

# CONSTRUCTION NOTES (Unless otherwise noted)

ALL CONSTRUCTION TO ADHERE TO THESE PLANS AND SPEC'S 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. 332/12-2012 OBC.

## 1. ROOF CONSTRUCTION

NO.210 (10.25kg/m<sup>2</sup>) ASPHALT SHINGLES, 10mm (3/8") PLYWOOD SHEATHING WITH "H" CLIPS. APPROVED WOOD TRUSSES @ 610mm (24") O.C. MAX. APPROVED EAVES PROTECTION TO EXTEND 900mm (3'-0") FROM EDGE OF ROOF AND MIN. 300mm (12") BEYOND INNER FACE OF EXTERIOR WALL. EAVES PROTECTION NOT REQ'D FOR ROOF SLOPES 8:12 OR GREATER. 38x89 (2"x4") TRUSS BRACING @ 1830mm (6'-0") O.C. AT BOTTOM CHORD. PREPARE ALUM. FLASHING, FASMA, RAIL & VENTED SOFFIT. PROVIDE ICE & WATER SHIELD TO ALL ROOF/WALL JOINTS. PROVIDE ICE DAMMING. ROOF SHEATHING TO BE FASTENED 150 (6") c/c ALONG EDGES & INTERMEDIATE SUPPORTS WHEN TRUSSES SPACED GREATER THAN 405 (16"). ATTIC VENTILATION: 1:300 OF INSULATED CEILING AREA WITH MIN. 25% AT EAVES & MIN. 25% AT RIDGE (OBC 9.18.1.2).

## 2. FRAME WALL CONSTRUCTION (2"x6") (SB-12-TABLE 3.1.1.2.A)

SIDING AS PER ELEV., 19x38 (1"x2") VERTICAL WOOD FURRING, CONTIN. SHEATHING MEMBRANE, 11mm (7/16") EXT. TYPE SHEATHING OR OBC COMPLIANT EQUIVALENT, 38x140 (2"x6") STUDS @ 405mm (16") O.C., RSI 3.87 (R22) INSULATION AND APPR. VAPOUR BARRIER AND APPR. CONTIN. AIR BARRIER, 13mm (1/2") INT. DRYWALL FINISH. SIDING TO BE MIN. 200mm (8") ABOVE FINISH GRADE. REFER TO OBC SB-12, CHAPTER 3 FOR REQUIRED MINIMUM THERMAL INSULATION REQUIREMENTS. FRAME WALL CONSTRUCTION (2"x4") - GARAGE WALLS

## 2B. SIDING AS PER ELEV., 19x38 (1"x2") VERTICAL WOOD FURRING, CONTIN. SHEATHING MEMBRANE, 11mm (7/16") EXT. TYPE SHEATHING OR OBC COMPLIANT EQUIVALENT, 38x89 (2"x4") STUDS @ 405mm (16") O.C. (MAX. HEIGHT 3000mm (9'-10")) WITH APPR. DIAGONAL WALL BRACING. REFER TO NOTE 19 WHERE FLOOR EXISTS ABOVE GARAGE. SIDING TO BE MIN. 200mm (8") ABOVE FINISH GRADE.

## 2C. STUCCO WALL CONSTRUCTION (2"x6") (SB-12-TABLE 3.1.1.2.A)

STUCCO CLADDING SYSTEM CONFORMING TO O.B.C. 9.27.1.1.(2) & 9.28 THAT EMPLOY A MINIMUM 10mm AIR SPACE BEHIND THE CLADDING WITH POSITIVE DRAINAGE TO THE EXT. AND APPLIED PER MANUFACTURERS SPECIFICATIONS ON 25mm (1") MIN. EXTRUDED OR EXPANDED RIGID POLYSTYRENE ON APPR. AIR/MOISTURE BARRIER ON 38x89 (2"x4") STUDS @ 405 (16") O.C. (MAX. HEIGHT 3000mm (9'-10")), WITH APPR. DIAGONAL WALL BRACING. REFER TO NOTE 19 WHERE FLOOR EXISTS ABOVE GARAGE. STUCCO TO BE MIN. 200 (8") ABOVE FINISH GRADE.

## 2D. STUCCO WALL CONSTRUCTION (2"x4") - GARAGE WALLS

STUCCO CLADDING SYSTEM CONFORMING TO O.B.C. 9.27.1.1.(2) & 9.28 THAT EMPLOY A MINIMUM 10mm AIR SPACE BEHIND THE CLADDING WITH POSITIVE DRAINAGE TO THE EXT. AND APPLIED PER MANUFACTURERS SPECIFICATIONS ON 25mm (1") MIN. EXTRUDED OR EXPANDED RIGID POLYSTYRENE ON APPROVED AIR/MOISTURE BARRIER ON 38x89 (2"x4") STUDS @ 405 (16") O.C. (MAX. HEIGHT 3000mm (9'-10")), WITH APPR. DIAGONAL WALL BRACING. REFER TO NOTE 19 WHERE FLOOR EXISTS ABOVE GARAGE. STUCCO TO BE MIN. 200 (8") ABOVE FINISH GRADE.

## 2E. WALLS ADJACENT TO ATTIC - NO CLADDING

11mm (7/16") EXT. TYPE SHEATHING OR OBC COMPLIANT EQUIVALENT, 38x140 (2"x6") STUDS @ 405mm (16") O.C., RSI 3.87 (R22) INSULATION AND APPR. VAPOUR BARRIER AND APPR. CONTIN. AIR BARRIER, 13mm (1/2") INTERIOR DRYWALL FINISH. MID-HEIGHT BLOCKING REQ'D. IF NO SHEATHING APPLIED. REFER TO OBC SB-12, CHAPTER 3 FOR ADDITIONAL THERMAL INSULATION REQUIREMENTS.

## 3. BRICK VENEER CONSTRUCTION (2"x6") (SB-12-TABLE 3.1.1.2.A)

90mm (4") FACE BRICK, 25mm (1") AIR SPACE, 22x180x0.76mm (7/8"x7"x0.03") GALV. METAL TIES @ 405mm (16") O.C. HORIZONTAL 610mm (24") O.C. VERTICAL. APPROVED SHEATHING PAPER, 11mm (7/16") EXTERIOR TYPE SHEATHING OR OBC COMPLIANT EQUIVALENT, 38x140 (2"x6") STUDS @ 405mm (16") O.C., RSI 3.87 (R22) INSULATION AND APPROVED VAPOUR BARRIER WITH APPROVED CONTIN. AIR BARRIER, 13mm (1/2") INT. DRYWALL FINISH. PROVIDE VEEB HOLES @ 800mm (32") O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 150mm (6") BEHIND BUILDING PAPER. BRICK TO BE MIN. 150mm (6") ABOVE FINISH GRADE. REFER TO OBC SB-12, CHAPTER 3 FOR REQUIRED MINIMUM THERMAL INSULATION REQUIREMENTS.

## 3B. BRICK VENEER CONSTRUCTION (2"x4") - GARAGE WALLS

90mm (4") FACE BRICK, 25mm (1") AIR SPACE, 22x180x0.76mm (7/8"x7"x0.03") GALV. METAL TIES @ 405mm (16") O.C. HORIZONTAL 610mm (24") O.C. VERTICAL. APPROVED SHEATHING PAPER, 11mm (7/16") EXTERIOR TYPE SHEATHING OR OBC COMPLIANT EQUIVALENT, 38x89 (2"x4") STUDS @ 405mm (16") O.C. (MAX. HEIGHT 3000mm (9'-10")) WITH APPROVED DIAGONAL WALL BRACING. REFER TO NOTE 19 WHERE FLOOR EXISTS ABOVE GARAGE. PROVIDE VEEB HOLES @ 800mm (32") O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 150mm (6") BEHIND BUILDING PAPER. BRICK TO BE MIN. 150mm (6") ABOVE FINISH GRADE.

## 3C. STUCCO WALL CONSTRUCTION (2"x6") (SB-12-TABLE 3.1.1.2.A)

STUCCO CLADDING SYSTEM CONFORMING TO O.B.C. 9.27.1.1.(2) & 9.28 THAT EMPLOY A MINIMUM 10mm AIR SPACE BEHIND THE CLADDING WITH POSITIVE DRAINAGE TO THE EXT. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 25mm (1") MIN. EXTRUDED OR EXPANDED RIGID POLYSTYRENE ON APPR. CONTIN. AIR/MOISTURE BARRIER ON 38x140 (2"x6") STUDS @ 405mm (16") O.C., RSI 3.87 (R22) INSUL., APPR. 5 MIL. POLYETHYLENE VAPOUR BARRIER, 13mm (1/2") GYPSUM WALLBOARD INTERIOR FINISH. STUCCO TO BE MIN. 200 (8") ABOVE FINISH GRADE. REFER TO OBC SB-12, CHAPTER 3 FOR REQUIRED MINIMUM THERMAL INSULATION REQUIREMENTS.

## INTERIOR STUD PARTITIONS

FOR BEARING PARTITIONS 38x89 (2"x4") @ 405mm (16") O.C. FOR 2 STOREYS AND 305mm (12") O.C. FOR 3 STOREYS. NON-BEARING PARTITIONS 38x89 (2"x4") @ 610mm (24") O.C. PROVIDE 38x89 (2"x4") BOTTOM PLATE AND 2/38x89 (2"x4") TOP PLATE, 13mm (1/2") INT. DRYWALL BOTH SIDES OF STUDS, PROVIDE 38x140 (2"x6") STUDS/PLATES WHERE NOTED.

## 5. FOUNDATION WALL/FOOTINGS (9.15.3, 9.15.4, 9.23.2, 9.14.2.1.2.1)

200mm (8") POURED CONC. FDN. WALL 150Pa (120psi) WITH BITUMINOUS DAMPROOFING AND DRAINAGE LAYER. DRAINAGE LAYER REQ'D. WHEN BASEMENT INSUL. EXTENDS 900 (2'-11") BELOW FIN. GRADE. DRAINAGE LAYER IS NOT REQ'D. IF FOUNDATION WALL IS WATERPROOFED. MAXIMUM POUR HEIGHT 2380 (7'-10") ON 500x155 (20"x6") CONTINUOUS KEYED CONC. FTG. BRACE FDN. WALL PRIOR TO BACKFILLING. ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL.

## STRIP FOOTINGS - FOR TOWNHOUSES

FOR STRIP FOOTING SIZES REFER TO BLOCK FOUNDATION PLAN. ASSUMED 120 KPa (18 p.s.i.) SOIL BEARING CAPACITY FOR TOWNHOUSES, TO BE VERIFIED ON SITE.

-MAXIMUM FLOOR LIVE LOAD OF 2.4KPa (50psf.) PER FLOOR. -REFER TO SOILS REPORT FOR SOIL CONDITIONS AND BEARING CAPACITY.

## 6. FOUNDATION DRAINAGE OBC 9.14.2. & 9.14.3

100mm (4") DIA. FOUNDATION DRAINAGE TILE 150mm (6") CRUSHED STONE OVER AND AROUND DRAINAGE TILES.

## 7. BASEMENT SLAB OBC 9.1.1.6(1)(b), 9.16.4.5(1), 9.25.3.3(1)(b)

80mm (3") MIN. 25MPa (3600psi) CONC. SLAB ON 100mm (4") COARSE GRANULAR FILL OR 20MPa (3000psi) CONC. WITH DAMPROOFING BELOW SLAB. UNDER SLAB INSULATION PER SB-12, 3.1.1.7(5)(6) where required. ALL SLAB JOINTS & PENETRATIONS TO BE SEALED TO MAINTAIN AIR BARRIER.

## 8. WOOD SUBFLOORS (SEE OBC 9.23.14. & 9.30.2.1)

-19mm (3/4") MIN. T & G SUBFLOOR UNDER GROUND FLOOR FINISH FLOOR. 18mm (5/8") T&G SUBFLOOR UNDER SECOND FLOOR FINISH FLOOR. 16mm (5/8") PANEL-TYPE UNDERLAY FOR CERAMIC TILE APPLICATION. 6mm (1/4") PANEL-TYPE UNDERLAYMENT UNDER RESILIENT & PARQUET FLOORING.

## 9. ATTIC INSULATION (SB-12-TABLE 3.1.1.2.A) (SB-12-3.1.1.8)

RSI 10.56 (R60) BLOWN IN ROOF INSULATION AND APPROVED VAPOUR BARRIER, 16mm (5/8") INT. DRYWALL FINISH OR APPROVED EQUAL RSI 3.52 (R20) MIN. ABOVE INNER SURFACE OF EXTERIOR WALL.

## 10. ALL STAIRS/EXTERIOR STAIRS - OBC 9.8 -

UNIFORM RISE -5mm (1/4") MAX. BETWEEN ADJACENT TREADS OR LANDINGS -10mm (1/2") MAX. BETWEEN TALLEST & SHORTEST RISE IN FLIGHT

MAX. RISE = 200 (7'-7/8") MIN. RUN = 210 (8'-11/4") MIN. TREAD = 235 (9'-1/4") MAX. NOSING = 25 (1") MIN. HEADROOM = 1950 (6'-5") RAIL @ LANDING = 900 (2'-11") RAIL @ STAIR = 865 (2'-10") TO 965 (3'-2") MIN. STAIR WIDTH = 860 (2'-10")

## FOR CURVED STAIRS

MIN. RUN = 150 (6") MIN. AVG. RUN = 200 (8")

## HANDRAILS - OBC 9.8.7 -

FINISHED RAILING ON PICKETS SPACED MAXIMUM 100mm (4") BETWEEN PICKETS. CLEARANCE BETWEEN HANDRAIL AND SURFACE BEHIND IT TO BE 50 (2") MIN. HANDRAILS TO BE CONTINUOUS EXCEPT FOR NEWEL POST AT CHANGES OF DIRECTION.

## INTERIOR GUARDS - OBC 9.8.8 -

INTERIOR GUARDS: 900mm (2'-11") MIN. HIGH EXTERIOR GUARDS - OBC 9.8.8 900mm (36") HIGH GUARD WHERE DISTANCE FROM PORCH TO FIN. GRADE IS LESS THAN 1800mm (71"). 1070mm (42") HIGH GUARD IS REQUIRED WHERE DISTANCE EXCEEDS 1800mm (71").

## SILL PLATE ANCHORAGE

38x89 (2"x4") SILL PLATE WITH 13mm (1/2") DIA. ANCHOR BOLTS 200mm (8") LONG, EMBEDDED MIN. 100mm (4") INTO CONC. @ 2400mm (7'-10") O.C. CALKING OR 25 (1") MIN. MINERAL WOOL BETWEEN PLATE AND TOP OF FDN. WALL. USE NON-SHRINK GROUT TO LEVEL SILL PLATE WHEN REQUIRED.

## 13. BASEMENT INSULATION (SB-12-3.1.1.7), 9.25.2.3, 9.13.2.8)

FOUNDATION WALLS ENCLOSING HEATED SPACE SHALL BE INSULATED FROM THE UNDERSIDE OF THE SUBFLOOR TO NOT MORE THAN 200mm (8") ABOVE THE FINISHED FLOOR & NO CLOSER THAN 50mm (2") OF THE BASEMENT SLAB. RSI 3.52 (R20) BLANKET INSULATION TO HAVE APPROVED VAPOUR BARRIER. RECOMMENDED DAMPROOF WITH BUILDING PAPER BETWEEN THE FOUNDATION WALL AND INSULATION UP TO GRADE LEVEL. NOTE: FULL HEIGHT INSULATION AT COLD CELLAR WALLS. AIR BARRIER TO BE SEALED TO FOUNDATION WALL WITH CALKING. CONTINUOUS INSULATION (ci) IS NOT TO BE INTERRUPTED BY FRAMING.

## 14. BASEMENT BEARING STUD PARTITION

38x89 (2"x4") STUDS @ 405mm (16") O.C. 38x89 (2"x4") SILL PLATE ON DAMPROOFING MATERIAL, 13mm (1/2") DIA. ANCHOR BOLTS 200mm (8") LONG, EMBEDDED MIN. 100mm (4") INTO CONC. @ 2400mm (7'-10") O.C. FOOTING (4") HIGH CONC. CURB ON 305x155 (12"x6") CONC. FOOTING. ADD HORIZ. BLOCKING AT MID-HEIGHT IF WALL IS UNFINISHED.

## 15. STEEL BASEMENT COLUMN (SEE OBC 9.15.3.3)

89mm (3-1/2") DIA. x 4.78mm (0.188") STL. COL. WITH A MIN. CAPACITY OF 103.0kN (24,000lbs.) WITH 150x150x9.5 (6"x6"x3/8") STL. TOP & BOTTOM PLATE.

## 15A. STEEL COLUMN

90mm (3-1/2") DIA. x 4.78mm (0.188") STL. COL. WITH 100x100x6.0 (4"x4"x1/4") TOP & BOTTOM PLATES. FIELD WELD BOTTOM PLATE TO 100x250x12.5 (4"x10"x1/2") BASE PLATE C/W 2-12mm DIA. x 300mm LONG 50mm HOOK ANCHORS (2-1/2"x12"x2"). THE COLUMN TO STUD WALL WITH 2-32x3.175 (1-1/4"x1/8") STEEL STRAP WELDED TO COLUMN AND FASTENED TO STUD WITH 2-SDS 6.35x38 (1/4"x1 1/2") SCREWS MANUF. BY SIMPSON STRONG TIE.

## CONCRETE PILASTER

BEAM POCKET OR 200x200 (8"x8") POURED CONC. NIB WALLS. MIN. BEARING 90mm (3-1/2")

19x38 (1"x2") CONTINUOUS WOOD STRAPPING BOTH SIDES OF STEEL BEAM. (OBC 9.23.4.3(3c))

## 18. GARAGE SLAB

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

## INTERIOR GARAGE WALLS & CEILINGS (SB-12-TABLE 3.1.1.2.A)

13mm (1/2") GYPSUM BOARD ON WALL AND CEILING BETWEEN HOUSE AND GARAGE. RSI 3.87 (R22) IN WALLS, RSI 5.46 (R31) IN CEILING. TAPE AND SEAL ALL JOINTS AIRTIGHT PER O.B.C. 9.10.9.16. REFER TO SB-12, TABLE 3.1.1.2.A. FOR REQUIRED THERMAL INSULATION.

DOOR AND FRAME GASPROOFED. DOOR EQUIPPED WITH SELF CLOSING DEVICE AND WEATHERSTRIPPING PER OBC 9.10.13.15.

## EXTERIOR STEP

PRECAST CONCRETE STEP OR WOOD STEP WHERE NOT EXPOSED TO WEATHER. MAX. RISE 200mm (7-7/8") MIN. TREAD 250mm (9-27/32"). SEE OBC 9.8.9.2, 9.8.9.3, & 9.8.10

## 22. DRYER VENT (OBC 9.2.3.8(7) & 9.2.4.1.1)

CAPPED DRYER EXHAUST VENTED TO EXTERIOR. (USE 100mm (4") DIA. SMOOTH WALL VENT PFT).

## 23. INSULATED ATTIC ACCESS (OBC 9.19.2.1, & SB12-3.1.1.8)

ATTIC ACCESS HATCH WITH MIN. DIMENSION OF 545x700mm (21-1/2"x27-1/2") & A MIN. AREA OF 0.32 SQ.M. (3.44 SQ.FT.) WITH WEATHERSTRIPPING. RSI 3.52 (R20) RIGID INSULATION BACKING. SEE OBC SB-12, 3.1.1.8

## 24. FIREPLACE CHIMNEYS - OBC 9.21 -

TOP OF FIREPLACE CHIMNEY SHALL BE 915mm (3'-0") ABOVE THE HIGHEST POINT AT WHICH IT COMES IN CONTACT WITH THE ROOF AND 610mm (2'-0") ABOVE THE ROOF SURFACE WITHIN A HORIZ. DISTANCE OF 3050mm (10'-0") FROM THE CHIMNEY.

## 25. LINEN CLOSETS

4 SHELVES MIN. 350mm (14") DEEP.

## 26. MECHANICAL EXHAUST

MECHANICAL EXHAUST FAN VENTED TO EXTERIOR AS REQUIRED BY OBC 9.32.3.5, & 9.32.3.10.

## 27. STEEL BEARING PLATE FOR MASONRY WALLS

280x280x16 (11"x11"x5/8") STL. PLATE FOR STL. BEAMS AND 280x280x12 (11"x11"x1/2") STL. PLATE FOR WOOD BEAMS BEARING ON CONC. BLOCK PARTYWALL. ANCHORED WITH 2-19mm (3/4") x 200mm (8") LONG GALV. ANCHORS WITHIN SOLID BLOCK COURSE. LEVEL WITH NON-SHRINK GROUT.

## 27A. SOLID WOOD BEARING FOR WOOD STUD WALLS

SOLID BEARING TO BE AT LEAST AS WIDE AS THE SUPPORTED MEMBER. SOLID WOOD BEARING COMPRISED OF BUILT-UP WOOD STUDS TO BE CONSTRUCTED IN ACCORDANCE WITH OBC 9.17.4.2(2).

## 28. CLASS 'B' VENT

U.L.C. RATED CLASS 'B' VENT 610mm (2'-0") ABOVE THE POINT IN CONTACT WITH THE ROOF FOR SLOPES UP TO 9/12, REFER TO THE ONTARIO GAS UTILIZATION CODE.

## 29. BASEMENT WOOD POST (OBC 9.17.4)

3-38x140 (3-2"x6") BUILT-UP-POST ON METAL BASE SHOE ANCHORED TO CONC. WITH 12.7 DIA. BOLT. 406x406x203 (16"x16"x8") CONC. FTG. OR AS OTHERWISE SPECIFIED ON DRAWING.

## 30. STEPPED FOOTINGS (OBC 9.15.3.9)

MIN. HORIZ. STEP = 600mm (24") MAX. VERT. STEP = 600mm (24")

## 31. SLAB ON GRADE

MIN. 100mm (4") CONCRETE SLAB ON GRADE ON 100mm (4") COARSE GRANULAR FILL REINFORCED WITH 6x6-W2x9x2.9 WESH PLACED NEAR MID-DEPTH OF SLAB. CONC. STRENGTH 32 MPa (4640 psi) WITH 5-8% AIR ENTRAINMENT ON COMPACTED SUB-GRADE. UNDER SLAB INSULATION AS PER OBC SB-12, 3.1.1.7(5)(6) AND SB-12, TABLE 3.1.1.2.A. where required. ALL JOINTS & PENETRATIONS OF INTERIOR SLABS TO BE SEALED TO MAINTAIN AIR BARRIER.

## LOOSE STEEL LINTELS

L1 = 3-1/2" x 3-1/2" x 1/4" (90x90x6.0L)  
L2 = 4" x 3-1/2" x 5/16" (100x90x8.0L)  
L3 = 5" x 3-1/2" x 5/16" (125x90x8.0L)  
L4 = 6" x 3-1/2" x 3/8" (150x90x10.0L)  
L5 = 6" x 4" x 3/8" (150x100x10.0L)  
L6 = 7" x 4" x 3/8" (180x100x10.0L)

## LAMINATED VENEER LUMBER (LVL) BEAMS

LVL1A = 1-1 3/4" x 7 1/4" (1-45x184)  
LVL1 = 2-1 3/4" x 7 1/4" (2-45x184)  
LVL2 = 3-1 3/4" x 7 1/4" (3-45x184)  
LVL3 = 4-1 3/4" x 7 1/4" (4-45x184)  
LVL4A = 1-1 3/4" x 9 1/4" (1-45x235)  
LVL4 = 2-1 3/4" x 9 1/4" (2-45x235)  
LVL5 = 3-1 3/4" x 9 1/4" (3-45x235)  
LVL5A = 4-1 3/4" x 9 1/4" (4-45x235)  
LVL6A = 1-1 3/4" x 11 7/8" (1-45x300)  
LVL6 = 2-1 3/4" x 11 7/8" (2-45x300)  
LVL7 = 3-1 3/4" x 11 7/8" (3-45x300)  
LVL7A = 4-1 3/4" x 11 7/8" (4-45x300)  
LVL8 = 2-1 3/4" x 14" (2-45x356)  
LVL9 = 3-1 3/4" x 14" (3-45x356)

## BRICK VENEER LINTELS

WL1 = 3-1/2" x 3-1/2" x 1/4" (89x89x6.4L)  
WL2 = 4" x 3-1/2" x 5/16" (102x89x7.9L)  
WL3 = 5" x 3-1/2" x 5/16" (127x89x7.9L)  
WL4 = 6" x 3-1/2" x 7/16" (152x89x11.0L)  
WL5 = 6" x 4" x 7/16" (152x102x11.0L)  
WL6 = 3-1/2" x 5/16" (127x89x7.9L)  
WL7 = 5" x 3-1/2" x 5/16" (127x89x7.9L)  
WL8 = 5" x 3-1/2" x 5/16" (127x89x7.9L)  
WL9 = 6" x 4" x 7/16" (152x102x11.0L)

## DIRECT VENTING GAS FURNACE VENT

DIRECT VENT FURNACE TERMINAL MIN. 900mm (36") FROM A GAS REGULATOR. MIN. 300mm (12") ABOVE FIN. GRADE. FROM ALL OPENINGS, EXHAUST AND INTAKE VENTS. HRV INTAKE TO BE A MIN. OF 1830mm (6'-0") FROM ALL EXHAUST TERMINALS. REFER TO GAS UTILIZATION CODE. ALL AIR INTAKES SHALL BE LOCATED SO THAT THEY ARE SEPARATED FROM KITCHEN EXHAUST BY 3.0M IN COMPLIANCE WITH O.B.C. DIV.-B TABLE 6.2.3.12.

## DIRECT VENTING GAS FIREPLACE VENT

DIRECT VENT GAS FIREPLACE. VENT TO BE A MINIMUM 300mm (12") FROM ANY OPENING AND ABOVE FIN. GRADE. REFER TO GAS UTILIZATION CODE.

## 34. JOIST STRAPPING AND BRIDGING (SEE OBC 9.23.9.4)

16mm (5/8") T & G SUBFLOOR ON WOOD FLOOR JOISTS. FOR CERAMIC TILE APPLICATION (\* SEE OBC 9.30.6, 6") 6mm (1/4") PANEL TYPE UNDERLAY UNDER RESILIENT & PARQUET FLOORING. (\* SEE OBC 9.30.2.4)

FLOOR JOISTS WITH SPANS OVER 2100mm (6'-11") TO BE BRIDGED WITH 38x38 (2"x2") CROSS BRACING OR SOLID BLOCKING @ 2100mm (6'-11") O.C. MAX. AND WHERE SPECIFIED BY JOIST TABLES A-1 OR A-2 STRAPPING SHALL BE 19x64 (1"x3") @ 2100mm (6'-11") O.C. UNLESS A PANEL TYPE CEILING FINISH IS APPLIED. (\* SEE OBC 9.23.9.4, \*)

## 35. EXPOSED BUILDING FACE - OBC 9.10.15

EXTERIOR WALLS TO HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 45 min. WHERE LIMITING DISTANCE (LD) IS LESS THAN 1.2M (3'-11") WHERE THE LD IS LESS THAN 600mm (1'-11") THE EXPOSING FACE SHALL BE CLAD IN NON-COMBUSTIBLE MATERIAL. SEE ELEVATIONS FOR ADDITIONAL NOTES.

## COLD CELLAR PORCH SLAB (OBC 9.39)

FOR MAX. 2500 mm (8'-2") PORCH DEPTH (SHORTEST DIM.), 125mm (4 7/8") 32MPa (4640psi) CONC. SLAB WITH 5-8% AIR ENTRAINMENT. REIN. WITH 10M BARS @ 230mm (7 7/8") O.C. EACH WAY IN BOTTOM THIRD OF SLAB, 600x600 (23 5/8" x 23 5/8") 10M DOVELS @ 600mm (23 5/8") O.C. ANCHORED IN PERIMETER FDN. WALLS. SLOPE SLAB MIN. 1.0% FROM DOOR. SLAB TO HAVE MIN 75mm (3") BEARING ON FDN. WALLS. PROVIDE (1) LINTELS OVER CELLAR DOOR AND WITH 100mm (4") END BEARING.

## 37. BRICK CHECK

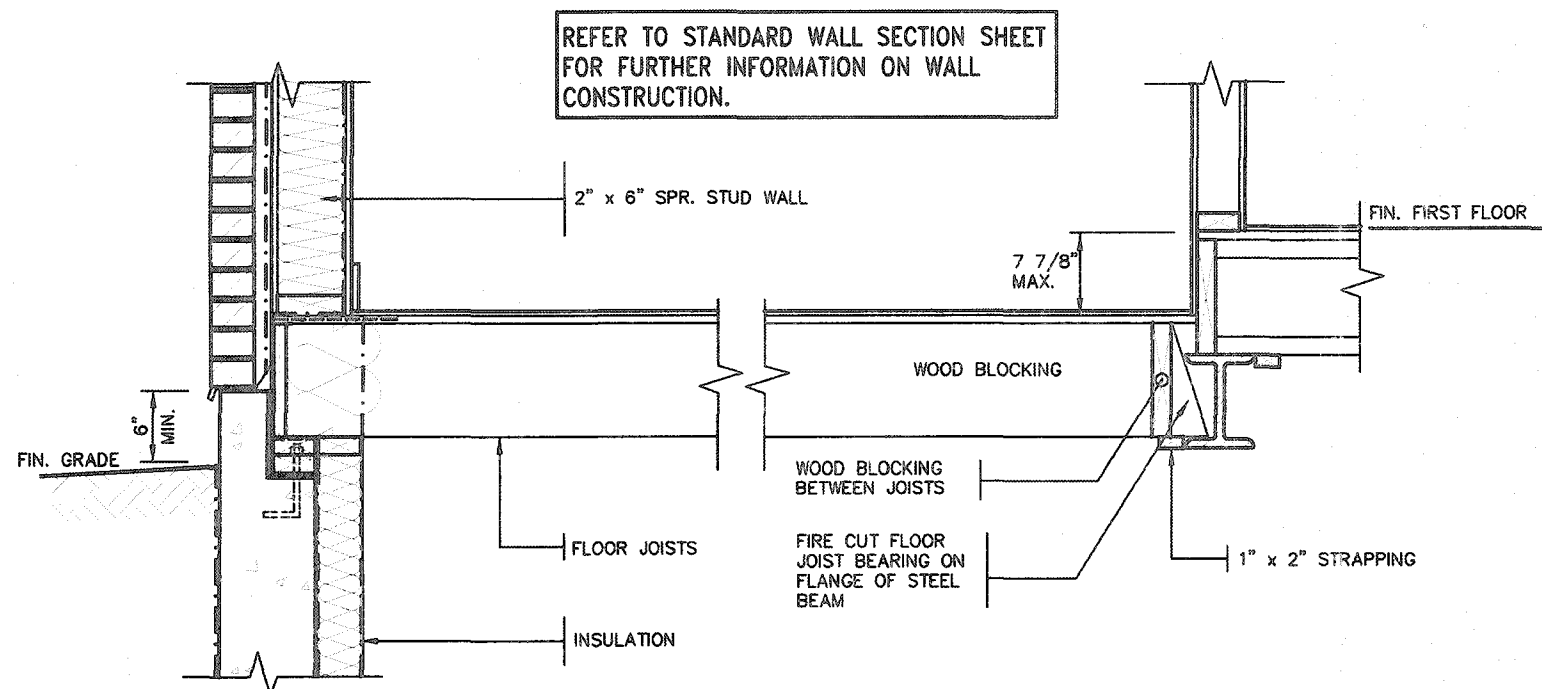
THE FDN. WALL SHALL NOT BE REDUCED TO LESS THAN 90mm (3-1/2") THICK TO A MAX. DEPTH OF 600mm (24") AND SHALL BE TIED TO THE FACING MATERIAL WITH METAL TIES SPACED 200mm (8") O.C. VERTICALLY AND 900mm (36") O.C. HORIZONTALLY. FILL SPACE BETWEEN WALL AND FACING SOLID WITH MORTAR.

## CONVENTIONAL ROOF FRAMING (2.0KPa SNOW LOAD)

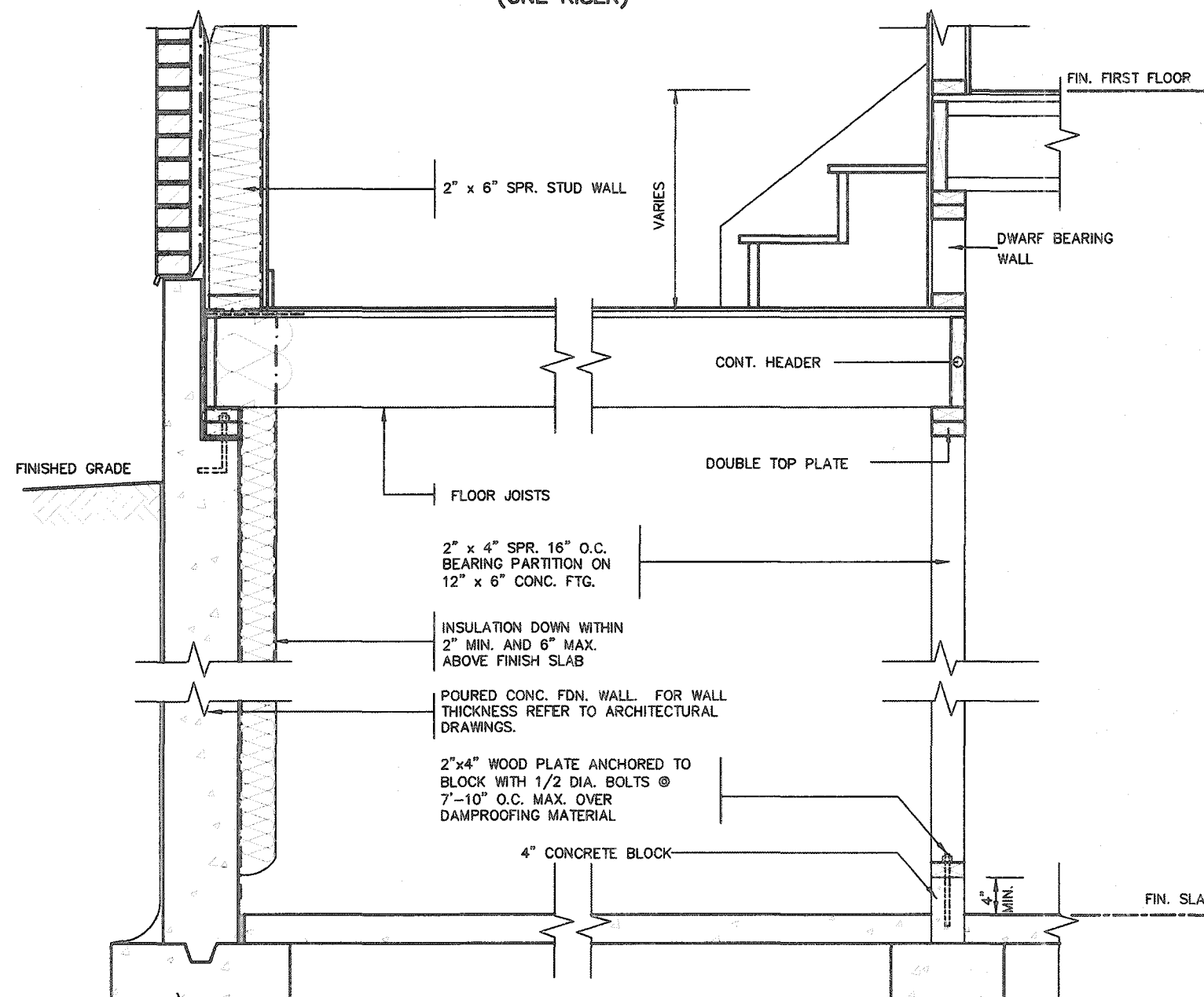
38x140 (2"x6") RAFTERS @ 405mm (16") O.C. FOR MAX 11'-7" SPAN, 38x184 (2"x6") RIDGE BOARD, 38x89 (2"x4") COLLAR TIES AT MIDSPANS. CEILING JOISTS TO BE 38x89 (2"x4") @ 405mm (16") O.C. FOR MAX. 2830mm (9'-3") SPAN & 38x140 (2"x6") @ 405 (16") O.C. FOR MAX. 4450mm (14'-7") SPAN. RAFTERS FOR BUILT-UP ROOF TO BE 38x89 (2"x4") @ 610mm (24") O.C. WITH A 38x89 (2"x4") CENTRE POST TO THE TRUSS BELOW, LATERALLY BRACED @ 1800mm (6'-0") O.C. VERTICALLY.

## TWO STOREY VOLUME SPACES

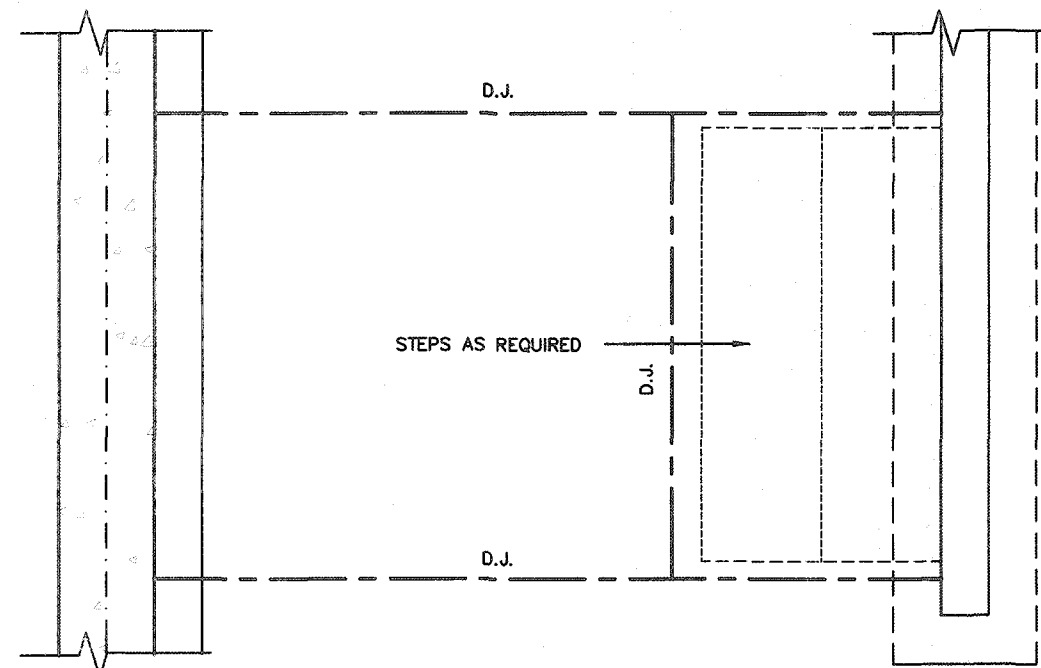
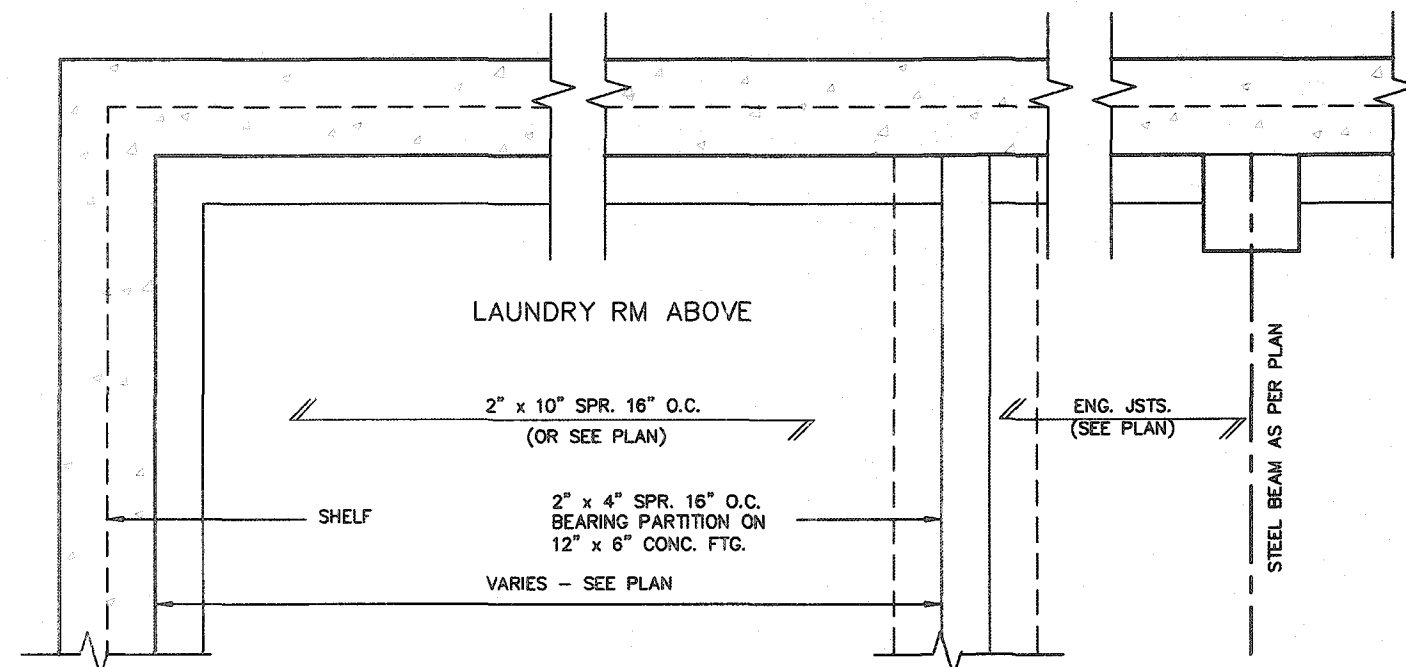
FOR A MAXIMUM 5490 mm (18'-0") HEIGHT AND MAXIMUM SUPPORTED ROOF TRUSS LENGTH OF 6.0m, PROVIDE 2-38x140 (2-2"x6") SPR-#2 CONTIN. STUDS @ 305mm (12") O.C. (TRIPLE UP AT EVERY THIRD DOUBLE STUD FOR BRICK WALLS) C/W 9.6 (3/8") THICK EXT. PLYWOOD SHEATHING. PROVIDE SOLID WOOD BLOCKING BETWEEN WOOD STUDS @ 1220 mm (4'-0") O.C. VERTICALLY. -FOR WALLS WITH HORIZ. DISTANCES NOT EXCEEDING 2



DETAIL OF SUNKEN LAUNDRY/ENTRY  
(ONE RISER)



DETAIL OF SUNKEN LAUNDRY/ENTRY  
(MORE THAN ONE RISER)



PARTIAL FOUNDATION PLAN

CITY OF HAMILTON  
Building Division

Permit No. **21-105985**

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These drawings and/or specifications have been reviewed by

**FEB 23/21**  
FOR CHIEF BUILDING OFFICIAL DATE



FOR STRUCTURE ONLY

2012 CODE  
COMPLIANCE PACKAGE A1

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1	ISSUED FOR PERMIT.	APR 13/20	GW		
no.	description	date	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

Richard Vink 24488

signature

name

registration information

VAS Design Inc. 42658

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**VAS**  
DESIGN

255 Consumers Rd Suite 120  
Toronto ON M2J 1R4  
t 416.630.2255 f 416.630.4782  
vasdesign.com

**Greenpark**

project name  
**RUSSELL GARDENS PH. 3**

location  
**WATERDOWN**

date  
**APRIL 2020**

drawn by  
**GW**

checked by  
**-**

scale  
**Not to Scale**

title  
**SUNKEN FLOOR DETAILS**

file name  
**19014-GP-STD\_DETAILS\_A1**

drawing no.  
**2**

**SINGLES**

project no.  
**19014**







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9	-	-	-	qualification information		
8	-	-	-	Richard Vink <i>R Vink</i> signature	24468	
7	-	-	-	name registration information	BDR	
6	-	-	-	VAS Design Inc.	42658	
5	-	-	-	Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be scaled.		
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3	-	-	-			
2	-	-	-			
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no.	description	date	by			

**VA3 DESIGN**

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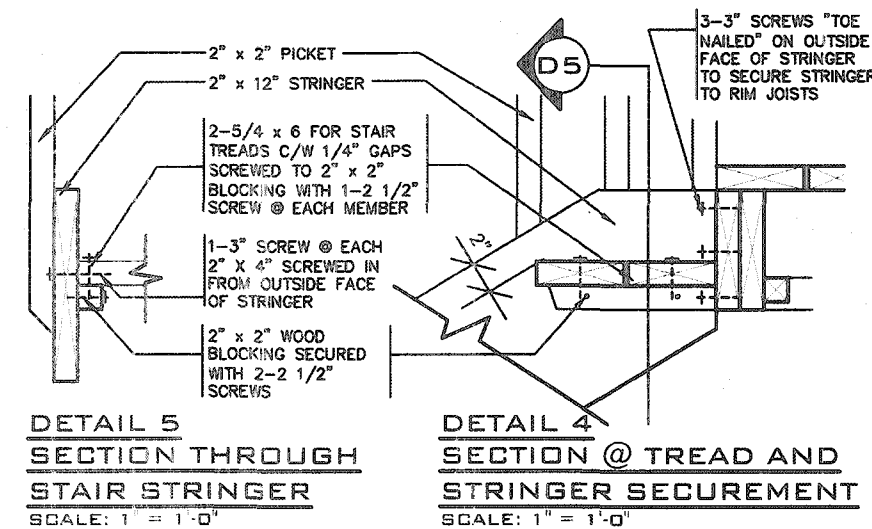
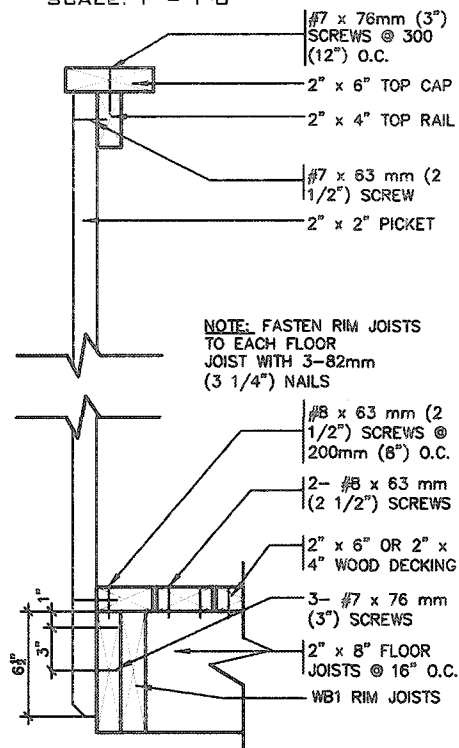
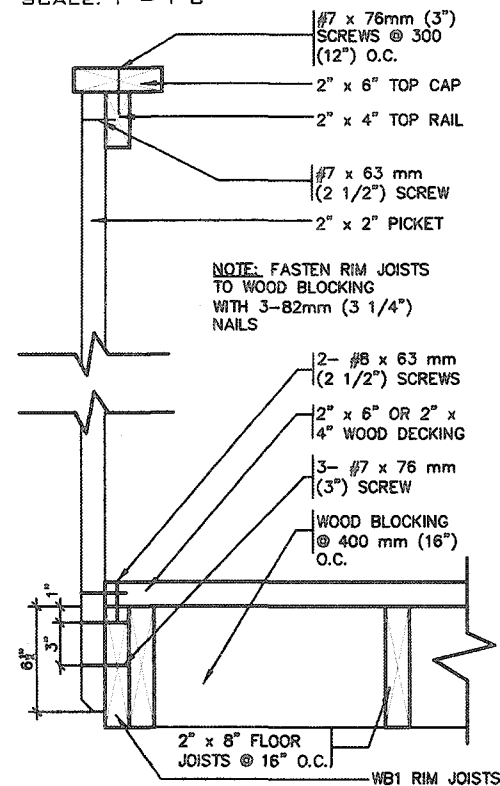
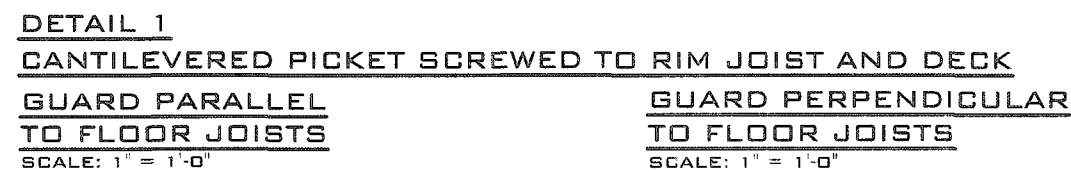
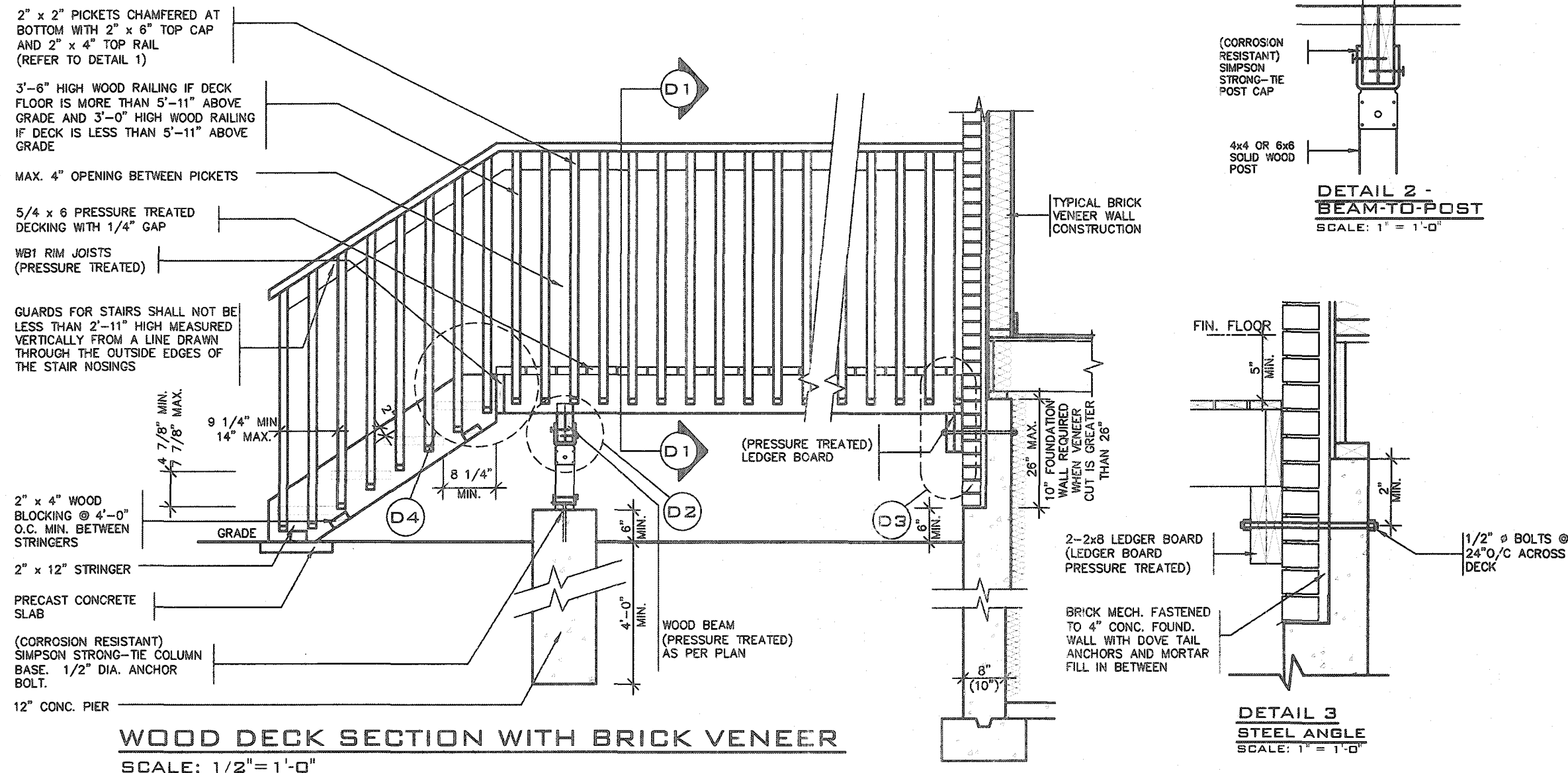
## Greenpark™ SINGLES

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project name	municipality	drawing no.
RUSSELL GARDENS PH. 3	WATERDOWN	19014
<hr/>		
date APRIL 2020	steel column details	drawing no.
drawn by GW	checked by As Shown	title number
		19014-GP-STD DETAILS_A1

DRAWN BY: GW = Drawing Office Engineer, 19014-GP-VAR-CURTAIN WALLS, 19014-GP-STD DETAILS, 1 Apr - Tue + Apr 14 2020 - 4:35 AM

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- ## GENERAL NOTES

1. BRICK TO HAVE COMPRESSIVE STRENGTH OG 15mPa (2200 p.s.i) MIN.UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
2. MORTAR TO BE TYPE 'S' WITH JOINT THICKNESS OF 10mm (3/8") MIN. AND 20mm (3/4") MAX.
3. THE DECK HAS BEEN DESIGNED TO SAFELY SUPPORT A SUPERIMPOSED LOAD OF 1.9kPa. [40psf].
4. ALL NAILS AND SCREWS TO BE GALVANIZED.
5. WOOD FOR CANTILEVERED PICKETS SHALL BE DOUGLAS FIR-LARCH, SPRUCE-PINE-FIR, OR HEM-FIR SPECIES.
6. CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 20MPa. AT 28 DAYS AND 5-8% AIR ENTRAINED.
7. FOOTING TO BE PLACED ON UNDISTURBED SOIL WITH MINIMUM BEARING PRESSURE OF 150kPa [3130psf].
8. WB1= 2- 2"x8" (PRESSURE TREATED)  
WB3= 2- 2"x10" (PRESSURE TREATED)






Permit No. 21-105985

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8				qualification information	
7				Richard Vink	24488
6				<i>R Vink</i> signature	
5				name registration information	500
4				VAS Design Inc.	42658
3				Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be copied.	
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no.	description	date	by		



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**SINGLES**

project name <b>RUSSELL GARDENS PH. 3</b>	municipality <b>WATERDOWN</b>	project no. <b>19014</b>
date <b>APRIL 2020</b>	drawing no. <b>WOOD DECK PLANS</b>	
drawn by <b>GW</b>	checked by <b>-</b>	scale <b>As Shown</b>
		file name <b>19014-GP-STD_DETAILS_A1</b>

APR 13/20 10:41 AM C:\Users\mcmahm\Desktop\19014-GP-STD\GREENPARK\WOOD\DETAILS\19014-GP-STD\_DETAILS\_A1.dwg - User - Apr 13/2020 - 4:38 PM

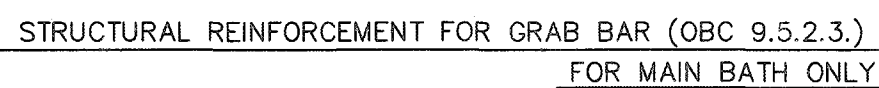
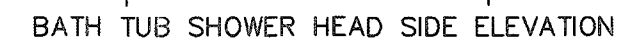
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CITY OF HAMILTON  
Building Division

STRUDET INC.

REGISTERED PROFESSIONAL ENGINEER  
B. MARINKOVIC  
APRIL 15, 2020  
PROVINCE OF ONTARIO

Permit No. 21-105985

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[Signature] FEB 23/21

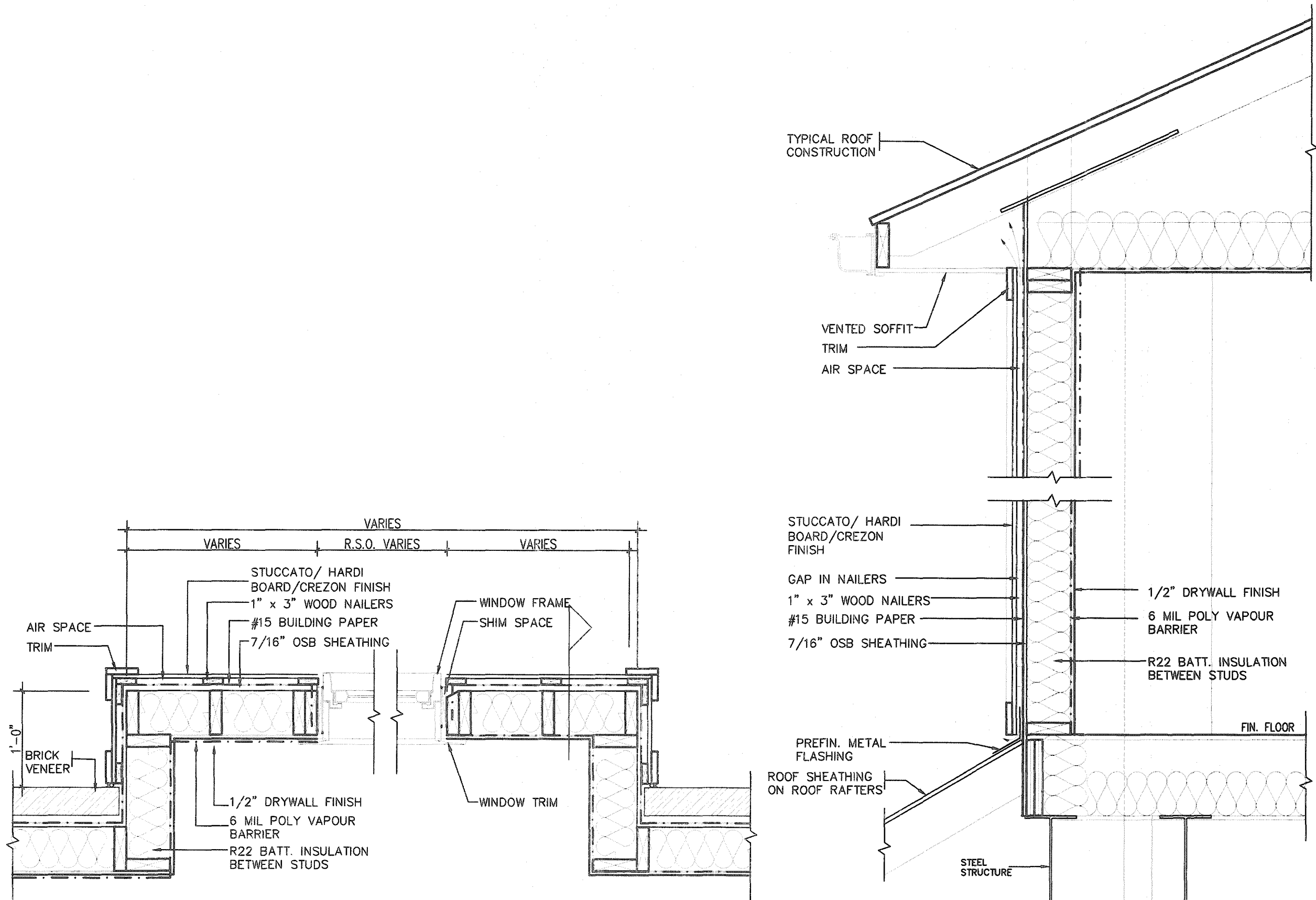
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PLAN VIEW

CROSS SECTION CITY OF HAMILTON Building Division

STUCCATO BOARD FINISH CLADDING OR EQUAL (OBC 9.27.)



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TYPICAL BASEMENT PLAN

## WALK OUT BASEMENT CONDITION

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Permit No. 21-105995

SLAB ON GRADE


WALK OUT BASEMENT

# OUT BASEMENT 2012 CODE COMPLIANCE PACKAGE

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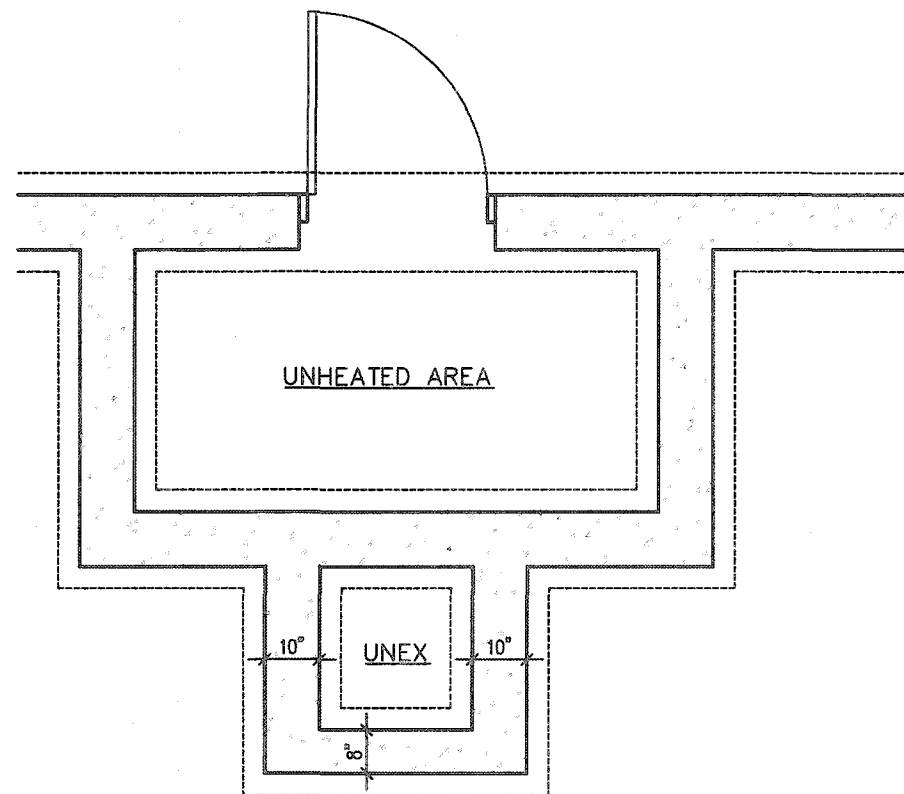
<p>The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.</p>			
<p>qualification information</p>	<p><i>R. Vink</i></p>		
<p>Richard Vink</p>	<p>signature</p>		<p>24</p>
<p>name</p>			
<p>registration information</p>			
<p>VA3 Design Inc.</p>			<p>42</p>
<p>Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the project. Drawings are not to be copied.</p>			

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**DESIGN**  
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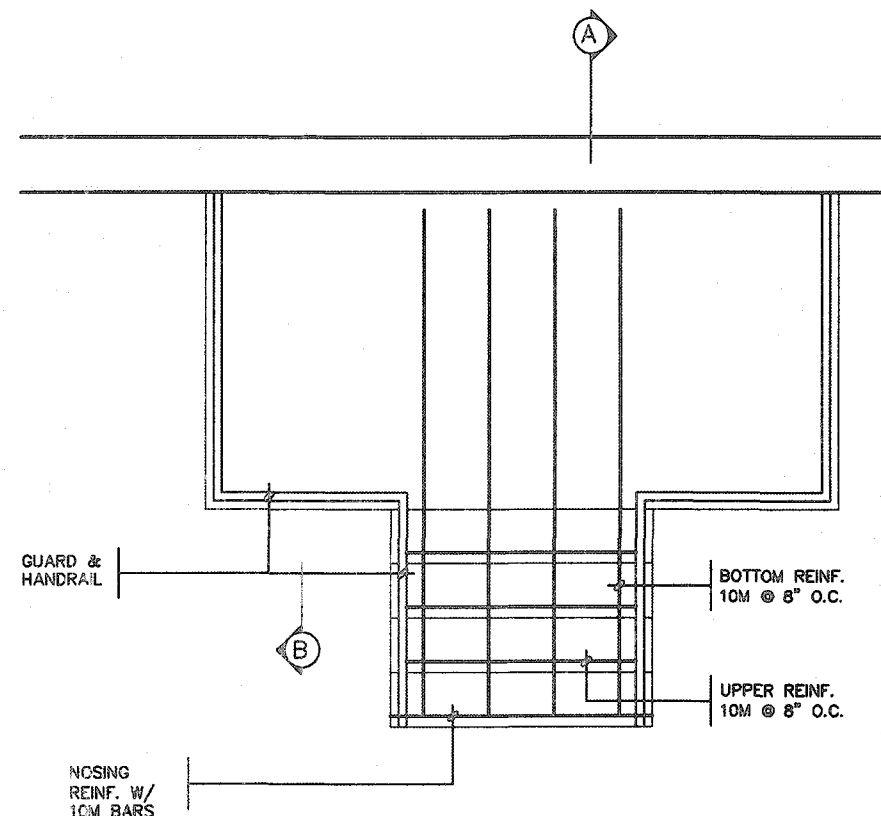
 <b>Greenpark™</b>		<b>SINGLES</b> -	
project name <b>RUSSELL GARDENS PH. 3</b>	municipality <b>WATERDOWN</b>	project no. <b>19014</b>	
date <b>APRIL 2020</b>		drawing no. <b>10</b>	
slab on grade insulation <b>GW</b>		title name <b>19014-GP-STD_DETAILS_A1</b>	
drawn by <b>GW</b>	checked by -	scale <b>Not to Scale</b>	file name <b>19014-GP-STD_DETAILS_A1</b>

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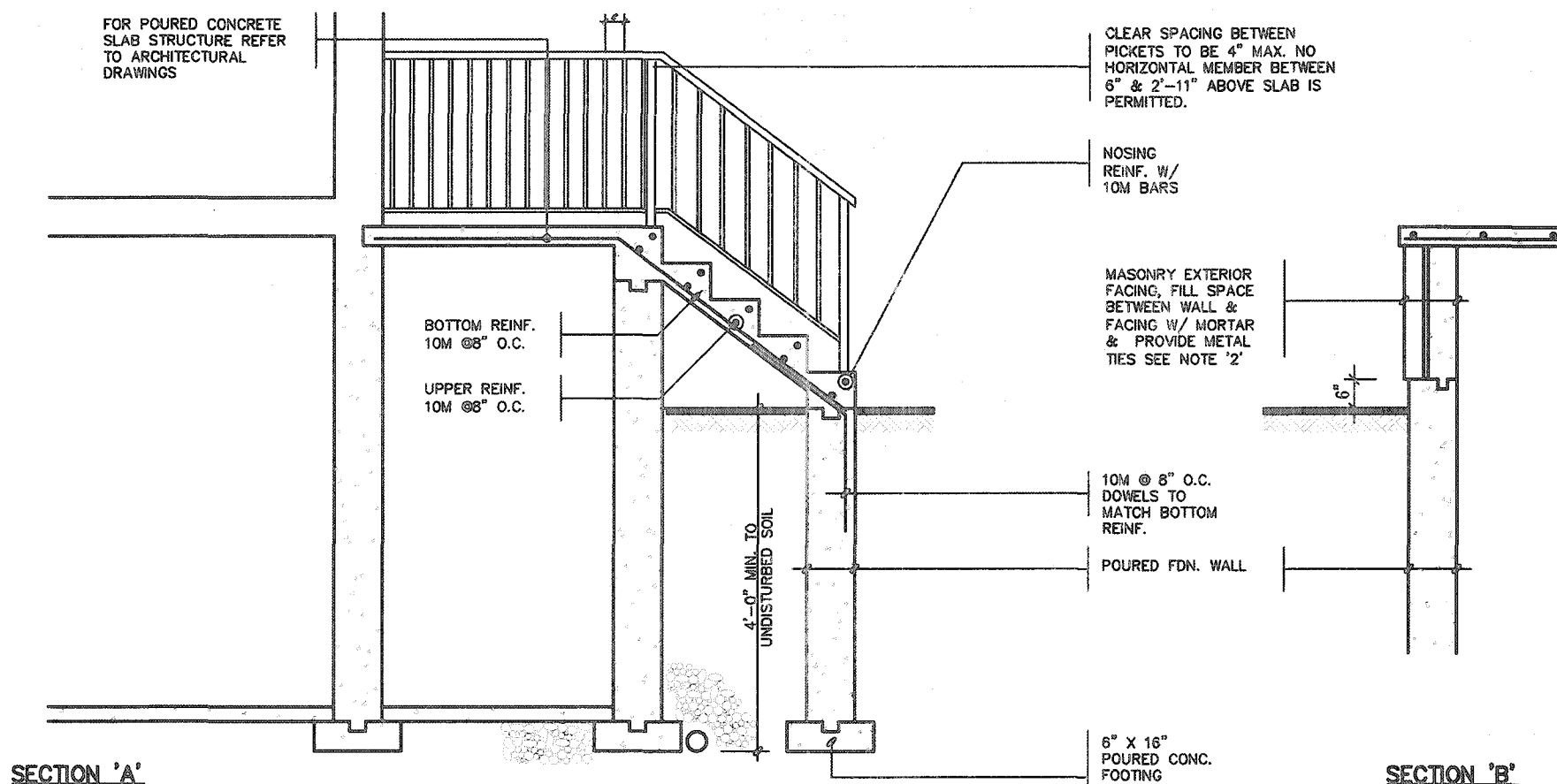




FOUNDATION PLAN



GROUND FLOOR PLAN



NOTE: FOR MORE THAN 8 RISERS

GENERAL NOTES

- EXTERIOR STAIRS**  
7 7/8" RISE MAXIMUM  
8 1/4" RUN MINIMUM  
9 1/4" TREAD MINIMUM
- MASONRY TIES**  
WHEN BRICK FACING IS USED ABOVE GROUND LEVEL, PROVIDE 3/16" DIA. CORROSION RESISTANT METAL TIES @ 36" HORIZONTAL & 8" VERTICAL
- GUARDS**  
ARE REQUIRED AROUND CONCRETE SLAB IF MORE THAN 2'-0" ABOVE GRADE & ON BOTH SIDES OF STAIRS CONTAINING MORE THAN 6 RISERS. MINIMUM 34" HIGH FOR STAIRS MINIMUM 36" HIGH FOR PORCHES UP TO 5'-11" ABOVE GRADE. MINIMUM 42" HIGH FOR GREATER HTS.
- HANDRAIL**  
ARE REQUIRED WHERE STEPS HAVE MORE THAN 3 RISERS. HANDRAIL HEIGHT 34" - 36".
- FOUNDATION WALLS**  
THICKNESS OF FOUNDATION WALLS IS DEPENDANT UPON VENEER CUT 8" FOR UP TO 26" VENEER CUT HEIGHT 10" FOR VENEER CUT OVER 26" HIGH
- CONCRETE**  
MINIMUM CONCRETE STRENGTH SHALL BE 4850 PSI [32MPa] W/ 5%-8% AIR ENTRAINMENT MINIMUM CONCRETE SLAB THICKNESS 5"
- CONCRETE COVER**  
PROVIDE MINIMUM 3/4" CLEAR CONCRETE COVER TO REINFORCING BARS

CITY OF HAMILTON  
Building Division

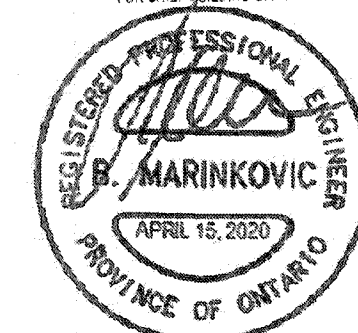
Permit No. **21-105985**

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW

These drawings and/or specifications have been reviewed by

**STRUDEL INC.** **FEB. 23/21** DATE

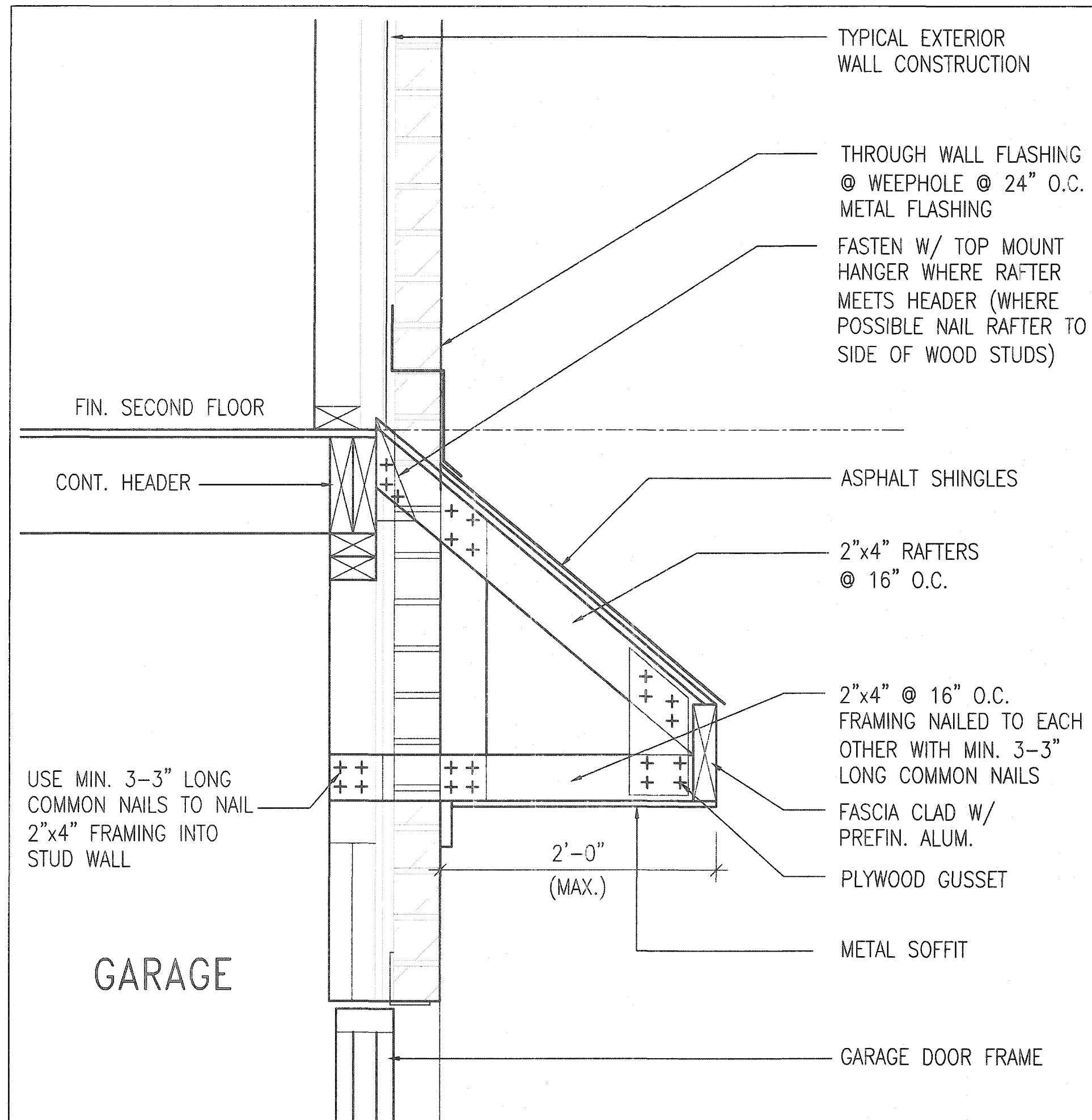



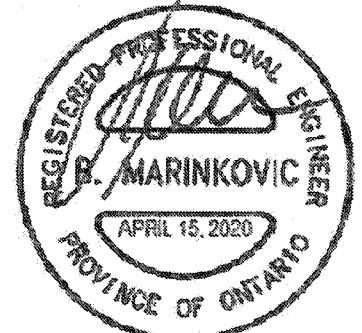
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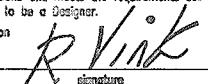
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 FEB. 20/21  
FOR CHIEF BUILDING OFFICIAL DATE  
**STRUDET INC.**  
  
FOR STRUCTURE ONLY

**B** ROOF OVERHANG DETAIL OVER GARAGE

2012 CODE  
COMPLIANCE PACKAGE A1

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TO  
OTHERWISE  
VIEWED BY

BRICK/  
STONE  
VENEER

INVERTED  
3-1/2"x3-1/2"x1/4"  
(90x90x6.0)  
STEEL ANGLE

BRICK/  
STONE  
VENEER

# INVERTED STEEL ANGLE DETAIL



Permit No. 21-105985

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CR FEB. 23/21

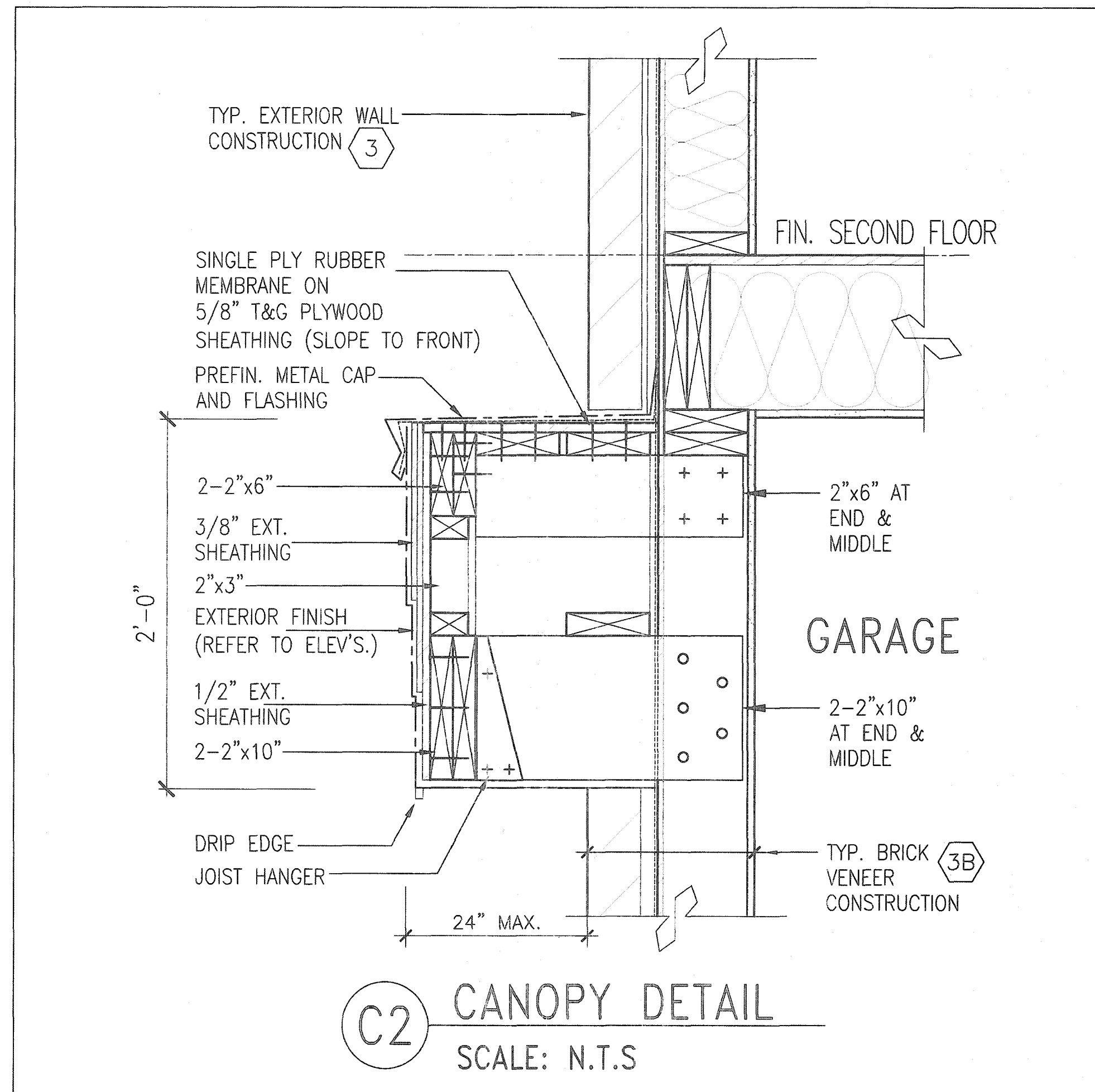
FOR CHIEF BUILDING OFFICIAL \_\_\_\_\_ DATE \_\_\_\_\_



9				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.	 255 Consumers Rd Suite 120 Toronto ON M2J 1R4 t 416.630.2255 f 416.630.4782 va3design.com	 project name <b>RUSSELL GARDENS PH. 3</b> municipality <b>WATERDOWN</b> drawing no. <b>19014</b>
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7	-	-	qualification information			
6	-	-	Richard Vink <i>R Vink</i> 24468			
5	-	-	nrc registration information BCN			
4	-	-	VA3 Design Inc. 42656			
3	-	-		Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be copied.		
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no.	description	date	by			<div>project name <b>RUSSELL GARDENS PH. 3</b></div> <div>municipality <b>WATERDOWN</b></div> <div>drawing no. <b>19014-CP-STD_DETAILS_A1</b></div> <div>date <b>APRIL 2020</b></div> <div>drawn by <b>GW</b></div> <div>checked by <b>-</b></div> <div>scale <b>Not To Scale</b></div> <div>title name <b>INVERTED STEEL ANGLE</b></div> <div><small>OWNER DETAILS = C:\Users\james\Desktop\2018-SPE-DRAWINGS\DWG\SLS\19014-CP-STD_DETAILS_A1.dwg - Tue - Apr 14 2020 - 4:33 PM</small></div>
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**C2** CANOPY DETAIL  
SCALE: N.T.S

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[Signature] FOR 28/12  
FOR CHIEF BUILDING OFFICIAL DATE  
**STRUDET INC.**  
**REGISTERED PROFESSIONAL ENGINEER**  
**B. MARINKOVIC**  
APRIL 15, 2020  
PROVINCE OF ONTARIO  
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9. _____ 8. _____ 7. _____ 6. _____ 5. _____ 4. _____ 3. _____ 2. _____ 1. ISSUED FOR PERMIT.		The undersigned has reviewed and taken responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer. <b>Richard Vink</b> name registration information <b>VAS Design Inc.</b> 42658 signature <i>R Vink</i> 24488 BCN 42658 Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be scaled.	<b>VAS DESIGN</b> 255 Consumers Rd Suite 120 Toronto ON M2J 1R4 t 416.630.2255 f 416.630.4782 vasdesign.com	<b>Greenpark</b> project name <b>RUSSELL GARDENS PH. 3</b> municipality <b>WATERDOWN</b> date <b>APRIL 2020</b> drawn by <b>GW</b> checked by <b>-</b> scale <b>Not to Scale</b> project no. <b>19014</b> drawing no. <b>14</b>	<b>SINGLES</b> drawing no. <b>14</b>
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