



UNIT 6003

SB-12 ENERGY EFFICIENCY DESIGN MATRIX

PERFORMANCE COMPLIANCE

SPACE HEATING FUEL	
<input checked="" type="checkbox"/> GAS	<input type="checkbox"/> OIL
<input type="checkbox"/> ELECTRIC	<input type="checkbox"/> PROPANE
<input type="checkbox"/> EARTH	<input type="checkbox"/> SOLID FUEL

BUILDING COMPONENT	PROPOSED
INSULATION RSI (R) VALUE	
CEILING W/ ATTIC SPACE	10.56 (R60)
CEILING W/O ATTIC SPACE	5.46 (R31)
EXPOSED FLOOR	5.46 (R31)
WALLS ABOVE GRADE	3.87 (R22) + 1.5ci
BASEMENT WALLS	R20 Blanket or R12+R10ci
BELOW GRADE SLAB ENTIRE SURFACE > 600mm BELOW GRADE	-
EDGE OF BELOW GRADE SLAB ≤ 600mm BELOW GRADE	1.76 (R10)
HEATED SLAB ≤ 600mm BELOW GRADE	1.76 (R10)
CONC. SLAB ≤ 600mm BELOW GRADE	1.76 (R10)
WINDOWS & DOORS	
WINDOWS/SLIDING GLASS DOORS (MAX U-VALUE or MIN. ER)	1.6
SKYLIGHTS (MAX. U-VALUE)	2.8
APPLIANCE EFFICIENCY	
SPACE HEATING EQUIP. (AFUE%)	96% AFUE w/ECM
HRV EFFICIENCY (%)	75%
DOMESTIC HOT WATER HEATER (EF)	0.9
DWHR UNIT (%)	53.3% ON 1 SHOWERS MIN.

AREA CALCULATIONS	EL. 'A'	OPT. EL. 'A'
GROUND FLOOR AREA	2262 sq ft	2262 sq ft
SECOND FLOOR AREA	2688 sq ft	2688 sq ft
SUBTOTAL	4950 sq ft	4950 sq ft
DEDUCT ALL OPEN AREAS	424 sq ft	105 sq ft
TOTAL NET AREA	4526 sq ft (420.48 sq m)	4845 sq ft (450.12 sq m)
FINISHED BSMT. AREA	107 sq ft	107 sq ft
COVERAGE	2860 sq ft (265.70 sq m)	2860 sq ft (265.70 sq m)
COVERAGE	2935 sq ft (272.67 sq m)	2935 sq ft (272.67 sq m)
W/PORCH		
WINDOW/WALL AREA CALCULATIONS	EL. 'A'	EL. 'A'-OPT.5 BDRM
GROSS WALL AREA	4781 sq ft (444.17 sq m)	4781 sq ft (444.17 sq m)
GROSS WINDOW AREA	608 sq ft (56.49 sq m)	566 sq ft (52.58 sq m)
TOTAL NET AREA	12.72 %	11.84 %

- TITLE PAGE
- BASEMENT PLAN, ELEV. 'A'
- GROUND FLOOR PLAN, ELEV. 'A'
- SECOND FLOOR PLAN, ELEV. 'A'
- PARTIAL OPT. IN-LAW SUITE PLANS
- FRONT ELEVATION 'A'
- LEFT SIDE ELEVATION 'A'
- RIGHT SIDE ELEVATION 'A'
- REAR ELEVATION 'A'
- CROSS SECTION 'A-A'
- CONSTRUCTION NOTES



FOR STRUCTURAL ONLY
NOT INCLUDING ENGINEERED
FLOOR OR ROOF SYSTEM

7. ISSUED FOR PERMIT	-	-
6. ISSUED FOR FINAL APPROVAL	2022/08/10	MM
5. REVISED AS PER ARCHITECTURAL CONTROL COMMENTS	-	-
4. REVISED AS PER ENGINEER COMMENTS	2022/05/04	MM
3. REVISED AS PER ROOF TRUSS & FLOOR MANUFACTURE PLANS	2022/04/28	MM
2. REVISED AS PER CLIENT'S COMMENTS	2022/01/04	JLT
1. ISSUED FOR CLIENT REVIEW & PRICING	2021/12/10	JLT
REVISIONS	DATE (YYYYMMDD)	BY



THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS
DESIGN AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET
OUT IN THE ONTARIO BUILDING CODE TO BE A DESIGNER.

QUALIFICATION INFORMATION
Derek R. Santos
SIGNATURE
37308
BCN

HUNT DESIGN ASSOCIATES INC. 19995

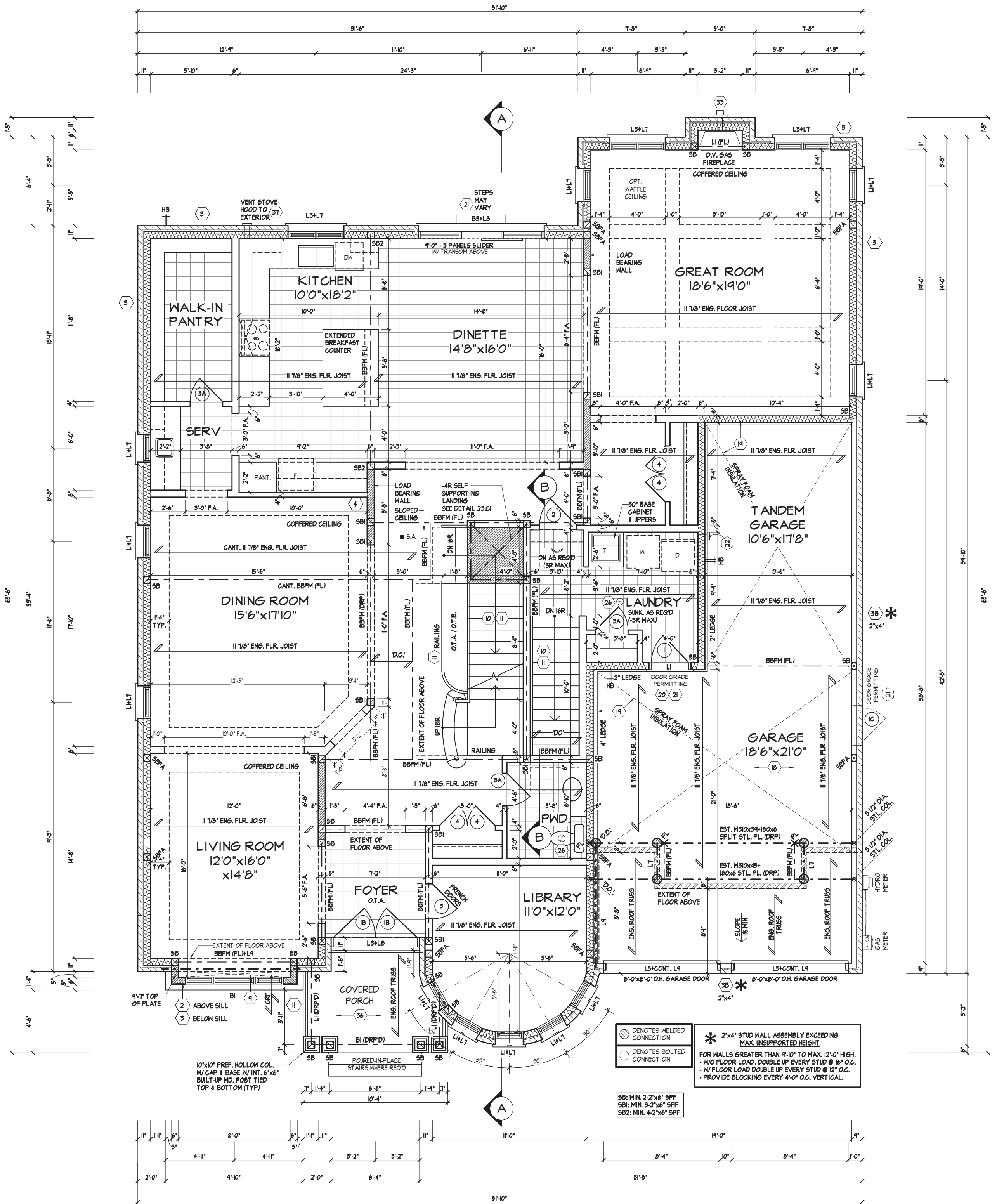
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ROYAL PINE HOMES - 220052
VALES (SOUTH), BRAMPTON, ONTARIO
Drawn By BB Checked By DS Scale 3/16" = 1'-0" File Number 220052WS6003.rvt Page Number 1 of 11
8966 Woodbine Ave, Markham, ON L3R 0J7 T905.737.5133 F905.737.7326
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TITLE PAGE

UNIT 6003

REV.2022.08.10



GROUND FLOOR PLAN, ELEV. 'A'

REFER TO FLOOR JOIST MANUFACTURER'S DRAWINGS FOR LAYOUT, SPACING, BLOCKING & STRAPPING REQUIREMENTS. INSTALLATION DETAILS AND HANGER SIZES, & SUBFLOOR THICKNESS

PROVIDE SOLID WOOD BLOCKING @ 24" O.C. FOR FIRST JOIST SPAN WHEN PARALLEL W/ EXTERIOR WALL



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This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of BRAMPTON.

JOHN G. WILLIAMS LTD., ARCHITECT
ARCHITECTURAL CONTROL REVIEW
AND APPROVAL
DATE: AUG 12, 2022
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NOTE:
STEP TRUSSES @ RAISED
COFFERED CEILINGS



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REFER TO STANDARD PLAN FOR
COMPLETE CONSTRUCTION NOTES &
DIMENSIONS

PARALLEL W/ EXTERIOR WALL

OPT. IN-LAW PLAN, ELEV. 'A'

REFER TO STANDARD PLAN FOR
COMPLETE CONSTRUCTION NOTES &
DIMENSIONS

PARALLEL W/ EXTERIOR WALL

*** 2"x4" STUD WALL ASSEMBLY EXCEEDING
MAX. UNSUPPORTED HEIGHT**

FOR WALLS GREATER THAN 9'-10" TO MAX. 12'-0" HIGH,
- W/O FLOOR LOAD, DOUBLE UP EVERY STUD @ 16' O.C.
- W/ FLOOR LOAD DOUBLE UP EVERY STUD @ 12' O.C.
- PROVIDE BLOCKING EVERY 4'-0" O.C. VERTICAL.

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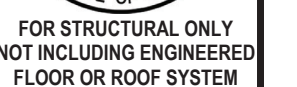
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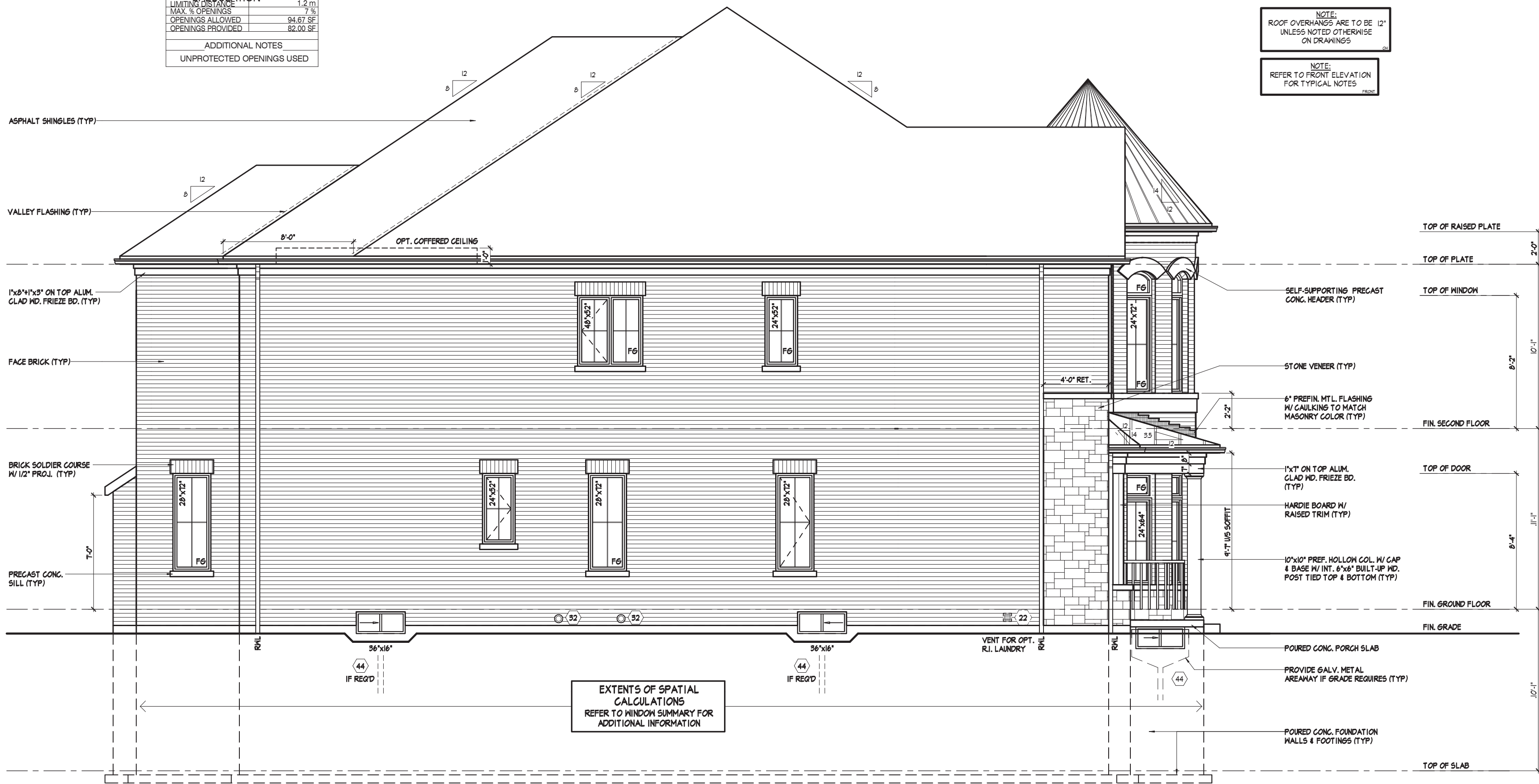
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FRONT ELEVATION 'A'

WINDOW SUMMARY
PER O.B.C. TABLE 9.10.15.4

LEFT SIDE ELE. 'A'			
QUANT.	WIDTH	HEIGHT	WINDOW/DOOR FRAME SIZE (SF)
2	36"	16"	5.33 SF
2	24"	52"	17.33 SF
3	28"	72"	42.00 SF
1	48"	52"	17.33 SF
			82.00 SF

SPATIAL CALCULATION	
WALL CALCULATION	1352.44 SF
LIMITING DISTANCE	1.2 m
MAX. % OPENINGS	7%
OPENINGS ALLOWED	94.67 SF
OPENINGS PROVIDED	82.00 SF
ADDITIONAL NOTES	
UNPROTECTED OPENINGS USED	



LEFT SIDE ELEVATION 'A'



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QUALIFICATION INFORMATION
Derek Santos
NAME
REGISTRATION INFORMATION
SIGNATURE
BOCN
HUNT DESIGN ASSOCIATES INC.
19695

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ROYAL PINE HOMES - 220052
VALES (SOUTH), BRAMPTON, ONTARIO
Drawn By: BB
Checked By: DS
Scale: 3/16"=1'-0"
File Number: 212014WS6003.rvt
Page Number: 7 of 11
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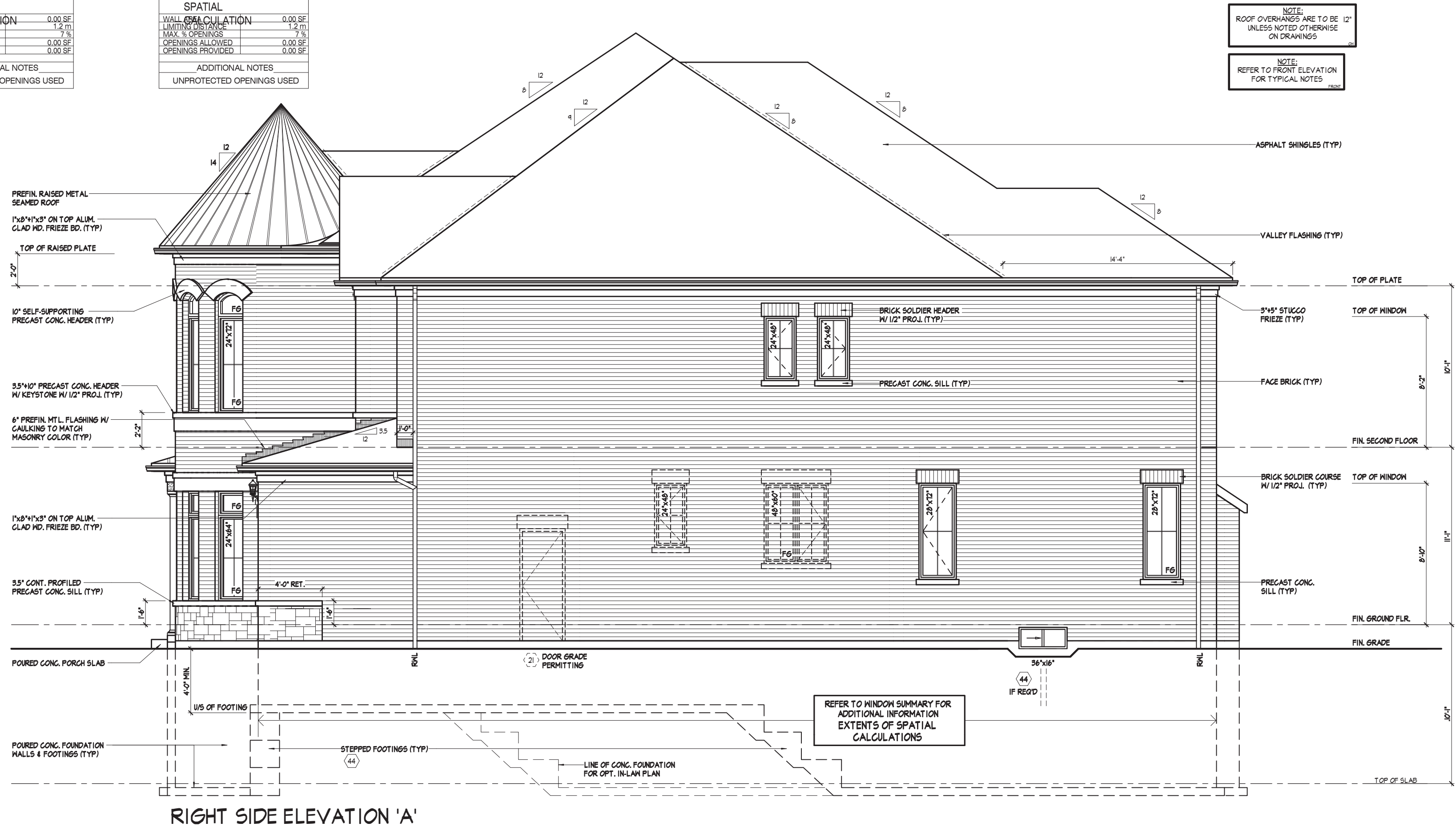
LEFT SIDE ELEVATION 'A'
UNIT 6003
REV.2022.08.10

WINDOW SUMMARY
PER O.B.C. TABLE 9.10.15.4

RIGHT SIDE ELE. 'A'			
QUANT	WIDTH	HEIGHT	WINDOW/DOOR FRAME SIZE (SF)
1	36"	16"	4.00 SF
2	24"	48"	16.00 SF
2	28"	72"	28.00 SF
			48.00 SF
SPATIAL			
WALL CALCULATION			
LIMITING DISTANCE			
MAX. % OPENINGS			
OPENINGS ALLOWED			
OPENINGS PROVIDED			
ADDITIONAL NOTES			
UNPROTECTED OPENINGS USED			

WINDOW SUMMARY
PER O.B.C. TABLE 9.10.15.4

RIGHT SIDE ELE. 'A' OPT.			
QUANT	WIDTH	HEIGHT	WINDOW/DOOR FRAME SIZE (SF)
1	36"	16"	4.00 SF
3	24"	48"	24.00 SF
2	28"	72"	28.00 SF
1	48"	60"	20.00 SF
			76.00 SF
SPATIAL			
WALL CALCULATION			
LIMITING DISTANCE			
MAX. % OPENINGS			
OPENINGS ALLOWED			
OPENINGS PROVIDED			
ADDITIONAL NOTES			
UNPROTECTED OPENINGS USED			



NOTE:
ROOF OVERHANGS ARE TO BE 12"
UNLESS NOTED OTHERWISE
ON DRAWINGS

NOTE:
REFER TO FRONT ELEVATION
FOR TYPICAL NOTES



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NOTE:
REFER TO FRONT ELEVATION
FOR TYPICAL NOTES

REAR ELEVATION 'A'

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REAR ELEVATION 'A'
UNIT 6003

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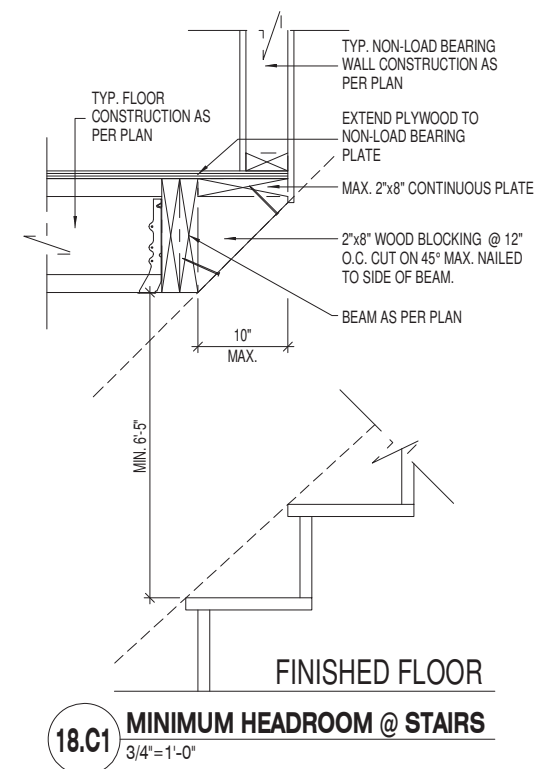
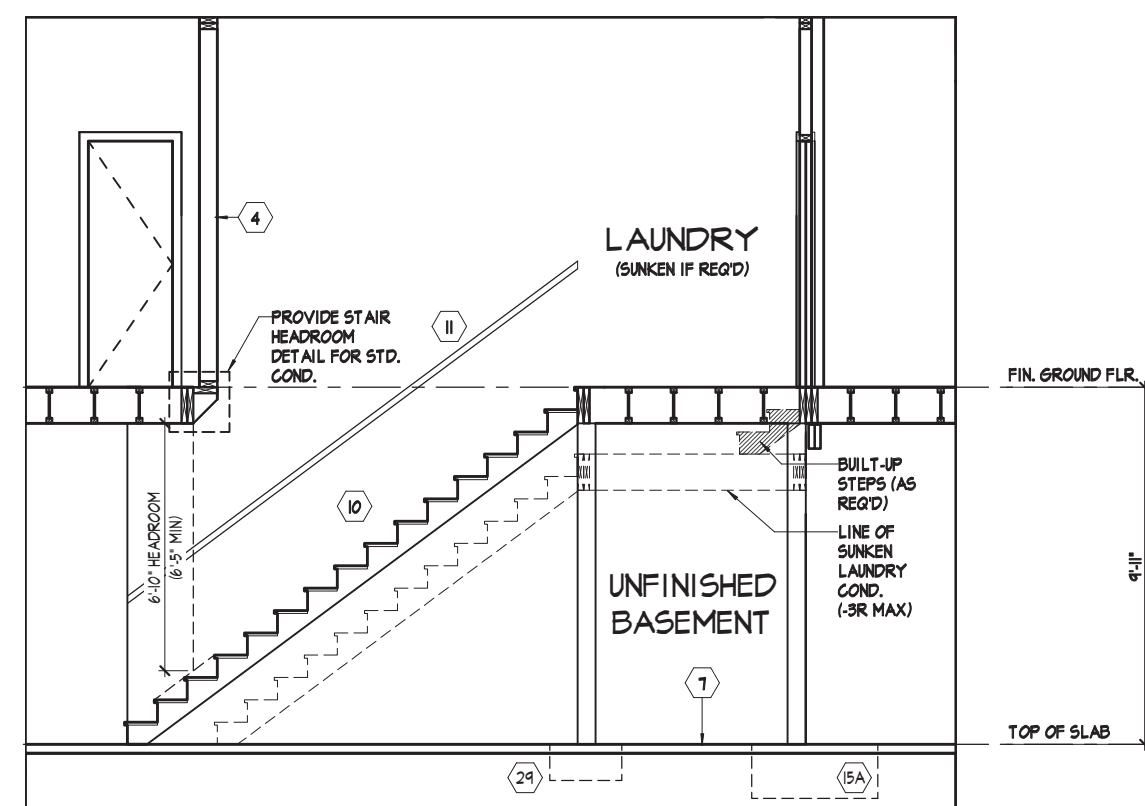
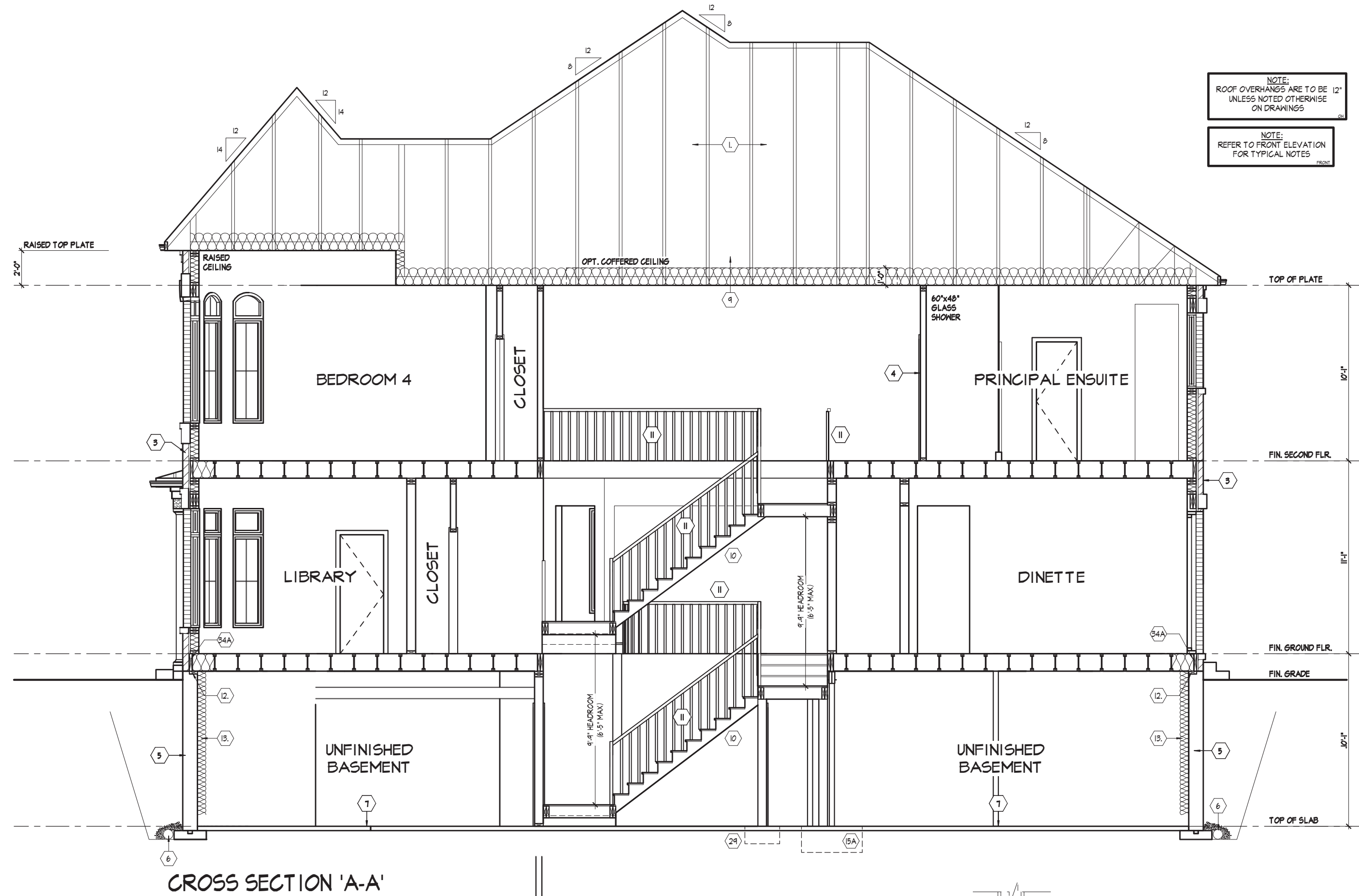
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Derek Santos		3
NAME	SIGNATURE	E
REGISTRATION INFORMATION		
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ROYAL PINE HOMES - 220052
VALES (SOUTH), BRAMPTON, ON

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CROSS SECTION 'A-A'
UNIT 6003
REV. 2022.08.10

ROYAL PINE HOMES - 220052
VALES (SOUTH), BRAMPTON, ONTARIO

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SECTION 1.0. CONSTRUCTION NOTES

1	ROOF CONSTRUCTION (9.19, 9.23.13, 9.23.15)	
NO. 210 (10.25 KG/M2) ASPHALT SHINGLES, 3/8" (9.5) PLYWOOD SHEATHING WITH 1" CLIPS. APPROVED WOOD TRUSSES @ 24" (610) C.C. MAX. APPROVED EAVES PROTECTION TO EXTEND 2'-11" (900) FROM EDGE OF ROOF AND MIN. 12" (305) BEYOND INNER WALL. 2" (51) EXTERIOR TYPE SHEATHING, RIGID INSULATION BRACING @ 6'-0" (1830) C.C. AT BOTTOM CHORD. PREFIN. ALUM. EAVESTROUGH, FASCIA, RVL & VENTED SOFFIT. ATTENTION 1'300 OF INSULATED CEILING AREA WITH MIN. 25% OF REQUIRED OPENINGS LOCATED AT BOTTOM OF SPACE. EAVESTROUGH TO BE 4" MIN. WITH RVL DISCHARGING ONTO CONCRETE SPLASH PADS OR PER MUNICIPAL REQUIREMENTS. TOWNHOUSES TO HAVE 5'0" MIN. EAVESTROUGH WITH ELEC. TRACED HEATER CABLE ALONG EAVESTROUGH AND DOWN RVL.		
1A	ICE AND WATER SHIELD	
PROVIDE ICE AND WATER SHIELD IN THE AREAS INDICATED. THE ICE AND WATER SHIELD SHALL BE A SELF ADHERING AND SELF SEALING MEMBRANE. SIDE LAPS MUST BE A MINIMUM 3' (914) AND END LAPS A MINIMUM 6' (1829) AND TO EXTEND UP DORMER WALLS A MINIMUM 12" (305).		
1B	PROFIED ROOF TRUSSES	
ROOF TRUSSES SHALL BE PROFIED AND/OR STEPPED AT RAISED COPPER/TRAY CEILINGS. ANGLED TRAY CEILINGS WILL BE SHEATHED W/ 3/8" (9.5) PLYWOOD.		
2	SIDING WALL CONSTRUCTION (2"x6")	
SIDING MATERIAL AS PER ELEVATION ATTACHED TO FRAMING MEMBERS. FURRING MEMBERS OR BLOCKING BETWEEN THE FRAMING MEMBERS ON APPROVED SHEATHING PAPER ON 3/8" (9.5) EXT. GRADE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE AIR VAPOUR BARRIER, ON 1/2" (12.7) GYPSUM WALLBOARD INT. FIN. GYPSUM SHEATHING, RIGID INSULATION, AND FIBERBOARD SHALL NOT BE USED FOR THE ATTACHMENT OF SIDING (9.23.16.3.1.1) (REFER TO 35 NOTE AS REQ.)		
2A	SIDING WALL CONSTRUCTION (2"x6") W/ CONTIN. INSULATION	
SIDING MATERIAL AS PER ELEVATION ATTACHED TO FRAMING MEMBERS ON APPROVED AIRWATER BARRIER AS PER O.B.C. 9.27.3 ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPPED) MECHANICALLY FASTENED AS PER MANUFACTURERS SPECIFICATIONS, ON 3/8" (9.5) EXT. GRADE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE AIR VAPOUR BARRIER, ON 1/2" (12.7) GYPSUM WALLBOARD INT. FIN. GYPSUM SHEATHING, RIGID INSULATION, AND FIBERBOARD SHALL NOT BE USED FOR THE ATTACHMENT OF SIDING (9.23.16.3.1.1) (REFER TO 35 NOTE AS REQ.)		
2B	SIDING WALL @ GARAGE CONSTRUCTION	
SIDING MATERIAL AS PER ELEVATION ATTACHED TO FRAMING MEMBERS, FURRING MEMBERS OR BLOCKING BETWEEN THE FRAMING MEMBERS ON APPROVED SHEATHING PAPER ON 3/8" (9.5) EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE AIR VAPOUR BARRIER, ON 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800) C.C. BOTTOM CHORD AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 6" (150) OVER RIGID INSULATION (9.20.13.6) (REFER TO 35 NOTE AS REQUIRED)		
3	BRICK VENEER WALL CONSTRUCTION (2"x6")	
3 1/2" (90) BRICK VENEER 1" (25) AIR SPACE, 7/8"x7/8"x3" (22x180x76) GALV. METAL TIES @ 16" (400) C.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.20.9 ON APPROVED SHEATHING PAPER, 3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1, INSULATION AND 6 mil. POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONT. AIR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800) C.C. BOTTOM CHORD AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 6" (150) OVER RIGID INSULATION (9.20.13.6) (REFER TO 35 NOTE AS REQUIRED)		
3A	BRICK VENEER WALL CONSTRUCTION (2"x6") W/ CONTIN. INSULATION	
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4	INTERIOR STUD PARTITIONS (9.23.9.8, 9.23.10)	
BEARING PARTITIONS SHALL BE A MINIMUM 2"x4" (38x89) @ 16" (400) C.C. FOR 2 STOREY AND 12" (305) C.C. FOR 3 STOREY. NON-BEARING PARTITIONS 2"x4" (38x89) @ 16" (400) C.C. PERM. PLATE AND 2"x4" (38x89) TOP PLATE 1/2" (12.7) INT. DRYWALL BOTH SIDES OF STUDS, PROVIDE 2"x6" (38x140) STUDS WHERE NOTED. PROVIDE 2"x4" (38x89) @ 24" (610) C.C. LADDER FRAMING WHERE WALLS INTERSECT OR TO ONE ANOTHER. PROVIDE 2"x4" (38x89) WOOD BLOCKING ON FLAT @ 3'-11" (1194) C.C. BETWEEN FLOOR JOISTS. JOISTS WHEN NON-LOADBEARING WALLS ARE PARALLEL TO FLOOR JOISTS.		
4A	EXT. LOFT WALL CONSTRUCTION (2"x6") - NO CLADDING	
3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1, INSULATION AND 6 mil. POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONT. AIR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (9.23.1)		
4B	EXT. LOFT WALL CONSTRUCTION (2"x6") NO CLADDING W/ CONTINUOUS INSULATION	
APPROVED AIRWATER BARRIER AS PER O.B.C. 9.27.3 ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPPED) MECHANICALLY FASTENED AS PER MANUFACTURERS SPECIFICATIONS, ON 3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1, INSULATION AND 6 mil. POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONT. AIR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (9.23.1)		
5	FOUNDATION WALL/FOOTINGS	
POURED CONC. FOUNDATION WALLS AS PER CHART BELOW ON CONTINUOUS KEYED CONCRETE FOOTING. FOUNDATION WALLS SHALL EXTEND NOT LESS THAN 6" (150) ABOVE FINISHED GRADE. THE OUTSIDE OF THE FOUNDATION SHALL BE DAMPROOFED FROM THE TOP OF THE FOOTING TO FINISHED GRADE AND BRUSH COAT FROM THE TOP TO 2" BELOW GRADE. PROVIDE A DRAINAGE LAYER ON THE OUTSIDE OF THE FOUNDATION WALL. SEAL THE DRAINAGE LAYER AT THE TOP. THE TOP OF THE CONC. FOOTING SHALL BE DAMPROOFED. CONCRETE FOOTINGS SUPPORTING JOIST SPANS GREATER THAN 16'-1" (4900) SHALL BE SIZED IN ACCORDANCE WITH 9.15.4.3.1 (1) OF THE O.B.C. (REFER TO CHART BELOW FOR RESPECTIVE SIZE). BASE FOUNDATION WALL PRIOR TO BACKFILLING. ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OF 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 150kPa. IF SOIL BEARING DOES NOT MEET MINIMUM CAPACITY, ENGINEERED FOOTINGS ARE REQUIRED. ACTUAL SOIL BEARING CAPACITY TO BE VERIFIED WITH SOIL ENGINEERING REPORT. REFER TO CONSTRUCTION DRAWINGS AND DETAILS FOR FOUNDATION WALL STRENGTH AND THICKNESS AND 9.15.4. FOUNDATION WALLS SHALL NOT EXCEED 9'-10" (3.0m) IN UNSUPPORTED HEIGHT UNLESS OTHERWISE NOTED. (9.15.4.2.1)		
UNREINFORCED SOLID CONCRETE FOUNDATION WALLS (9.15.4.2)		
MAX. HEIGHT FROM FIN. SLAB TO GRADE		
FOOTING THICKNESS	UNSUPPORTED AT TOP	SUPPORTED AT TOP
	10" 4'-1" (1.20m) 7'-6" (2.30m) 8'-6" (2.60m) 9'-3" (2.85m)	10" 4'-1" (1.20m) 7'-6" (2.30m) 8'-6" (2.60m) 9'-3" (2.85m) 10" 4'-1" (1.20m) 7'-6" (2.30m) 8'-6" (2.60m) 9'-3" (2.85m) 10" 4'-1" (1.20m) 7'-6" (2.30m) 8'-6" (2.60m) 9'-3" (2.85m)
FOOTING THICKNESS	10" 4'-1" (1.20m) 7'-6" (2.30m) 8'-6" (2.60m) 9'-3" (2.85m)	10" 4'-1" (1.20m) 7'-6" (2.30m) 8'-6" (2.60m) 9'-3" (2.85m)
	10" 4'-1" (1.20m) 7'-6" (2.30m) 8'-6" (2.60m) 9'-3" (2.85m)	10" 4'-1" (1.20m) 7'-6" (2.30m) 8'-6" (2.60m) 9'-3" (2.85m)
*9" MIN. THICK FOUNDATION WALL IS REQUIRED FOR MASONRY VENEER. FINISHED EXTERIOR WALLS WITH CONTINUOUS INSULATION CONDITION, TO PROVIDE MIN. BEARING FOR SILL PLATE, BEAMS AND FLOOR JOIST AS PER 9.23.10.23.8.1, 9.23.9.3.1.1 OF THE O.B.C.		
MINIMUM STRIP FOOTING SIZES (9.15.3)		
NUMBER OF JOISTS SUPPORTED	SUPPORTING JOIST BEARING INTERIOR	SUPPORTING PARTIALLY
1	16" WIDE x 8" THICK	16" WIDE x 8" THICK
2	24" WIDE x 8" THICK	20" WIDE x 9" THICK
3	36" WIDE x 8" THICK	24" WIDE x 8" THICK
4	36" WIDE x 8" THICK	24" WIDE x 9" THICK
5	36" WIDE x 8" THICK	24" WIDE x 8" THICK
6	36" WIDE x 8" THICK	24" WIDE x 9" THICK
7	36" WIDE x 8" THICK	24" WIDE x 8" THICK
8	36" WIDE x 8" THICK	24" WIDE x 9" THICK
9	36" WIDE x 8" THICK	24" WIDE x 8" THICK
10	36" WIDE x 8" THICK	24" WIDE x 9" THICK
11	36" WIDE x 8" THICK	24" WIDE x 8" THICK
12	36" WIDE x 8" THICK	24" WIDE x 9" THICK
13	36" WIDE x 8" THICK	24" WIDE x 8" THICK
14	36" WIDE x 8" THICK	24" WIDE x 9" THICK
15	36" WIDE x 8" THICK	24" WIDE x 8" THICK
16	36" WIDE x 8" THICK	24" WIDE x 9" THICK
17	36" WIDE x 8" THICK	24" WIDE x 8" THICK
18	36" WIDE x 8" THICK	24" WIDE x 9" THICK
19	36" WIDE x 8" THICK	24" WIDE x 8" THICK
20	36" WIDE x 8" THICK	24" WIDE x 9" THICK
21	36" WIDE x 8" THICK	24" WIDE x 8" THICK
22	36" WIDE x 8" THICK	24" WIDE x 9" THICK
23	36" WIDE x 8" THICK	24" WIDE x 8" THICK
24	36" WIDE x 8" THICK	24" WIDE x 9" THICK
25	36" WIDE x 8" THICK	24" WIDE x 8" THICK
26	36" WIDE x 8" THICK	24" WIDE x 9" THICK
27	36" WIDE x 8" THICK	24" WIDE x 8" THICK
28	36" WIDE x 8" THICK	24" WIDE x 9" THICK
29	36" WIDE x 8" THICK	24" WIDE x 8" THICK
30	36" WIDE x 8" THICK	24" WIDE x 9" THICK
31	36" WIDE x 8" THICK	24" WIDE x 8" THICK
32	36" WIDE x 8" THICK	24" WIDE x 9" THICK
33	36" WIDE x 8" THICK	24" WIDE x 8" THICK
34	36" WIDE x 8" THICK	24" WIDE x 9" THICK
35	36" WIDE x 8" THICK	24" WIDE x 8" THICK
36	36" WIDE x 8" THICK	24" WIDE x 9" THICK
37	36" WIDE x 8" THICK	24" WIDE x 8" THICK
38	36" WIDE x 8" THICK	24" WIDE x 9" THICK
39	36" WIDE x 8" THICK	24" WIDE x 8" THICK
40	36" WIDE x 8" THICK	24" WIDE x 9" THICK
41	36" WIDE x 8" THICK	24" WIDE x 8" THICK
42	36" WIDE x 8" THICK	24" WIDE x 9" THICK
43	36" WIDE x 8" THICK	24" WIDE x 8" THICK
44	36" WIDE x 8" THICK	24" WIDE x 9" THICK
45	36" WIDE x 8" THICK	24" WIDE x 8" THICK
46	36" WIDE x 8" THICK	24" WIDE x 9" THICK
47	36" WIDE x 8" THICK	24" WIDE x 8" THICK
48	36" WIDE x 8" THICK	24" WIDE x 9" THICK
49	36" WIDE x 8" THICK	24" WIDE x 8" THICK
50	36" WIDE x 8" THICK	24" WIDE x 9" THICK
51	36" WIDE x 8" THICK	24" WIDE x 8" THICK
52	36" WIDE x 8" THICK	24" WIDE x 9" THICK
53	36" WIDE x 8" THICK	24" WIDE x 8" THICK
54	36" WIDE x 8" THICK	24" WIDE x 9" THICK
55	36" WIDE x 8" THICK	24" WIDE x 8" THICK
56	36" WIDE x 8" THICK	24" WIDE x 9" THICK
57	36" WIDE x 8" THICK	24" WIDE x 8" THICK
58	36" WIDE x 8" THICK	24" WIDE x 9" THICK
59	36" WIDE x 8" THICK	24" WIDE x 8" THICK
60	36" WIDE x 8" THICK	24" WIDE x 9" THICK
61	36" WIDE x 8" THICK	24" WIDE x 8" THICK
62	36" WIDE x 8" THICK	24" WIDE x 9" THICK
63	36" WIDE x 8" THICK	24" WIDE x 8" THICK
64	36" WIDE x 8" THICK	24" WIDE x 9" THICK
65	36" WIDE x 8" THICK	24" WIDE x 8" THICK
66	36" WIDE x 8" THICK	24" WIDE x 9" THICK
67	36" WIDE x 8" THICK	24" WIDE x 8" THICK
68	36" WIDE x 8" THICK	24" WIDE x 9" THICK
69	36" WIDE x 8" THICK	24" WIDE x 8" THICK
70	36" WIDE x 8" THICK	24" WIDE x 9" THICK
71	36" WIDE x 8" THICK	24" WIDE x 8" THICK
72	36" WIDE x 8" THICK	24" WIDE x 9" THICK
73	36" WIDE x 8" THICK	24" WIDE x 8" THICK
74	36" WIDE x 8" THICK	24" WIDE x 9" THICK
75	36" WIDE x 8" THICK	24" WIDE x 8" THICK
76	36" WIDE x 8" THICK	24" WIDE x 9" THICK
77	36" WIDE x 8" THICK	24" WIDE x 8" THICK
78	36" WIDE x 8" THICK	24" WIDE x 9" THICK
79	36" WIDE x 8" THICK	24" WIDE x 8" THICK
80	36" WIDE x 8" THICK	24" WIDE x 9" THICK
81	36" WIDE x 8" THICK	24" WIDE x 8" THICK
82	36" WIDE x 8" THICK	24" WIDE x 9" THICK
83	36" WIDE x 8" THICK	24" WIDE x 8" THICK
84	36" WIDE x 8" THICK	24" WIDE x 9" THICK
85	36" WIDE x 8" THICK	24" WIDE x 8" THICK
86	36" WIDE x 8" THICK	24" WIDE x 9" THICK
87	36" WIDE x 8" THICK	24" WIDE x 8" THICK
88	36" WIDE x 8" THICK	24" WIDE x 9" THICK
89	36" WIDE x 8" THICK	24" WIDE x 8" THICK
90	36" WIDE x 8" THICK	24" WIDE x 9" THICK
91	36" WIDE x 8" THICK	24" WIDE x 8" THICK
92	36" WIDE x 8" THICK	24" WIDE x 9" THICK
93	36" WIDE x 8" THICK	24" WIDE x 8" THICK
94	36" WIDE x 8" THICK	24" WIDE x 9" THICK
95	36" WIDE x 8" THICK	24" WIDE x 8" THICK
96	36" WIDE x 8" THICK	24" WIDE x 9" THICK
97	36" WIDE x 8" THICK	24" WIDE x 8" THICK
98	36" WIDE x 8" THICK	24" WIDE x 9" THICK
99	36" WIDE x 8" THICK	24" WIDE x 8" THICK
100	36" WIDE x 8" THICK	24" WIDE x 9" THICK

REFER TO SB-12 ENERGY EFFICIENCY DESIGN MATRIX ON THE TITLE PAGE FOR ALL VALUES AS REQUIRED PER 3.1.1., 3.1.2., 3.1.3. OF THE OBC.

5A

FOUNDATION REDUCTION IN THICKNESS FOR MASONRY

WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF MASONRY EXTERIOR FACING, THE REDUCED SECTION SHALL BE NOT LESS THAN 3 1/2" (90) THICK. THE BRICK VENEER SHALL BE 1/2" (12.7) AND THE FOUNDATION WALL WITH CORROSION RESISTANT METAL TIES @ 7/8" (200) VERTICAL AND 2'-11" (889) HORIZONTAL. FILL VOID WITH MORTAR BETWEEN WALL AND BRICK VENEER (9.15.4.7.2)(3) & 9.20.9.4.3)

5B

FOUNDATION REDUCTION IN THICKNESS FOR JOISTS

WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF FLOOR JOISTS, THE REDUCED SECTION SHALL BE NOT MORE THAN 13/34" (350) HIGH AND NOT LESS THAN 3 1/2" (90) THICK (9.15.4.7.11)

6

WEEPING TILE (9.14.3)

(4) 100' 32MPa (4640psi) CONC. SLAB ON 4" (100) COARSE GRANULAR FILL OR 20MPa (2900psi) CONC. WITH DAMPROOFING BELOW SLAB. PROVIDE 1/2" (12.7) IMPERVIOUS BOARD FOR BOND BREAK AT EDGE. (9.13) WHERE A BASEMENT SLAB IS WITHIN 24" (610) OF THE EXTERIOR GRADE PROVIDE RIGID INSUL. AROUND THE PERIMETER EXTENDING MIN. 24" (610) BELOW GRADE. FOR SLAB ON GRADE CONDITIONS RIGID INSULATION SHALL BE APPLIED TO THE UNDERSIDE OF THE ENTIRE SLAB. (SB-12) 3.1.1.7.5 (5) & (6)

7

BASEMENT SLAB OR SLAB ON GRADE (9.16.4.3)

(3) 80' MIN. 25MPa (3600psi) CONC. SLAB ON 4" (100) COARSE GRANULAR FILL OR 20MPa (2900psi) CONC. WITH DAMPROOFING BELOW SLAB. PROVIDE 1/2" (12.7) IMPERVIOUS BOARD FOR BOND BREAK AT EDGE. (9.13) WHERE A BASEMENT SLAB IS WITHIN 24" (610) OF THE EXTERIOR GRADE PROVIDE RIGID INSUL. AROUND THE PERIMETER EXTENDING MIN. 24" (610) BELOW GRADE. FOR SLAB ON GRADE CONDITIONS RIGID INSULATION SHALL BE APPLIED TO THE UNDERSIDE OF THE ENTIRE SLAB. (SB-12) 3.1.1.7.5 (5) & (6)

8

EXPOSED FLOOR TO EXTERIOR (9.10.17.10, & CANULC-S705.2)

PROVIDE SPRAY FOAM INSULATION BETWEEN CONT. JOIST AND INSTALL OSB CONFIRMING TO 9.29.9 FIN. SOFFT OR CLADDING AS PER ELEVATION TO US OF EXPOSED CONT. JOIST.

9

EXPOSED CEILING TO EXTERIOR W/ ATTIC (9.25.2.4)

INSULATION, 6 mil. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM BOARD INTERIOR FINISH OR APPROVED EQ.

10

EXPOSED CEILING TO EXTERIOR w/o ATTIC

JOIST/TRUSSES AS PER JOISTS W/ 2"x2" (38x38) PURLINS @ 16" (400) C.C. PERPENDICULAR TO JOISTS (PURLINS NOT REQ. W/ SPRAY FOAM OR ROOF TRUSSES). W/ INSULATION BETWEEN JOIST, 6 mil. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM BOARD INT. FINISH OR APPROVED EQ. (CANULC-S705.2, 9.19.1, 9.10.17.11)

11

ALL STAIRS/EXTERIOR STAIRS (9.8.1.2, 9.8.2, 9.8.4)

MAX. RISE 7'7 1/8" (200) MIN. RISE 5'12" (145) MAX. RUN 1'0" (255) ALL STAIRS
PUBLIC 7'18" (510) MIN. RISE 5'12" (145) MAX. RUN 1'1" (280) MAX. NOSING 1" (25)
MIN. STAIR WIDTH NOT TAPERED TREADS
PRIVATE 2'10" (860) MIN. AVG. RUN 5'7" (150) MIN. MIN. RUN 1'0" (255)
PUBLIC 2'11" (900) MIN. AVG. RUN 5'7" (150) MIN. MIN. RUN 1'1" (280)

12

GUARDS/HANDRAILS (9.8.7, 9.8.8)

GUARDS TO BE DESIGNED NOT TO FACILITATE CLIMBING AND PROVIDING MAX. OPENING CONFORMING TO O.B.C. 9.8.8.5 & 9.8.8.6. AND BE ABLE TO RESIST LOADS AS PER TABLE 9.8.8.2. GUARD HEIGHTS - O.B.C. 9.8.8.2. INTERIOR GUARDS: 2'-11" (900) MIN. EXTERIOR GUARDS: 2'-11" (900) MIN. (LESS THAN 5'-11" (1800) TO GRADE) & 2'-11" (900) MIN. OVER OPENINGS. GUARDS TO BE 4" (100) MIN. (LESS THAN 5'-11" (1800) TO GRADE) GUARDS FOR EXITS: 3'-6" (1070) MIN. GUARDS FOR LANDINGS @ EXIT STAIRS: 3'-6" (1070) MIN. GUARDS FOR FLOORS & RAMPS IN GARAGES (SERVICE STAIRS): FLOOR OR RAMP W/ EXTERIOR WALLS THAT IS 23 5/8" (600) OR MORE ABOVE ADJACENT SURFACE REQUIRES CONT. CURB MIN. 5'1/2" (140) HIGH; AND GUARD MIN. 3'-6" (1070) HIGH. REQUIRED GUARDS: WHEN WALKING SURFACE & ADJACENT SURFACE WITH A DIFFERENCE IN ELEVATION MORE THAN 23 5/8" (600) OR ADJACENT SURFACE WITHIN 3'-11" (1200) & WALKING SURFACE WITH A DIFFERENCE IN ELEVATION MORE THAN 12" (305) SHALL BE PROTECTED WITH GUARDS PER CONSTRUCTION HEX NOTE 11. HANDRAIL HEIGHTS - O.B.C. 9.8.7 - REQUIRED AS PER 9.8.7.1.3(3) MIN. HEIGHT AT STAIRS, RAMPS AND LANDINGS: 2'-10" (665) MAX. HEIGHT AT STAIRS, RAMPS AND LANDINGS: 3'-6" (1070)

12A

SILL PLATES

2"x4" (38x89) SILL PLATE WITH 1/2" (12.7) ANCHOR BOLTS @ 200' LONG, EMBEDDED MIN. 4" (100) INTO JOIST @ 1'-10" (2388) C.C., CAULKING OR GASKET BETWEEN PLATE AND JOIST AND OF FOUNDATION WALL. USE NON-SHRINK GROUT TO LEVEL SILL PLATE WHEN REQUIRED (9.23.7)

13

BASEMENT INSULATION (SB-12) 3.1.1.7

PROVIDE CONTINUOUS BLANKET INSULATION W/ BUILT IN 6 mil. POLYETHYLENE VAPOUR BARRIER. INSULATION TO EXTEND NO MORE THAN 8" (200) ABOVE FINISHED BASEMENT FLOOR. DAMPROOFED WITH BUILDING PAPER BETWEEN THE FOUNDATION WALL AND INSULATION UP TO GRADE LEVEL.

14

BEARING STUD PARTITION IN BASEMENT (9.15.3.6, 9.23.10.1)

2"x4" (38x89) STUDS @ 16" (400) C.C. 2"x4" (38x89) SILL PLATE (2"x6" (38x140) AS REQUIRED) ON DAMPROOFING MATERIAL OR 2 mil. POLYETHYLENE FILM, 1/2" (12.7) ANCHOR BOLTS @ 200' LONG, EMBEDDED 4" (100) INTO CONC. 7'-10" (2388) C.C. (100) W/HC CONC. CURB ON CONC. FOOTING. FOR SIZE REFER TO HEX NOTE 5. ADD HORIZ. BLOCKING AT MID-HEIGHT IF WALL IS UNFINISHED.

15

ADJUSTABLE STEEL BASEMENT COLUMN (9.15.3.4)

9'-10" (3000) MAX. SPAN BETWEEN COLUMNS. 3'1/2" (900) SINGLE TUBE ADJUSTABLE STEEL COLUMN CONFORMING TO CAN/CSA-G40-21 GRADE 30W CLASS 11.4. WITH 6"x6"x8" (152x152x9) STEEL PLATE TOP & BOTTOM. FIELD WELD BASEMENT COLUMN CONNECTION. POURED CONCRETE FOOTING ON NATURAL UNDISTURBED SOIL. OR 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 150kPa AS PER SOILS REPORT.

15A

NON-ADJUSTABLE STEEL BASEMENT COLUMN (9.15.3.4)

3'1/2" (900) x 0.188" (4.78) NON-ADJUSTABLE STEEL COLUMN WITH 6"x6"x8" (152x152x9) STEEL PLATE TOP & BOTTOM. FIELD WELD BASEMENT COLUMN CONNECTION. POURED CONCRETE FOOTING ON NATURAL UNDISTURBED SOIL. OR 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 150kPa AS PER SOILS REPORT.

16

STEEL BEAM BEARING AT FOUNDATION WALL (9.23.8.1)

STEEL BEAM BEARING ON 8"x8" (200x200) POURED CONC. NIB WALLS, MIN. BEARING 3'1/2" (914) CONC. CONC. NIB WALLS TO HAVE EXTENDED FOOTINGS. WOOD STRAPPING AT STEEL BEAMS (9.23.4.3.1), 9.23.9.3

17

GARAGE SLAB (9.16, 9.35)

(4) 100' 32MPa (4640psi) CONC. SLAB WITH 5-8% AIR ENTRAINMENT ON OPT. 4" (100) COARSE GRANULAR FILL WITH COMPACTED SUB-BASE OR COMPACTED NATIVE FILL. SLOPE TO FRONT @ 1% MIN.

19

GARAGE TO HOUSE WALLS/CEILING (9.10.9.16)

(12.7) GYPSUM BOARD WALL AND CEILING BETWEEN HOUSE AND GARAGE. PLUS REQUIRED INSULATION IN WALLS AND SPRAY FOAM FOR CEILINGS. TAPE AND SEAL ALL JOINTS GAS TIGHT. (9.10.17.10, CANULC-S705.2)

19A

GARAGE TO HOUSE WALLS/CEILING W/ CONTIN. INSULATION (12.7) GYPSUM BOARD ON CEILING AND ON WALLS INSTALLED OVER EXTERIOR TYPE RIGID INSULATION. JOINTS UNTREATED. MECHANICALLY FASTENED AS PERMANUFACTURERS SPECIFICATIONS ON 3/8" EXTERIOR GRADE SHEATHING ON STUDS BETWEEN HOUSE AND GARAGE. PLUS REQUIRED INSULATION IN WALLS & SPRAY FOAM FOR CEILINGS. TAPE AND SEAL ALL JOINTS GAS TIGHT. (9.10.9.16, 9.10.17.10, & CANULC-S705.2)

20

GARAGE DOOR TO HOUSE (9.10.9.16, 9.10.13.10, 9.10.13.15)

GAS-PROOF DOOR AND FRAME. DOOR EQUIPPED WITH SELF-CLOSING DEVICE AND WEATHER STRIPPING.

21

EXTERIOR AND GARAGE STAIRS

PRECAST CONC. STEP OR WOOD STEP WHERE NOT EXPOSED TO WEATHER. MAX. RISE 7'7 1/8" (200) MIN. TREAD 1'0" (255). FOR THE REQUIRED NUMBER OF STEPS REFER TO SITING AND GRADING DRAWINGS. EXTERIOR CONCRETE STAIRS WITH MORE THAN 2 RISERS AND 2 TREADS SHALL BE PROVIDED WITH FOUNDATION AS REQUIRED BY ARTICLE 9.8.9.2. OR SHALL BE CANTILEVERED AS PER SUBSECTION 9.8.10.

22

DRYER EXHAUST

CAPPED DRYER EXHAUST VENTED TO EXT. CONFORMING TO PART 6, CBC 9.3.2

23

ATTIC ACCESS (9.19.2.1)

ATTIC ACCESS HATCH WITH MIN. AREA OF 32sqm AND NO DIM. LESS THAN 21" (545) WITH WEATHER STRIPPING. HATCHWAYS TO THE ATTIC OR ROOF SPACE WILL BE FITTED WITH DOORS OR COVERS AND WILL BE INSULATED WITH MIN. R20 (R3.52). (SB-12) 3.1.1.8.1(i)

24

FIREPLACE CHIMNEYS (9.2.1)

TOP OF FIREPLACE CHIMNEY SHALL BE 2'-11" (889) ABOVE THE HIGHEST POINT AT WHICH IT COMES IN CONTACT WITH THE ROOF AND 2'-0" (610) ABOVE THE ROOF FINISH WITH A MIN. HORIZ. DISTANCE OF 10'-0" (3048) FROM THE CHIMNEY.

25

LINEN CLOSET

PROVIDE 4 SHELVES MIN. 1'4" (356) DEEP

26

MECHANICAL VENTILATION (9.32.1.3)

MECHANICAL EXHAUST FAN, VENTED TO EXTERIOR, TO PROVIDE AT LEAST ONE AIR CHANGE PER HOUR. SEE GENERAL NOTE 2.3.

27

PARTY WALL BEARING (9.23.8)

12"x12"x5/8" (305x305x15) STEEL PLATE FOR STEEL BEAMS AND 12"x12"x1/2" (305x305x12) STEEL PLATE FOR WOOD BEAMS BETWEEN MIN. 3'-1/2" (89) ON CONC. BLOCK PARTY WALL, ANCHORED WITH 2-3/4" (219) x 8" (200) LONG GALV. ANCHORS WITHIN SOLD BLOCK CONCRETE LEVEL. W/ NON-SHRINK GROUT. REFER TO NOTE SOLD-BLOCK SECTION (3.0) FOR WOOD STUD PARTY WALL.

28

WOOD FRAMING IN CONTACT TO CONCRETE

WOOD BEARING WALLS, THE UNDERSIDE OF BUILT-UP WOOD POSTS AND SILLS SHALL BE WRAPPED WITH 2 mil. POLY. STRIP FOOTINGS SUPPORTING THE FOUNDATION WALL SHALL BE WIDENED 6" (152) BELOW THE BEARING WALL AND/OR WOOD POST. (9.17.4.3)

29

BUILT-UP WOOD POST AND FOOTING (9.17.4.1, 9.15.3.7)

6"x6"x6" (152x152x140) BUILT-UP WOOD POST (UNLESS OTHERWISE NOTED). ON CONC. BLOCK ANCHOR BOLTS WITH CONC. WITH 1/2" (12.7) (20) BOLT, 24"x24"x12" (610x610x305) CONC. FOOTING OR AS PROVIDED ON PLAN. REFER TO NOTE 28

30

STEP FOOTINGS (9.15.3.9)

MIN. HORIZ. STEP = 2-5/8" (600) MAX. VERT. STEP = 2-5/8" (600).

31

CONC. PORCH SLAB (9.16.4)

MIN. 4" (100) CONCRETE SLAB ON GRADE ON 4" (100) COARSE GRANULAR FILL, REINFORCED WITH 6x6xW2.9xW2.9 MESH PLACING NEAR MID-DEPTH OF SLAB. CONC. STRENGTH 25MPa (4640psi) WITH 5-8% AIR ENTRAINMENT ON COMPACTED SUB-GRADE.

32

FURNACE VENTING (9.32)

DIRECT VENT FURNACE TERMINAL MIN. 3'-0" (915) FROM A GAS REGULATOR. MIN. 12" (305) ABOVE FIN. GRADE FROM ALL OPENINGS. EXHAUST AND INTAKE VENTS. HWY NEEDED TO BE A MIN. OF 6'-0" (1830) FROM ALL EXTERIOR TERMINALS. REFER TO GAS UTILIZATION CODE.

33

FIREPLACE VENTING (9.32.3)

DIRECT VENT GAS FIREPLACE VENT TO BE A MIN. 12" (305) FROM ANY OPENING AND ABOVE FIN. GRADE. REFER TO GAS UTILIZATION CODE.

34

FLOOR FRAMING (9.23.3.5, 9.23.9.4, 9.23.14)

T&G SUBFLOOR ON WOOD FLOOR JOISTS. FOR CERAMIC TILE APPLICATION SEE O.B.C. 9.30.8. ALL JOISTS WHERE REQUIRED TO BE BRIDGED WITH 2"x2" (38x38) CROSS BRACING OR SOLD BLOCKING @ 6'-11" (2108) O.C. MAX. ALL JOISTS TO BE STRAPPED WITH 1"x3" (19x64) @ 6'-11" (2108) O.C. UNLESS A PANEL TYPE CEILING FINISH IS APPLIED.

34A

HEADER CONSTRUCTION

PROVIDE CONTINUOUS APPROVED AIR/VAPOUR BARRIER (HEADER WRAP) UNDER THE SILL PLATE, AROUND THE RIM BOARD AND UNDER THE BOTTOM PLATE. THE HEADER WRAP SHALL EXTEND 6" (152) BELOW THE TOP OF FOUNDATION WALL AND BE SEALED TO THE CONCRETE FOUNDATION WALL. EXTEND HEADER WRAP 6" (152) UP THE INTERIOR SIDE OF THE STUD WALL AND OVERLAP WITH THE VAPOUR BARRIER AND SEAL THE JOINT. ALL EDGES/JOINTS MUST BE MECHANICALLY CLAMPED.

35

EXPOSED BUILDING FACE w/ LIMITING DISTANCE <= 3'-11" (900) MIN.

WALL ASSEMBLY CONTAINS INSULATION CONFORMING TO CANULC-S702 & HAVE A MASS OF NOT LESS THAN 122 KG/m2 OF WALL SURFACE AND 1/2" (12.7) TYPE GYPSUM WALLBOARD INTERIOR FINISH. EXTERIOR CLADDING MUST BE NON-COMBUSTIBLE WHEN LIMITING DISTANCE IS 23 5/8" (600) OR LESS. WALL ASSEMBLY REQUIRES TO HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 45 MINUTES & CONFORMING TO O.B.C. (9.10.14, 9.10.15.16). REFER TO DETAILS FOR TYPE & SPECS. ** AN OPENING IN AN EXPOSING BUILDING FACE NOT MORE THAN 20' 0" (6100) SHALL NOT BE CONSIDERED AN UNPROTECTED OPENING AS PER 9.10.14.6.

36

COLD CELLAR PORCH SLAB (9.39)

FOR MAX. 8'-2" (2500) PORCH DEPTH. 5" (127) 32 MPa (4640psi) CONC. SLAB W/ 5-8% AIR ENTRAINMENT. REIN. WITH 10M BARS @ 7'78" (200) O.C. EACH DIRECTION. W/ 1" (25) CLEAR COVER FROM BOTTOM OF SLAB TO FIRST LAYER OF BARS & SECOND LAYER OF BARS Laid DIRECTLY ON TOP OF LOWER LAYER IN OPPOSITE DIR. 24"x24" (610x610) 10M DOWELS @ 23 5/8" (600) O.C. ANCHORED IN PERIMETER FND. WALLS. SLOPE SLAB 1.0% FROM DOOR.

37

RANGE HOODS AND RANGE-TOP FANS

COOKING APPLIANCE EXHAUST FANS VENTED TO EXTERIOR MUST CONFORM TO CBC 9.10.2, CONFORM TO CBC 9.32.9.3 & 9.32.3.10.

38

CONVENTIONAL ROOF FRAMING (9.23.13, 9.23.15)

2"x6" (38x140) RAFTERS @ 16" (400) O.C., 2"x8" (38x134) RIDGE BOARD 2"x4" (38x89) CHORD TIES AT MID-SPAN. CEILING JOISTS TO BE 2"x4" (38x89) @ 16" (400) O.C. FOR MAX. 9'-3" (2819) SPAN & 2"x6" (38x140) @ 16" (400) O.C. FOR MAX. SPAN 14'-0" (4260). RAFTERS FOR BUILT UP ROOF OVER PRE-ENGINEERED ROOF TRUSSES AND OR CONVENTIONAL FRAMING TO BE 2"x6" (38x89) @ 24" (610) O.C. UNLESS OTHERWISE SPECIFIED.

STAMP

cont. SECTION 1.0. CONSTRUCTION NOTES

39	TWO STOREY VOLUME SPACES (9.23.10.1, 9.23.11, 9.23.16)			
	WALL ASSEMBLY		WIND LOADS	
EXTERIOR	STUDS	<= 0.5 kPa (pS0)	> 0.5 kPa (pS0)	
BRICK	2"x6" (38x140) SPR #2	SPACING 18" (450) C.C.	MAX HEIGHT 8' (200) C.C.	MAX HEIGHT 8' (200) C.C.
SIDING	2"x6" (38x140) SPR #2	18" (450) C.C.	18" (450) C.C.	18" (450) C.C.
BRICK	2"x6" (38x140) SPR #2	12" (305) C.C.	21" (640) C.C.	21" (640) C.C.
SIDING	2"x6" (38x140) SPR #2	16" (406) C.C.	21" (640) C.C.	21" (640) C.C.
** STUD SIZE & SPACING TO BE VERIFIED BY STRUCTURAL ENGINEER **				
STUDS ARE TO BE CONTINUOUS, C/W 3# 9.5 THICK EXTERIOR PLYWOOD SHEATHING, PROVIDE SOLID WOOD BLOCKING BETWEEN WOOD STUDS @ 4'-0" (1220) C.C. VERTICALLY.				
- FOR CHIRCH DISTANCES LESS THAN 9'-6" (2896) PROVIDE 2"x6" (38x140) STUDS 16" (406) C.C. WITH CONTIN. 2"x6" (38x140) TOP PLATE + 1"x6" (1x38x140) BOTTOM PLATE + MIN. OF 3/2"x8" (38x140) CONC. HEADER AT GROUND FLOOR CEILING LEVEL, TOE-NAIL & GLUED AT TOP, BOTTOM PLATES & HEADERS				
40	1. HR. PARTY WALL [CONC. BLOCK] (SB-3) WALL TYPE B6 & B10			
	1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"x2" (38x38) VERTICAL WOOD STRAPPING @ 24" (610) C.C. ON 8" (200) CONC. BLOCK FULL STRAPPING CAVITY EACH SIDE WITH AT LEAST 90% OF ABSORPTIVE MATERIAL PROCESSED FROM ROCK, SLAG OR GLASS. TAPE, FILL & SAND ALL GYPSUM JOINTS. EXPOSED BLOCK MUST BE SEALED W/ 2 COATS OF PAINT OR FURRED WITH 2"x2" (38x38) WOOD STRAPPING & 1/2" (12.7) GYPSUM SHEATHING.			
40	1. HR. PARTY WALL [DOUBLE STUD] (SB-3) WALL TYPE W1c1			
	5/8" (15.9) TYPE X GYPSUM SHEATHING ON EXTERIOR SIDE OF 2 ROWS OF 2"x4" (38x89) STUDS @ 16" (400) C.C. MIN. 1" (25) APART ON SEPARATE 2"x4" (38x89) SILL PLATES. (2"x6" (38x140) AS REQUIRED). FILL ONE SIDE OF STUD CAVITY WITH AT LEAST 90% OF ABSORPTIVE MATERIAL PROCESSED FROM ROCK, SLAG OR GLASS. TAPE FILL AND SAND ALL GYPSUM JOINTS.			
40A	2. HR. FIREWALL (SB-3) WALL TYPE B6 & B10			
	1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"x2" (38x38) VERTICAL WOOD STRAPPING @ 24" (610) C.C. ON 8" (200) CONC. BLOCK 75% SOLID. FULL STRAPPING CAVITY EACH SIDE WITH AT LEAST 90% OF ABSORPTIVE MATERIAL PROCESSED FROM ROCK, SLAG OR GLASS. TAPE, FILL & SAND ALL GYPSUM JOINTS. AT UNFINISHED AREAS, EXTERIOR FACE OF CONC. BLOCK TO BE SEALED W/ 2 COATS OF PAINT. ALL SHEATHING TO BE ATTACHED TO CONC. BLOCK. (REFER TO DETAILS)			
41	STUCCO WALL CONSTRUCTION (2"x6")			
	STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 1 1/2" (38) E.F.I.S. MINIMUM ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSGLASS GOLD GYPSUM BOARD ON STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1. INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)			
41A	STUCCO WALL CONSTRUCTION (2"x6") W/ CONTIN. INSULATION			
	STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 1 1/2" (38) E.F.I.S. MINIMUM ON APPROVED DRAINAGE MAT ON APPROVED AIR/WATER BARRIER AS PER O.B.C. 9.27.3 ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPPED) MECHANICALLY FASTENED AS PER MANUFACTURERS SPECIFICATIONS, ON 7/16" EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1. INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)			
41B	STUCCO WALL @ GARAGE CONSTRUCTION			
	STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 1 1/2" (38) E.F.I.S. MINIMUM ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSGLASS GOLD GYPSUM BRD. ON STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1. INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER AS PER O.B.C. 9.27.3 ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPPED) MECHANICALLY FASTENED AS PER MANUFACTURERS SPECIFICATIONS, ON 3/8" EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1) & SECTION 1.1. INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)			
42	UNSUPPORTED FOUNDATION WALLS (9.15.4.2)			
	REINFORCING AT STAIRS AND SUNKEN FLOOR AREAS 2-20M BARS IN TOP PORTION OF WALL (10'-0" TO 8'-0" OPENING). 3-20M BARS IN TOP PORTION OF WALL (8'-0" TO 10'-0" OPENING) ADHERED TO 5'-0" FROM TOP OF WALL. 4-20M BARS IN TOP PORTION OF WALL (10'-0" TO 15'-0" OPENING) - BARS STACKED VERTICALLY AT INTERIOR FACE OF WALL REINFORCING AT BASEMENT WINDOWS 2-15M HORIZ. REINFORCING ON THE INSIDE AND OUTSIDE FACE OF THE FOUNDATION WALL BELOW THE WIN. SILL. EXTEND BARS 24" (610) BEYOND THE OPENING. 2-15M VERTICAL REINFORCING ON THE INSIDE AND OUTSIDE FACE OF THE FOUNDATION WALL BELOW THE WIN. SILL. EXTEND BARS 24" (610) BEYOND THE OPENING. - BARS TO HAVE MIN. 2" (50) CONC. COVER - BARS TO EXTEND 24" (610) BEYOND BOTH SIDES OF OPENING			
43	STUD WALL REINFORCEMENT			
	PROVIDE STUD WALL REINFORCEMENT IN MAIN BATHROOM CONFORMING TO O.B.C. (9.5.2.3.1) AND 3.8.3.8.3) (REFER TO DETAILS)			
44	WINDOW WALLS			
	WHERE A WINDOW OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT LESS THAN 21" (560) SHALL BE PROVIDED IN FRONT OF THE WINDOW. EVERY WINDOW WELL SHALL BE PROVIDED TO THE FOOTING LEVEL, OR OTHER SUITABLE LOCATION WITH A 4" (100) WEEPING TILE OR A FILTER CLOTH WRAP AND FILLED WITH CRUSHED STONE. (9.9.10.1, 9.9.14.6.3)			
45	SLOPED CEILING CONSTRUCTION (SB-12) 21' 11", 9.23.2.4.2			
	2"x12" (38x286) ROOF JOISTS @ 16" (406) C.C. MAX. UNLESS OTHERWISE NOTED W/ 2"x2" (38x38) PURLINS @ 16" (406) C.C. PERPENDICULAR TO ROOF JOIST PURLINS NOTED W/ 2"x6" (38x140) PERPENDICULAR TO 2"x6" (38x140) FLOORS JOISTS @ 16" (406) C.C. (UNLESS OTHERWISE NOTED). BUILT UP CURB TO BE 4" (100) MIN. ABOVE FINISHED BALCONY FLOOR. CONTINUOUS 1" DRAIN DRAIN EDGE TO BE 1/4" (6.35) MIN. AWAY FROM HOUSE. PREFINISHED ALUMINUM OR PANEL FLOOR (UNDERSIDE OF SOFFIT @ 9.23.2.3). REMOVE CURB WHERE REQ.			
46	FLAT ROOF/BALCONY CONSTRUCTION			
	WATERPROOFING MEMBRANE (9.26.11, 9.26.15, 9.26.16) (15.9) 3/8" EXTERIOR GRADE WOOD SHEATHING ON 2"x2" (38x38) PURLINS ANCHORED TOWARDS ROOFS @ 23 5/8" (600) C.C. PERPENDICULAR TO 2"x6" (38x140) FLOORS JOISTS @ 16" (406) C.C. (UNLESS OTHERWISE NOTED). BUILT UP CURB TO BE 4" (100) MIN. ABOVE FINISHED BALCONY FLOOR. CONTINUOUS 1" DRAIN DRAIN EDGE TO BE 1/4" (6.35) MIN. AWAY FROM HOUSE. PREFINISHED ALUMINUM OR PANEL FLOOR (UNDERSIDE OF SOFFIT @ 9.23.2.3). REMOVE CURB WHERE REQ.			
47	BALCONY CONDITION			
	SEE FLAT ROOF/BALCONY CONSTRUCTION NOTE. INCLUDE 2"x2" (38x38) PT. BECKING W/ 1/4" (6.35) MIN. BUILT UP FLAT PARALLEL TO JOISTS ON 2"x6" (38x140) PT. SLEEPERS @ 12" (305) C.C. LAID FLAT PERPENDICULAR TO JOISTS			
48	BALCONY OVER HEATED SPACE CONDITION			
	SEE FLAT ROOF/BALCONY CONSTRUCTION NOTE FOR ASSEMBLY. REFER TO INTERIOR FINISH			
49	BARREL VAULT CONSTRUCTION			
	CANTEVERED 2"x4" (38x89) SPACERS LAID ON 2"x10" (86x235) SPR. #2 ROOF. JOIST WALLS @ 16" (406) C.C. MIN. PLYWOOD HEADER PROFILED FOR BARREL. SPRAY FOAM INSULATION BETWEEN JOISTS W/ GYPSUM BOARD. INTERIOR FIN. (REFER TO DETAILS)			