENTENCE (2), AN ACTIVE LEAF IN DOUBLE DOORS USED IN LOCATIONS SPECIFIED IN SENTENCE (1) SHALL BE PROVIDED WITH HEAVY-DUTY BOLTS TOP AND BOTTOM HAVING AN ENGAGEMENT OF NOT LESS THAN 15mm.
(6)	EXCEPT AS PROVIDED IN SENTENCE (2), HINGES FOR DOORS DESCRIBED IN SENTENCE (1) SHALL BE FASTENED,
(a)	TO WOOD DOORS WITH WOOD SCREWS NOT LESS THAN 25mm LONG AND TO WOOD FRAMES WITH WOOD SCREWS SUCH THAT AT LEAST TWO SCREWS PER HINGE PENETRATE NOT LESS THAN 30mm INTO SOLID WOOD, OR
(b)	TO METAL DOORS AND METAL FRAMES WITH MACHINE SCREWS NOT SMALLER THAN No.10 AND NOT LESS THAN 10mm LONG.
(7)	EXCEPT AS PROVIDED IN SENTENCE (2), STRIKEPLATES FOR DEADBOLTS DESCRIBED IN SENTENCE (4) SHALL BE FASTENED,
(a)	TO WOOD FRAMES WITH WOOD SCREWS THAT PENETRATE NOT LESS THAN 30mm INTO SOLID WOOD, OR
(b)	TO METAL FRAMES WITH MACHINE SCREWS NOT SMALLER THAN No.8 AND NOT LESS THAN 10mm LONG.
(8)	EXCEPT FOR STORM DOORS OR SCREEN DOORS, DOORS DESCRIBED IN SENTENCE (1) THAT SWING OUTWARD SHALL BE PROVIDED WITH HINGES OR PINS SO THAT THE DOORS CANNOT BE REMOVED WHEN THEY ARE IN THE CLOSED POSITION.
(9)	SOLID BLOCKING SHALL BE PROVIDED ON BOTH SIDES AT THE LOCK HEIGHT BETWEEN THE JAMBS FOR DOORS DESCRIBED IN SENTENCE (1) AND THE STRUCTURAL FRAMING SO THAT THE JAMBS WILL RESIST SPREADING BY FORCE.
9.7.5.2.	RESISTANCE TO FORCED ENTRY FOR WINDOWS
(1)	IN DWELLING UNITS, WINDOWS, ANY PART OF WHICH IS LOCATED WITHIN 2m OF ADJACENT GROUND LEVEL, SHALL CONFORM TO THE REQUIREMENTS FOR RESISTANCE TO FORCED ENTRY AS DESCRIBED IN CLAUSE 5.3.5. OF AIAA/WDMA/CSA 101/1.5.2/A440, "NAFS – NORTH AMERICAN FENESTRATION STANDARD / SPECIFICATION FOR WINDOWS, DOORS, AND SKYLIGHTS".
9.10.9.16.	SEPARATION OF STORAGE GARAGES
(4)	WHERE A STORAGE GARAGE IS ATTACHED TO OR BUILT INTO A BUILDING OF RESIDENTIAL OCCUPANCY,
(a)	AN AIR BARRIER SYSTEM CONFORMING TO SUBSECTION 9.25.3, SHALL BE INSTALLED BETWEEN THE GARAGE AND THE REMAINDER OF THE BUILDING TO PROVIDE AN EFFECTIVE BARRIER TO GAS AND EXHAUST FUMES, AND
(b)	EVERY DOOR BETWEEN THE GARAGE AND THE REMAINDER OF THE BUILDING SHALL CONFORM TO ARTICLE 9.10.13.15.
CONSTRUCTION OF WALL BETWEEN GARAGE AND DWELLING UNIT TO BE:	
(1)	PROVIDE 30mm (3⁄8") GYPSUM BOARD WITH MINIMUM 2 COATS OF JOINT COMPOUND AT WALLS ADJACENT TO DWELLING UNIT.
(2)	CAULK JOINTS BETWEEN GYPSUM BOARD & OTHER SURFACES WITH ACOUSTIC SEALANT.
(3)	CAULK ALL PENETRATIONS SUCH AS HOSE BIBBS WITH ACOUSTICAL SEALANT.
(4)	WHERE AN ATTACHED GARAGE IS ADJACENT TO AN ATTIC SPACE, CARRY GYPSUM BOARD UP TO ROOF SLOPES AND CAULK WITH ACOUSTIC SEALANT.
9.10.13.15	DOORS BETWEEN GARAGES AND DWELLING UNITS
(1)	A DOOR BETWEEN AN ATTACHED OR BUILT-IN GARAGE AND A DWELLING UNIT SHALL BE TIGHT-FITTING AND WEATHERSTRIPPED TO PROVIDE AN EFFECTIVE BARRIER AGAINST THE PASSAGE OF GASES AND EXHAUST FUMES AND SHALL BE FITTED WITH A SELF-CLOSING DEVICE.
(2)	A DOORWAY BETWEEN AN ATTACHED OR BUILT-IN GARAGE AND A DWELLING UNIT SHALL NOT BE LOCATED IN A ROOM INTENDED FOR SLEEPING.
9.10.19	SMOKE ALARMS
9.10.19.1.	REQUIRED SMOKE ALARMS
(1)	SMOKE ALARMS CONFORMING TO CAN/ULC-553.1, "SMOKE ALARMS", SHALL BE INSTALLED IN EACH DWELLING UNIT AND IN EACH SLEEPING ROOM NOT WITHIN A DWELLING UNIT.
(2)	SMOKE ALARMS DESCRIBED IN SENTENCE (1) 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 CODE".
9.10.19.3.	LOCATION OF SMOKE ALARMS
(1)	WITHIN DWELLING UNITS, SUFFICIENT SMOKE ALARMS SHALL BE INSTALLED SO THAT,
(a)	THERE IS AT LEAST ONE SMOKE ALARM ON EACH FLOOR LEVEL, INCLUDING BASEMENTS, AND ON ANY STOREY OF A DWELLING UNIT CONTAINING SLEEPING ROOMS, A SMOKE ALARM IS INSTALLED
(b)	• IN EACH SLEEPING ROOM, AND
(c)	• 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 THE HALLWAY.
(2)	A SMOKE ALARM REQUIRED IN SENTENCE (1) SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-555.3, "INSTALLATION OF SMOKE ALARMS".
(3)	SMOKE ALARMS REQUIRED IN SENTENCE (1) SHALL HAVE A VISUAL SIGNAL COMPONENT CONFORMING TO THE REQUIREMENTS IN 18.5.3. (LIGHT, COLOR AND PULSE CHARACTERISTICS) OF NFPA 72 "NATIONAL FIRE ALARM SIGNALING CODE" (SEE A-3.2.4.22.(13) IN APPENDIX A.)
9.10.19.4.	POWER SUPPLY
(1)	EXCEPT AS PROVIDED IN SENTENCES (2) AND (3), SMOKE ALARMS REQUIRED IN SENTENCE 9.10.19.1.(1) SHALL,
(a)	BE INSTALLED WITH PERMANENT CONNECTIONS TO AN ELECTRICAL CIRCUIT HAVE NO DISCONNECT SWITCH BETWEEN THE OVERCURRENT DEVICE AND THE SMOKE ALARM, AND
(b)	IN CASE THE REGULAR POWER SUPPLY TO THE SMOKE ALARM IS INTERRUPTED, BE PROVIDED WITH A BATTERY AS AN ALTERNATIVE POWER SOURCE THAT CAN CONTINUE TO PROVIDE POWER TO THE SMOKE ALARM FOR A PERIOD OF NOT LESS THAN 7 DAYS IN THE NORMAL CONDITION, FOLLOWED BY 4 MIN OF ALARM.
(2)	WHERE THE BUILDING IS NOT SUPPLIED WITH ELECTRICAL POWER, SMOKE ALARMS ARE PERMITTED TO BE BATTERY OPERATED

CONSTRUCTION NOTES (CON'T):	
(3)	SUITES OF RESIDENTIAL OCCUPANCY ARE PERMITTED TO BE EQUIPPED WITH SMOKE DETECTORS IN LIEU OF SMOKE ALARMS, PROVIDED THE SMOKE DETECTORS,
(a)	ARE CAPABLE OF INDEPENDENTLY SOUNDING AUDIBLE SIGNALS WITHIN THE INDIVIDUAL SUITES, EXCEPT AS PROVIDED BY SENTENCE (4), ARE INSTALLED IN CONFORMANCE WITH CAN/ULC-552.4, "INSTALLATION OF FIRE ALARM SYSTEMS", AND
(b)	FORM PART OF THE FIRE ALARM SYSTEM
(4)	SMOKE DETECTORS PERMITTED TO BE INSTALLED IN LIEU OF SMOKE ALARMS AS PROVIDED IN SENTENCE (3) ARE PERMITTED TO SOUND LOCALIZED ALARMS WITHIN INDIVIDUAL SUITES, AND NEED NOT SOUND AN ALARM THROUGHOUT THE REST OF THE BUILDING
9.10.19.5.	INTERCONNECTION OF SMOKE ALARMS
(1)	WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED IN A DWELLING UNIT, THE SMOKE ALARMS SHALL BE WIRED SO THAT THE ACTIVATION OF ONE ALARM WILL CAUSE ALL ALARMS WITHIN THE DWELLING UNIT TO SOUND.
9.10.19.6.	SILENCING OF SMOKE ALARMS
(1)	EXCEPT AS PERMITTED IN SENTENCE (2), AN MANUALLY OPERATED DEVICE SHALL BE INCORPORATED WITHIN THE CIRCUITRY OF A SMOKE ALARM INSTALLED IN A DWELLING UNIT SO THAT THE SIGNAL EMITTED BY THE SMOKE ALARM CAN BE SILENCED FOR A PERIOD OF NOT MORE THAN 10 MIN. AFTER WHICH THE SMOKE ALARM WILL RESET AND SOUND AGAIN IF THE LEVEL OF SMOKE IN THE VICINITY IS SUFFICIENT TO REACTIVATE IT.
(2)	SUITES OF RESIDENTIAL OCCUPANCY EQUIPPED WITH SMOKE DETECTORS INSTALLED TO CAN/ULC-552.4, "INSTALLATION OF FIRE ALARM SYSTEMS", WHICH ARE PART OF THE FIRE ALARM SYSTEM IN LIEU OF SMOKE ALARMS AS PERMITTED IN SENTENCE 9.10.19.4.(3), NEED NOT INCORPORATE THE MANUALLY OPERATED DEVICE REQUIRED IN SENTENCE (1).
9.10.19.7.	INSTRUCTIONS FOR MAINTENANCE AND CARE
(1)	WHERE INSTRUCTIONS ARE NECESSARY TO DISCOVER THE MAINTENANCE AND CARE REQUIRED FOR SMOKE ALARMS TO ENSURE CONTINUING SATISFACTORY PERFORMANCE, THEY SHALL BE POSTED IN A LOCATION WHERE THEY WILL BE READILY AVAILABLE TO THE OCCUPANTS FOR REFERENCE
9.12.1.4.	PRECAUTIONS DURING EXCAVATION
(1)	EVERY EXCAVATION SHALL BE UNDERTAKEN IN SUCH A MANNER TO PREVENT DAMAGE TO ADJACENT PROPERTY, EXISTING STRUCTURES, UTILITIES, ROADS AND SIDEWALKS AT ALL STAGES OF CONSTRUCTION.
(2)	MATERIAL SHALL NOT BE PLACED NOR SHALL EQUIPMENT BE OPERATED OR PLACED IN OR ADJACENT TO AN EXCAVATION IN A MANNER THAT MAY ENDANGER THE INTEGRITY OF THE EXCAVATION OR ITS SUPPORTS.
9.13.2.	DAMP-PROOFING
9.13.2.4.	PREPARATION OF SURFACE
(1)	UNIT MASONRY WALLS TO BE DAMP-PROOFED SHALL BE,
(a)	PARGED ON THE EXTERIOR FACE BELOW GROUND LEVEL WITH NOT LESS THAN 6mm (¼") OF MORTAR CONFORMING TO SECTION 9.2.0., AND
(b)	COVERED OVER THE FOOTING WHEN THE FIRST COURSE OF BLOCK IS LAID.
(2)	CONCRETE WALLS TO BE DAMP-PROOFED SHALL HAVE HOLES AND RECESSES RESULTING FROM THE REMOVAL OF FORM TIES SEALED WITH CEMENT MORTAR OR DAMP-PROOFING MATERIAL.
(3)	THE SURFACE OF INSULATING CONCRETE FORM WALLS TO BE DAMP-PROOFED SHALL BE REPAIRED AND FREE OF PROJECTIONS AND DEPRESSIONS THAT COULD BE DETRIMENTAL TO THE PERFORMANCE OF THE MEMBRANE TO BE APPLIED.
9.13.2.5.	APPLICATION OF DAMP-PROOFING MATERIAL
(1)	DAMP-PROOFING MATERIAL SHALL BE APPLIED OVER THE PARGING OR CONCRETE BELOW GROUND LEVEL.
9.13.2.6.	MOISTURE PROTECTION FOR INTERIOR FINISHES
(1)	THE INTERIOR SURFACE OF FOUNDATION WALLS BELOW GROUND LEVEL SHALL BE PROTECTED BY MEANS THAT MINIMIZE THE INGRESS OF MOISTURE FROM THE FOUNDATION WALL INTO INTERIOR SPACES WHERE,
(a)	A SEPARATE INTERIOR FINISH IS APPLIED TO A CONCRETE OR UNIT MASONRY WALL THAT IS IN CONTACT WITH THE SOIL,
(b)	WOOD MEMBERS ARE PLACED IN CONTACT WITH SUCH WALLS FOR THE INSTALLATION OF INSULATION OR FINISH.
(2)	EXCEPT AS PROVIDED IN SENTENCE (3), WHERE THE PROTECTION OF INTERIOR FINISHES REQUIRED IN SENTENCE (1) CONSISTS OF MEMBRANES OR COATINGS,
(a)	THE MEMBRANE OR COATING SHALL EXTEND FROM THE BASEMENT FLOOR SURFACE UP TO THE HIGHEST EXTENT OF THE INTERIOR INSULATION OR FINISH, BUT NOT HIGHER THAN THE EXTERIOR FINISHED GROUND LEVEL, AND
(b)	NO MEMBRANE OR COATING WITH A PERMEANCE LESS THAN 170ng/(Pa-s-m²) SHALL BE APPLIED TO THE INTERIOR SURFACE OF THE FOUNDATION WALL ABOVE GROUND LEVEL BETWEEN THE INSULATION AND THE FOUNDATION WALL.
(3)	WHERE INSULATION FUNCTIONS AS BOTH MOISTURE PROTECTION FOR INTERIOR FINISHES AND AS A VAPOUR BARRIER IN ACCORDANCE WITH SUBSECTION 9.25.4, IT SHALL BE APPLIED OVER THE INTERIOR SURFACE OF THE FOUNDATION WALL.
9.14.2.	FOUNDATION DRAINAGE
9.14.2.1.	FOUNDATION WALL DRAINAGE
(1)	UNLESS IT CAN BE SHOWN TO BE UNNECESSARY, DRAINAGE SHALL BE PROVIDED AT THE BOTTOM OF EVERY FOUNDATION WALL THAT CONTAINS THE BUILDING INTERIOR.
(2)	EXCEPT AS PERMITTED IN SENTENCES (4) & (5), WHERE THE INSULATION ON A FOUNDATION WALL EXTENDS TO MORE THAN 900mm (2'-11") BELOW THE ADJACENT EXTERIOR GROUND LEVEL,
(a)	A DRAINAGE LAYER SHALL BE INSTALLED ADJACENT TO THE EXTERIOR SURFACE OF A FOUNDATION WALL CONSISTING OF,
(i)	NOT LESS THAN 19mm (¾") MINERAL FIBRE INSULATION WITH A DENSITY OF NOT LESS THAN 57 kg/m³, OR
(ii)	NOT LESS THAN 100mm (4") OF FREE DRAINING GRANULAR MATERIAL, OR
(b)	A SYSTEM SHALL BE INSTALLED THAT CAN BE SHOWN TO PROVIDE EQUIVALENT PERFORMANCE TO THAT PROVIDED BY THE MATERIALS DESCRIBED IN CLAUSE (a).
(3)	WHERE MINERAL FIBRE INSULATION, CRUSHED ROCK BACKFILL OR OTHER DRAINAGE LAYER MEDIUM IS PROVIDED ADJACENT TO THE EXTERIOR SURFACE OF A FOUNDATION WALL, THE INSULATION, BACKFILL OR OTHER DRAINAGE LAYER MEDIUM SHALL EXTEND TO THE FOOTING LEVEL TO FACILITATE DRAINAGE OF GROUND WATER TO THE FOUNDATION DRAINAGE SYSTEM, AND
(b)	ANY PYRIC MATERIAL IN THE CRUSHED ROCK SHALL BE LIMITED TO A CONCENTRATION THAT WILL NOT DAMAGE THE BUILDING TO A DEGREE THAT WOULD ADVERSELY AFFECT ITS STABILITY OR THE PERFORMANCE OF ASSEMBLIES SEPARATING DISSIMILAR ENVIRONMENTS.
(4)	EXCEPT WHEN THE INSULATION PROVIDES THE DRAINAGE LAYER REQUIRED IN CLAUSE (2)(A), WHEN EXTERIOR INSULATION IS PROVIDED, THE DRAINAGE LAYER SHALL BE INSTALLED ON THE EXTERIOR FACE OF THE INSULATION.
(5)	THE DRAINAGE LAYER REQUIRED IN SENTENCE (2) IS NOT REQUIRED,
(a)	WHEN THE FOUNDATION WALL IS NOT REQUIRED TO BE DAMP-PROOFED, OR
(b)	WHEN THE FOUNDATION WALL IS WATERPROOFED.
(6)	WHERE DRAINAGE IS REQUIRED IN SENTENCE (1), THE DRAINAGE SHALL CONFORM TO SUBSECTION 9.14.3. OR 9.14.4.
9.14.3.	DRAINAGE TILE AND PIPE
9.14.3.1.	MATERIAL STANDARDS
(1)	DRAIN TILE AND DRAIN PIPE FOR FOUNDATION DRAINAGE SHALL CONFORM TO,
(A)	ASTM C4, "CLAY DRAIN TILE AND PERFORATED GLAY DRAIN TILE",
(B)	ASTM C412M, "CONCRETE DRAIN TILE (METRIC)",
(C)	ASTM C444M, "PERFORATED CONCRETE PIPE (METRIC)",
(D)	ASTM C700, "VITRIFIED CLAY PIPE, EXTRA STRENGTH, STANDARD STRENGTH AND PERFORATED",
(E)	CAN/CSSB-34.22, "ASBESTOS-CEMENT DRAIN PIPE",
(F)	CAN/CSA-B182.1, "PLASTIC DRAIN AND SLEWER PIPE AND PIPE FITTINGS",
(G)	CSA G401, "CORRUGATED STEEL PIPE PRODUCTS", OR
(H)	BNO 3624-115, "POLYETHYLENE (PE) PIPE FITTINGS – FLEXIBLE PIPES FOR DRAINAGE-CHARACTERISTICS AND TEST METHODS".
9.14.3.2.	MINIMUM SIZE
(1)	DRAIN TILE OR PIPE USED FOR FOUNDATION DRAINAGE SHALL BE NOT LESS THAN 100mm (4") IN DIAMETER.
9.14.3.3.	INSTALLATION
(1)	DRAIN TILE OR PIPE SHALL BE LAID ON UNDISTURBED OR WELL-COMPACTED SOIL SO THAT THE TOP OF THE TILE OR PIPE IS BELOW THE BOTTOM OF THE FLOOR SLAB OR THE GROUND COVER OF THE CRAWL SPACE.
(2)	DRAIN TILE OR PIPE WITH BUTT JOINTS SHALL BE LAID WITH 6mm (¼") TO 10mm (¾") OPEN JOINTS.
(3)	THE TOP HALF OF JOINTS REFERRED TO IN SENTENCE (2) SHALL BE COVERED WITH SHEATHING PAPER, 0.10mm (0.004") POLYETHYLENE OR NO.15 ASPHALT OR TAR-SATURATED FELT.
(4)	THE TOP AND SIDES OF DRAIN PIPE OR TILE SHALL BE COVERED WITH NOT LESS THAN 150mm (6") OF CRUSHED STONE OR OTHER COARSE CLEAN GRANULAR MATERIAL CONTAINING NOT MORE THAN 10% OF MATERIAL THAT WILL PASS A 4mm (¾") SIEVE.

CONSTRUCTION NOTES (CON'T):	
9.14.4.2.	INSTALLATION
(1)	GRANULAR MATERIAL DESCRIBED IN ARTICLE 9.14.4.1. SHALL BE LAID ON UNDISTURBED OR COMPACTED SOIL TO A MINIMUM DEPTH OF NOT LESS THAN 125mm (5") BENEATH THE FOOTING OF THE BUILDING AND EXTEND NOT LESS THAN 300mm (11½") BEYOND THE OUTSIDE EDGE OF THE FOOTINGS.
9.15.3.9.	STEP FOOTINGS
(1)	WHERE STEP FOOTINGS ARE USED,
(a)	THE VERTICAL RISE BETWEEN HORIZONTAL PORTIONS SHALL NOT EXCEED 600mm (23½"), AND THE HORIZONTAL DISTANCE BETWEEN RISERS SHALL BE NOT LESS THAN 600mm (23½").
9.15.4.6.	EXTENSION ABOVE GROUND LEVEL
(1)	EXTERIOR FOUNDATION WALLS SHALL EXTEND NOT LESS THAN 150mm (5¾") ABOVE FINISHED GROUND LEVEL.
9.15.4.7.	REDUCTION IN THICKNESS
(1)	WHERE THE TOP OF A FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF FLOOR JOISTS, THE REDUCED SECTION SHALL BE NOT MORE THAN 350mm (13¾") HIGH AND NOT LESS THAN 90mm (3½") THICK.
(2)	WHERE THE TOP OF A FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF A MASONRY EXTERIOR FACING, THE REDUCED SECTION SHALL BE,
(a)	NOT LESS THAN 90mm (3½") THICK, AND
(b)	TIED TO THE FACING MATERIAL WITH METAL TIES CONFORMING TO SENTENCE 9.20.9.4.(3) SPACED NOT MORE THAN,
(i)	200mm (7¾") O.C. VERTICALLY, AND
(ii)	900mm (2'-11") O.C. HORIZONTALLY.
(3)	THE SPACE BETWEEN WALL AND FACING DESCRIBED IN SENTENCE (2) SHALL BE FILLED WITH MORTAR.
9.15.5.1.	SUPPORT OF FLOOR JOISTS
(1)	EXCEPT AS PERMITTED IN SENTENCE (2), FOUNDATION WALLS OF HOLLOW UNIT MASONRY SUPPORTING FLOOR JOISTS SHALL BE,
(a)	CAPPED WITH NOT LESS THAN 50mm (2") OF SOLID MASONRY OR CONCRETE, OR
(b)	HAVE THE TOP COURSE FILLED WITH MORTAR OR CONCRETE.
(2)	CAPPING REQUIRED IN SENTENCE (1) IS PERMITTED TO BE OMITTED,
(a)	IN LOCALITIES WHERE TERMITES ARE NOT KNOWN TO OCCUR,
(b)	WHEN THE JOISTS ARE SUPPORTED ON A WOOD PLATE NOT LESS THAN 38mm By 89mm, (2"x4") AND
(c)	WHEN THE SIDING OVERLAPS THE FOUNDATION WALL NOT LESS THAN 12mm (½").
9.15.6.1.	FOUNDATION WALLS BELOW GROUND
(1)	CONCRETE BLOCK FOUNDATION WALLS SHALL BE PARGED ON THE EXTERIOR FACE BELOW GROUND LEVEL AS REQUIRED IN SECTION 9.13.
9.15.6.2.	FOUNDATION WALLS ABOVE GROUND
(1)	EXTERIOR SURFACES OF CONCRETE BLOCK FOUNDATION WALLS ABOVE GROUND LEVEL SHALL HAVE TOILED JOINTS, OR SHALL BE RENDERED, PARGED OR OTHERWISE SUITABLY FINISHED.
9.17.4.	WOOD COLUMNS
9.17.4.1.	COLUMN SIZES
(1)	THE WIDTH OR DIAMETER OF A WOOD COLUMN SHALL BE NOT LESS THAN THE WIDTH OF THE SUPPORTED MEMBER.
(2)	EXCEPT AS PROVIDED IN ARTICLE 9.35.4.2., COLUMNS SHALL BE NOT LESS THAN 184mm (7¼") FOR ROUND COLUMNS AND 140mm By 140mm (9½"x9½") FOR RECTANGULAR COLUMNS, UNLESS CALCULATIONS ARE PROVIDED TO SHOW THAT REQUIREMENTS ARE ADEQUATE.
9.17.4.2.	MATERIALS
(1)	WOOD COLUMNS SHALL BE EITHER SOLID, GLUE-LAMINATED OR BUILT-UP.
(2)	BUILT-UP COLUMNS SHALL CONSIST OF NOT LESS THAN 38mm (1½") THICK FULL-LENGTH MEMBERS,
(a)	BOLTED TOGETHER WITH NOT LESS THAN 9.52mm DIA. BOLTS SPACED NOT MORE THAN 450mm (17½") O.C., OR
(b)	NAILED TOGETHER WITH NOT LESS THAN 76mm (3") NAILS SPACED NOT MORE THAN 300mm (11¾") O.C.
(3)	GLUED-LAMINATED COLUMNS SHALL CONFORM TO SECTION 4.3.
9.17.4.3.	COLUMNS IN CONTACT WITH CONCRETE
(1)	WOOD COLUMNS SHALL BE SEPARATED FROM CONCRETE IN CONTACT WITH THE GROUND BY 0.05mm (0.002") POLYETHYLENE FILM OR TYPE "S" ROIL ROOFING.
9.17.4.4.	WOOD COLUMN TERMITE PROTECTION
(1)	WHERE TERMITES ARE KNOWN TO EXIST, EXTERIOR WOOD COLUMNS SUCH AS PORCH SUPPORTS SHALL BE:
(a)	PRESSURE TREATED WITH A CHEMICAL THAT IS TOXIC TO SUCH TERMITES, IN ACCORDANCE WITH ARTICLE 9.3.2.9., OR
(b)	SUPPORTED ON NON-CELLULOSIC MATERIAL EXTENDING NOT LESS THAN 150mm (5¾") ABOVE GRADE AND LOCATED NOT LESS THAN 50mm (2") FROM THE EXTERIOR WALL OF AN ADJACENT BUILDING.
9.19.1.	ROOF VENTING
9.19.1.1.	REQUIRED VENTING
(1)	EXCEPT WHERE IT CAN BE SHOWN TO BE UNNECESSARY, 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 MOVEMENT OF AIR FROM THE SPACE TO THE EXTERIOR.
9.19.1.2.	VENT REQUIREMENTS
(1)	EXCEPT AS PROVIDED IN SENTENCE (2), THE UNOBSTRUCTED VENT AREA SHALL BE NOT LESS THAN 1/300 OF THE INSULATED CEILING AREA.
(2)	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.
(3)	REQUIRED VENTS ARE PERMITTED TO BE ROOF TYPE, EAVE TYPE, GABLE-END TYPE OR ANY COMBINATION THEREOF, AND SHALL BE DISTRIBUTED;
(a)	UNIFORMLY ON OPPOSITE SIDES OF THE BUILDING,
(b)	WITH NOT LESS THAN 25% OF THE REQUIRED OPENINGS LOCATED AT THE TOP OF THE SPACE, AND
(c)	WITH NOT LESS THAN 25% OF THE REQUIRED OPENINGS LOCATED AT THE BOTTOM OF THE SPACE.
(4)	EXCEPT WHERE EACH ROOF JOIST SPACE REFERRED TO IN SENTENCE (2) IS SEPARATELY VENTED, ROOF JOISTS SPACES SHALL BE INTERCONNECTED BY INSTALLING PURLINS NOT LESS THAN 38mm X 38mm (2"x2") ON THE TOP OF THE ROOF JOISTS.
(5)	VENTS SHALL COMPLY WITH CAN3-A93-M, "NATURAL AIRFLOW VENTILATORS FOR BUILDINGS".
9.19.1.3.	CLEARANCES
(1)	EXCEPT AS PROVIDED IN SENTENCE (2), WHERE VENTING IS PROVIDED TO A ROOF JOIST SPACE, NOT LESS THAN 63mm (2½") OF SPACE SHALL BE PROVIDED BETWEEN THE TOP OF THE INSULATION AND THE ROOF SHEATHING.
(2)	WHERE VENTING IS PROVIDED AT THE JUNCTION OF SLOPED ROOFS AND EXTERIOR WALLS AND WHERE PREFORMED BAFFLES ARE USED TO CONTAIN THE INSULATION, THE BAFFLES SHALL,
(a)	PROVIDE AN UNOBSTRUCTED AIR SPACE BETWEEN THE INSULATION AND THE UNDERSIDE OF THE ROOF SHEATHING, THAT IS,
(i)	NOT LESS THAN 25mm (1") IN DIMENSION, AND
(ii)	OF SUFFICIENT CROSS AREA TO MEET THE ATTIC OR ROOF SPACE VENTING REQUIREMENTS OF ARTICLE 9.19.1.2. AND
(b)	EXTEND VERTICALLY NOT LESS THAN 50mm (2") VERTICALLY ABOVE THE TOP OF THE INSULATION.
(3)	CEILING INSULATION SHALL BE INSTALLED IN A MANNER THAT WILL NOT RESTRICT A FREE FLOW OF AIR THROUGH ROOF VENTS OR THROUGH ANY PORTION OF THE ATTIC OR ROOF SPACE.
9.19.1.4.	MANSARD OR GAMBREL ROOF
(1)	THE LOWER PORTION OF A MANSARD OR GAMBREL STYLE ROOF NEED NOT BE VENTILATED.
(2)	THE UPPER PORTION OF ROOFS DESCRIBED IN SENTENCE (1) SHALL BE VENTILATED IN CONFORMANCE WITH THE REQUIREMENTS IN ARTICLES 9.19.1.1. TO 9.19.1.3.

CONSTRUCTION NOTES (CON'T):									
9.20.6.4.	MASONRY VENEER WALLS								
(1)	EXCEPT FOR MASONRY VENEER WHERE EACH MASONRY UNIT IS SUPPORTED INDIVIDUALLY BY THE STRUCTURAL BACKING, MASONRY VENEER SHALL BE OF SOLID UNITS NOT LESS THAN 70mm (2¾") THICK.								
(2)	VENEER DESCRIBED IN SENTENCE (1) OVER WOOD FRAME WALLS SHALL HAVE NOT LESS THAN A 25 MM (1") AIR SPACE BEHIND THE VENEER.								
(3)	MASONRY VENEER LESS THAN 90mm (3½") THICK SHALL HAVE UNRAKED JOINTS.								
(4)	MASONRY VENEER SHALL CONFORM TO SUBSECTION 4.3.2. WHERE THE MASONRY UNITS ARE REQUIRED TO BE INDIVIDUALLY SUPPORTED BY THE STRUCTURAL BACKING.								
9.20.9.5.	TIES FOR MASONRY VENEER								
(1)	MASONRY VENEER 70mm (2¾") OR MORE IN THICKNESS AND RESTING ON A BEARING SUPPORT SHALL BE TIED TO MASONRY BACK-UP OR TO WOOD FRAMING MEMBERS WITH STRAPS THAT ARE, CORROSION-RESISTANT,								
(a)	NOT LESS THAN 0.76mm (0.03") THICK,								
(b)	NOT LESS THAN 22mm (¾") WIDE,								
(c)	SHAPED TO PROVIDE A KEY WITH THE MORTAR, AND								
(d)	SPACED IN ACCORDANCE WITH TABLE 9.20.9.5.								
<table><tr><th>MAXIMUM VERTICAL SPACING, mm (in)</th><th>MAXIMUM HORIZONTAL SPACING, mm (in)</th></tr><tr><td>400 (15¾")</td><td>800 (31½")</td></tr><tr><td>500 (19½")</td><td>600 (23½")</td></tr><tr><td>600 (23½")</td><td>400 (15¾")</td></tr></table>		MAXIMUM VERTICAL SPACING, mm (in)	MAXIMUM HORIZONTAL SPACING, mm (in)	400 (15¾")	800 (31½")	500 (19½")	600 (23½")	600 (23½")	400 (15¾")
MAXIMUM VERTICAL SPACING, mm (in)	MAXIMUM HORIZONTAL SPACING, mm (in)								
400 (15¾")	800 (31½")								
500 (19½")	600 (23½")								
600 (23½")	400 (15¾")								
(2)	THE STRAPS DESCRIBED IN SENTENCE (1) THAT ARE FASTENED TO THE WOOD FRAMING MEMBERS SHALL BE,								
(a)	BENT AT A RIGHT ANGLE WITHIN 6mm (¼") FROM THE FASTENER, AND								
(b)	FASTENED WITH CORROSION RESISTANT 3.18mm (0.125") DIA. SCREWS OR SPIRAL NAILS HAVING A WOOD PENETRATION OF NOT LESS THAN 30mm (1¼").								
(3)	MASONRY VENEER INDIVIDUALLY SUPPORTED BY MASONRY OR WOOD-FRAME BACK-UP SHALL BE SECURED TO THE BACK-UP IN CONFORMANCE WITH SUBSECTION 4.3.2.								
(4)	THE STRAPS DESCRIBED IN SENTENCE (1) MAY BE INSTALLED AGAINST ONE OF THE SHEATHINGS LISTED IN TABLE 9.23.16.2.A. PROVIDED THAT,								
(a)	THE TIE IS IN CONTACT WITH THE EXTERIOR SURFACE OF THE SHEATHING, AND								
(b)	THE SHEATHING BENEATH THE TIE IS NOT COMPRESSED.								
9.20.13.	CONTROL OF RAIN WATER PENETRATION								
9.20.13.1.	MATERIALS FOR FLASHING								
(1)	MATERIAL USED FOR FLASHING SHALL CONFORM TO TABLE 9.20.13.1.								
(2)	ALUMINUM FLASHING IN CONTACT WITH MASONRY OR CONCRETE SHALL BE EFFECTIVELY COATED OR SEPARATED FROM THE MASONRY OR CONCRETE BY AN IMPERVIOUS MEMBRANE.								
9.20.13.2.	FASTENING OF FLASHING								
(1)	FASTENING DEVICES FOR FLASHING SHALL BE CORROSION-RESISTANT AND WHERE METAL FLASHING IS USED, SHALL BE COMPATIBLE WITH THE FLASHING WITH RESPECT TO GALVANIC ACTION.								
9.20.13.3.	LOCATION OF FLASHING								
(1)	FLASHING SHALL BE INSTALLED IN MASONRY AND MASONRY VENEER WALLS,								
(a)	BENEATH JOINTED MASONRY WINDOW SILLS,								
(b)	OVER THE BACK AND TOP OF PARAPET WALLS,								
(c)	OVER THE HEADS OF GLASS BLOCK PANELS,								
(d)	BENEATH WEEP HOLES, AND								
(e)	OVER THE HEADS OF WINDOW AND DOOR OPENINGS IN EXTERIOR WALLS WHEN THE VERTICAL DISTANCE BETWEEN THE TOP OF A WINDOW OR DOOR FRAME AND THE BOTTOM EDGE OF THE EAVE EXCEEDS ONE-QUARTER OF THE HORIZONTAL EAVE OVERHANG.								
(2)	THROUGHWALL FLASHING SHALL BE PROVIDED IN A MASONRY VENEER WALL SUCH THAT ANY MOISTURE THAT ACCUMULATES IN THE AIR SPACE WILL BE DIRECTED TO THE EXTERIOR OF THE BUILDING.								
9.20.13.4.	EXTENSION OF FLASHING								
(1)	WHEN INSTALLED BENEATH JOINTED MASONRY WINDOW SILLS AND JOINTED MASONRY COPINGS OR OVER THE HEADS OF OPENINGS, FLASHING SHALL EXTEND FROM THE FRONT EDGE OF THE MASONRY UP BEHIND THE SILL OR LINTEL.								
(2)	A FLASHING MAY BE OMITTED WHEN THE MASONRY AT THE SILL OF A WALL OPENING OR THE TOP OF A WALL IS PROTECTED BY AN IMPERVIOUS NON-JOINTED MASONRY COPING THAT CONFORMS TO ARTICLE 9.20.13.12.								
9.20.13.5.	FLASHING FOR WEEP HOLES IN MASONRY VENEER / MASONRY WALLS								
(1)	FLASHING BENEATH WEEP HOLES IN CAVITY WALLS AND MASONRY VENEER/MASONRY BACK-UP WALLS SHALL,								
(a)	BE BEDDED NOT LESS THAN 25mm (1") IN THE INSIDE WYTHE,								
(b)	EXTEND TO NOT LESS THAN 5mm (¾") BEYOND THE OUTER FACE OF THE BUILDING ELEMENT BELOW THE FLASHING, AND								
(c)	BE INSTALLED WITH A NOMINALLY HORIZONTAL SLOPE TOWARD THE OUTSIDE WYTHE.								
9.20.13.6.	FLASHING FOR WEEP HOLES IN VENEER								
(1)	FLASHING BENEATH WEEP HOLES IN MASONRY VENEER OVER MASONRY BACK-UP WALLS SHALL CONFORM TO THE FLASHING REQUIREMENTS FOR CAVITY WALLS AND MASONRY VENEER/MASONRY BACK-UP WALLS IN ARTICLE 9.20.13.5.								
(2)	FLASHING BENEATH WEEP HOLES IN MASONRY VENEER OVER WOOD-FRAME WALLS SHALL BE INSTALLED SO THAT IT EXTENDS FROM A POINT NOT LESS THAN 5mm (¾") BEYOND THE OUTER FACE OF THE BUILDING ELEMENT BELOW THE FLASHING TO A POINT 150mm (5¾") UP THE WOOD FRAME WALL.								
(3)	WHERE THE FRAME WALL IS SHEATHED WITH A SHEATHING MEMBRANE, A NON-WOOD-BASED RIGID EXTERIOR INSULATING SHEATHING OR A SEMI-RIGID INSULATING SHEATHING WITH AN INTEGRAL SHEATHING MEMBRANE, THE FLASHING SHALL BE INSTALLED BEHIND THE SHEATHING MEMBRANE OR INSULATING SHEATHING.								
(4)	FLASHING DESCRIBED IN SENTENCE (2) IS PERMITTED TO CONFORM TO THE REQUIREMENTS FOR CONCEALED FLASHING IN TABLE 9.20.13.1.								
9.20.13.7.	FLASHING JOINTS								
(1)	JOINTS IN FLASHING SHALL BE MADE WATERTIGHT.								
9.20.13.8.	REQUIRED WEEP HOLES								
(1)	WEEP HOLES SPACED NOT MORE THAN 800mm (2'-7") APART SHALL BE PROVIDED AT THE BOTTOM OF,								
(a)	CAVITIES IN CAVITY WALLS, AND								
(b)	CAVITIES OR AIR SPACES IN MASONRY VENEER WALLS.								
(2)	THE CAVITIES OR AIR SPACES DESCRIBED IN SENTENCE (1) SHALL INCLUDE THOSE ABOVE LINTELS OVER WINDOW AND DOOR OPENINGS REQUIRED TO BE FLASHED IN CONFORMANCE WITH ARTICLE 9.20.13.3.								
(3)	THE WEEP HOLES REQUIRED IN SENTENCE (1) SHALL BE IN A LOCATION SUCH THAT ANY WATER THAT COLLECTS IN THE CAVITY OR SPACE WILL BE DIRECTED TO THE EXTERIOR OF THE BUILDING.								
9.23.6.	ANCHORAGE								
9.23.6.1.	ANCHORAGE OF BUILDING FRAMES								
(1)	BUILDING FRAMES SHALL BE ANCHORED TO THE FOUNDATION UNLESS A STRUCTURAL ANALYSIS OF WIND AND EARTH PRESSURES SHOWS ANCHORAGE IS NOT REQUIRED.								
(2)	EXCEPT AS PROVIDED IN ARTICLE 9.23.6.3., ANCHORAGE SHALL BE PROVIDED BY EMBEDDING THE ENDS OF THE FIRST FLOOR JOISTS IN CONCRETE, OR FASTENING THE SILL PLATE TO THE FOUNDATION WITH NOT LESS THAN 12.7mm (½") DIA. ANCHOR BOLTS SPACED NOT MORE THAN 2400mm (7'-10") O.C.								
(3)	ANCHOR BOLTS REFERRED TO IN SENTENCE (2) SHALL BE FASTENED TO THE SILL PLATE WITH NUTS AND WASHERS AND SHALL BE EMBEDDED NOT LESS THAN 100mm (4") IN THE FOUNDATION AND SO DESIGNED THAT THEY MAY BE TIGHTENED WITHOUT WITHDRAWING THEM FROM THE FOUNDATION.								
9.23.6.2.	ANCHORAGE OF COLUMNS AND POSTS								
(1)	EXCEPT AS PROVIDED IN SENTENCES (2) AND (3), EXTERIOR COLUMNS AND POSTS SHALL BE ANCHORED TO RESIST UPLIFT AND LATERAL MOVEMENT.								
(2)	EXCEPT AS PROVIDED IN SENTENCE (3), WHERE COLUMNS OR POSTS SUPPORT BALCONIES, DECKS, VERANDAS AND OTHER EXTERIOR PLATFORMS, AND THE COLUMNS OR POSTS EXCEED NOT MORE THAN 600mm (23½") ABOVE FINISHED GROUND LEVEL, THE SUPPORTED JOISTS OR BEAMS SHALL BE,								
(a)	ANCHORED TO THE FOUNDATION TO RESIST UPLIFT AND LATERAL MOVEMENT, OR								
(b)	DIRECTLY ANCHORED TO THE GROUND TO RESIST UPLIFT.								
(3)	ANCHORAGE IS NOT REQUIRED FOR PLATFORMS DESCRIBED IN SENTENCE (2) THAT,								
(a)	ARE NOT MORE THAN 1 STOREY,								
(b)	ARE NOT MORE THAN 55 m ² IN AREA,								
(c)	DO NOT SUPPORT A ROOF, AND								
(d)	ARE NOT ATTACHED TO ANOTHER STRUCTURE, UNLESS IT CAN BE DEMONSTRATED THAT DIFFERENTIAL MOVEMENT WILL NOT ADVERSELY AFFECT THE PERFORMANCE OF THAT STRUCTURE.								

CONSTRUCTION NOTES (CON'T):																																								
9.26.5.	EAVE PROTECTION FOR SHINGLE AND SHAKES																																							
9.26.5.1. (1)	REQUIRED EAVE PROTECTION EXCEPT AS PROVIDED IN SENTENCE (2), EAVE PROTECTION SHALL BE PROVIDED ON SHINGLE, SHAKE OR TILE ROOFS, EXTENDING FROM THE EDGE OF THE ROOF A MINIMUM OF 900mm (2'-11") UP THE ROOF SLOPE TO A LINE NOT LESS THAN 300mm (11¾") INSIDE THE INNER FACE OF THE EXTERIOR WALL.																																							
(2)	EAVE PROTECTION IS NOT REQUIRED, (a) OVER UNHEATED GARAGES, CARPORTS AND PORCHES, (b) WHERE THE ROOF OVERHANG EXCEEDS 900 MM MEASURED ALONG THE ROOF SLOPE FROM THE EDGE OF THE ROOF TO THE INNER FACE OF THE EXTERIOR WALL, (c) ON ROOFS OF ASPHALT SHINGLES INSTALLED IN ACCORDANCE WITH SUBSECTION 9.26.8., (d) ON ROOFS WITH SLOPES OF 1 IN 1.5 OR GREATER, OR (e) IN REGIONS WITH 3500 OR FEWER DEGREE-DAYS.																																							
9.26.5.2.	MATERIALS																																							
(1)	EAVE PROTECTION SHALL BE LAID BENEATH THE STARTER STRIP AND SHALL CONSIST OF, (a) NO. 15 ASPHALT-SATURATED FELT LAID IN TWO PLYS LAPPED 480mm (18¾") AND CEMENTED TOGETHER WITH LAP CEMENT, (b) TYPE M OR S ROLL ROOFING LAID WITH NOT LESS THAN 100mm (4") HEAD AND END LAPS CEMENTED TOGETHER WITH LAP CEMENT, (c) GLASS FIBRE OR POLYESTER FIBRE COATED BASE SHEETS, OR (d) SELF-SEALING COMPOSITE MEMBRANES CONSISTING OF MODIFIED BITUMINOUS COATED MATERIAL.																																							
9.31.4.4.	FLOOR DRAINS																																							
(1)	A FLOOR DRAIN SHALL BE INSTALLED IN A BASEMENT FORMING PART OF A DWELLING UNIT.																																							
9.32.3.11.	HEAT RECOVERY VENTILATORS																																							
(1)	WHERE A HEAT RECOVERY VENTILATOR IS INSTALLED TO PROVIDE ALL OR PART OF THE REQUIREMENTS OF THIS SUBSECTION, THIS ARTICLE SHALL APPLY.																																							
(2)	HEAT RECOVERY VENTILATORS SHALL BE DESIGNED TO PROVIDE A MINIMUM 55% SENSIBLE HEAT RECOVERY EFFICIENCY WHEN TESTED TO THE LOW TEMPERATURE THERMAL AND VENTILATION PERFORMANCE TEST METHOD SET OUT IN CAN/CSA-C439, "RATING THE PERFORMANCE OF HEAT/ENERGY-RECOVERY VENTILATORS", AT A STATION 1 TEST TEMPERATURE OF -25°C AT AN AIR FLOW NOT LESS THAN 30 L/S.																																							
(3)	WHERE A HEAT RECOVERY VENTILATOR IS CONNECTED TO A FORCED AIR HEATING SYSTEM, THE SUPPLY SIDE OF THE VENTILATOR SHALL BE DIRECTLY CONNECTED TO THE RETURN AIR SIDE OF THE FORCED AIR HEATING SYSTEM.																																							
(4)	TWO OR MORE HEAT RECOVERY VENTILATORS SHALL NOT BE CONNECTED IN PARALLEL AIR FLOW TO A COMMON AIR SUPPLY DUCT UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER.																																							
(5)	TWO OR MORE HEAT RECOVERY VENTILATORS SHALL NOT BE CONNECTED IN PARALLEL AIR FLOW TO A COMMON DOWNSTREAM EXHAUST DUCT.																																							
(6)	HEAT RECOVERY VENTILATORS INSTALLED IN UNHEATED SPACES SHALL BE INSTALLED SO AS TO AVOID CONDENSATION OF MOISTURE ON FANS AND MOTORS IN EXHAUST AIR, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.																																							
(7)	ALL START-UP PROCEDURES RECOMMENDED BY THE MANUFACTURER INCLUDING AIR BALANCING AND AIRFLOW DETERMINATION SHALL BE FOLLOWED.																																							
(8)	FREE FLOW OF CONDENSATE SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR, IN THEIR ABSENCE, A CONDENSATE DRAIN OF MINIMUM ¾ INCH NOMINAL PIPE SIZE PITCHED IN THE DIRECTION OF FLOW AND COMPLETE WITH A TRAP OR CONDENSATE PUMP WITH SUFFICIENT CAPACITY SHALL BE INSTALLED.																																							
(9)	THE HEAT RECOVERY VENTILATOR AND ALL CONDENSATE LINES SHALL BE INSTALLED IN A SPACE WHERE THE AMBIENT TEMPERATURE WILL NOT ADVERSELY AFFECT THE OPERATION OF THE SYSTEM.																																							
(10)	WHEN OPERATING AT THE RATE REQUIRED IN ARTICLE 9.32.3.4., THE SUPPLY AND EXHAUST AIRFLOW RATES OF THE HEAT RECOVERY VENTILATOR SHALL BE BALANCED SO THAT THE VALUE OF THE LESSER FLOW SHALL BE AT LEAST 80% OF THE VALUE OF THE GREATER FLOW, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.																																							
STAIRS:																																								
9.8.2.	STAIR DIMENSIONS																																							
9.8.2.1.	STAIR WIDTH																																							
(1)	EXCEPT AS PROVIDED IN SENTENCE (2), REQUIRED EXIT STAIRS AND PUBLIC STAIRS SERVING BUILDINGS OF RESIDENTIAL OCCUPANCY SHALL HAVE A WIDTH, MEASURED BETWEEN WALL FACES OR GUARDS, OF NOT LESS THAN 900mm (2'-11").																																							
(2)	AT LEAST ONE STAIR BETWEEN EACH FLOOR LEVEL WITHIN A DWELLING UNIT, AND EXTERIOR STAIRS AND REQUIRED EXIT STAIRS SERVING A SINGLE DWELLING UNIT, SHALL HAVE A WIDTH OF NOT LESS THAN 860mm (2'-10").																																							
(3)	REQUIRED EXIT STAIRS AND PUBLIC STAIRS SERVING BUILDINGS OF OTHER THAN RESIDENTIAL OCCUPANCY SHALL HAVE A WIDTH OF NOT LESS THAN THE GREATER OF, (a) 900mm (2'-11"), OR (b) 8mm PER PERSON BASED ON THE OCCUPANT LOAD LIMITS SPECIFIED IN TABLE 3.1.17.1.																																							
9.8.2.2.	HEIGHT OVER STAIRS																																							
(1)	THE CLEAR HEIGHT OVER STAIRS SHALL BE, (a) MEASURED VERTICALLY, OVER THE CLEAR WIDTH OF THE STAIR, FROM A STRAIGHT LINE TANGENT TO THE TREAD AND LANDING NOSINGS TO THE LOWEST POINT ABOVE, AND (b) NOT LESS THAN, • 1950mm (6'-4") FOR STAIRS SERVING A SINGLE DWELLING UNIT, AND • 2050mm (6'-8") FOR STAIRS NOT SERVING A SINGLE DWELLING UNIT																																							
9.8.3.	STAIR CONFIGURATIONS																																							
9.8.3.1.	STRAIGHT AND CURVED RUNS IN STAIRS																																							
(1)	EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL CONSIST OF, (a) STRAIGHT-RUNS, OR (b) CURVED-RUNS.																																							
(2)	STAIRS WITHIN DWELLING UNITS SHALL CONSIST OF, (a) STRAIGHT-RUNS, (b) CURVED-RUNS, (c) STRAIGHT-RUNS WITH WINDERS, OR (d) STRAIGHT-RUNS WITH CURVED-RUNS.																																							
9.8.3.2.	MINIMUM NUMBER OF RISERS																																							
(1)	EXCEPT FOR STAIRS WITHIN A DWELLING UNIT, AT LEAST 3 RISERS SHALL BE PROVIDED IN INTERIOR FLIGHTS.																																							
9.8.3.3.	MAXIMUM HEIGHT OF STAIRS																																							
(1)	THE VERTICAL HEIGHT BETWEEN ANY LANDINGS SHALL NOT EXCEED 3.7 M.																																							
9.8.4.	STEP DIMENSIONS																																							
9.8.4.2.	DIMENSIONS FOR RISERS																																							
(1)	THE RISE, WHICH IS MEASURED AS THE VERTICAL NOSING-TO-NOSING DISTANCE, SHALL CONFORM TO TABLE 9.8.4.1.																																							
<table><tr><th rowspan="2">STAIR TYPE</th><th colspan="2">ALL STEPS</th><th colspan="4">RECTANGULAR TREADS</th></tr><tr><th>MAXIMUM</th><th>MINIMUM</th><th>MAXIMUM</th><th>MINIMUM</th><th>MAXIMUM</th><th>MINIMUM</th></tr><tr><td>SERVICE AND MEZZANINES</td><td>NO LIMIT</td><td>125mm</td><td>355mm</td><td>NO LIMIT</td><td>355mm</td><td>NO LIMIT</td></tr><tr><td>PRIVATE</td><td>200mm</td><td>125mm</td><td>355mm</td><td>210mm</td><td>355mm</td><td>125mm</td></tr><tr><td>PUBLIC</td><td>180mm</td><td>125mm</td><td>NO LIMIT</td><td>280mm</td><td>NO LIMIT</td><td>280mm</td></tr></table>							STAIR TYPE	ALL STEPS		RECTANGULAR TREADS				MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	SERVICE AND MEZZANINES	NO LIMIT	125mm	355mm	NO LIMIT	355mm	NO LIMIT	PRIVATE	200mm	125mm	355mm	210mm	355mm	125mm	PUBLIC	180mm	125mm	NO LIMIT	280mm	NO LIMIT	280mm
STAIR TYPE	ALL STEPS		RECTANGULAR TREADS																																					
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PUBLIC	180mm	125mm	NO LIMIT	280mm	NO LIMIT	280mm																																		
NOTES TO TABLE 9.8.4.1: 1. SERVICE STAIRS ARE STAIRS THAT SERVE AREAS USED ONLY AS SERVICE ROOMS OR SERVICE SPACES AND STAIRS THAT SERVE MEZZANINES NOT EXCEEDING 20m ² WITHIN LIVE/WORK UNITS. 2. PRIVATE STAIRS ARE INTERIOR STAIRS WITHIN DWELLING UNITS AND EXTERIOR STAIRS SERVING A SINGLE DWELLING UNIT OR A GARAGE THAT SERVES A SINGLE DWELLING UNIT. 3. PUBLIC STAIRS ARE ALL STAIRS NOT DESCRIBED AS SERVICE STAIRS OR PRIVATE STAIRS.																																								
9.8.4.2.	DIMENSIONS FOR RECTANGULAR RUNS AND TREADS																																							
(1)	THE RUN, WHICH IS MEASURED AS THE HORIZONTAL NOSING-TO-NOSING DISTANCE, AND THE TREAD DEPTH OF RECTANGULAR TREADS SHALL CONFORM TO TABLE 9.8.4.1.																																							
(2)	THE DEPTH OF A RECTANGULAR TREAD SHALL BE NOT LESS THAN ITS RUN AND NOT MORE THAN ITS RUN PLUS 25mm.																																							
9.8.4.3.	DIMENSIONS FOR ANGLED TREADS																																							
(1)	ANGLED TREADS IN REQUIRED EXIT STAIRS SHALL CONFORM TO THE REQUIREMENTS IN ARTICLE 3.4.6.9.																																							
(2)	EXCEPT AS PROVIDED IN ARTICLE 9.8.4.5., ANGLED TREADS IN OTHER THAN REQUIRED EXIT STAIRS SHALL HAVE AN AVERAGE RUN, WHICH IS MEASURED AS THE HORIZONTAL NOSING-TO-NOSING DISTANCE, OR NOT LESS THAN 200mm AND A MINIMUM RUN OF 150mm.																																							
(3)	THE DEPTH OF AN ANGLED TREAD SHALL BE NOT LESS THAN ITS RUN, MEASURED AS THE HORIZONTAL NOSING-TO-NOSING DISTANCE, AT ANY POINT AND NOT MORE THAN ITS RUN AT ANY POINT PLUS 25mm.																																							

STAIRS AND GUARDS:				
9.8.4.4. UNIFORMITY AND TOLERANCES FOR RISERS AND TREADS				
(1)	EXCEPT AS PROVIDED IN SENTENCE (2), RISERS SHALL HAVE UNIFORM HEIGHT IN ANY ONE FLIGHT WITH A MAXIMUM TOLERANCE OF,			
(a)	5mm BETWEEN ADJACENT TREADS OR LANDINGS, AND			
(b)	10mm BETWEEN THE TALLEST AND SHORTEST RISERS IN A FLIGHT.			
(2)	EXCEPT FOR REQUIRED EXIT STAIRS, WHERE THE TOP OR BOTTOM RISER IN A STAIR ADJOINS A SLOPING FINISHED WALKING SURFACE SUCH AS A GARAGE FLOOR, DRIVEWAY OR SIDEWALK, THE HEIGHT OF THE RISER ACROSS THE STAIR SHALL VARY BY NOT MORE THAN 1 IN 12.			
(3)	TREADS SHALL HAVE UNIFORM RUN AND TREAD DEPTH, WITH A MAXIMUM TOLERANCE OF,			
(a)	5mm BETWEEN ADJACENT TREADS, AND			
(b)	10mm BETWEEN THE DEEPEST AND SHALLOWEST RUNS AND TREADS IN A FLIGHT.			
(4)	WHERE ANGLED TREADS OR WINDERS ARE INCORPORATED INTO A STAIR, THE TREADS IN ALL SETS OF ANGLED TREADS OR WINDERS WITHIN A FLIGHT SHALL TURN IN THE SAME DIRECTION.			
(5)	THE SLOPE OF TREADS SHALL NOT EXCEED 1 IN 50			
9.8.4.5. WINDERS (SEE APPENDIX A)				
(1)	STAIRS WITHIN DWELLING UNITS ARE PERMITTED TO CONTAIN WINDERS THAT CONVERGE TO A CENTRE POINT PROVIDED,			
(a)	THE WINDERS TURN THROUGH AN ANGLE OF NOT MORE THAN 90°,			
(b)	INDIVIDUAL TREADS TURN THROUGH AN ANGLE OF NOT LESS THAN 30° OR NOT MORE THAN 45°, AND			
(c)	ADJACENT WINDERS TURN THROUGH THE SAME ANGLE.			
(2)	WHERE MORE THAN ONE SET OF WINDERS DESCRIBED IN SENTENCE (1) IS PROVIDED IN A SINGLE STAIRWAY BETWEEN ADJACENT FLOOR LEVELS, SUCH WINDERS SHALL BE SEPARATED IN PLAN BY AT LEAST 1200mm.			
9.8.4.6. LEADING EDGES OF TREADS				
(1)	LEADING EDGES OF TREADS THAT ARE BEVELLED OR ROUNDED SHALL,			
(a)	NOT REDUCE THE REQUIRED TREAD DEPTH BY MORE THAN 15mm (¾"), AND			
(b)	NOT, IN ANY CASE, EXCEED 25mm (1") HORIZONTALLY.			
9.8.6. LANDINGS				
9.8.6.1. REQUIRED LANDINGS				
(1)	THIS SUBSECTION APPLIES TO LANDINGS, EXCEPT LANDINGS FOR RAMPS IN A BARRIER-FREE PATH OF TRAVEL.			
(2)	LANDINGS FOR RAMPS IN A BARRIER-FREE PATH OF TRAVEL SHALL CONFORM TO THE REQUIREMENTS IN ARTICLE 3.8.3.4.			
(3)	FINISHED FLOORS, AND GROUND SURFACES WITH A SLOPE NOT EXCEEDING 1 IN 50, AT THE TOP AND BOTTOM OF STAIRS OR RAMPS SHALL BE CONSIDERED AS LANDINGS.			
9.8.6.2. REQUIRED LANDINGS				
(1)	EXCEPT AS PROVIDED IN SENTENCES (2) TO (4) AND SENTENCE 9.9.6.6.(2), A LANDING SHALL BE PROVIDED,			
(a)	AT THE TOP AND BOTTOM OF EACH FLIGHT OF INTERIOR AND EXTERIOR STAIRS, INCLUDING STAIRS IN GARAGES,			
(b)	AT THE TOP AND BOTTOM OF EVERY RAMP WITH A SLOPE GREATER THAN 1 IN 50, AND			
(c)	WHERE A DOORWAY OPENS ONTO A STAIR OR RAMP.			
(2)	WHERE A DOOR AT THE TOP OF A STAIR IN A DWELLING UNIT SWINGS AWAY FROM THE STAIR, NO LANDING IS REQUIRED BETWEEN THE DOORWAY AND THE STAIR.			
(3)	A LANDING MAY BE OMITTED AT THE TOP OF AN EXTERIOR STAIR SERVING A GARAGE OR A SECONDARY ENTRANCE TO A SINGLE DWELLING UNIT, INCLUDING AN ENTRANCE FROM AN ATTACHED GARAGE, PROVIDED,			
(a)	THE STAIR DOES NOT CONTAIN MORE THAN 3 RISERS,			
(b)	EXCEPT AS PROVIDED IN CLAUSE (c), THE DOOR IS A SLIDING DOOR OR SWINGS AWAY FROM THE STAIR, AND			
(c)	WHERE A STORM OR SCREEN DOOR IS PROVIDED, IT MAY SWING OVER THE STAIR IF IT IS EQUIPPED WITH HARDWARE TO HOLD IT OPEN.			
(4)	A LANDING MAY BE OMITTED AT THE BOTTOM OF AN EXTERIOR STAIR OR RAMP PROVIDED THERE IS NO OBSTRUCTION, SUCH AS A GATE OR DOOR, WITHIN THE LESSER OF THE WIDTH OF THE STAIR OR RAMP OR,			
(a)	900mm (2'-11") FOR STAIRS OR RAMPS SERVING A SINGLE DWELLING UNIT, AND			
(b)	1100mm (3'-7") FOR STAIRS OR RAMPS NOT SERVING A SINGLE DWELLING UNIT.			
9.8.6.3. DIMENSIONS OF LANDINGS				
(1)	EXCEPT AS PROVIDED IN SENTENCES (3) TO (6), THE WIDTH AND LENGTH OF LANDINGS SHALL COMPLY WITH TABLE 9.8.6.3. (SEE APPENDIX A)			
APPLICATION				
	LANDING CONFIGURATION	MINIMUM WIDTH, mm	LENGTH, mm	
STAIRS AND RAMPS SERVING A SINGLE DWELLING UNIT	IN STRAIGHT-RUN STAIR OR RAMP, OR LANDING TURNING THROUGH LESS THAN 30° WITHIN A DWELLING UNIT	WIDTH OF STAIR OR RAMP	NOT LESS THAN 860mm	
	IN STRAIGHT-RUN EXTERIOR STAIR OR RAMP, OR EXTERIOR LANDING TURNING THROUGH LESS THAN 30°	WIDTH OF STAIR OR RAMP	NOT LESS THAN 860mm	
	LANDING TURNING THROUGH AN ANGLE OF 30° OR MORE, BUT LESS THAN 90°	WIDTH OF STAIR OR RAMP MEASURED AT RIGHT ANGLE TO PATH OF TRAVEL	a. NOT LESS THAN 230mm MEASURED AT THE INSIDE EDGE OF THE LANDING, AND b. NOT LESS THAN 370mm MEASURED 230mm FROM THE INSIDE EDGE OF LANDING OR HANDRAIL	
	LANDING TURNING THROUGH NOT LESS THAN 90°	WIDTH OF STAIR OR RAMP MEASURED AT RIGHT ANGLE TO PATH OF TRAVEL	NOT LESS THAN WIDTH OF STAIR OR RAMP LANDING	
	STAIRS AND RAMPS SERVING OTHER THAN SINGLE DWELLING UNITS	IN STRAIGHT-RUN STAIR OR RAMP, OR LANDING TURNING THROUGH LESS THAN 30°	WIDTH OF STAIR OR CLEAR WIDTH OF RAMP	LESSER OF REQUIRED WIDTH OF STAIR OR CLEAR WIDTH OF RAMP, OR 1100mm
	LANDING TURNING THROUGH 30° OR MORE	WIDTH OF STAIR OR CLEAR WIDTH OF RAMP MEASURED AT RIGHT ANGLE TO PATH OF TRAVEL	NOT LESS THAN WIDTH OF STAIR OR CLEAR WIDTH OF RAMP	
(2) RESERVED				
(3)	WHERE STAIRS OR RAMPS OF DIFFERENT WIDTHS ADJOIN A SINGLE LANDING, THE MINIMUM WIDTH OF THE LANDING SHALL BE,			
(a)	NOT LESS THAN THE GREATER REQUIRED STAIR OR RAMP WIDTH, WHERE ONE OR MORE OF THE STAIR OR RAMP WIDTHS DO NOT EXCEED THEIR RESPECTIVE REQUIRED WIDTHS, OR			
(b)	NOT LESS THAN THE LESSER ACTUAL STAIR OR RAMP WIDTH, WHERE ALL OF THE WIDTHS OF THE STAIRS OR RAMPS EXCEED THEIR RESPECTIVE REQUIRED WIDTHS			
(4)	WHERE A DOOR SWINGS TOWARD A STAIR, THE FULL ARC OF THE SWING SHALL BE OVER THE LANDING			
(5)	THE SLOPE OF THE LANDINGS SHALL NOT EXCEED 1 IN 50.			
(6)	WHERE A DOORWAY OR STAIRWAY OPENS ONTO THE SIDE OF A RAMP, THE LANDING SHALL EXTEND FOR A DISTANCE OF NOT LESS THAN 300mm ON EITHER SIDE OF THE DOORWAY OR STAIRWAY, EXCEPT ON A SIDE ADJUTING AN END WALL.			
9.8.6.4. HEIGHT OVER LANDINGS				
(1)	THE CLEAR HEIGHT OVER LANDINGS SHALL BE NOT LESS THAN,			
(a)	1950mm (6'-5") FOR LANDINGS SERVING A SINGLE DWELLING UNIT, AND			
(b)	2050mm (6'-9") FOR LANDINGS NOT SERVING A SINGLE DWELLING UNIT.			
9.8.7. HANDRAILS				
9.8.7.1. REQUIRED HANDRAILS				
(1)	EXCEPT AS PROVIDED IN SENTENCES (2) TO (4), A HANDRAIL SHALL BE INSTALLED ON STAIRS AND RAMPS IN CONFORMANCE WITH TABLE 9.8.7.1.			
LOCATION OF STAIR OR RAMP	HANDRAILS SERVING STAIRS		HANDRAILS SERVING RAMPS	
	STAIRS LESS THAN 1100mm REQUIRED WIDTH	STAIRS GREATER THAN OR EQUAL TO 1100mm REQUIRED WIDTH	RAMPS LESS THAN 1100mm REQUIRED WIDTH	RAMPS GREATER THAN OR EQUAL TO 1100mm REQUIRED WIDTH
	STRAIGHT	CURVED	ALL	STRAIGHT OR CURVED
	NUMBER OF SIDES REQUIRED TO HAVE A HANDRAIL			
WITHIN A DWELLING UNIT	1	1	1	2
ALL OTHER LOCATIONS	1	2	2	2
(2)	WHERE A STAIR OR RAMP IS REQUIRED TO BE AT LEAST 2200mm 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.			
(3)	A HANDRAIL IS NOT REQUIRED FOR STAIRS AND RAMPS SERVING A SINGLE DWELLING UNIT, WHERE,			
(a)	INTERIOR STAIRS HAVE NOT MORE THAN TWO RISERS			
(b)	EXTERIOR STAIRS HAVE NOT MORE THAN THREE RISERS			
(c)	RAMPS RISE NOT MORE THAN 400mm			
(4)	ONLY ONE HANDRAIL IS REQUIRED ON EXTERIOR STAIRS HAVING MORE THAN THREE RISERS, PROVIDED SUCH STAIRS SERVE A SINGLE DWELLING UNIT			
9.8.7.2. CONTINUITY OF HANDRAILS (SEE APPENDIX A)				
(1)	EXCEPT AS PROVIDED IN SENTENCE (2), AT LEAST ONE REQUIRED HANDRAIL SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE STAIR OR RAMP, INCLUDING LANDINGS, EXCEPT WHERE INTERRUPTED BY,			
(a)	DOORWAYS, OR			
(b)	NEWEL POSTS AT CHANGES IN DIRECTION.			
(2)	FOR STAIRS OR RAMPS SERVING A SINGLE DWELLING UNIT, AT LEAST ONE REQUIRED HANDRAIL SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE STAIR OR RAMP, EXCEPT WHERE INTERRUPTED BY,			
(a)	DOORWAYS,			
(b)	LANDINGS, OR			
(c)	NEWEL POSTS AT CHANGES IN DIRECTION.			

STAIRS AND GUARDS:				
9.8.7.3.	TERMINATION OF HANDRAILS			
(1)	HANDRAILS SHALL BE TERMINATED IN A MANNER THAT WILL NOT OBSTRUCT PEDESTRIAN TRAVEL OR CREATE A HAZARD.			
(2)	EXCEPT FOR STAIRS AND RAMPS SERVING A SINGLE DWELLING UNIT, AT LEAST ONE HANDRAIL AT THE SIDES OF A STAIR OR RAMP SHALL EXTEND HORIZONTALLY NOT LESS THAN 300mm (11¾") BEYOND THE TOP AND BOTTOM OF EACH STAIR OR RAMP.			
9.8.7.4.	HEIGHT OF HANDRAILS			
(1)	THE HEIGHT OF HANDRAILS ON STAIRS AND RAMPS SHALL BE MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO			
(a)	A STRAIGHT LINE DRAWN TANGENT TO THE TREAD NOSINGS OF THE STAIR SERVED BY THE HANDRAIL, OR			
(b)	THE SURFACE OF THE RAMP, FLOOR OR LANDING SERVED BY THE HANDRAIL.			
(2)	EXCEPT AS PROVIDED IN SENTENCE (3) AND (4), THE HEIGHT OF HANDRAILS ON STAIRS AND RAMPS SHALL BE,			
(a)	NOT LESS THAN 865mm (2'-10"), AND			
(b)	NOT MORE THAN 965mm (3'-2")			
(3)	WHERE GUARDS ARE REQUIRED, HANDRAILS REQUIRED ON LANDINGS SHALL BE NOT MORE THAN 1070mm (3'-6") IN HEIGHT.			
(4)	HANDRAILS INSTALLED IN ADDITION TO REQUIRED HANDRAILS NEED NOT COMPLY WITH SENTENCE (2)			
9.8.7.5.	ERGONOMIC DESIGN			
(1)	A CLEARANCE OF NOT LESS THAN 50mm (2") SHALL BE PROVIDED BETWEEN A HANDRAIL AND ANY SURFACE BEHIND IT.			
(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.			
9.8.7.6.	PROJECTIONS INTO STAIRS AND RAMPS			
(1)	HANDRAILS AND PROJECTIONS BELOW HANDRAILS, INCLUDING HANDRAIL SUPPORTS AND STAIR STRINGERS SHALL NOT PROJECT MORE THAN 100mm (4") INTO THE REQUIRED WIDTH OF A STAIR OR RAMP.			
9.8.7.7.	DESIGN AND ATTACHMENT OF HANDRAILS (SEE APPENDIX A)			
(1)	HANDRAILS AND ANY BUILDING ELEMENT THAT COULD BE USED AS A HANDRAIL SHALL BE DESIGNED AND ATTACHED IN SUCH A MANNER AS TO RESIST,			
(a)	A CONCENTRATED LOAD AT ANY POINT OF NOT LESS THAN 0.9 kN (202lb), AND			
(b)	FOR HANDRAILS OTHER THAN THOSE SERVING A SINGLE DWELLING UNIT, A UNIFORMLY DISTRIBUTED LOAD OF 0.7 kN/M (48lb/ft).			
(2)	WHERE A HANDRAIL SERVING A SINGLE DWELLING UNIT IS ATTACHED TO WOOD STUDS OR BLOCKING, THE ATTACHMENT SHALL BE DEEMED TO COMPLY WITH SENTENCE (1) WHERE,			
(a)	THE ATTACHMENT POINTS ARE SPACED NOT MORE THAN 1.2 m APART,			
(b)	THE FIRST ATTACHMENT POINT AT EITHER END IS LOCATED NOT MORE THAN 300 mm FROM THE END OF THE HANDRAIL, AND			
(c)	THE FASTENERS CONSIST OF NO FEWER THAN 2 WOOD SCREWS AT EACH POINT, PENETRATING NOT LESS THAN 32mm (1¼") INTO SOLID WOOD.			
9.8.8.	GUARDS			
9.8.8.1.	REQUIRED GUARDS (SEE APPENDIX A)			
(1)	EXCEPT AS PROVIDED IN SENTENCES (2) AND (3), EVERY SURFACE TO WHICH ACCESS IS PROVIDED FOR OTHER THAN MAINTENANCE PURPOSES, INCLUDING BUT NOT LIMITED TO FLIGHTS OF STEPS AND RAMPS, EXTERIOR LANDINGS, PORCHES, BALCONIES, MEZZANINES, GALLERIES AND RAISED WALKWAYS, SHALL BE PROTECTED BY A GUARD ON EACH SIDE THAT IS NOT PROTECTED BY A WALL FOR THE LENGTH WHERE,			
(a)	THERE IS A DIFFERENCE IN ELEVATION OF MORE THAN 600 mm BETWEEN THE WALKING SURFACE AND THE ADJACENT SURFACE, OR			
(b)	THE ADJACENT SURFACE WITHIN 1.2m (3'-11") FROM THE WALKING SURFACE HAS A SLOPE OF MORE THAN 1 IN 2.			
(2)	GUARDS ARE NOT REQUIRED,			
(a)	AT LOADING DOCKS,			
(b)	AT FLOOR PITS IN REPAIR GARAGES, OR			
(c)	WHERE ACCESS IS PROVIDED FOR MAINTENANCE PURPOSES ONLY.			
(3)	WHEN AN INTERIOR STAIR HAS MORE THAN 2 RISERS OR AN INTERIOR RAMP RISES MORE THAN 400mm (15¾"), THE SIDES OF THE STAIR OR RAMP AND THE LANDING OR FLOOR LEVEL AROUND THE STAIRWELL OR RAMP SHALL BE PROTECTED BY A GUARD ON EACH SIDE THAT IS NOT PROTECTED BY A WALL.			
(4)	DOORS IN BUILDINGS OF RESIDENTIAL OCCUPANCY, WHERE THE FINISHED FLOOR ON ONE SIDE OF THE DOOR IS MORE THAN 600mm ABOVE THE FLOOR OR OTHER SURFACE OR GROUND LEVEL ON THE OTHER SIDE OF THE DOOR, SHALL BE PROTECTED BY,			
(a)	A GUARD IN ACCORDANCE WITH THIS SUBSECTION, OR			
(b)	A MECHANISM CAPABLE OF CONTROLLING THE FREE SWINGING OR SLIDING OF THE DOOR SO AS TO LIMIT ANY CLEAR UNOBSTRUCTED OPENING TO NOT MORE THAN 100mm			
(5)	EXCEPT AS PROVIDED IN SENTENCE (6), OPENABLE WINDOWS IN BUILDINGS OF RESIDENTIAL OCCUPANCY SHALL BE PROTECTED BY,			
(a)	A GUARD IN ACCORDANCE WITH THIS SUBSECTION, OR			
(b)	A MECHANISM CAPABLE OF CONTROLLING THE FREE SWINGING OR SLIDING OF THE DOOR SO AS TO LIMIT ANY CLEAR UNOBSTRUCTED OPENING TO NOT MORE THAN 100mm MEASURED EITHER VERTICALLY OR HORIZONTALLY WHERE THE OTHER DIMENSION IS GREATER THAN 380mm.			
(6)	WINDOWS NEED NOT BE PROTECTED IN ACCORDANCE WITH SENTENCE (5), WHERE,			
(a)	THE WINDOW SERVES A DWELLING UNIT THAT IS NOT LOCATED ABOVE ANOTHER SUITE, THE ONLY OPENING GREATER THAN 100mm BY 380mm IS A HORIZONTAL OPENING AT THE TOP OF THE WINDOW,			
(b)	THE TOP SURFACE OF THE WINDOW SILL IS LOCATED MORE THAN 480mm ABOVE THE FINISHED FLOOR ON ONE SIDE OF THE WINDOW, OR			
(c)	THE WINDOW IS LOCATED IN A ROOM OR SPACE WITH THE FINISHED FLOOR DESCRIBED IN CLAUSE (c) IS LOCATED LESS THAN 1800mm ABOVE THE FLOOR OR GROUND ON THE OTHER SIDE OF THE WINDOW.			
(7)	EXCEPT AS PROVIDED IN SENTENCE (8), GLAZING INSTALLED OVER STAIRS, RAMPS AND LANDINGS THAT EXTENDS TO LESS THAN 1070mm (3'-6") ABOVE THE SURFACE OF THE TREADS, RAMP OR LANDING SHALL BE,			
(a)	PROTECTED BY GUARDS IN ACCORDANCE WITH THIS SUBSECTION, OR			
(b)	NON-OPENABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LATERAL LOADS FOR GUARDS AS PROVIDED IN ARTICLE 4.1.5.14			
(8)	IN DWELLING UNITS, GLAZING INSTALLED OVER STAIRS, RAMPS AND LANDINGS THAT EXTENDS TO LESS THAN 900mm (2'-11") ABOVE THE SURFACE OF THE TREADS, RAMP OR LANDING SHALL BE,			
(a)	PROTECTED BY GUARDS IN ACCORDANCE WITH THIS SUBSECTION, OR			
(b)	NON-OPENABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LATERAL LOADS FOR GUARDS AS PROVIDED IN ARTICLE 4.1.5.14.			
(9)	GLAZING INSTALLED IN PUBLIC AREAS THAT EXTENDS TO LESS THAN 1000mm FROM THE FLOOR AND IS LOCATED ABOVE THE SECOND STOREY IN BUILDINGS OF RESIDENTIAL OCCUPANCY SHALL BE,			
(a)	PROTECTED BY GUARDS IN ACCORDANCE WITH THIS SUBSECTION, OR			
(b)	NON-OPENABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LATERAL LOADS FOR GUARDS AS PROVIDED IN ARTICLE 4.1.5.14.			
9.8.8.2.	LOADS ON GUARDS (SEE APPENDIX A)			
(1)	EXCEPT AS PROVIDED IN SENTENCE (5), GUARDS SHALL BE DESIGNED TO RESIST THE LOADS PRESCRIBED IN TABLE 9.8.8.2.			
	LOCATION OF GUARD	MINIMUM SPECIFIED LOADS		
		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	EVENLY DISTRIBUTED VERTICAL LOAD APPLIED AT THE TOP OF THE GUARD
	GUARDS WITHIN DWELLING UNITS AND EXTERIOR GUARDS SERVING NOT MORE THAN 2 DWELLING UNITS	0.5 kN/m OR CONCENTRATED LOAD OF 1.0kN APPLIED AT ANY POINT (1)	0.5 kN/m OR CONCENTRATED LOAD OF 1.0kN APPLIED OVER A MAXIMUM WIDTH OF 300mm AND A HEIGHT OF 300mm	1.5 kN/m
	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	1.5 kN/m
	ALL OTHER AREAS	0.75 kN/m OR CONCENTRATED LOAD OF 1.0kN APPLIED AT ANY POINT (1)	CONCENTRATED LOAD OF 0.5kN APPLIED AT ANY POINT ON INDIVIDUAL ELEMENTS	1.5 kN/m
	NOTES TO TABLE 9.8.8.2:			
	(1) THE LOAD THAT CREATES THE MOST CRITICAL CONDITION SHALL APPLY			
	(2) SEE SENTENCE (2)			
(2)	WHERE THE WIDTH AND SPACING OF BALUSTERS IN GUARDS WITHIN DWELLING UNITS AND IN EXTERIOR GUARDS SERVING NOT MORE THAN TWO DWELLING UNITS IS SUCH THAT THREE BALUSTERS CAN BE ENGAGED BY A LOAD IMPOSED OVER A 300mm WIDTH, THE LOAD SHALL BE IMPOSED SO AS TO ENGAGE THREE BALUSTERS			
(3)	NONE OF THE SPECIFIED LOADS PRESCRIBED IN TABLE 9.8.8.2. NEED TO BE CONSIDERED TO ACT SIMULTANEOUSLY			
(4)	FOR GUARDS WITHIN DWELLING UNITS AND FOR EXTERIOR GUARDS SERVING NOT MORE THAN 2 DWELLING UNITS, TABLE 9.8.8.2. NEED NOT APPLY WHERE THE GUARD CONSTRUCTION HAS BEEN DEMONSTRATED TO PROVIDE EFFECTIVE PERFORMANCE.			
(5)	GUARDS CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS IN MMH SUPPLEMENTARY STANDARD SB-7, "GUARDS FOR HOUSING AND SMALL BUILDINGS" SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF SENTENCE (1).			

STAIRS AND GUARDS:	
9.8.8.3.	HEIGHT OF GUARDS
(1)	EXCEPT AS PROVIDED IN SENTENCES (2) TO (6), ALL GUARDS SHALL BE NOT LESS THAN 1070mm (3'-6") HIGH.
(2)	ALL GUARDS WITHIN DWELLING UNITS SHALL BE NOT LESS THAN 900mm (2'-11") HIGH.
(3)	EXTERIOR GUARDS SERVING NOT MORE THAN ONE DWELLING UNIT SHALL BE NOT LESS THAN 900mm (2'-11") HIGH WHERE THE WALKING SURFACE SERVED BY THE GUARD IS NOT MORE THAN 1800mm (5'-11") ABOVE THE FINISHED GROUND LEVEL.
(4)	GUARDS FOR FLIGHTS OF STEPS, EXCEPT IN REQUIRED EXIT STAIRS, SHALL BE NOT LESS THAN 900mm (2'-11") HIGH.
(5)	EXCEPT AS PROVIDED IN SENTENCE (6), THE HEIGHT OF THE GUARDS SHALL BE NOT LESS THAN, (a) 920mm FOR REQUIRED EXIT STAIRS, AND (b) 1070mm ABOVE LANDINGS.
(6)	THE HEIGHT OF GUARDS FOR EXTERIOR STAIRS AND LANDINGS MORE THAN 10m ABOVE ADJACENT GROUND LEVEL SHALL BE NOT LESS THAN 1500mm.
(7)	THE HEIGHT OF GUARDS FOR STAIRS AND LANDINGS SHALL BE MEASURED VERTICALLY FROM THE TOP OF THE GUARD TO, (a) A STRAIGHT LINE DRAWN TANGENT TO THE TREAD NOSINGS OF THE STAIR, OR (b) THE SURFACE OF THE LANDING.
9.8.8.4.	GUARDS FOR FLOORS AND RAMPS IN GARAGES
(1)	EXCEPT FOR FLOORS OF GARAGES REFERRED TO IN SECTION 9.35., WHERE GARAGE FLOORS OR RAMPS ARE 600 MM OR MORE ABOVE THE ADJACENT GROUND OR FLOOR LEVEL, EVERY OPENING THROUGH A GARAGE FLOOR AND THE PERIMETER OF FLOORS AND RAMPS THAT HAVE NO EXTERIOR WALLS SHALL BE PROVIDED WITH, (a) A CONTINUOUS CURB NOT LESS THAN 150mm (5¾") IN HEIGHT, AND (b) A GUARD NOT LESS THAN 1070mm (3'-6") ABOVE THE FLOOR LEVEL.
9.8.8.5.	OPENINGS IN GUARDS (SEE APPENDIX A)
(1)	EXCEPT AS PROVIDED IN SENTENCE (2), OPENINGS THROUGH ANY GUARD THAT IS REQUIRED BY ARTICLE 9.8.8.1. SHALL BE OF A SIZE THAT WILL PREVENT THE PASSAGE OF A SPHERICAL OBJECT HAVING A DIAMETER OF 100mm (4") UNLESS IT CAN BE SHOWN THAT THE LOCATION AND SIZE OF OPENINGS THAT EXCEED THIS LIMIT DO NOT REPRESENT A HAZARD.
(2)	OPENINGS THROUGH ANY GUARD THAT IS REQUIRED BY ARTICLE 9.8.8.1. AND THAT IS INSTALLED IN A BUILDING OF INDUSTRIAL OCCUPANCY SHALL BE OF A SIZE THAT WILL PREVENT THE PASSAGE OF A SPHERICAL OBJECT HAVING A DIAMETER OF 200 MM UNLESS IT CAN BE SHOWN THAT THE LOCATION AND SIZE OF SUCH OPENINGS THAT EXCEED THIS LIMIT DO NOT REPRESENT A HAZARD.
(3)	UNLESS IT CAN

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CHIMNEYS & SOLID FUEL APPLIANCES

9.22.9.4.	HEAT CIRCULATING DUCT OPENINGS
(1)	THE CLEARANCE OF COMBUSTIBLE MATERIAL ABOVE HEAT CIRCULATING DUCT OPENINGS FROM THOSE OPENINGS SHALL BE NOT LESS THAN,
(a)	300mm (11¾") WHERE THE COMBUSTIBLE MATERIAL PROJECTS MORE THAN 38mm (1½") FROM THE FACE, AND
(b)	150mm (5¾") WHERE THE PROJECTION IS LESS THAN 38mm (1½").
9.22.10.	FIREPLACE INSERTS AND HEARTH-MOUNTED STOVES
9.22.10.1.	INSTALLATION STANDARD
(1)	FIREPLACE INSERTS AND HEARTH MOUNTED STOVES VENTED THROUGH THE THROAT OF A FIREPLACE SHALL CONFORM TO ULC-S628, "FIREPLACE INSERTS".
9.22.10.2.	INSTALLATION
(1)	THE INSTALLATION OF FIREPLACE INSERTS AND HEARTH MOUNTED STOVES VENTED THROUGH THE THROAT OF A FIREPLACE SHALL CONFORM TO CAN/CSA-B365, "INSTALLATION CODE FOR SOLID-FUEL BURNING APPLIANCES AND EQUIPMENT".
(2)	FIREPLACE INSERTS AND HEARTH MOUNTED STOVES VENTED THROUGH THE THROAT OF A FIREPLACE DESCRIBED IN SENTENCE (1) MAY BE INSTALLED IN EXISTING FIREPLACES ONLY IF A MINIMUM THICKNESS OF 190mm (7½") OF SOLID MASONRY IS PROVIDED BETWEEN THE SMOKE CHAMBER AND ANY EXISTING COMBUSTIBLE MATERIALS, UNLESS THE INSERT IS LISTED FOR LESSER CLEARANCES.
(3)	A FIREPLACE INSERT INSTALLED IN A MASONRY FIREPLACE SHALL HAVE,
(a)	A LISTED METAL CHIMNEY LINER INSTALLED FROM THE INSERT COLLAR TO THE TOP OF THE CHIMNEY, OR
(b)	A DIRECT SEALED CONNECTION TO THE CHIMNEY FLUE WHERE SUCH PROVISION IS PART OF AN INSERT CONFORMING TO SENTENCE 9.22.10.1.(1).
9.32.3.8.	PROTECTION AGAINST DEPRESSURIZATION
(1)	WHEN DETERMINING THE NEED TO PROVIDE PROTECTION AGAINST DEPRESSURIZATION, CONSIDERATION MUST BE GIVEN TO,
(a)	WHETHER THE PRESENCE OF SOIL GAS IS DEEMED TO BE A PROBLEM, AND THE PRESENCE OF SOLID FUEL-FIRED COMBUSTION APPLIANCES.
(2)	WHERE A SOLID FUEL-FIRED COMBUSTION APPLIANCE IS INSTALLED, THE VENTILATION SYSTEM SHALL INCLUDE A HEAT RECOVERY VENTILATOR THAT IS DESIGNED TO OPERATE SO THAT THE FLOW OF EXHAUST AIR DOES NOT EXCEED THE FLOW OF INTAKE AIR IN ANY OPERATING MODE, AND THAT COMPLIES WITH THE REQUIREMENTS OF ARTICLE 9.32.3.11.

CHIMNEYS & SOLID FUEL APPLIANCES

9.33.4.	CARBON MONOXIDE ALARMS
9.33.4.1.	APPLICATION
(1)	THIS SUBSECTION APPLIES TO EVERY BUILDING THAT,
(a)	CONTAINS A RESIDENTIAL OCCUPANCY, AND
(b)	CONTAINS A FUEL-BURNING APPLIANCE OR STORAGE GARAGE.
9.33.4.2.	LOCATION OF CARBON MONOXIDE ALARMS
(1)	WHERE A FUEL-BURNING APPLIANCE IS INSTALLED IN A SUITE OF RESIDENTIAL OCCUPANCY, A CARBON MONOXIDE ALARM SHALL BE INSTALLED ADJACENT TO EACH SLEEPING AREA IN THE SUITE.
(2)	WHERE A FUEL-BURNING APPLIANCE IS INSTALLED IN A SERVICE ROOM THAT IS NOT IN A SUITE OF RESIDENTIAL OCCUPANCY, A CARBON MONOXIDE ALARM SHALL BE INSTALLED,
(a)	ADJACENT TO EACH SLEEPING AREA IN EVERY SUITE OF RESIDENTIAL OCCUPANCY THAT IS ADJACENT TO THE SERVICE ROOM, AND
(b)	IN THE SERVICE ROOM.
(3)	WHERE A STORAGE GARAGE IS LOCATED IN A BUILDING CONTAINING A RESIDENTIAL OCCUPANCY, A CARBON MONOXIDE ALARM SHALL BE INSTALLED ADJACENT TO EACH SLEEPING AREA IN EVERY SUITE OF RESIDENTIAL OCCUPANCY THAT IS ADJACENT TO THE STORAGE GARAGE.
(4)	WHERE A STORAGE GARAGE SERVES ONLY THE DWELLING UNIT TO WHICH IT IS ATTACHED OR BUILT IN, A CARBON MONOXIDE ALARM SHALL BE INSTALLED ADJACENT TO EACH SLEEPING AREA IN THE DWELLING UNIT.
(5)	A CARBON MONOXIDE ALARM SHALL BE MECHANICALLY FIXED,
(a)	AT THE MANUFACTURER'S RECOMMENDED HEIGHT, OR
(b)	IN THE ABSENCE OF SPECIFIC INSTRUCTIONS, ON OR NEAR THE CEILING.
9.33.4.3.	INSTALLATION AND CONFORMANCE TO STANDARDS
(1)	THE CARBON MONOXIDE ALARM REQUIRED BY ARTICLE 9.33.4.2. SHALL,
(a)	EXCEPT AS PERMITTED IN SENTENCE (2), BE PERMANENTLY CONNECTED TO AN ELECTRICAL CIRCUIT AND SHALL HAVE NO DISCONNECT SWITCH BETWEEN THE OVERCURRENT DEVICE AND THE CARBON MONOXIDE ALARM,
(b)	BE WIRED SO THAT ITS ACTIVATION WILL ACTIVATE ALL CARBON MONOXIDE ALARMS WITHIN THE SUITE, WHERE LOCATED WITHIN A
(c)	SUITE OF RESIDENTIAL OCCUPANCY
(d)	BE EQUIPPED WITH AN ALARM THAT IS AUDIBLE WITHIN BEDROOMS WHEN INTERVENING DOORS ARE CLOSED, WHERE LOCATED ADJACENT TO A SLEEPING AREA, AND CONFORM TO,
(a)	I. CAN/CSA-6.19, RESIDENTIAL CARBON MONOXIDE ALARMING DEVICES, OR
(b)	II. UL 2034, SINGLE AND MULTIPLE STATION CARBON MONOXIDE ALARMS.
(2)	WHERE THE BUILDING IS NOT SUPPLIED WITH ELECTRICAL POWER, CARBON MONOXIDE ALARMS ARE PERMITTED TO BE BATTERY OPERATED.

ENERGY EFFICIENCY FOR HOUSING

O.B.C. SUPPLEMENTARY STANDARD SB-12, FOREWORD:

THIS SUPPLEMENTARY STANDARD HAS BEEN INCLUDED AS A DESIGN OPTION IN SENTENCES 12.2.1.1.(3) AND 12.2.1.2.(3) OF THE BUILDING CODE TO RECOGNIZE THE NEEDS OF CONSUMERS AND THE BUILDING INDUSTRY FOR A PREDICTABLE PRESCRIPTIVE SOLUTION.

SENTENCE 12.2.1.1.(3) REQUIRES THE ENERGY EFFICIENCY DESIGN OF A BUILDING OR PART OF A BUILDING OF RESIDENTIAL OCCUPANCY WITHIN THE SCOPE OF PART 9 THAT IS INTENDED TO BE OCCUPIED ON A CONTINUING BASIS DURING THE WINTER MONTHS TO COMPLY WITH:

- SUPPLEMENTARY STANDARD SB-12 (CHAPTER 2); OR
- ACHIEVE AN ENERGY EFFICIENCY PERFORMANCE LEVEL THAT IS EQUAL TO A RATING OF 80 OR MORE WHEN EVALUATED IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS OF NRCC, "ENERGUIDE FOR NEW HOUSES: ADMINISTRATIVE AND TECHNICAL PROCEDURES", JANUARY 2005.

SENTENCE 12.2.1.2.(3) WHICH APPLIES AFTER DECEMBER 31, 2016 REQUIRES THE ENERGY EFFICIENCY DESIGN OF A BUILDING OR PART OF A BUILDING OF RESIDENTIAL OCCUPANCY WITHIN THE SCOPE OF PART 9 THAT IS INTENDED TO BE OCCUPIED ON A CONTINUING BASIS DURING THE WINTER MONTHS TO COMPLY WITH:

- SUPPLEMENTARY STANDARD SB-12 (CHAPTER 3); OR
- ACHIEVE AN ENERGY EFFICIENCY PERFORMANCE LEVEL THAT EXCEEDS THE ENERGY EFFICIENCY REQUIREMENTS OF SENTENCE 12.2.1.1.(3) OF THE BUILDING CODE BY 15%.

THIS SUPPLEMENTARY STANDARD PROVIDES PRESCRIPTIVE AND PERFORMANCE COMPLIANCE DESIGN OPTIONS FOR CONSTRUCTION FOR WHICH A PERMIT IS APPLIED FOR EITHER BEFORE JANUARY 1, 2017, OR AFTER DECEMBER 31, 2016. THE PRESCRIPTIVE AND PERFORMANCE OPTIONS SPECIFICALLY PRESCRIBED IN THIS SUPPLEMENTARY STANDARD, UNLESS OTHERWISE SPECIFIED, DO NOT REQUIRE BLOWER DOOR TESTING TO DEMONSTRATE COMPLIANCE.

THIS SUPPLEMENTARY STANDARD ALSO RECOGNIZES ENERGY STAR AS A VIABLE DESIGN OPTION FOR MEETING THE ENERGY EFFICIENCY REQUIREMENTS OF THE BUILDING CODE.

SECTION 2.1 METHODS FOR ACHIEVING ENERGY EFFICIENCY COMPLIANCE

2.1.1.1. ENERGY EFFICIENCY

(7) EXCEPT AS PROVIDED IN SENTENCE (8) AND EXCEPT AS PERMITTED IN SENTENCE (9), AND 2.1.1.10.(3), WHERE THE RATIO OF THE GROSS AREA OF WINDOWS, SIDELIGHTS, SKYLIGHTS, GLAZING IN DOORS AND SLIDING GLASS DOORS TO THE GROSS AREA OF PERIPHERAL WALLS MEASURED FROM GRADE TO THE TOP OF THE UPPER MOST CEILING IS NOT MORE THAN 17%, THE BUILDING SHALL COMPLY WITH A COMPLIANCE PACKAGE SELECTED FROM TABLES 2.1.1.2.A, 2.1.1.2.B, AND 2.1.1.2.C. AND TABLES 2.1.1.3.A, 2.1.1.3.B AND 2.1.1.3.C. (SEE APPENDIX A)

(8) EXCEPT AS PERMITTED IN SENTENCES (9) AND 2.1.1.10.(3), WHERE THE RATIO OF THE GROSS AREA OF WINDOWS, SIDELIGHTS, SKYLIGHTS, GLAZING IN DOORS AND SLIDING GLASS DOORS TO THE GROSS AREA OF PERIPHERAL WALLS MEASURED FROM GRADE TO THE TOP OF THE UPPER MOST CEILING IS MORE THAN 17% BUT NOT MORE THAN 22%, THE BUILDING SHALL COMPLY WITH A COMPLIANCE PACKAGE SELECTED FROM TABLES 2.1.1.2.A, 2.1.1.2.B, AND 2.1.1.2.C AND TABLES 2.1.1.3.A, 2.1.1.3.B AND 2.1.1.3.C., AND THE OVERALL COEFFICIENT OF HEAT TRANSFER OF THE GLAZING SHALL BE UPGRADED TO;

- (a) 1.8 WHERE THE SELECTED COMPLIANCE PACKAGE REQUIRED 2.0,
- (b) 1.6 WHERE THE SELECTED COMPLIANCE PACKAGE REQUIRES 1.8, AND
- (c) 1.4 WHERE THE SELECTED COMPLIANCE PACKAGE REQUIRES 1.6.

(9) GLAZING IN MAIN ENTRANCE DOORS AND ADJACENT SIDELIGHTS TO MAIN ENTRANCE DOORS NEED NOT BE CALCULATED FOR THE PURPOSES OF SENTENCES (7), (8), AND (10).

(10) EXCEPT AS PROVIDED IN SENTENCE (9) AND 2.1.1.10.(3), WHERE THE RATIO OF GROSS AREA OF WINDOWS, SIDELIGHTS, SKYLIGHTS, GLAZING IN DOORS AND SLIDING GLASS DOORS TO THE GROSS AREA OF PERIPHERAL WALLS MEASURED FROM GRADE TO TOP OF THE UPPER MOST CEILING IS MORE THAN 22%, THE BUILDING SHALL COMPLY WITH SUBSECTION 2.1.2.

2.1.1.6. INSULATION OF FOUNDATION WALLS.

(1) FOUNDATION WALLS ENCLOSING HEATED SPACE SHALL BE INSULATED FROM THE UNDERSIDE OF THE SUB-FLOOR TO NOT MORE THAN 200mm (8") ABOVE THE FINISHED FLOOR LEVEL OF THE BASEMENT.

2.1.1.10. ADDITIONS TO EXISTING BUILDINGS.

(1) EXCEPT AS PERMITTED IN SENTENCES (2) AND (3), AN ADDITION TO AN EXISTING BUILDING SHALL COMPLY WITH

- (a) ONE OF THE APPLICABLE COMPLIANCE PACKAGES IN ARTICLE 2.1.1.2 OR 2.1.1.3 IN ACCORDANCE WITH THIS SUBSECTION, OR
- (b) SENTENCES 2.1.1.1.(7) TO (10), EXCEPT THAT THE TABLES REFERENCED IN SENTENCES 2.1.1.1.(7) AND (8) ARE PERMITTED TO BE SUBSTITUTED WITH TABLE 2.1.1.10.

(2) FOR THE PURPOSES OF SENTENCES 2.1.1.1.(7) TO (10) AND SUBSECTION 2.1.2, THE ADDITION MAY BE CONSIDERED INDEPENDENTLY OR IN COMBINATION WITH THE EXISTING BUILDING, REGARDLESS OF THE THERMAL CHARACTERISTICS OF THE EXISTING BUILDING ENVELOPE.

(3) A ONE-STORY SUNROOM ADDITION TO AN EXISTING BUILDING SHALL BE DEEMED IN COMPLIANCE WITH ARTICLES 2.1.1.2, AND 2.1.1.3 AND SUBSECTION 2.1.2, PROVIDED THAT THE OVERALL COEFFICIENT OF HEAT TRANSFER OF

- (a) DOORS, WINDOWS AND WALLS HAS A MAXIMUM U-VALUE OF
 - 1.6 IF THE BUILDING IS LOCATED IN ZONE 1 WITH LESS THAN 5000 HEATING DEGREE DAYS,
 - 1.4 IF THE BUILDING IS LOCATED IN ZONE 2 WITH 5000 OR MORE HEATING DEGREE DAYS, OR
 - 1.4 IF THE BUILDING USES ELECTRIC SPACE HEATING, AND
- (b) ROOFS AND SKYLIGHTS HAS A MAXIMUM U-VALUE OF 2.6

MEASURES TO CONTROL AIR INFILTRATION:

3.1. AIR INFILTRATION OF EXTERIOR WINDOWS

3.1.1. AIR LEAKAGE RATE OF EXTERIOR WINDOWS

(1) THE AIR LEAKAGE RATE OF WINDOWS SHALL NOT EXCEED 1.65 M³/H PER METRE (0.29 CFM PER FOOT) OF CRACK LENGTH WHEN EVALUATED IN ACCORDANCE WITH THE CAN/CSA-A440.1, "USER SELECTION GUIDE TO CSA STANDARD CAN/CSA-A440-00 WINDOWS".

3.2. AIR BARRIER SYSTEMS

3.2.1. REQUIRED BARRIER TO AIR LEAKAGE

(1) WALL, CEILING AND FLOOR ASSEMBLIES THAT SEPARATE CONDITIONED SPACES FROM UNCONDITIONED SPACES SHALL BE SEALED TO PREVENT AIR LEAKAGE.

(2) WHERE THE AIR BARRIER SYSTEM CONSISTS OF FLEXIBLE SHEET MATERIAL, ALL JOINTS SHALL BE, (A) SEALED WITH COMPATIBLE MATERIAL SUCH AS TAPE OR FLEXIBLE SEALANT, OR (B) EXCEPT AS REQUIRED IN SENTENCE (3), LAPPED NOT LESS THAN 100 MM AND CLAMPED, SUCH AS BETWEEN FRAMING MEMBERS, FURRING OR BLOCKING AND RIGID PANELS.

(3) WHERE AN AIR BARRIER SYSTEM CONSISTING OF FLEXIBLE SHEET MATERIAL IS INSTALLED AT LOCATIONS WHERE IT IS NOT SUPPORTED BY AN INTERIOR FINISH, SUCH AS BEHIND A BATH TUB, SHOWER ENCLOSURE, OR FIREPLACE, THE CONTINUITY OF THE AIR BARRIER SHALL BE MAINTAINED BY SEALING ITS JOINTS.

(4) WHERE AN INTERIOR WALL MEETS AN EXTERIOR WALL, CEILING, FLOOR OR ROOF REQUIRED TO BE PROVIDED WITH AN AIR BARRIER PROTECTION, THE AIR BARRIER SYSTEM SHALL EXTEND ACROSS THE INTERSECTION AND SHALL BE SEALED IN ACCORDANCE WITH SENTENCES (1) AND (2).

(5) WHERE AN INTERIOR WALL PROJECTS THROUGH A CEILING OR EXTENDS TO BECOME AN EXTERIOR WALL, SPACES IN THE WALL SHALL BE BLOCKED TO PROVIDE CONTINUITY ACROSS THOSE SPACES WITH THE AIR BARRIER ABOVE AND BELOW IN ACCORDANCE WITH SENTENCES (1) AND (2).

(6) SEALING EACH AIR BARRIER TO THE BLOCKING, OR

(7) WRAPPING EACH AIR BARRIER AROUND THE TRANSITION AND SEALING IN ACCORDANCE WITH SENTENCES (1) AND (2).

(8) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(9) SEALING EACH AIR BARRIER TO THE BLOCKING, OR

(10) SEALING EACH AIR BARRIER AROUND THE TRANSITION AND SEALING IN ACCORDANCE WITH SENTENCES (1) AND (2).

(11) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(12) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(13) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(14) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(15) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(16) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

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(18) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(19) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(20) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(21) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

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(23) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(24) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(25) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

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(31) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(32) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(33) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(34) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

(35) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL OR EXTENDS TO BECOME AN EXTERIOR FLOOR, CONTINUITY OF THE AIR BARRIER SYSTEM SHALL BE MAINTAINED FROM THE ABUTTING WALLS ACROSS THE FLOOR ASSEMBLY.

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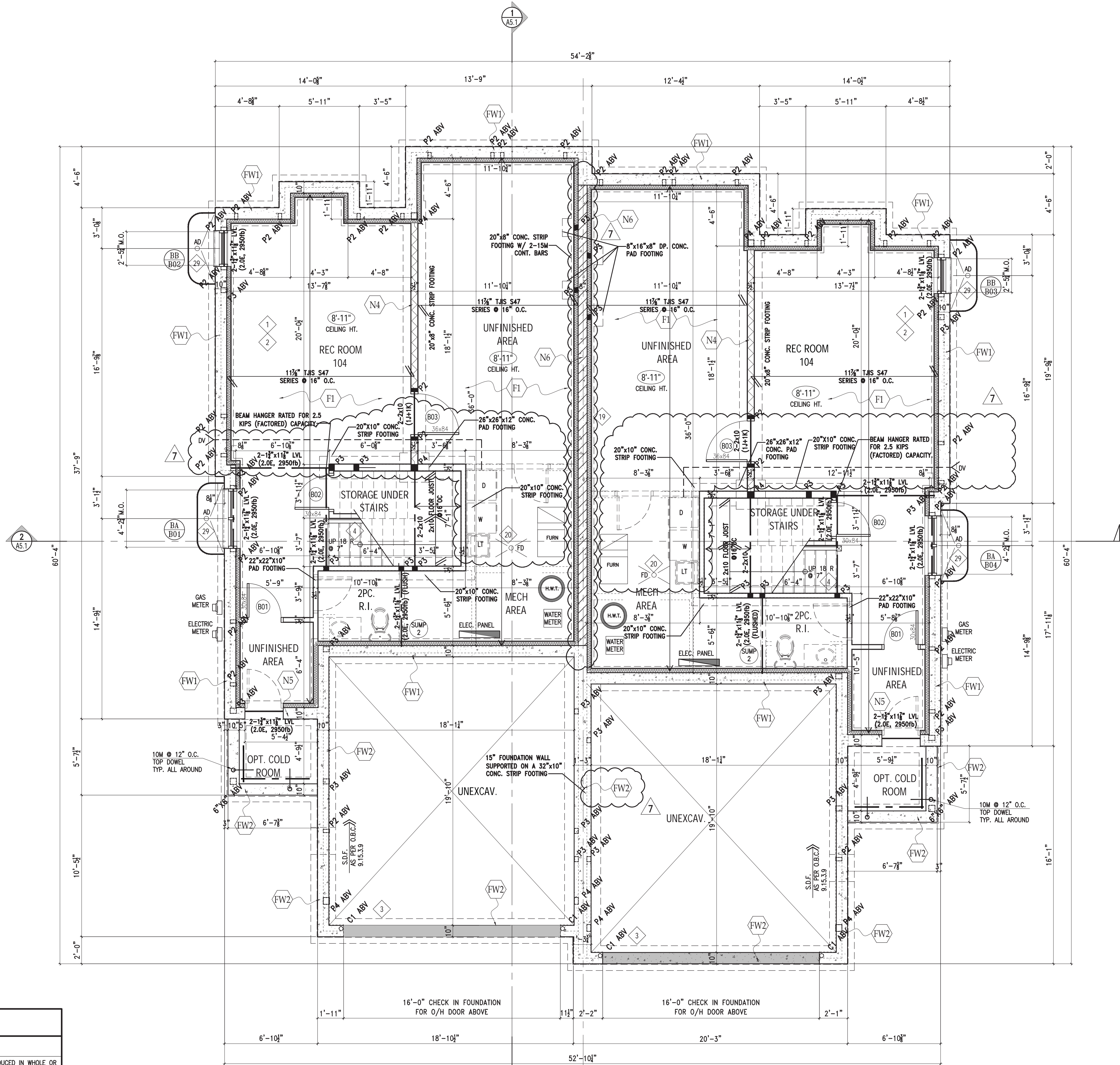
STRUCTURAL NOTES:

- FACTORED SOIL BEARING CAPACITY IS ASSUMED TO BE 2000 PSF, WHICH IS TO BE CONFIRMED BY A CERTIFIED SOILS ENGINEER.
- CONTRACTOR IS TO NOTIFY ENGINEER OF COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR IS TO NOTIFY ENGINEER 48 HOURS PRIOR TO FIRST FOUNDATION WALL POUR FOR REBAR INSPECTION.
- CONTRACTOR IS TO CONTACT ENGINEER FOR FINAL FRAMING INSPECTION.
- ALL EXISTING FRAMING TO BE SITE VERIFIED AND SUITABILITY IS TO BE DETERMINED.
- CONTRACTOR IS TO PROVIDE ADEQUATE SHORING DURING CONSTRUCTION.
- ALL TIMBER TO BE SPF #2 OR BETTER.
- ALL SCL TO BE LIV. 2.0e, 2950 F_b OR BETTER
- ALL STEEL TO BE 350W AND SHALL CONFORM TO CSA G40.21-92.
- ALL REINFORCING STEEL TO BE 400W AND SHALL CONFORM TO CSA-G30.18-M92.
- CONCRETE: F_c = 25 MPa AT 28 DAYS, SLUMP 75 MM (3"), AIR CONTENT IN CONCRETE EXPOSED TO WEATHER 3%-6%.
- ALL TIMBER EXPOSED TO THE EXTERIOR IS TO BE PRESSURE TREATED, INCLUDING STRUCTURAL TIMBER WITHIN EXTERIOR COLUMNS.
- ALL STEEL EXPOSED TO THE EXTERIOR IS TO BE HOT DIPPED GALVANIZED.
- DESIGNER TO CONFIRM FLUSH AND DROPPED BEAMS (ALL BEAMS FLUSH UNLESS OTHERWISE NOTED). PROVIDE SADDLE FOR WOOD BEAMS WHICH BEAR ONTO OR INTO STEEL COLUMNS W/ 2-½" THROUGH BOLTS.
- CONNECT 2"x6" WOOD PLATE TO TOP OF ALL STEEL BEAMS WITH ½" THROUGH BOLT @ 2'-0" O.C., STAGGERED ON EACH SIDE OF WEB. IF USING SIDE MOUNTED HANGERS, FILL WEB WITH 2"x HANGERS TO CLEAR FLANGE USING ½" THROUGH BOLT @ 2'-0" O.C., STAGGERED TOP AND BOTTOM.
- ENGINEERED JOIST AND BEAM SHOP DRAWINGS (STAMPED BY P. ENG.) WHICH INCLUDE SPECS FOR ALL REQUIRED JOIST AND BEAM HANGERS ARE TO BE PROVIDED TO ENGINEER FOR REVIEW.
- ROOF TRUSS SHOP DRAWINGS (STAMPED BY P. ENG.) ARE TO BE PROVIDED TO ENGINEER FOR REVIEW.
- TRUSS DESIGN TO BE IN ACCORDANCE WITH PART 4 OF THE OBC, LIMIT STATES DESIGN.
- PROVIDE HOLD DOWN CLIPS AT ALL TRUSSES. ROOF TRUSS ENGINEER TO DESIGN FOR UPLIFT CONNECTION OF TRUSSES TO TOP PLATE.
- HORIZONTAL DEFLECTION OF SCISSOR TRUSSES IS TO BE LIMITED TO L/500 OF HEIGHT OF SUPPORTING WALL.
- CONNECT INTERIOR NON-LOAD BEARING WALLS TO TRUSSES USING A SLIDING CONNECTION.
- DESIGN LOADS:
GROUND AND SECOND FLOOR LIVE LOADS = 40 PSF. ROOF SNOW LOAD = 26 PSF.
GROUND AND SECOND FLOOR DEAD LOADS = 20 PSF. ROOF DEAD LOAD = 15 PSF.
TERRACE/BALCONY LIVE LOAD = 50 PSF. CEILING LIVE LOAD = 10 PSF.
TERR

4/2/2019 Y:\002 DRAWINGS\PROJECTS\AJM\PROJECT000 - OUR PROJECT ARCHIVE\002-16 MILTON SEMI-473 BRONTE ST-171-04-10 PERMIT 19-03-28.DWG

- ALL FLOOR JOISTS TO BE TJI S47 SERIES @ 16" O.C.
- REFER TO INTERIOR DESIGNER FOR ALL FLOOR FINISHES, CEILING TREATMENTS, TRIM PROFILES AND FLOOR PATTERNS.
- WINDOWS R.S.O. SIZED TO PELLA ARCHITECT SERIES, WOOD TYPE ANY CHANGE TO BE COORDINATED AND MARKED UP BY WINDOW REP.
- ALL INTERIOR DIMENSIONS AND WINDOW R.S.O./LOCATIONS ARE TO STUDLINE FRAMING.
- ALL NEW DOORS AND ARCHWAYS TO MATCH EXISTING DOOR AND HEAD HEIGHTS ON FLOOR

GENERAL NOTES:	
1.	DO NOT SCALE DRAWINGS.
2.	ALL DRAWINGS ARE THE PROPERTY OF THE DESIGNER AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT FROM THE SAID DESIGNER.
3.	CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK AND TO REPORT ANY DISCREPANCIES TO THE DESIGNER. FAILURE TO DO SO WILL CAUSE FORFEIT TO ANY CLAIM.
4.	ALL CONSTRUCTION TO BE ACCORDING TO BEST COMMON PRACTICE AND TO CONFORM TO THE ONTARIO BUILDING CODE OR OTHER CODES HAVING JURISDICTION.
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7.	PROVIDE ADEQUATE TEMPORARY SHORING AS REQUIRED DURING DEMOLITION OF STRUCTURAL WALLS AND COMPONENTS. ANY AND ALL RESULTING DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



AREAS	
FINISHED BASEMENT	310.00 SQ.FT.
UNFINISHED BASEMENT	580.00 SQ.FT.
TOTAL BASEMENT AREA	890.00 SQ.FT.

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REGISTRATION AND QUALIFICATION INFORMATION
Required unless design is exempt under 2.17.5.1 and/or 2.17.4.1 of the Ontario Building Code
FIRM BCIN: 111071
INDIVIDUAL BCIN: 30866
NAME: A. Jarret McNamee SIGNATURE: [Signature]
This document must be signed above to be valid. Reproductions should not be accepted.

LEGEND:

12	CONSTRUCTION TYPE INDICATOR
801	DOOR NUMBER
HEIGHT	CEILING HEIGHT INDICATOR
1/101	WINDOW DESIGNATOR
25	REFERENCE TO NOTE SCHEDULE
WOOD STRIP FLOOR	PROPOSED FLOOR FINISH REFER TO CLUENT FOR SPECS.
C.M.A.	CARBON MONOXIDE ALARM
I.S.A.	INTERCONNECTED SMOKE ALARM
SLOPED FLAT CEILING/CEILING	INDICATES CHANGES IN CEILING SLOPES.
T.O.P. = 87.51	INDICATES TOP OF PORCH SLAB ELEVATION
87.11	INDICATES FLOOR/GRADE ELEVATION
12:12	INDICATES SLOPE AND DOWNWARD DIRECTION
HB	HOSE BIB
<DV	DRYER VENT



SEALED FOR STRUCTURE ONLY

8	19.04.08	RE-ISSUED FOR EXPIRED B.P.
7	17.01.18	REVISED AS PER CITY COMMENTS
6	16.12.02	ISSUED FOR PERMITS
5	16.10.08	ISSUED TO CONSULTANTS
4	16.09.20	ISSUED FOR FLOOR LAYOUTS
3	16.07.28	ISSUED FOR MINOR VARIANCE
2	16.06.14	ISSUED FOR TRUSSES
1	16.03.10	ISSUED FOR REVIEW

REF. DATE: DESCRIPTION:

REVISIONS / ISSUANCE:



#3 - 2526 Speers Road, Oakville ON, L6L 5M2
T: 905.825.0433 E: info@ajmdesigns.ca

CLIENT:

U&N ENTERPRIZE
5371 CHURCHILL MEADOWS BLVD
MISSISSAUGA, ON. L5M 7U1

ADDRESS: 471-473 BRONTE STREET
CITY: MILTON, ON.

DRAWING TITLE:

BASEMENT FLOOR PLAN

DRAWN: J.Mc.

DATE: 18.10.15

JOB NUMBER:

235-16

SCALE: N.T.S.

SHEET NUMBER:

A3.1

4/8/2019 Y:\002\DRAWINGS\PROJECTS\AM\PROJECT000 - OLD PROJECT ARCHIVE\026-16 MILTON SEMI-473 BRONTE ST. 1473 BRONTE - PERMIT 19-03-28.DWG

REFER TO INTERIOR DESIGNER FOR ALL FLOOR FINISHES, CEILING TREATMENTS, TRIM PROFILES AND FLOOR PATTERNS.

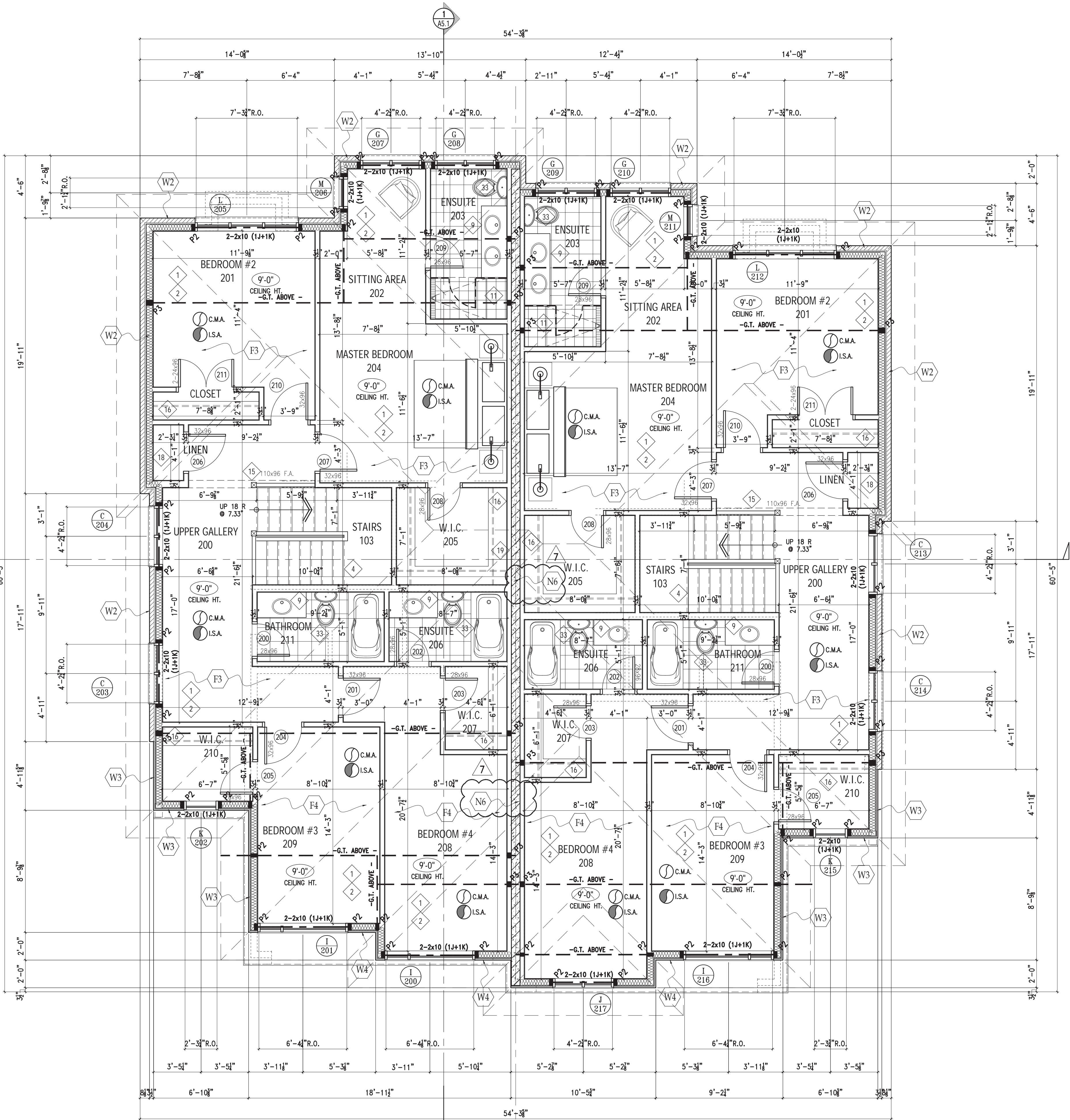
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TOTAL GROSS FLOOR AREA 2,320.00 SQ.FT.

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TOTAL GROSS FLOOR AREA 2,320.00 SQ.FT.

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INDIVIDUAL BCIN: 30866
NAME: A. Jarret McNamee SIGNATURE: *A. Jarret McNamee*
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801	DOOR NUMBER
HEIGHT	CEILING HEIGHT INDICATOR
1/107	WINDOW DESIGNATOR
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I.S.A.	INTERCONNECTED SMOKE ALARM
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CLIENT:
U&N ENTERPRIZE
5371 CHURCHILL MEADOWS BLVD
MISSISSAUGA, ON. L5M 7U1

ADDRESS: 471-473 BRONTE STREET
CITY: MILTON, ON.

DRAWING TITLE:

**SECOND FLOOR PLAN
(4 BEDROOM OPTION)**

DRAWN: J.Mc.

DATE: 18.10.15

JOB NUMBER:

235-16

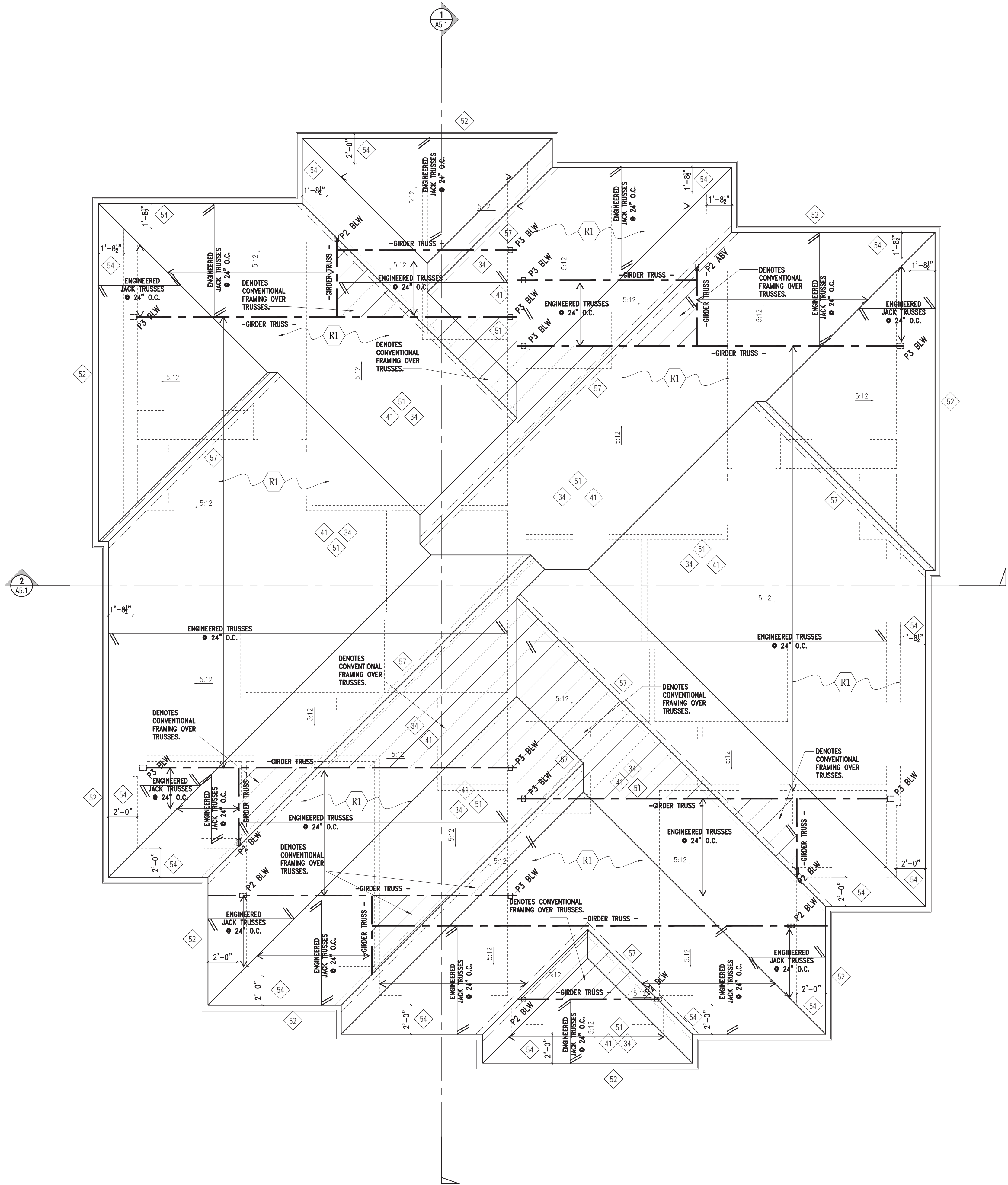
SCALE: N.T.S.

SHEET NUMBER:

A3.3

4/8/2019 Y:\002 DRAWINGS\PROJECTS\AJM\PROJECT000 - OLD PROJECT ARCHIVE\026-16 MILTON SEMI-473 BRONTE ST\171-473 BRONTE - PERMIT 19-03-38.DWG

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	WINDOW DESIGNATOR
	REFERENCE TO NOTE SCHEDULE
	INDICATES SLOPE AND DOWNWARD DIRECTION



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REVISIONS / ISSUANCE:

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CLIENT:
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5371 CHURCHILL MEADOWS BLVD
MISSISSAUGA, ON. L5M 7U1

ADDRESS: 471-473 BRONTE STREET
CITY: MILTON, ON.

DRAWING TITLE:
ROOF PLAN

DRAWN: J.Mc.	
DATE: 18.10.15	SCALE: N.T.S.
JOB NUMBER:	SHEET NUMBER:
235-16	A3.5

4/8/2019 Y:\002 DRAWINGS\PROJECTS\AM\PROJECT\000 - OLD PROJECT ARCHIVE\026-16 MILTON SEMI-473 BRONTE - PERMIT 19.03.08.DWG



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FIRM BCIN: 111071

INDIVIDUAL BCIN: 36866

NAME: A. Jarret McNamee SIGNATURE: *A. Jarret McNamee*

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8	19.04.08	RE-ISSUED FOR EXPIRED B.P.
7	17.01.18	REVISED AS PER CITY COMMENTS
6	16.12.02	ISSUED FOR PERMITS
5	16.10.08	ISSUED TO CONSULTANTS
4	16.09.20	ISSUED FOR FLOOR LAYOUTS
3	16.07.28	ISSUED FOR MINOR VARIANCE
2	16.06.14	ISSUED FOR TRUSSES
1	16.03.10	ISSUED FOR REVIEW
REF.	DATE:	DESCRIPTION:
REVISIONS / ISSUANCE:		

AJM DESIGNS INC

#3 - 2526 Speers Road, Oakville ON, L6L 5M2
T: 905.825.0433 E: info@ajmdesigns.ca

CLIENT:

U&N ENTERPRIZE

5371 CHURCHILL MEADOWS BLVD
MISSISSAUGA, ON. L5M 7U1

ADDRESS: 471-473 BRONTE STREET
CITY: MILTON, ON.

DRAWING TITLE:

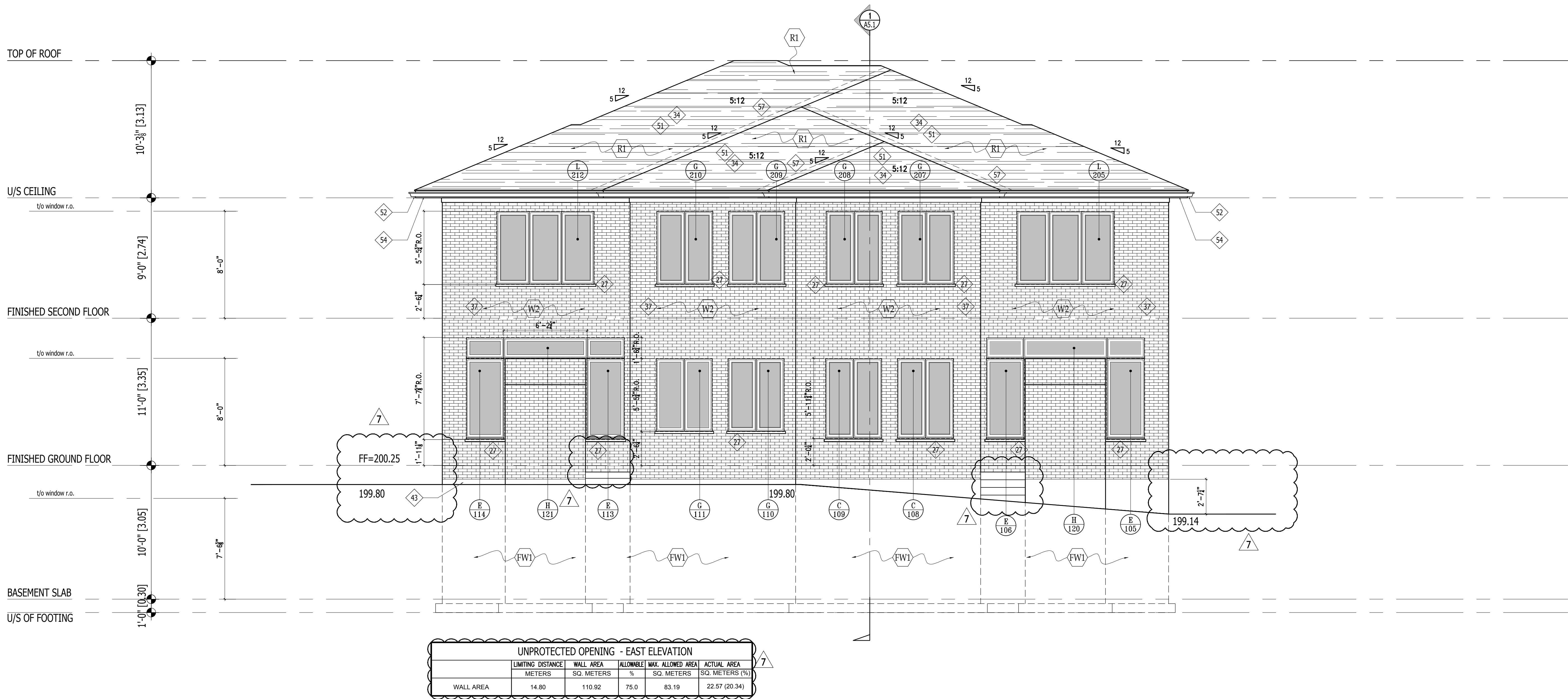
EAST ELEVATION

DRAWN: J.Mc.

DATE: 18.10.15 SCALE: N.T.S.

JOB NUMBER: 235-16 SHEET NUMBER: A4.1

4/8/2019 Y:\002 DRAWINGS\PROJECTS\AM PROJECT\000 - OLD PROJECT ARCHIVE\206-16 MILTON SEMI-473 BRONTE - PERMIT 19.03.08.DWG



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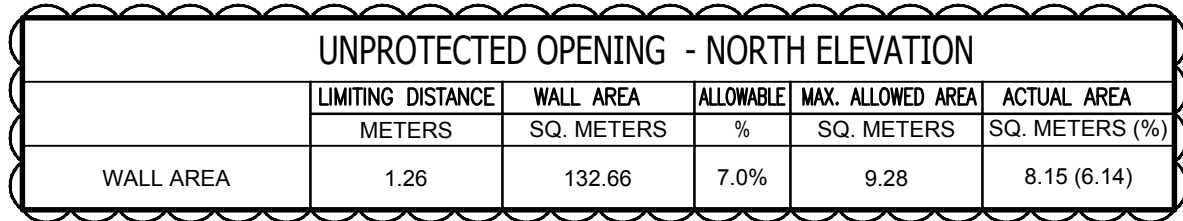

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DRAWING TITLE:
WEST ELEVATION

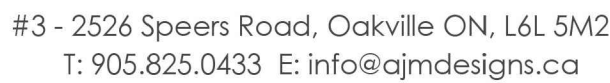
DRAWN: J.Mc.
DATE: 18.10.15
JOB NUMBER: 235-16
SCALE: N.T.S.
SHEET NUMBER: **A4.2**



7

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DRAWN: J.Mc.

DATE: 18.10.15

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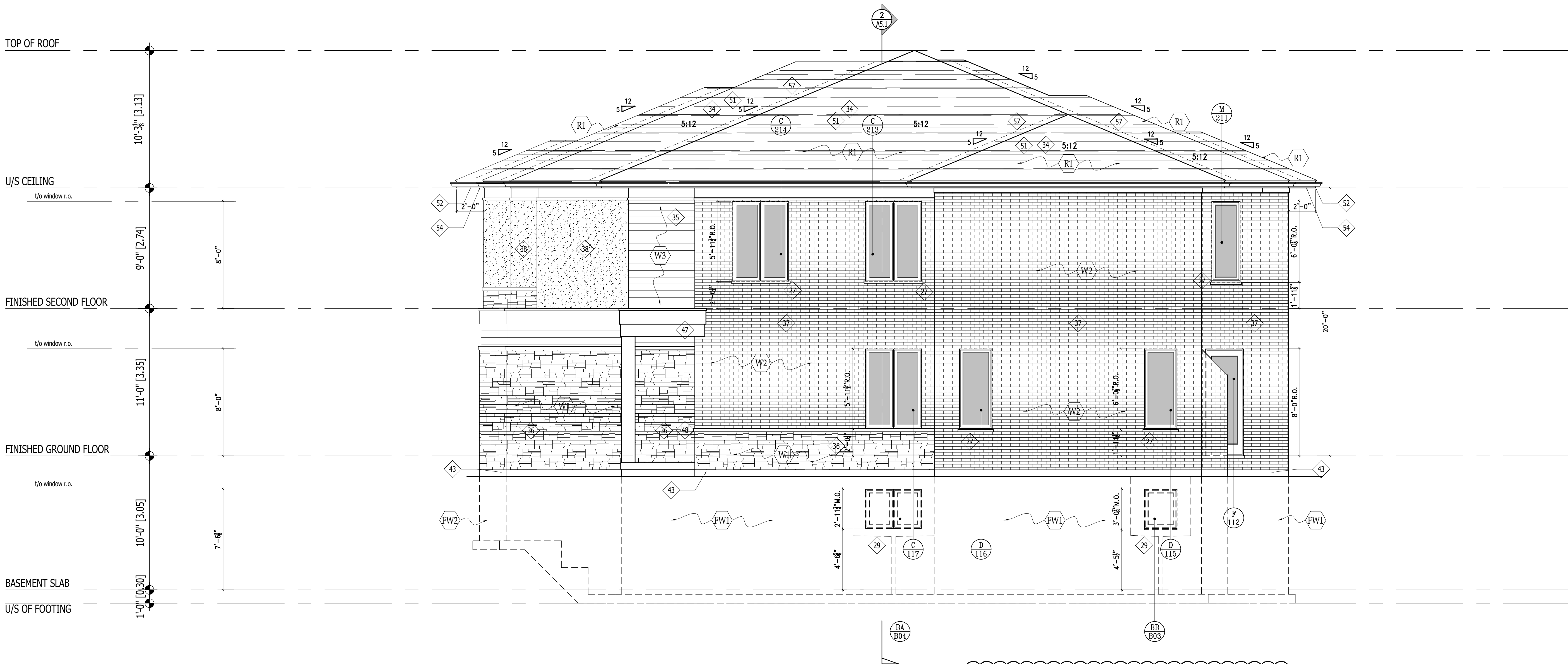
SCALE: N.T.S.

SHEET NUMBER:

235-16

A4.3

4/8/2019 Y:\002 DRAWINGS\PROJECTS\AM\PROJECT000 - OLD PROJECT ARCHIVE\026-16 MILTON SEMI-473 BRONTE - PERMIT 19.03.08.DWG



UNPROTECTED OPENING - SOUTH ELEVATION					
	LIMITING DISTANCE	WALL AREA	ALLOWABLE	MAX. ALLOWED AREA	ACTUAL AREA
	METERS	SQ. METERS	%	SQ. METERS	SQ. METERS (%)
WALL AREA	1.26	120.68	7.0	8.44	8.15 (6.75)

7

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CITY: MILTON, ON.

DRAWING TITLE:
SOUTH ELEVATION


DRAWN: J.Mc.

DATE: 18.10.15 SCALE: N.T.S.

JOB NUMBER: SHEET NUMBER:

235-16 **A4.4**

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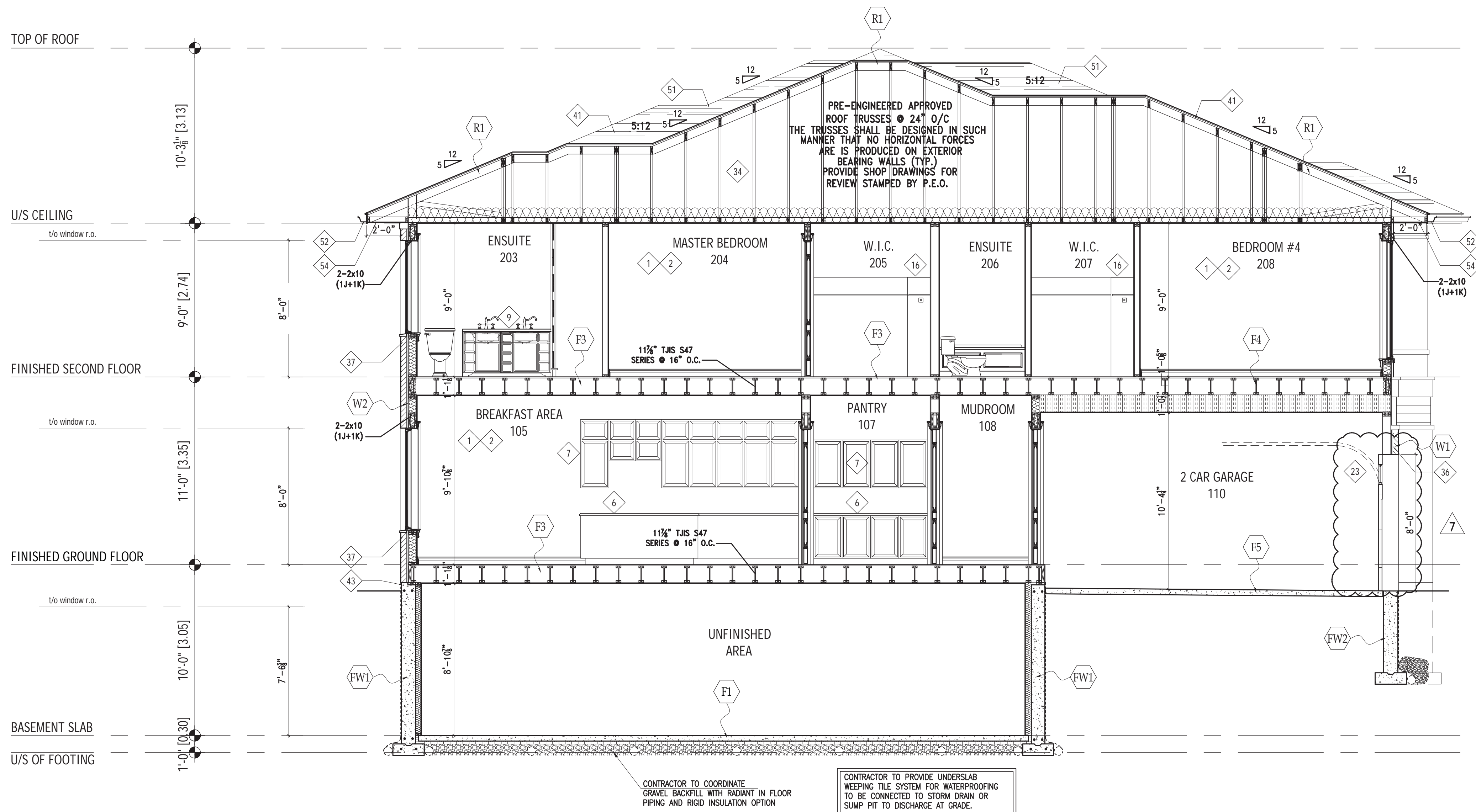
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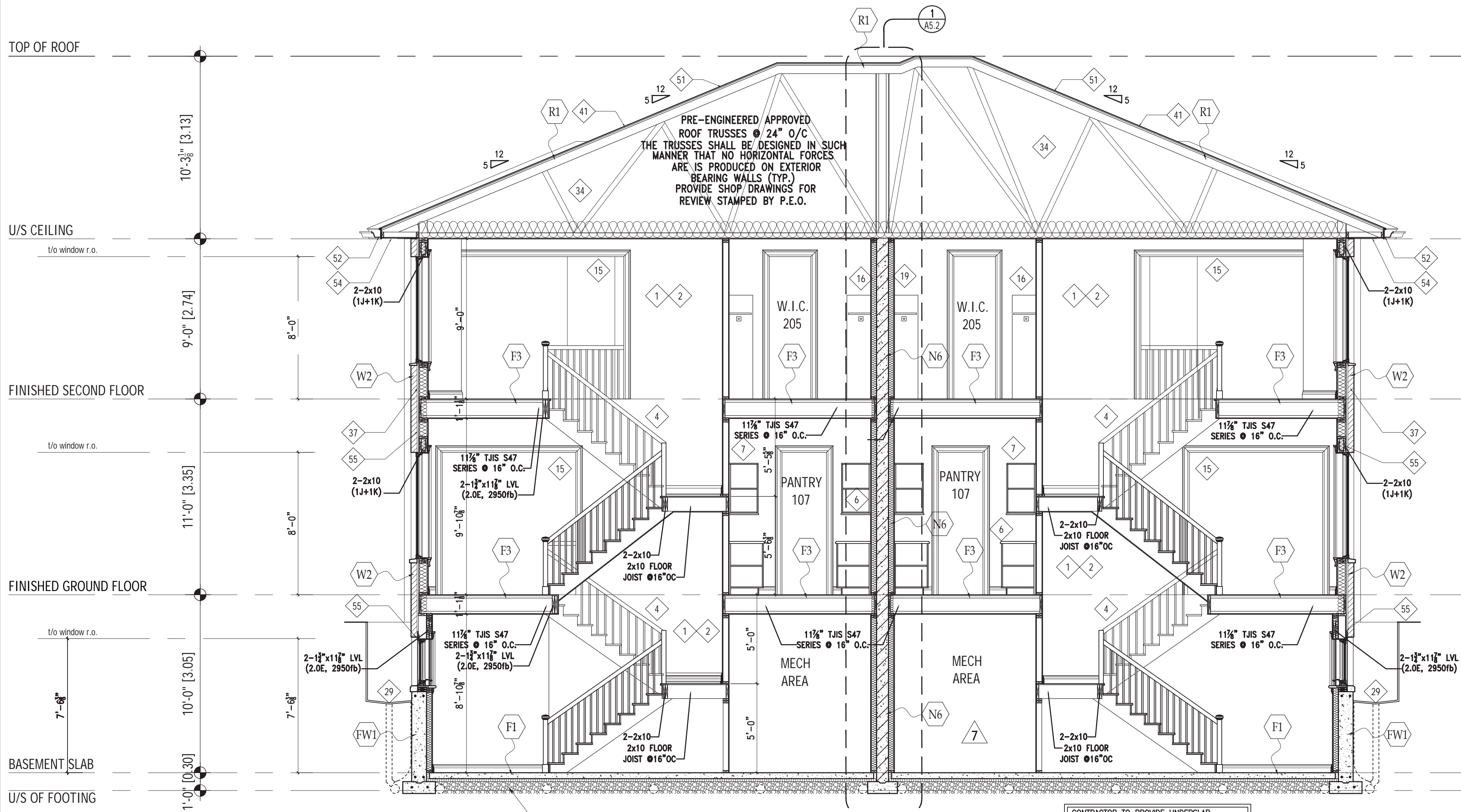
DRAWING TITLE:
BUILDING SECTION

DRAWN: J.Mc.
DATE: 18.10.15
JOB NUMBER: 235-16

SCALE: N.T.S.
SHEET NUMBER:

A5.1

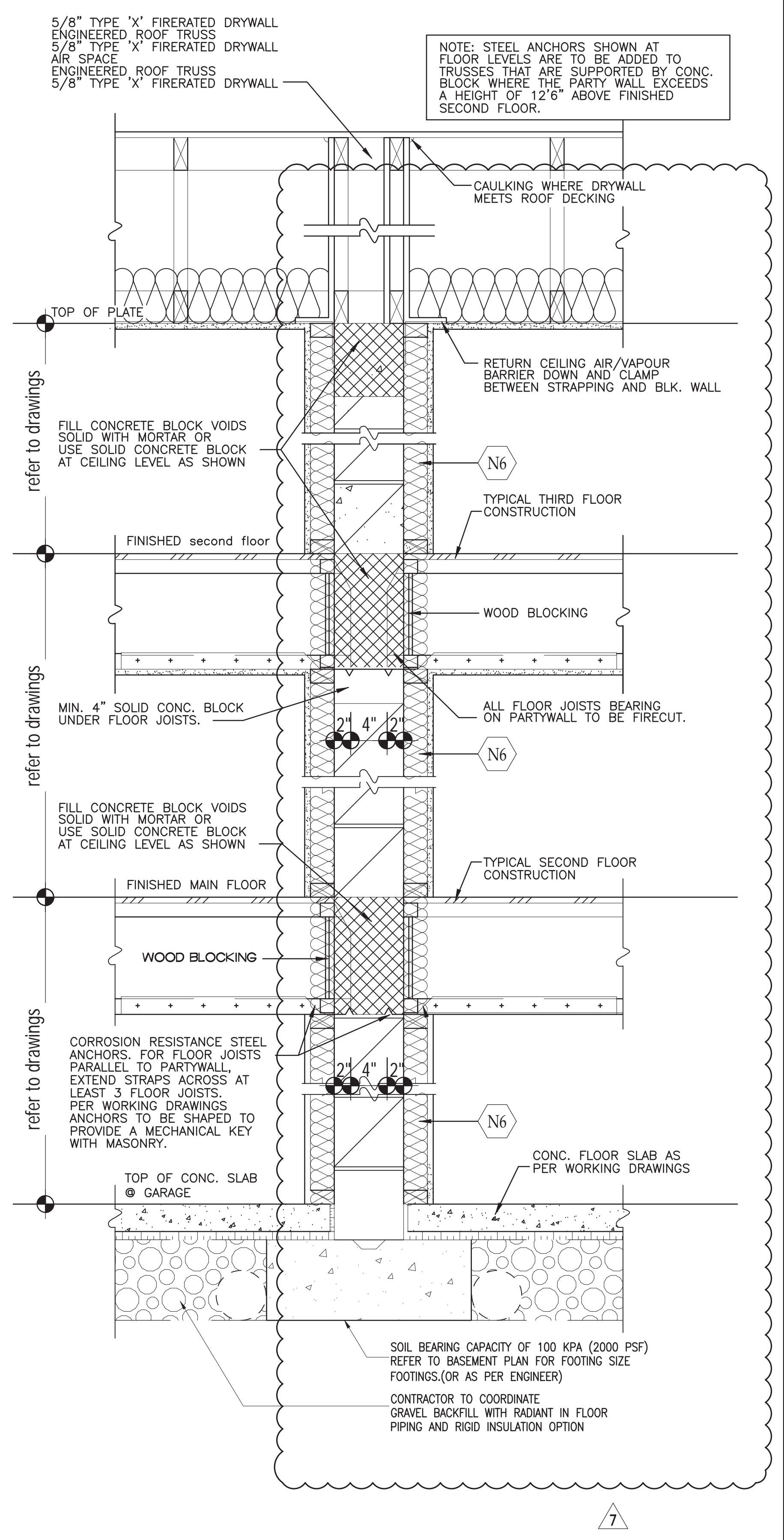




CONTRACTOR TO COORDINATE GRAVEL BACKFILL WITH RADIANT IN FLOOR PIPING AND RIGID INSULATION OPTION

CONTRACTOR TO PROVIDE UNDERSLAB WEeping TILE SYSTEM FOR WATERPROOFING TO BE CONNECTED TO STORM DRAIN OR SUMP PIT TO DISCHARGE AT GRADE.

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



2 PARTY WALL DETAIL
SCALE: 1/4"=1'-0"

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235-16	A5.2