

UNIT 5011MOD-LOT 69 -'THE TIMBERLAND'

SB-12 ENERGY EFFICIENCY DESIGN MATRIX PRESCRIPTIVE COMPLIANCE SB-12 (SECTION 3.1.1) TABLE 3.1.1.2.A

PACKAGE A1

SPACE HEATING FUEL

GAS
GIVEN
GELECTRIC
PROPANE
GERTH
GERTH
GERTH
GERTH

		L OOLID TOLL
BUILDING COMPONENT	REQUIRED	PROPOSED
INSULATION RSI (R) VALUE		
CEILING W/ ATTIC SPACE	10.56 (R60)	10.56 (R60)
CEILING W/O ATTIC SPACE	5.46 (R31)	5.46 (R31)
EXPOSED FLOOR	5.46 (R31)	5.46 (R31)
WALLS ABOVE GRADE	3.87 (R22)	3.87 (R22)
BASEMENT WALLS	3.52 ci *	3.52 ci
* PROPOSED VALUES MAY BE SUBSTITUTED W/ 2.11+1.76ci (R12+R10ci)	(R20 ci)	(R20 ci) *
BELOW GRADE SLAB ENTIRE SURFACE > 600mm BELOW GRADE	-	-
EDGE OF BELOW GRADE SLAB ≤ 600mm BELOW GRADE	1.76 (R10)	1.76 (R10)
HEATED SLAB OR SLAB \leq 600mm BELOW GRADE	1.76 (R10)	1.76 (R10)
WINDOWS & DOORS		
WINDOWS/SLIDING GLASS DOORS (MAX U-VALUE)	1.6	1.6
SKYLIGHTS (MAX. U-VALUE)	2.8	2.8
APPLIANCE EFFICIENCY		
SPACE HEATING EQUIP. (AFUE%)	96%	96%
HRV EFFICIENCY (%)	75%	75%
DHW HEATER (EF)	0.8	0.8

AREA CALCULATIONS EL. 'A' GROUND FLOOR AREA 1958 sq. ft. (181.90 sq. m.) 2544 sq. ft. (236.35 sq. m.) 4502 sq. ft. SUBTOTAL (418.25 sq. m.) 277 sq. ft. (25.73 sq. m.) 4225 sq. ft. TOTAL NET AREA (392.52 sq. m.) FINISHED BASEMENT AREA (13.56 sq. m.) 2586 sq. ft. W/OUT PORCH (240.25 sq. m.) COVERAGE W/ PORCH 2700 sq. ft. (250.84 sq. m.) 2970 sq. ft. COVERAGE W/ OPT. LOGGIA (275.92 sq. m.) EL. 'A' CALCULATIONS STD. PLAN 4711.67 sq. ft. GROSS WALL AREA (437.73 sq. m.) 598.39 sq. ft. GROSS WINDOW AREA (INCL. GLASS DOORS & SKYLIGHTS) (55.59 sq. m.) TOTAL WINDOW % 12.70 %

- 1 TITLE PAGE
- 2 BASEMENT PLAN EL 'A'
- 3 GROUND FLOOR PLAN EL 'A' 4 - SECOND FLOOR PLAN EL. 'A'
- 5 FRONT ELEVATION 'A'
- 6 LEFT SIDE ELEVATION 'A'
- 7 RIGHT SIDE ELEVATION 'A' 8 - REAR ELEVATION 'A'
- 9 CROSS SECTION 'A-A'
- 10 CONSTRUCTION NOTES

 7.

 6.

 5.

 4.

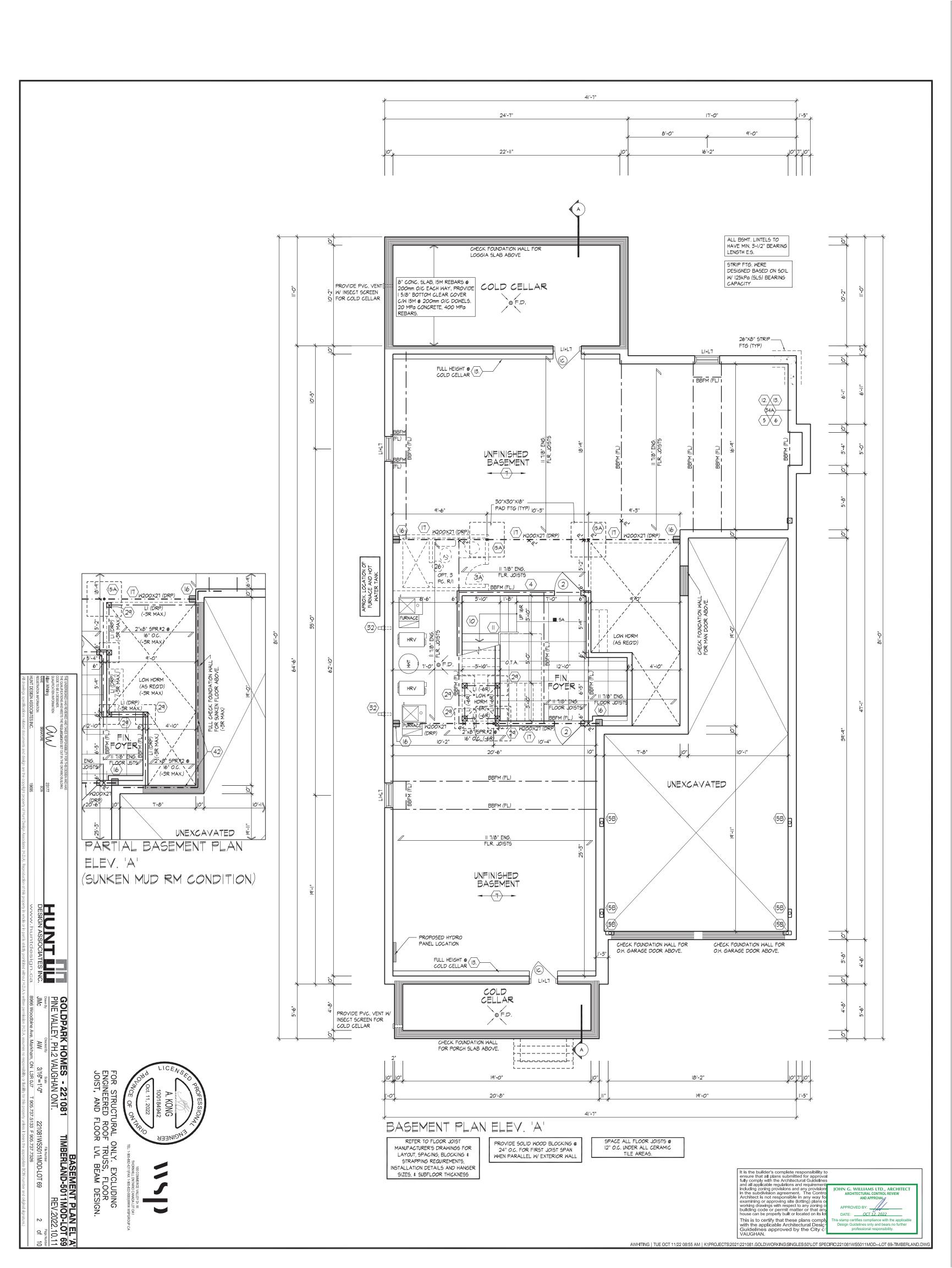
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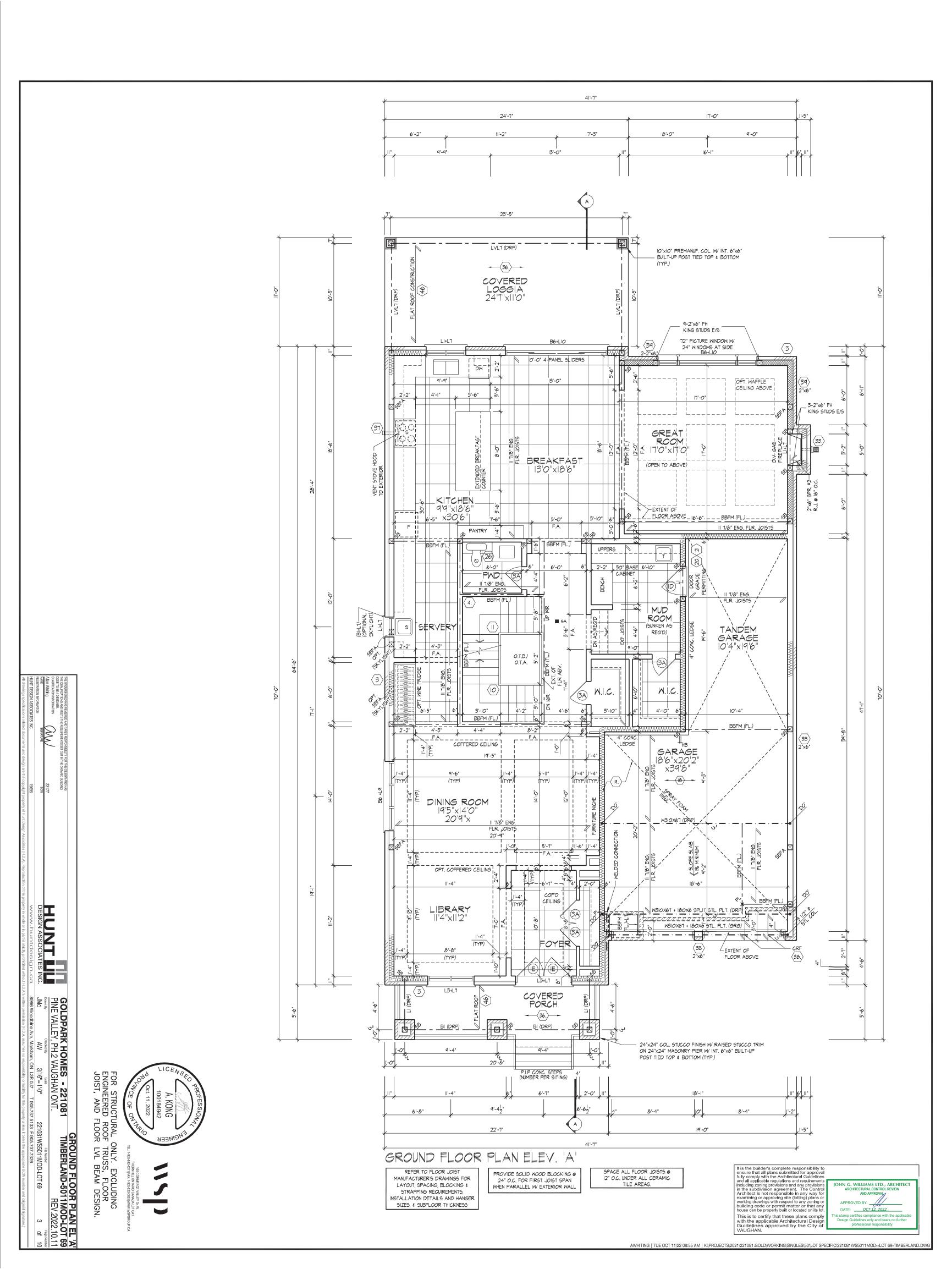
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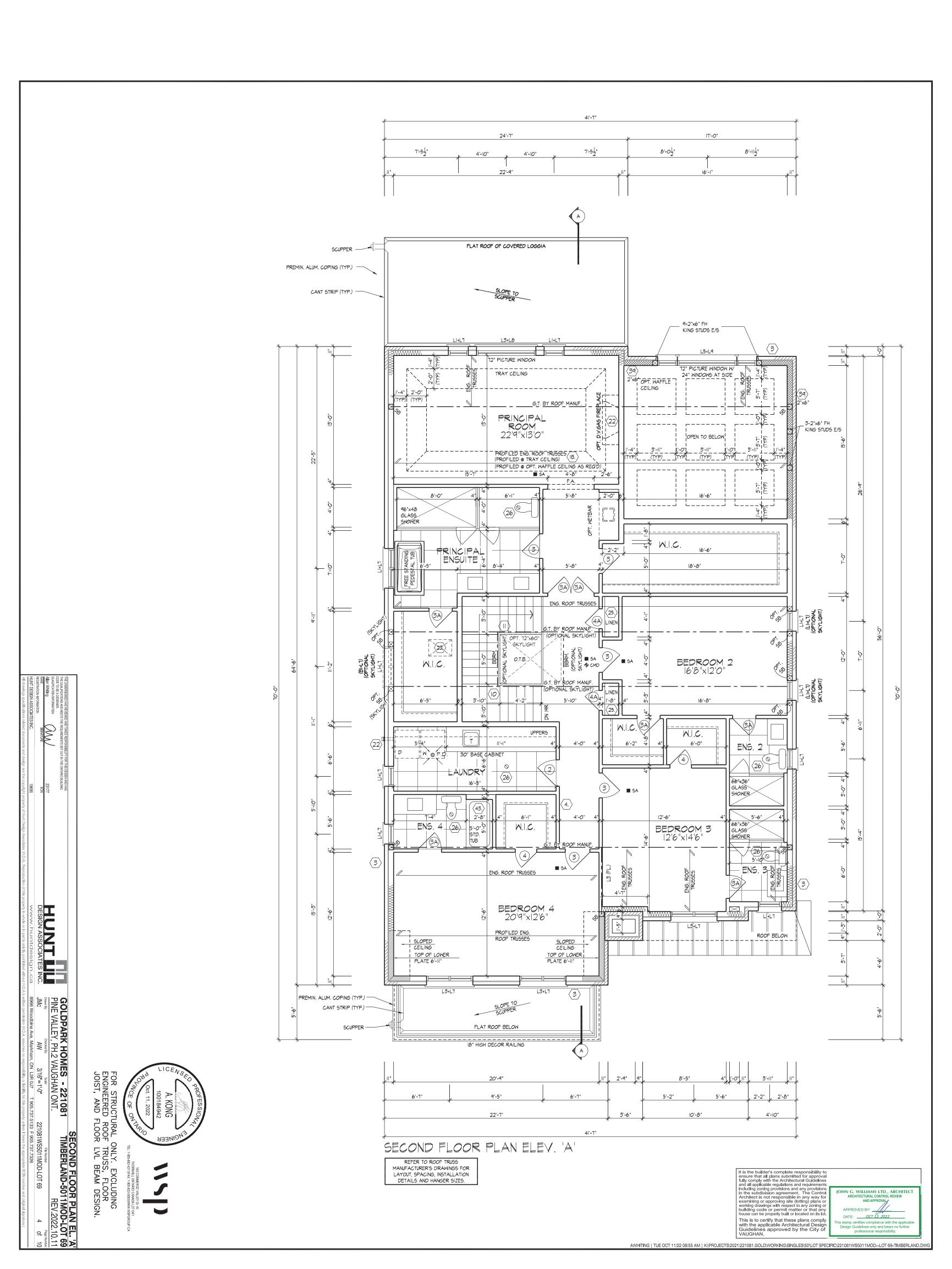
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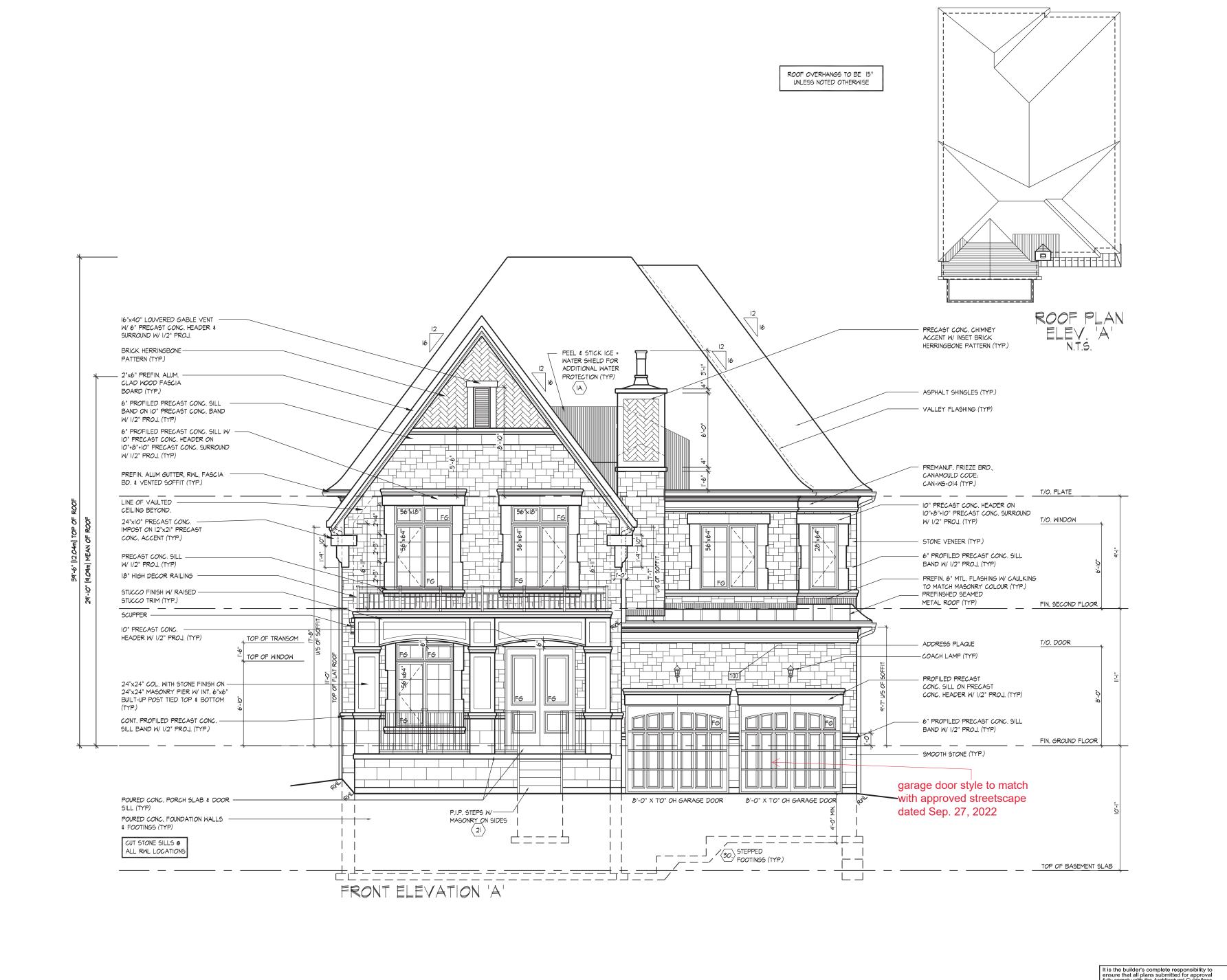
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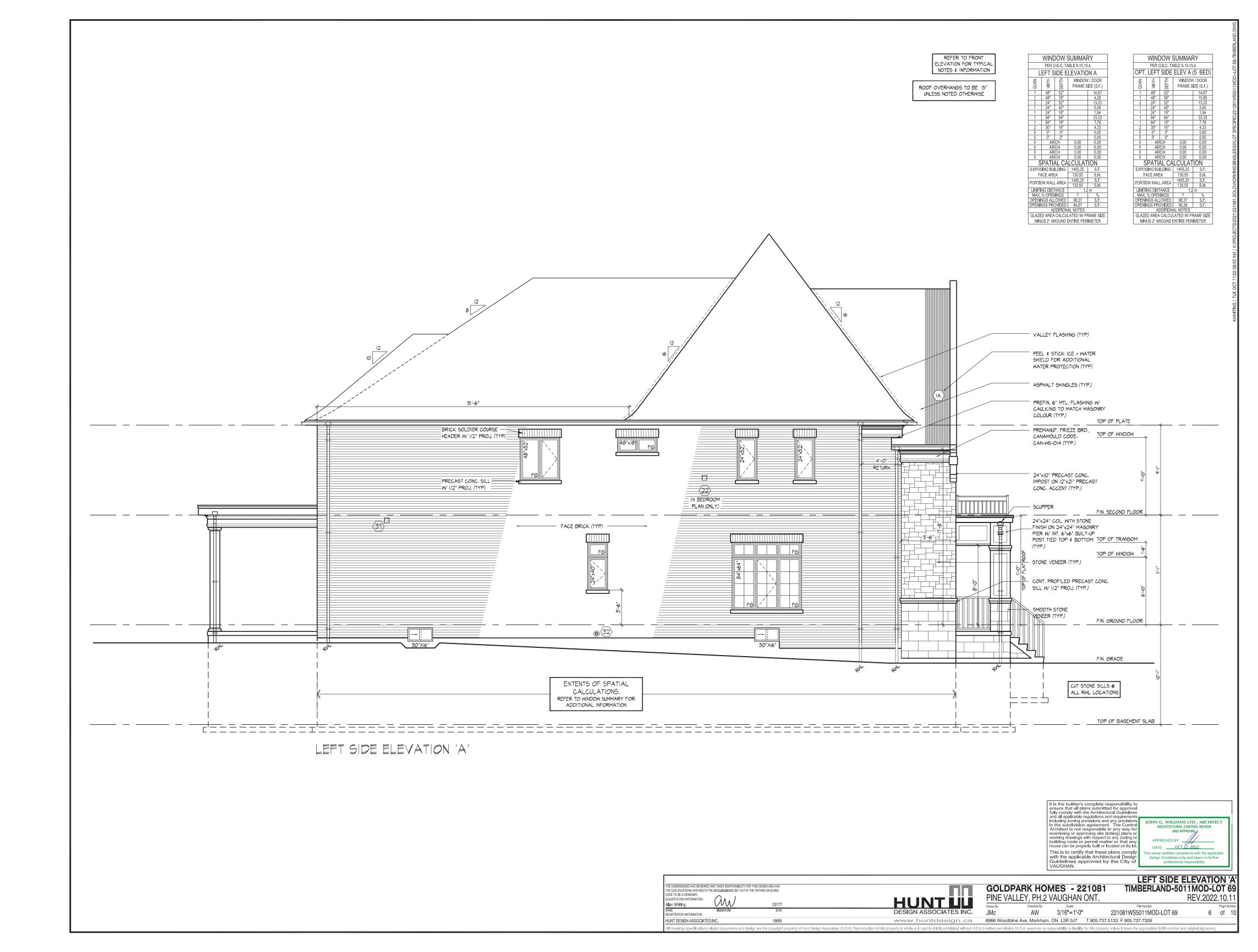


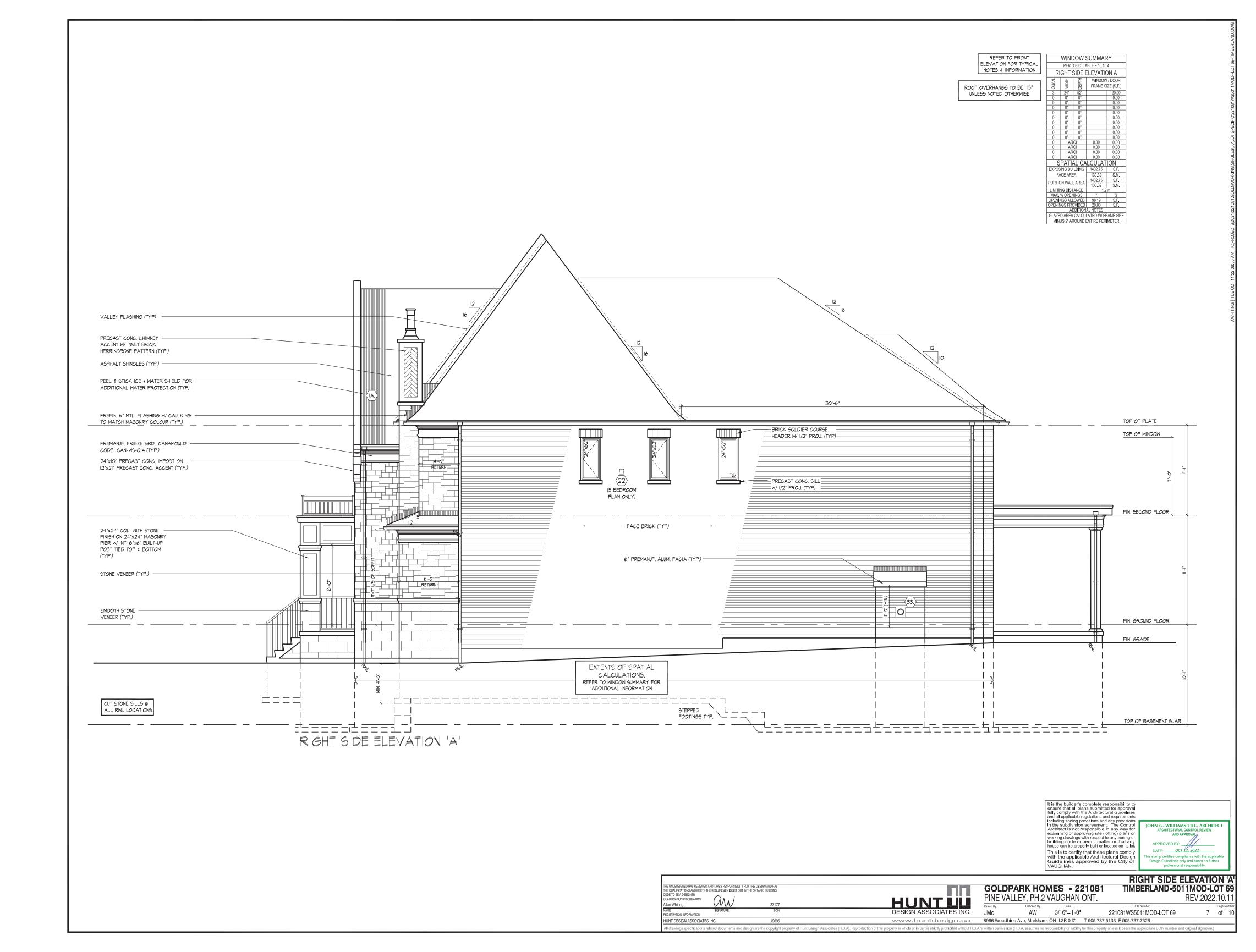


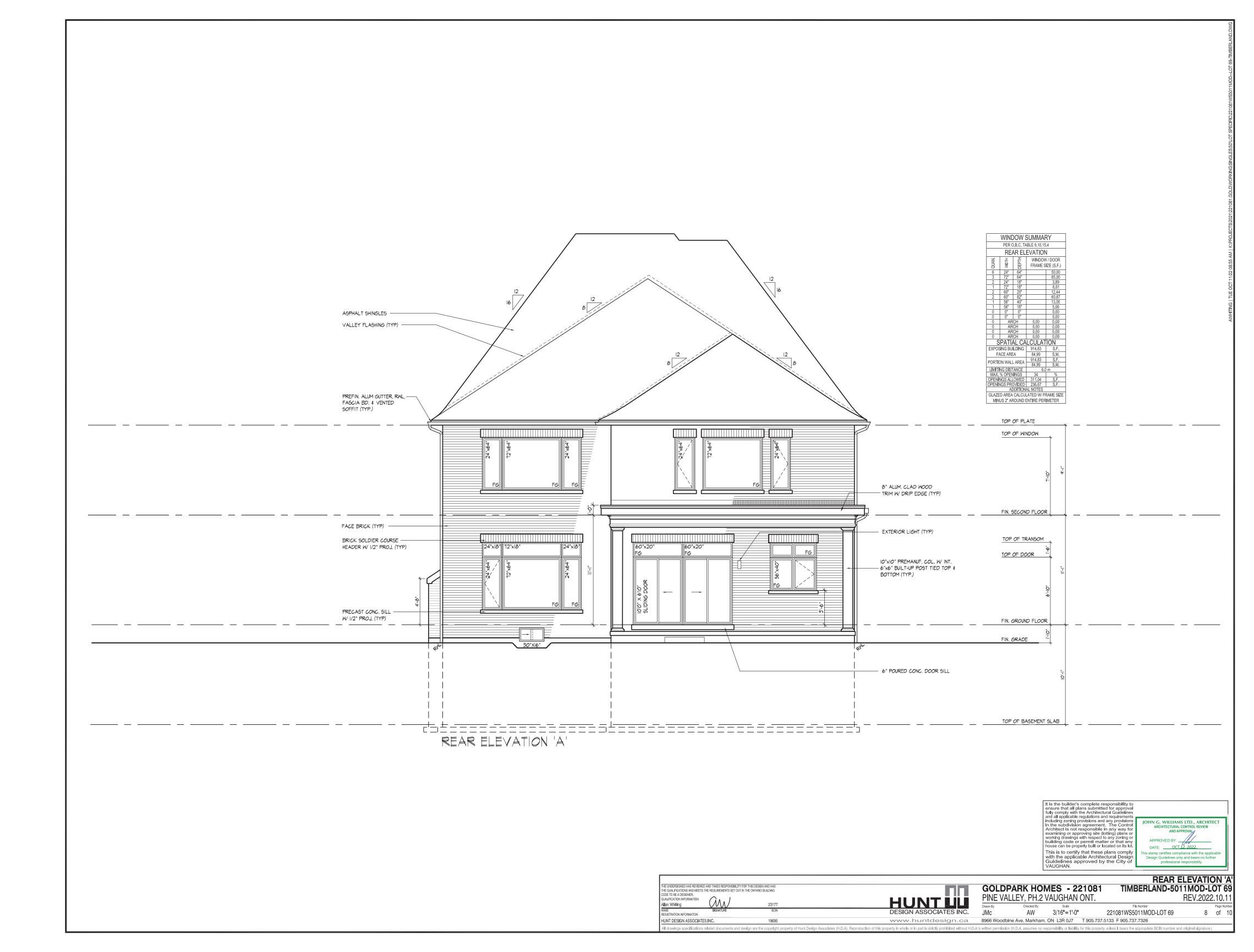


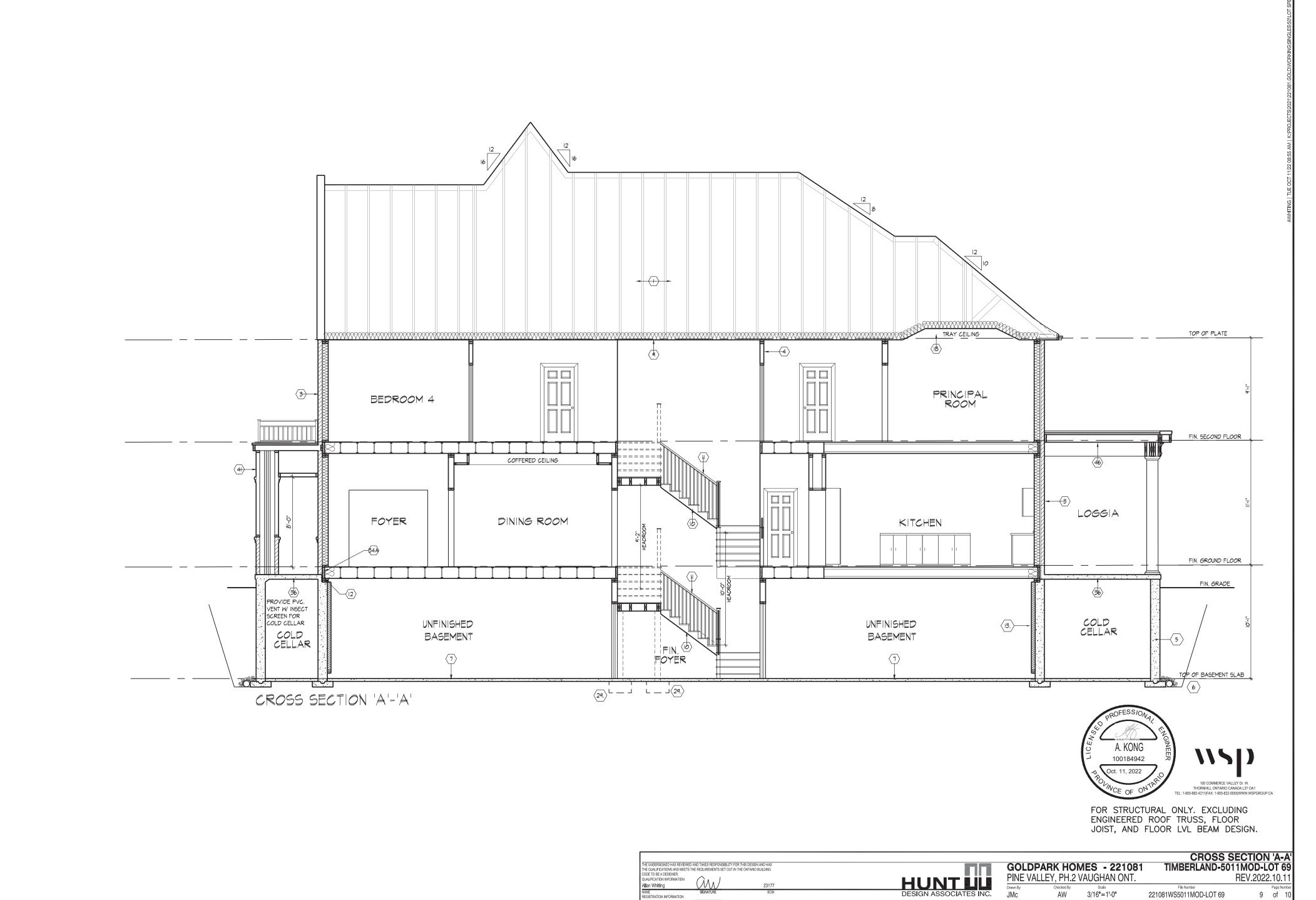


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CODE TO BE A DESIGNER. QUALIFICATION INFORMATION	in 1		HUNT	PINE V	ALLEY, PH.2 \	/AUGHAN	ONT.		REV.202	2.10.11
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REGISTRATION INFORMATION	TOTIC	DOIN	DESIGN ASSOCIATES INC.	JMc	AW	3/16"=1'-0"		S5011MOD-LOT 69	5	of 10
HUNT DESIGN ASSOCIATES INC.		19695	www.huntdesign.ca	8966 Wood	dbine Ave, Markham,	ON L3R 0J7	T 905.737.5133 F 905.	737.7326		
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INSULATED CEILING AREA WITH MIN. 25% OR REQUIRED OPENINGS LOCATED AT TOP OF SPACE & MIN. 25% OF REQUIRED OPENINGS LOCATED AT BOTTOM OF SPACE. EAVESTROUGH TO BE 4" MIN. WITH RWL DISCHARGING ONTO CONCRETE SPLASH PADS OR PER MUNICIPAL REQUIREMENTS. TOWNHOUSES TO HAVE 5" MIN. EAVESTROUGH WITH ELEC. TRACED HEATER CABLE ALONG EAVESTROUGH AND DOWN RWL.

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 L MUST BE A MINIMUM 3 1/2" (90) AND END LAPS A MINIMUM 6" (152). AND TO EXTEND UP DORMER WALLS A MINIMUM 12" (305).

1B PROFILED ROOF TRUSSES

ROOF TRUSSES SHALL BE PROFILED AND/OR STEPPED AT RAISED COFFER/TRAY CEILINGS. ANGLED TRAY CEILINGS WILL BE SHEATHED W/ 3/8" (9.5) PLYWOOD.

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.)) (REFER TO 35 NOTE AS REQ.)

SIDING WALL CONSTRUCTION (2'x6') W/ CONTIN. INSULATION SIDING MATERIAL AS PER ELEVATION ATTACHED TO FURRING MEMBERS ON APPROVED AIRWATER BARRIER AS PER O.B.C. 9.27.3. ON EXTERIOR TYPE RIGID

INSULATION (JOINTS UNTAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S 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.)) (REFER TO 35 NOTE AS REQ.

SIDING WALL @ GARAGE CONSTRUCTION

SIDING MATERIAL AS PER ELEVATION ATTACHED TO FRAMING MEMBERS, FURRING MEMBERS OR BLOCKING BETWEEN THE FRAMING MEMBERS ON PPROVED SHEATHING PAPER ON 3/8" (9.5) EXTERIOR TYPE SHEATHING C TUDS CONFORMING TO O.B.C (9.23.10.1.) & SECTION 1.1.,1/2" (12.7) GYPS WALLBOARD INTERIOR FINISH. (GYPSUM SHEATHING, RIGID INSULATION AND FIBERBOARD SHALL NOT BE USED FOR THE ATTACHMENT OF SIDING (9.23.16.3.(1.)) (REFER TO 35 NOTE AS REQ.)

BRICK VENEER WALL CONSTRUCTION (2"x6")

1/2" (90) BRICK VENEER 1" (25) AIR SPACE, 7/8"x7'x0.03" (22x180x0.76) GALV. METAL TIES 16" (400) O.C. HORIZ. 24" (600) O.C. VERT. BONDING AND FASTENING FOR TIES TO ONEORM WITH 9 20 9 ON APPROVED SHEATHING PAPER 3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO 0.B.C (9.23.10.1.) & SECTION 1.1., INSULATION AND 6 mil POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONTIN. AIR BARRIER. 1/ 12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800). O.C BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 6" (150) BEHIND BUILDING PAPER (9.20.13.6.) (REFER TO 35 NOTE AS REQUIRED)

3A BRICK VENEER WALL CONSTRUCTION (2"x6") W/ CONTIN, INSULATION TIES TO CONFÓRM WITH 9.20.9. ÒN ÁPPROVED AIR/WATER BARRIER AS PER O.B.C 9.27.3. ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S 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 mill POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONTIN. AIR BARRIER. 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800) O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 6" (150) OVER RIGID INSULATION (9.20.13.6.) (REFER TO 35 NOTE AS REQUIRED)

3B BRICK VENEER WALL @ GARAGE CONSTRUCTION

3 1/2" (90) BRICK VENEER, MIN. 1" (25) AIR SPACE, 7/8"x7"x0.03" (22x180x0.76) GALV. METAL TIES @ 16" (400) O.C. HORIZ. 24" (600) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.20.9. ON APPROVED SHEATHING PAPER, 3/8" (9.5) EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C (9.23.10.1.) & SECTION 1.1., 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH, PROVIDE WEEP HOLES @ 32" (800) O.C. AT BOTTOM COURSE AND OVER OPENINGS, PROVIDE BASE FLASHING UP 6" (150) MIN. BEHIND BUILDING PAPER (9.20.13.6.) (REFER TO

INTERIOR STUD PARTITIONS (9.23.9.8., 9.23.10)

BEARING PARTITIONS SHALL BE A MINIMUM 2"x4" (38x89) @ 16" (406) O.C. FOR 2 TOREY AND 12" (305) O.C. FOR 3 STOREY, NON-BEARING PARTITIONS 2"x4" (38x89) 24" (610) O.C. PROVIDE 2"x4" (38x89) BOTTOM PLATE AND 2-2"x4" (2-38x89) TOP "LATE. 1/2" (12.7) INT. DRYWALL BOTH SIDES OF STUDS, PROVIDE 2"x6" (38x140) STUDS WHERE NOTED. PROVIDE 2"x4" (38x89) @ 24" (610) O.C. LADDER FRAMING WHERE WALLS INTERSECT PERPENDICULAR TO ONE ANOTHER. PROVIDE 2"x4" (38x89) WOOD BLOCKING ON FLAT @ 3'-11" (1194) O.C. MAX. BETWEEN FLOOR 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.)

4B EXT. LOFT WALL CONSTRUCTION (2*x6") NO CLADDING W/ CONTINUOUS INSULATION

APPROVED AIR/WATER BARRIER AS PER O.B.C. 9.27.3. ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S 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.)

FOUNDATION WALL/FOOTINGS

POURED CONC. FOUNDATION WALL 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 DAMPROUPED FROM THE 10P OF THE FOOTING TO FINISHED SHADE 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 9.15.3.4 (1),(2) OF THE O.B.C. (REFER TO CHART BELOW FOR RESPECTIVE SIZE). BRACE FOUNDATION WALL PRIOR TO BACKFILLING, ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OF 125kPa S.L.S. OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 125kPA S.L.S. IF SOIL BEARING DOES NOT MEET MINIMUM CAPACITY, NGINEERED 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.)								
픑	SS	MAX	. HEIGHT FROM	FIN. SLAB TO GR	ADE				
STRENGTH	THICKNESS	UNSUPPORTED	SI	JPPORTED AT TO)P				
SE	불	AT TOP	≤2.5m	>2.5m & ≤2.75m	>2.75m & ≤3.0m				
МРа	* 8"	3'-11" (1.20m)	7'-0" (2.15m)	7'-0" (2.15m)	6'-10" (2.10m)				
	10"	4'-7" (1.40m)	7'-6" (2.30m)	8'-6" (2.60m)	8'-2" (2.50m)				
15	12"	4'-11" (1.50m)	7'-6" (2.30m)	8'-6" (2.60m)	9'-3" (2.85m)				
МРа	* 8"	3'-11" (1.20m)	7'-6" (2.30m)	7'-6" (2.30m)	7'-2" (2.20m)				
ΙΞ	10"	4'-7" (1.40m)	7'-6" (2.30m)	8'-6" (2.60m)	9'-3" (2.85m)				
8	12"	4'-11" (1.50m)	7'-6" (2.30m)	8'-6" (2.60m)	9'-3" (2.85m)				

 \star 9" MIN. THICK FOUNDATION WALL IS REQUIRED FOR MASONRY VENEEI FINISHED EXTERIOR WALLS WITH CONTINUOUS INSULATION CONDITION TO PROVIDE MIN. BEARING FOR SILL PLATES, BEAMS AND FLOOR JOIST AS PER 9,23,7,2,, 9,23,8,1,, & 9,23,9,1, OF THE O.B.C.

5.26.7.2., 5.26.6.1., d 5.26.5.1. Of THE 6.5.6.						
MINIMUM STRIP FOOTING SIZES (9.15.3.) UNLESS NOTED OTHERWISE ON PLANS						
NUMBER FLOORS SUPPORTED	SUPPORTING INT. LOAD BEARING MASONRY WALLS	SUPPORTING EXTERIOR	SUPPORTING PARTYWALL			
1	16' WIDE x 6" THICK	16" WIDE x 6" THICK	16" WIDE x 6" THICK			
2	24' WIDE x 8" THICK	20" WIDE x 6" THICK	24" WIDE x 8" THICK			
3	36" WIDF x 14' THICK	26" WIDF x 9" THICK	36" WIDF x 14" 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.

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

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 3/4" (350) HIGH & NOT LESS THAN 3 1/2" (90) THICK (9.15.4.7(1))

BETWEEN WALL AND BRICK VENEER (9.15.4.7(2)(3) & 9.20.9.4(3))

WEEPING TILE (9.14.3.) 4" (100) Ø WEEPING TILE W/ FILTER CLOTH WRAP & 6" (152) CRUSHED STONE COVER

BASEMENT SLAB OR SLAB ON GRADE (9.16.4.) (9.13.) 3" (80) MIN. 25MPa (3600psi) CONC. SLAB ON 4" (100) COARSE GRANULAR FILL OR 20MPa (2900psi) CONC. WITH DAMPPROOFING BELOW SLAB. PROVIDE 1/2" (12.7) IMPERVIOUS BOARD FOR BOND BREAK AT FDGE, 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) & (6))

EXPOSED FLOOR TO EXTERIOR (9.10.17.10, & CAN/ULC-S705.2) PROVIDE SPRAY FOAM INSULATION BETWEEN CANT. JOIST AND INSTALL OSB CONFIRMING TO 9.29.9. FIN. SOFFIT OR CLADDING AS PER ELEVATION TO U/S OF

EXPOSED CANT. JOIST. 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. EXPOSED CEILING TO EXTERIOR W/o ATTIC

JOISTS/TRUSSES AS PER PLANS W/ 2"x2" (38x38) PURLINS @ 16" (406) O.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. (CAN/ULC-S705.2, 9.19.1, 9.10.17.10)

ı⊑ ⟨10⟩	<u>ALL</u>					AIRS (9.8	3.1.2., 9
)L \ /		MAX, RISE	MIN, F	RISE MAX. RUN	MIN. RUN	ALL STAR	RS .
Q.) —	PRIVATE	7 7/8" (200)	5" (12	25) 14° (355)	10" (255)	MAX, NOSING	1* (25)
	PUBLIC	7" (180)	5" (12	25) NO LIMIT	11" (280)	111 01, 11001110	. (444)
	MIN. STAIR WIDTH		TAPERED 1	READS			
	PRIVATE 2'-10		60)	MIN. RUN	5 7/8" (150)		
	FRIVATE	2-10 (0	00)	MIN. AVG. RUN	10 (255)		
	PUBLIC	2-11 (9	00)	MIN, RUN	5 7/8" (150)		
	LODEIC	L 11 (000)		MIN AVG RUN	11" (280)		

AVERAGE RUN OF TAPERED TREAD MEASURED AT A POINT 300mm FROM THE CENTERLINE AVERAGE AND OF TAPEHED THEAD MEASURED AT A POINT SOUTHINFORM THE CENTERL OF INSIDE HANDRAIL. (9.8.4.3.)

** HEIGHT OVER STAIRS (HEADROOM) IS MEASURED VERTICALLY ACROSS WIDTH OF STAIRS FROM A STRAIGHT LINE TO THE TREAD & LANDING NOSING TO LOWEST POINT ABOVE AND NOT LESS THAN 6'-5" (1950) FOR SINGLE DWELLING UNIT & 6'-8 3/4' (2050) FOR EVERYTHING ELSE. (9.8.2.2.)

REQUIRED LANDING IN GARAGE - O.B.C. 9.8.6.2.(3.)
FOR AN EXTERIOR STAIR SERVING A GARAGE W/ MORE THAN 3 RISERS.
GUARDS, HANDRAILS & STEPS AS PER CONSTRUCTION HEX NOTE 10 & 11.

GUARDS/RAILINGS (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.

INTERIOR GUARDS: 2-11" (900) MIN. EXTERIOR GUARDS: 2-11" (900) MIN. (LESS THAN 5'-11" (1800) TO GRADE) 3-6" (1070) MIN. (MORE THAN 5'-11" (1800) TO GRADE) GUARDS FOR EXIT STAIRS: 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/O EXTERIOR WALLS THAT IS 23 5/8" (600) OR MORE ABOVE ADJACENT SURFACE REQUIRES CONT. CURB MIN. 6" (150) HIGH, AND GUARD REQUIRED GUARDS

ETWEEN WALKING SURFACE & ADJACENT SURFACE WITH A DIFFERENCE IN ELEVATION MORE THAN 23 5/8" (600) OR ADJACENT SURFACE WITHIN 3'-11" (12 & WALKING SURFACE W/ A SLOPE MORE THAN 1 IN 12 SHALL BE PROTECTED WITH GUARDS PER CONSTRUCTION HEX NOTE 1: HANDRAIL HEIGHTS - O.B.C. 9.8.7. - REQUIRED AS PER 9.8.7.1.(3)
MIN. HEIGHT AT STAIRS, RAMP AND LANDINGS: 22-10" (826) MAX. HEIGHT AT STAIRS, RAMP AND LANDING: 3'-6" (1070)

SILL PLATES

2"x4" (38x89) SILL PLATE WITH 1/2" (12.7)Ø ANCHOR BOLTS 8" (200) LONG, EMBEDDED MIN. 4" (100) INTO CONC. @ 4-0" (1220) O.C., CAULKING OR GASKET BETWEEN PLATE AND TOP OF FOUNDATION WALL. USE NON-SHRINK GROUT TO LEVEL SILL PLATE WHEN REQUIRED (9.23.7.)

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.

BEARING STUD PARTITION IN BASEMENT (9.15.3.6., 9.23.10.1.) 2"x4" (38x89) STUDS @ 16" (406) O.C., 2"x4" (38x89) SILL PLATE (2"x6" (38x140) AS REQUIRED) ON DAMPPROOFING MATERIAL OR 2 mil POLYETHYLENE FILM, 1/2" (12.7) Ø ANCHOR BOLTS 8" (200) LONG, EMBEDDED 4" (100) MIN. INTO CONC. © 7'-10" (2390) O.C. 4" (100) HIGH CONC. CURB ON CONC. FOOTING, FOR SIZE REFER TO HEX NOTE 5. ADD HORIZ. BLOCKING AT MID-HEIGHT IF WALL IS UNFINISHED.

ADJUSTABLE STEEL BASEMENT COLUMN (9.15.3.4.) 9'-10" (3000) MAX. SPAN BETWEEN COLUMNS. 3 1/2" (90)Ø SINGLE TUBE ADJUSTABLE STEEL COLUMN CONFORMING TO CAN/CGSB-7.2M, AND WITH 6"x6"x3/8" (152x152x9.5) STEEL PLATE TOP & BOTTOM. FIELD WELD BASEMENT COLLIMN CONNECTION POLISED CONCRETE FOOTING ON NATURA UNDISTURBED SOIL OF 125KPA S.L.S. OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 125KPA S.L.S. AS PER SOILS REPORT.

SUPPORTING 2 STOREY FUR LOAD PROVIDE 34"x34"x16" (870x870x410) CONC. FOOTING SUPPORTING 3 STOREY FLR, LOAD PROVIDE 40"x40"x19" (1060x1060x480) CONC. FOOTI 15A) NON-ADJUSTABLE STEEL BASEMENT COLUMN
3 1/2" (90)Ø x 0.188" (4.78) NON-AD II ISTARI F STEEL COLLIMAN V 1/2" (90)Ø x 0.188" (4.78) NON-ADJUSTABLE STEEL COLUMN WITH 6"x6"x3/8" (152x152x9.5)

ANCHORS. FIELD WELD BASEMENT COLUMN CONNECTION. POURED CONCRETE FOOTING ON NATURAL UNDISTURBED SOIL OF 125KPA S.L.S. OR COMPACT ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 125KPA S.L.S. AS PER SOILS REPORT. SUPPORTING 2 STOREY FLR. LOAD PROVIDE 42"x42"x18" (1070x1070x460) CONC. FOOTING SUPPORTING 3 STOREY FLR. LOAD PROVIDE 48"x48"x24" (1220x1220x610) CONC. FOOTING

NON-ADJUSTABLE STL. COLUMN AT FOUNDATION WALL 3 1/0" (90)00 v 0 188" (4 79) NON AD 1107101 TO 12

3 1/2" (90)Ø x 0.188" (4.78) NON-ADJUSTABLE STEEL COLUMN WITH 6"x6"x3/8" (152x152x9.5) STEEL TOP PLATE & 6"x4"x3/8" (152x100x9.5) BOTTOM PLATE. BASE (2-12.7Øx305x50), FIELD WELD COLUMN TO BASE PLATE & STEEL BM.

STEEL BEAM BEARING AT FOUNDATION WALL (9.23.8.1.) BEAM POCKET OR 8"x8" (200x200) POURED CONC. NIB WALLS, MIN. BEARING 3 1/2" (90). CONC. NIB WALLS TO HAVE EXTENDED FOOTINGS

- WOOD STRAPPING AT STEEL BEAMS (9.23.4.3.(3.), 9.23.9.3.) 'x3" (19x64) CONTIN. WOOD STRAPPING BOTH SIDES OF STEEL BEAM.
- **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.
- (9) GARAGE TO HOUSE WALLS/CEILING (9.10.9.16.) (12.7) GYPSUM BOARD ON WALL AND CEILING BETWEEN HOUSE AND RAGE, PLUS REQUIRED INSULATION IN WALLS AND SPRAY FOAM FOR CEILINGS, TAPE AND SEAL ALL JOINTS GAS TIGHT, (9.10.17.10, CAN/ULC-S705,
- GARAGE TO HOUSE WALLS/CEILING W/ CONTIN. INSULATION 1/2" (12.7) GYPSUM BOARD ON CEILING AND ON WALLS INSTALLED OV EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICALLY EASTENED AS PER MANUEACTURER'S SPECIFICATIONS ON 3/8" EXTERIOR GRADE SHEATHING ON STUDS BETWEEN HOUSE AND GARAGE, PLU REQUIRED INSULATION IN WALLS & SPRAY FOAM FOR CEILINGS. TAPE AND SEAL ALL JOINTS GAS TIGHT. (9.10.9.16., 9.10.17.10, CAN/ULC-S705.2)

GARAGE DOOR TO HOUSE (9.10.9.16., 9.10.13.10., 9.10.13.15.) AS-PROOF DOOR AND FRAME. DOOR EQUIPPED WITH SELF CLOSING

EXTERIOR AND GARAGE STEPS

PRECAST CONC. STEP OR WOOD STEP WHERE NOT EXPOSED TO WEATHER MAX RISE 7 7/8" (200), MIN. TREAD 9 1/4" (235). 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

DRYER EXHAUST

CAPPED DRYER EXHAUST VENTED TO EXT. CONFORMING TO PART 6, OBC 9.32.

- **ATTIC ACCESS** (9.19.2.1.) ATTIC ACCESS HATCH WITH MIN. AREA OF 0.32m2 AND NO DIM. LESS THAN 21 1/2" (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 (RSI 3.52) ([SB-12] 3.1.1.8.(1))
- FIREPLACE CHIMNEYS (9.21.) 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 SURFACE WITHIN A HORIZ. DISTANCE OF 10'-0" (3048) FROM THE CHIMNEY.

LINEN CLOSET PROVIDE 4 SHELVES MIN. 14" (356) DEEP.

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.

PARTY WALL BEARING (9.23.8)

12"x12"x5/8" (305x305x15.9) STEEL PLATE FOR STEEL BEAMS AND 12"x12"x1/2" (305x305x12.7) STEEL PLATE FOR WOOD BEAMS BEARING (MIN. 3-1/2" (89)) ON CONC. BLOCK PARTY WALL, ANCHORED WITH 2-3/4" (2-19) x 8" (200) LONG GALV. ANCHORS WITHIN SOLID BLOCK COURSE. LEVEL W, NON-SHRINK GROUT. REFER TO NOTE SOLID BEARING (SECTION 3.0) FOR WD. STUD PARTY WALL.

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.)

- BUILT-UP WOOD POST AND FOOTING (9.17.4.1., 9.15.3.7.) 3-2'x6" (3-38x140) BUILT-UP WOOD POST (UNLESS OTHERWISE NOTED) ON METAL BASE SHOE ANCHORED TO CONC. WITH 1/2" (12.7) Ø BOLT, 24"x24"x12" (610x610x305) CONC. FOOTING OR AS PROVIDED ON PLAN. REFER TO NOTE 28
- **STEP FOOTINGS** (9.15.3.9.) MIN_HOBIZ_STEP = 23.5/8" (600) MAX_VERT_STEP = 23.5/8" (600)

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 PLACED NEAR MID-DEPTH OF SLAB. CONC. STRENGTH 32MPa (4640psi) WITH 5-8% AIR ENTRAINMENT ON

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. HRV INTAKE TO BE A MIN. OF 6'-0" (1830) FROM ALL EXHAUST TERMINALS. REFER TO GAS UTILIZATION CODE.

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.

FLOOR FRAMING (9.23, 3.5., 9.23, 9.4., 9.23, 14.) &G SUBFLOOR ON WOOD FLOOR JOISTS. FOR CERAMIC TILE APPLICATION SEE O.B.C. 9.30.6. ALL JOISTS WHERE REQUIRED TO BE BRIDGED WITH 2"x2" (38x38) CROSS BRACING OR SOLID 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. 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 WILL 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.

EXPOSED BUILDING FACE w/ LIMITING DISTANCE <= 3'-11" (1.20m) WALL ASSEMBLY CONTAINS INSULATION CONFORMING TO CANULC-S702 & HAVING A MASS OF NOT LESS THAN 1.22 KG/M2 OF WALL SURFACE AND 1/2" (12.7) TYPE X GYPSUM WALL BOARD INTERIOR FINISH. EXTERIOR CLADDING MUST BE NON-COMBUSTIBLE WHEN LIMITING DISTANCE IS 23 5/8" (0.60m) OR LESS. WALL ASSEMBLY REQUIRES TO HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 45 MINUTES & CONFORMING TO 0.B.C. (9.10.14. OR 9.10.15.). REFER TO DETAILS FOR TYPE & SPECS. ** AN OPENING IN AN EXPOSING BUILDING FACE NOT MORE THAN 0.55 MINUTES OF THAN 1.55 MINUTES OF THE THAN 1.55 MINUTES OF THAN 1.55 MINUTES OF THE THAN 1.55 MINUTES OF (130cm²) SHALL NOT BE CONSIDERED AN UNPROTECTED OPENING AS PER

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. REINF. WITH 10M BARS @ 7 7/8" (200) O.C. EACH DIRECTION, W/ 1 1/4" (32) 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.

RANGE HOODS AND RANGE-TOP FANS

COOKING APPLIANCE EXHAUST FANS VENTED TO EXTERIOR MUST CONFORM TO OBC 9.10.22, 9.32.3.9. & 9.32.3.10. **CONVENTIONAL ROOF FRAMING** (9.23.13., 9.23.15.) 2"x6" (38x140) RAFTERS @ 16" (406) O.C., 2"x8" (38x144) RIDGE BOARD.
2"x4" (38x89) COLLAR TIES AT MID-SPAN. CEILING JOISTS TO BE 2"x4" (38x89)
@ 16" (406) O.C. FOR MAX. 9-3" (2819) SPAN & 2"x6" (38x140) @ 16" (406)
O.C. FOR MAX. SPAN 14-7" (4450). RAFTERS FOR BUILT UP ROOF OVER
PRE-ENGINEERED ROOF TRUSSES AND OR CONVENTIONAL FRAMING TO
BE 2"x4" (38x89) @ 24" (610) O.C. UNLESS OTHERWISE SPECIFIED.

A. KONG 100184942 Oct. 11, 2022

FOR STRUCTURAL ONLY. EXCLUDING ENGINEERED ROOF TRUSS, FLOOR JOIST, AND FLOOR LVL BEAM DESIGN

cont. SECTION 1.0. CONSTRUCTION NOTES

TWO STOREY VOLUME SPACES (9.23.10.1., 9.23.11., 9.23.16.)

WALLA	JOLIVIDLI		WIND	LUADS		
EXTER I OR	STUDS	<= 0.5	kPA (q50)	> 0.5	kPa (q50)	
EXTERIOR	21002	SPACING	MAX HEIGHT	SPACING	MAX HEIGHT	
BRICK	2-2"x6" (2-38x140)	12" (305) O.C.	18'-4" (5588)	8" (200) O.C.	18'-4" (5588)	
SIDING	SPR.#2	16" (406) O.C.	18'-4" (5588)	12" (305) O.C.	18'-4" (5588)	
BRICK	2-2"x8" (2-38x184)	12" (305) O.C.	21'-0" (6400)	12" (305) O.C.	21'-0" (6400)	
SIDING	SPR.#2	16" (406) O.C.	21'-0" (6400)	16" (406) O.C.	21'-0" (6400)	
** STUD SIZE & SPACING TO BE VERIFIED BY STRUCTURAL ENGINEER **						

STUDS ARE TO BE CONTINUOUS. C/W 3/8" (9.5) THICK FXTERIOR PLYWOOD SHEATHING. PROVIDE SOLID WOOD BLOCKING BETWEEN WOOD STUDS @ 4-0" (1220) O.C. VERTICALLY.

- FOR HORIZ. DISTANCES LESS THAN 9'-6' (2896) PROVIDE 2"x6' (38x140) STUDS @ 16" (406) O.C. WITH CONTIN. 2-2"x6" (2-38x140) TOP PLATE + 1-2"x6" (1-38x140) BOTTOM PLATE & MIN. OF 3-2"x8" (3-38x184) CONT. HEADER AT GROUND FLOOR CEILING LEVEL TOE-NAILED & GLUED AT TOP, BOTTOM PLATES & HEADERS.

- 1 HR. PARTY WALL (CONC. BLOCK) ([SB-3] WALL TYPE 'B6e' & 'B1b') 1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"x2" (38x38) VERTICAL WD STRAPPING @ 24" (610) O.C. ON 8" (200) CONC. BLOCK FILL 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) WD. STRAPPING & 1/2" (12.7) GYPSUM SHEATHING.
- 1 HR. PARTY WALL (DOUBLE STUD) ([SB-3] WALL TYPE W13c') 5/8" (15.9) TYPE 'X' GYPSUM SHEATHING ON EXTERIOR SIDE OF 2 ROWS OF 2"x4" (38x89) STUDS @ 16" (406) O.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.
- 2 HR. FIREWALL ([SB-3] WALL TYPE 'B6e' & 'B1b') 1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"X2" (38x38) VERTICAL WOOD STRAPPING @ 24" (610) O.C ON 8" (200) CONC. BLOCK 75% SOLID. FILL 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 WITH 2 COATS OF PAINT. GYPSUM 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.I.F.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 WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)
- STUCCO WALL CONSTRUCTION (2"x6") W/ CONTIN. INSUL. STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 1 1/2" (38) E.I.F.S. (MINIMUM) ON APPROVED DRAINAGE MAT ON APPROVED AIR/WATER BARRIER AS PER O.E APPROVED DIAINAGE WITH ON APPROVED MINWELE BARRIER AS PER 0.5.0.
 9.27.3. ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICAL
 FASTENED AS PER MANUFACTURER'S SPECIFICATIONS, ON 7/16" EXTERIOR TY
 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 CONST. 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. O STUDS CONFORMING TO O.B.C (9.23.10.1.) & SECTION 1.1., 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REC WALLDOAND IN: FINISH, INCEPEN TO 35 NOTE AS A REQ.)
 **** FOR DWELLINGS USING CONTIN. INSULATION CONSTRUCTION,
 PROVIDE APPROVED DRAINAGE MAT ON 7/16" (11) EXTERIOR TYPE SHEATHING
 OVER FURRING (AS REQ.) AND STUDS IN LIEU OF 1 1/2" (38) E.F.I.S (MINIMUM)
 ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSGLASS GOLD GYPSUM BRD
- 42 UNSUPPORTED FOUNDATION WALLS (9.15.4.2.) REINFORCING AT STAIRS AND SUNKEN FLOOR AREAS
 2-20M BARS IN TOP PORTION OF WALL (UP TO 8-0" OPENING)
 3-20M BARS IN TOP PORTION OF WALL (8-0" TO 10-0" OPENING) 4-20M BARS IN TOP PORTION OF WALL (10'-0" TO 15'-0" OPENING)
 - BARS STACKED VERTICALLY AT INTERIOR FACE OF WALL @ 6" O.C. 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 ON EACH SIDE OF THE WINDOW OPENING. - BARS TO HAVE MIN. 1" (25) CONC. COVER - BARS TO EXTEND 2'-0" (610) BEYOND BOTH SIDES OF OPENING

STUD WALL REINFORCEMENT PROVIDE STUD WALL SE PROVIDE STUD WALL REINFORCEMENT IN MAIN BATHROOM CONFORMING TO O.B.C. (9.5.2.3.(1)) (REFER TO DETAILS)

WHERE A WINDOW OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT LESS THAN 21 5/8" (550) SHALL BE PROVIDED IN FRONT OF THE WINDOW. EVERY WINDOW WELL SHALL BE DRAINED TO THE FOOTING LEVEL OR OTHER SUITABLE LOCATION WITH A 4" (100) WEEPING TILE CW A FILTER CLOTH WRAP AND FILLED WITH CRUSHED STONE, (9.9.10.1,(5), 9.14.6.3.)

45 SLOPED CEILING CONSTRUCTION ([SB-12] 3.1.1.8., 9.23.4.2.) 2"x12" (38x286) ROOF JOISTS @ 16" (406) O.C. MAX. (UNLESS OTHERWISE NOTED) W/ 2"x2" (38x38) PURLINS @ 16" (406) O.C. PERPENDICULAR TO ROOF JOIST (PURLINS NOT REQ. W/ SPRAY FOAM), W/ INSULATION BETWEEN JOIST, 6 mil POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD IN FINISH OR APPROVED EQ. INSULATION VALUE DIRECTLY ABOVE THE INNER SURFACE OF EXTERIOR WALLS SHALL NOT BE LESS THAN R20 (3.52 RSI).

46 FLAT ROOF/BALCONY CONSTRUCTION

WATERPROOFING MEMBRANE (9.26.11, 9.26.15, 9.26.16) FULLY ADHERED TO 5 (15.9) T&G EXTERIOR GRADE PLYWOOD SHEATHING ON 2"x2" (38x38) PURLINS (38x184) FLOOR JOISTS @ 16" (406) O.C. (UNLESS OTHERWISE NOTED). BUILT CURB TO BE 4" (100) MIN. ABOVE FINISHED BALCONY FLOOR. CONTINUOUS 'L TRIM DRIP EDGE TO BE PROVIDED ON OUTSIDE FACE OF CURB. SCUPPER DR. TO BE LOCATED 24" (610) MIN. AWAY FROM HOUSE. PREFINISHED ALUMINUM PANEL FOR UNDERSIDE OF SOFFIT (9.23.2.3). REMOVE CURB WHERE REQ. BALCONY CONDITION

SEE FLAT ROOF/BALCONY CONSTRUCTION NOTE. INCLUDE 2"x4" (38x89) PT. DECKING W/ 1/4" (6.4) GAPS LAID FLAT PARALLEL TO JOISTS ON 2"x4" (38x89) PT. SLEEPERS @ 12" (305) O.C. LAID FLAT PERPENDICULAR TO JOISTS BALCONY OVER HEATED SPACE CONDITION

SEE FLAT ROOF/BALCONY CONSTRUCTION NOTE FOR ASSEMBLY. RFFFR TO PLANS FOR FLOOR JOIST SIZE & REFER TO HEX NOTE 9 FOR INSULATION AND

BARREL VAULT CONSTRUCTION

INDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN AND HA

DE TO BE A DESIGNER.

STRATION INFORMATION

HUNT DESIGN ASSOCIATES INC

Allan Whiting

CANTILEVERED 2"x4" (38x89) SPACERS LAID FLAT ON 2"x10" (38x235) SPR. #2 BOOF JOIST NAILED TO BUILT-UP 3-3/4" (19) PLYWOOD HEADER PROFILED FOR BARREL. SPRAY FOAM INSULATION BETWEEN JOISTS W/ GYPSUM BOARD. INTERIOR FIN. (REFER TO DETAILS)

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.

SECTION 1.1. WALL STUDS

REFER TO THIS CHART FOR STUD SIZE & SPACING AS REQUIRED FOR EXTERIOR WALLS ONLY. REFER TO SITING & GRADING PLAN OF THIS UNIT FOR CONFIRMATION OF TOP OF FOUNDATION WALL AND ADDITIONAL INFORMATION

- IF STUD WALL HEIGHT EXCEEDS MAX. UNSUPPORTED HEIGHT, WALL NEEDS TO BE REVIEWED AND APPROVED BY ENGINEER.

SIZE & SPACING OF STUDS: (OBC REFERENCE - TABLE 9.23.10.1.)								
MIN.		SUPPORTED LO	ADS (EXTER I OR)					
STUD SIZE,	ROOF w/ OR w/o ATT I C							
in (mm)	MAX. STUD SPACING, in (mm) O.C.							
()	MAX. UNSUPPORTED HGT., ft-in (m)							
2"x4"	24" (610)	16" (405)	12" (305)	N/A				
(38x89)	9'-10" (3.0)	9'-10" (3.0)	9'-10" (3.0)	N/A				
2"x6"	-	24" (610)	16" (406)	12" (305)				
(38x140)	-	9'-10" (3.0)	11'-10" (3.6)	5'-11" (1.8)				

SECTION 2.0. GENERAL NOTES

FPT WHERE A DOOR ON THE SAME FLOOR LEVEL AS THE BEDROOM PROVIDES IRECT ACCESS TO THE EXTERIOR, EVERY FLOOR LEVEL CONTAINING A BEDROOM I O HAVE AT LEAST ONE OUTSIDE WINDOW W/ MIN. 0.35m2 UNOBSTRUCTE PORTION W/ NO DIMENSION LESS THAN 1'-3" (380). CAPABLE OF MAINTAINING THE DPENING WITHOUT THE NEED FOR ADDITIONAL SUPPORT, CONFORMING TO 9.9.10.) WINDOW GUARDS: A GUARD OR A WINDOW WITH A MAXIMUM RESTRICTED ÓPENING WIDTH OF 4" (100) IS REQUIRED WHERE THE TOP OF THE WINDOW SILL IS LOCATED LESS THAN 1'-7" (480) ABOVE FIN. FLOOR AND THE DISTANCE FROM THE FINISHED FLOOR TO THE ADJACENT GRADE IS GREATER THAN 5'-11" (1800). (9.8.8.1.) 3) WINDOWS IN EXIT STAIRWAYS THAT EXTEND TO LESS THAN 2-11" (900) [3-6" (1070) FOR ALL OTHER BUILDINGS] SHALL BE PROTECTED BY GUARDS IN ACCORDANCE WITH NOTE #2 (ABOVE). OR THE WINDOW SHALL BE NON-OPERABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LOADS FOR BALCONY GUARDS AS PROVIDED IN 4.1.5.15 OR 9.8.8.2

4) REFER TO TITLE PAGE FOR MAX. U-VALUE REQUIREMENTS

2.2. CEILING HEIGHTS

THE CEILING HEIGHTS OF ROOMS AND SPACES SHALL CONFORM TO TABLE 9.5.3.1.						
ROOM OR SPACE	MINIMUM HEIGHTS					
LIVING ROOM, DINING ROOM AND KITCHEN	7'-7" OVER 75% OF REQUIRED FLOOR AREA WITH A CLEAR HEIGHT OF 6'-11" AT ANY POINT					
BEDROOM	7'-7" OVER 50% OF REQUIRED FLOOR AREA OR 6'-11" OVER ALL OF THE REQUIRED FLOOR AREA.					
BASEMENT	6-11" OVER AT LEAST 75% OF THE BASEMENT AREA EXCEPT THAT UNDER BEAMS AND DUCTS THE CLEARANCE IS PERMITTED TO BE REDUCED TO 6-5".					
BATHROOM, LAUNDRY AREA ABOVE GRADE	6'-11" IN ANY AREA WHERE A PERSON WOULD NORMALLY BE STANDING					
FINISHED ROOM NOT MENTIONED ABOVE	6-11"					
MEZZANINES	6'-11" ABOVE & BELOW FLOOR ASSEMBLY (9.5.3.2.)					
STORAGE GARAGE	6'-7" (9.5.3.3.)					
a a Marchanilla di Ariana Pina						

2.3. MECHANICAL / PLUMBING

1) MECHANICAL VENTILATION IS REQUIRED TO PROVIDE 0.7 AIR CHANGE PER HOUR IF NOT AIR CONDITIONED 1 PER HOUR IF AIR CONDITIONED AVERAGED OVER 24 OURS. WHEN A VENTILATION FAN (PRINCIPAL EXHAUST) IS REQUIRED, CONFORM O OBC 9.32.3.4. WHEN A HRV IS REQUIRED, CONFORM TO 9.32.3.11. REFER TO MECHANICAL DRAWINGS. 2) REFER TO HOT WATER TANK MANUFACTURER SPECS. CONFORM TO OBC 9.31.6.

3) REFER TO TITLE PAGE FOR SPACE HEATING EQUIPMENT, HRV AND DOMESTIC HOT WATER HEATER MINIMUM EFFICIENCIES. 4) DRAIN WATER HEAT RECOVERY UNIT(S) WILL BE INSTALLED CONFORMING TO THE REQUIREMENTS OF SB12 - 3.1.1.12. OF THE 0.B.C.

LUMBER SHALL BE SPRUCE No.2 GRADE OR BETTER, UNLESS NOTED OTHERWISE. 2) STUDS SHALL BE STUD GRADE SPRUCE, UNLESS NOTED OTHERWISE.

3) LUMBER EXPOSED TO THE EXTERIOR TO BE SPRUCE No. 2 GRADE PRESSURE TREATED OR CEDAR, UNLESS NOTED OTHERWISE. 4) ALL LAMINATED VENEER LUMBER (LVL) BEAMS, GIRDER TRUSSES, AND METAL HANGER CONNECTIONS SUPPORTING ROOF FRAMING TO BE DESIGNED & CERTIFIED BY FLOOR AND ROOF TRUSS MANUFACTURER. 5) JOIST HANGERS: PROVIDE APPROVED METAL HANGERS FOR ALL JOISTS AND BUILT-UP WOOD MEMBERS INTERSECTING WITH FLUSH BUILT-UP WOOD MEMBERS.

6) WOOD FRAMING NOT TREATED WITH A WOOD PRESERVATIVE, IN CONTACT WITH CONCRETE, SHALL BE SEPARATED FROM THE CONC. BY AT LEAST 2 mil POLYETHYLF FILM, No.50 (45lbs) ROLL ROOFING OR OTHER DAMPPROOFING MATERIAL, EXCEPT WHERE THE WOOD MEMBER IS AT LEAST 6" (152) ABOVE THE GROUND.

2.5. STEEL (9.23.4.3.)) STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA-G40-21 GRADE 350W. HOLLOW STRUCT. SECTIONS SHALL CONFORM TO CAN/CSA-G40-21 GRADE 350W CLASS "H". 2) REINFORCING STEEL SHALL CONFORM TO CSA-G30-18M GRADE 400R.

IGS SHALL BE 1'-0" (305). UNLESS NOTED OTHERWISE.

2.6. FLAT ARCHES1) FOR 8'-0" (2440) CEILINGS, FLAT ARCHES SHALL BE 6'-10" (2080) A.F.F. 2) FOR 9'-0" (2740) CEILINGS, FLAT ARCHES SHALL BE 7'-10" (2400) A.F.F.

3) FOR 10'-0" (3040) CEILINGS, FLAT ARCHES SHALL BE 8'-6" (2600) A.F.F. 2.7. ROOF OVERHANGS

2.8. FLASHING (9.20.13., 9.26.4. & 9.27.3. FLASHING MATERIALS & INSTALLATION SHALL CONFORM TO O.B.C.

) THE BUILDING SHALL BE LOCATED OR THE BUILDING SITE GRADED SO THE WATER WILL NOT ACCUMULATE AT OR NEAR THE BUILDING AND WILL NOT ADVERSELY AFFECT ADJACENT PROPERTIES. CONFORM TO 9.14.6.

2.10. ULC SPECIFIED ASSEMBLIES

2.10. OLC SPECIFIED ASSEMBLIES
ALL REQUIRED INDIVIDUAL COMPONENTS THAT FORM PART OF ANY 'ULC LISTED
ASSEMBLY', SPECIFIED WITHIN THESE DRAWNINGS, CANNOT BE ALTERED OR SUBSTITUTED
FOR ANY OTHER MATERIAL/PRODUCT OR SPECIFIED MANUFACTURER THAT IS IDENTIFIED
IN THAT 'SPECIFIED ULC LISTING'. THERE SHALL BE NO DEVIATIONS UNDER ANY CIRCUMSTANCES IN ANY 'ULC LISTED ASSEMBLY' IDENTIFIED IN THESE DRAWINGS.

SECTION 3.0. LEGEND

3.1. WOOD LINTELS AND BUILT-UP WOOD (DIVISION B PART 9. TABLES AS TO A10 AND A12, A15 & A16) FORMING PART OF SENTENCE, 9,23,4,2,(3), 9,23,4,2,(4), 9,23,12,3,(1),(3), 9,23,13,8,(2), 9,37,3,1

	3.2. STEEL LINTELS SUPPORTING MASONRY VENEER								
	LVL8	4-1 3/4"x9 1/2"	LVL9	4-1 3/4"x11 7/8"	LVL13	4-1 3/4"x14"			
	LVL5	3-1 3/4"x9 1/2"	LVL7	3-1 3/4"x11 7/8"	LVL12	3-1 3/4"x14"			
	LVL4	2-1 3/4"x9 1/2"	LVL6	2-1 3/4"x11 7/8"	LVL11	2-1 3/4"x14"			
	LVL2	1-1 3/4"x9 1/2"	LVL3	1-1 3/4"x11 7/8"	LVL10	1-1 3/4"x14"			
		1 3/4" x 9 1/2" LVL	1 3/4" x 11 7/8" LVL			1 3/4" x 14" LVL			
7		ENGINEERED LUMBER SCHEDULE - GRADE 2.0E (UNLESS NOTE OTHERWISE)							
	В7	5/2"x8" (5/38x184)	B8	5/2"x10" (5/38x235)	B9	5/2"x12" (5/38x286)			
	B2	4/2"x8" (4/38x184)	B4	4/2"x10" (4/38x235)	B6	4/2"x12" (4/38x286)			
'	B1	3/2"x8" (3/38x184)		B3 3/2"x10" (3/38x235)		3/2"x12" (3/38x286)			
,	L1	2/2"x8" (2/38x184)	L3	2/2"x10" (2/38x235)	L5	2/2"x12" (2/38x286)			
		2"x8" SPRUCE #2		2"x10" SPRUCE #2	2"x12" SPRUCE #2				

(DIVISION B PART 9. TABLE 9.20.5.2.B.)

1 011 WILLIAM OF SETTE 10E S.E.S.E.(E) & S.E.S.E.(O)						
CODE	SIZE	BRICK	STONE			
L7	3 1/2" x 3 1/2" x 1/4" (89 x 89 x 6.4)	8'-1" (2.47m)	7'-6" (2.30m)			
L8	4" x 3 1/2" x 1/4" (102 x 89 x 6.4)	8'-9" (2.66m)	8'-1" (2.48m)			
L9	4 7/8" x 3 1/2" x 5/16" (127 x 89 x 7.9)	10'-10" (3.31m)	10'-1" (3.03m)			
L10	4 7/8" x 3 1/2" x 3/8" (127 x 89 x 11)	11'-5" (3.48m)	10'-7" (3.24m)			
L11	5 7/8" x 3 1/2" x 3/8" (152 x 89 x 11)	12'-6" (3.82m)	11'-7" (3.54m)			
L12	7 1/8" x 4" x 3/8" (178 x 102 x 11)	14'-1" (4.30m)	13'-1" (3.99m)			

CONFORMING TO SECTIONS 9.5.11, 9.6., 9.7.2.1, 9.7.5.2, & 9.10.13.10 XTERIOR | 2'-8" x 6'-8" x 1-3/4" (815 x 2030 x 45) INSULATED MIN. R4 (RSI 0.7) EXTERIOR | 2'-10" x 6'-8" x 1-3/4" (865 x 2030 x 45) INSULATED MIN. R4 (RSI 0.7) EXTERIOR 3'-0" x 6'-8" x 1-3/4" (915 x 2030 x 45) INSULATED MIN. R4 (RSI 0.7) EXTERIOR | 2'-6" x 6'-8" x 1-3/4" (760 x 2030 x 45) INSULATED MIN. R4 (RSI 0.7) EXTERIOR | 2'-8" x 6'-8" x 1-3/4" (815 x 2030 x 45) INS. MIN. R4 (RSI 0.7) (SEE HEX NOTE 20 EXTERIOR 3'-0" x 8'-0" x 1-3/4" (915 x 2440 x 45) INSULATED MIN. R4 (RSI 0.7)

3.3. DOOR SCHEDULE

EXTERIOR | 2'-8" x 8'-0" x 1-3/4" (815 x 2440 x 45) INSULATED MIN. R4 (RSI 0.7) EXTERIOR | 2-8" x 6-8" x 1-3/4" (815 x 2030 x 45) 20 MIN. F.R.R. DOOR/FRAME WITH APP. SELF CLOSING DEVICE INTERIOR | 2'-6" x 6'-8" x 1-3/8" (760 x 2030 x 35) PROVIDE 8'-0" HIGH A | INTERIOR | 2'-4" x 6'-8" x 1-3/8" (710 x 2030 x 35) INTERIOR DOORS INTERIOR 2'-0" x 6'-8" x 1-3/8" (610 x 2030 x 35)

FOR ALL 10' CEILING CONDITIONS 4A | INTERIOR | 2'-2" x 6'-8" x 1-3/8" (660 x 2030 x 35) INTERIOR | 1'-6" x 6'-8" x 1-3/8" (460 x 2030 x 35) 3.4. ACRONYMS FE ABOVE FINISHED FLOOR JST JOIST

BG	FIXED GLASS W/ BLACK BACKING	LVL	LAMINATED VENEER LUMBER
BM	BEAM	OTB/A	OPEN TO BELOW/ABOVE
BBRM	BEAM BY ROOF MANUFACTURER	PL	POINT LOAD
CRF	CONVENTIONAL ROOF FRAMING	PLT	PLATE
C/W	COMPLETE WITH	PT	PRESSURE TREATED
DJ/TJ	DOUBLE JOIST/ TRIPLE JOIST	PTD	PAINTED
DO	DO OVER	PWD	POWDER ROOM
DRP	DROPPED	RWL	RAIN WATER LEADER
ENG	ENGINEERED	SB	SOLID BEARING WOOD POST
EST	ESTIMATED	SBFA	SB FROM ABOVE
FA	FLAT ARCH	SJ	SINGLE JOIST
FD	FLOOR DRAIN	SPR	SPRUCE
FG	FIXED GLASS	STL	STEEL
FL	FLUSH	T/O	TOP OF
FLR	FLOOR	TYP	TYPICAL
GT	GIRDER TRUSS	U/S	UNDERSIDE
НВ	HOSE BIB	WD	WOOD
HRV	HEAT RETURN VENTILATION UNIT	WIC	WALK IN CLOSET
HWT	HOT WATER TANK	WP	WEATHER PROOF

BFM | BEAM BY FLOOR MANUFACTURER | LIN | LINEN CLOSET

3.5. SYMBOLS

LL ELECTRICAL FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 9.34 CLASS 'B' VENT S EXHAUST VENT DUPLEX OUTLET (12" HIGH) DUPLEX OUTLET (HEIGHT AS NOTED A.F. HEAVY DUTY OUTLET → \(\frac{\frac}}{\frac{\frac{\frac{\frac{\frac}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}{\frac{\frac{\frac} LIGHT FIXTURE (CEILING MOUNTE POT LIGHT - LIGHT FIXTURE (WALL MOUNTED) CHANDELIER (CEILING MOUNTED

PROVIDE ONE PER FLOOR, NEAR THE STAIRS CONNECTING THE FLOOR LEVEL. ALARMS ARE TO BE INSTALLED IN EACH SLEEPING ROOM AND IN A LOCATION BETWEEN SLEEPING ROOMS AND CONNECTING HALLWAYS AND WIRED TO BE INTERCONNECTED D ACTIVATE ALL ALARMS IF ONE SOUNDS. ALARMS ARE TO BE CONNECTED TO AN LECTRICAL CIRCUIT AND WITH A BATTERY BACKUP. ALARM SIGNAL SHALL MEET IMPORAL SOUND PATTERNS MIN. ALARMS SHALL HAVE A VISUAL SIGNALLING

SMOKE ALARM (9.10.19.)

CENTRAL VACUUM OUTLET

"COMPONENT AS PER THE "NATIONAL FIRE ALARM AND SIGNALING CODE 72" CMD CARBON MONOXIDE ALARM (9.33.4.) CHECK LOCAL BY-LAWS FOR REQUIREMENTS ** A CARBON MONOXIDE ALARM(S CONFORMING TO CAN'CGA-6.19 SHALL BE INSTALLED ON OR NEAR THE CEILING IN EACH DWELLING UNIT ADJACENT TO EACH SLEEPING AREA. CARBON MONOXIDE ALARM(S) SHALL BE PERMANENTLY WIRED WITH NO DISCONNECT SWITCH, WITH AN ALARM THAT IS

AUDIBLE WITHIN SLEEPING ROOMS WHEN THE INTERVENING DOORS ARE CLOSED. SB SOLID BEARING (BUILT-UP WOOD COLUMNS AND STUD POSTS) THE WIDTH OF A WOOD COLUMN SHALL NOT BE LESS THAN THAN THE WIDTH OF SUPPORTED MEMBER. BUILT-UP WOOD COLUMNS SHALL BE NAILED TOGETHER WITH NOT LESS THAN 3" (76) NAILS SPACED NOT MORE THAN 11 3/4" (300) O.C. THE NUMBER OF STUDS IN A WALL DIRECTLY BELOW A GIRDER TRUSS OR ROOF BEAM SHALL CONFORM TO TABLES A-34 TO A-37. (9.17.4., 9.23.10.7.)

TWO STOREY VOLUME SPACE. SEE CONSTRUCTION NOTE 39.

VARYING PLATES, BUILT-OUT FLOORS, BEARING WALLS, ICE & WATER SHIELD

EXPOSED BUILDING FACE -O.B.C. 9.10.14. OR 9.10.15.
REFER TO HEX NOTE 35. & DETAILS FOR TYPE AND SPECIFICATIONS.

1 HR. PARTY WALL REFER TO HEX NOTE 40. 2 HR. FIREWALL REFER TO HEX NOTE 40A. **SECTION 4.0. CLIMATIC DATA**

DESIGN SNOW LOAD (9.4.2.2.) 1.01 **kPa** WIND PRESSURE (q50) (SB-1.2.): 0.44 **kPa**

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB. REPORT ANY DISCREPANCIES TO HUNT DESIGN ASSOCIATES INC. (H.D.A.I.) BEFORE PROCEEDING WITH THE WORK. ALL THE DRAWINGS & SPECIFICATIONS ARE THE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF H.D.A.I. ALL CONSTRUCTION TO ADHERE TO THESE PLANS AND SPECIFICATIONS AND TO CONFORM TO THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. THESE REQUIREMENTS ARE TO BE TAKEN AS MINIMUM SPECIFICATIONS, ONT. REG. 332/12. CONSTRUCTION NOTE REVISION DATE: **DECEMBER 15, 2021**

GOLDPARK HOMES - 221081 PINE VALLEY, PH.2 VAUGHAN ONT.

REV.2022.10.1

8966 Woodbine Ave, Markham, ON L3R 0J7 T 905.737.5133 F 905.737.7326

.IMc AW 3/16"=1'-0"

CONSTRUCTION NOTES

TIMBERLAND-5011MOD-LOT 69

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221081WS5011MOD-LOT 69

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