

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. RES. 332/2 - 2012 OBC.

1 ROOF CONSTRUCTION (*SEE OBC 9.19.)

NO. 210 (10.25kg/m²) ASPHALT SHINGLES. 10mm (3/8") PLYWOOD SHEATHING WITH 1" CLIPS. APPROVED WOOD TRUSSES @ 600mm (24") o.c. MAX. APPROVED EAVE PROTECTION TO EXTEND 900mm (3'-0") FROM EDGE OF ROOF AND MIN. 300mm (12") BEYOND INNER FACE OF EXTERIOR WALL. 38x84 (2"x4") TRUSS BRACINGS @ 1800mm (6'-0") o.c. AT BOTTOM CHORD. PREFIN. ALUM. EAVESTROUGH, FASCIA, RAIL & VENTED SOFFIT. PROVIDE ICE & WATER SHIELD TO ALL ROOF / WALL SURFACES SUSCEPTIBLE TO DAMPING. ROOF SHEATHING TO BE FASTENED 50 (6") o.c. ALONG EDGES & INTERMEDIATE SUPPORTS WHEN TRUSSES SPACED GREATER THAN 408 (16"). ATTIC VENTILATION 1:500 OF INSULATED CEILING AREA WITH 50% AT EAVES.

2 FRAME WALL CONSTRUCTION (2"x6")

SIDING, HARDIE BOARD, STUCCO BOARD OR EQUAL AS PER ELEVATION. 14x64 (1"x3") VERTICAL WOOD FURRING. APPROVED SHEATHING PAPER, 1/16" O.S.B. EXTERIOR SHEATHING OR OBC COMPLIANT EQUIVALENT. 38x140 (2"x6") STUDS @ 400mm (16") o.c. UNAPPROVED DIAGONAL WALL BRACINGS, RSI 3.81 (R22) INSUL. APPROVED VAPOUR BARRIER AND APPROVED CONT. AIR BARRIER. 13mm (1/2") INT. DRYWALL FINISH.

3 BRICK VENEER CONSTRUCTION (2"x6")

90mm (4") FACE BRICK 25mm (1") AIR SPACE. 22x180x0.76mm (1/8"x1"x0.03") GALV. METAL TIES @ 400mm (16") o.c. HORIZONTAL 600mm (24") o.c. VERTICAL. APPROVED SHEATHING PAPER, 1/16" O.S.B. EXTERIOR SHEATHING OR OBC COMPLIANT EQUIVALENT. 38x140 (2"x6") STUDS @ 400mm (16") o.c. UNAPPROVED DIAGONAL WALL BRACINGS, RSI 3.81 (R22) INSUL. APPROVED VAPOUR BARRIER AND APPROVED CONT. AIR BARRIER. 13mm (1/2") INT. DRYWALL FINISH. PROVIDE KNEE HOLES @ 800mm (32") o.c. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 150mm (6") BEHIND BUILDING PAPER.

3A STUCCO WALL CONSTRUCTION (2"x6")

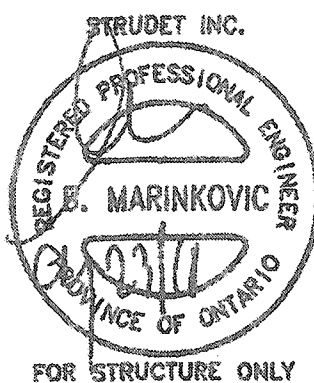
STUCCO CLADDING SYSTEM CONFORMING TO OBC 9.21.1.1.2) @ 9.26 THAT EMPLOY A MINIMUM 6mm (1/4") DRAINAGE CAVITY BEHIND THE CLADDING WITH POSITIVE DRAINAGE TO THE EXTERIOR AND APPLIED AS PER MANUFACTURER'S SPECIFICATION ON 25mm (1") MINIMUM EXTRUDED OR EXPANDED RIGID INSULATION, APPROVED SHEATHING PAPER, 1/16" O.S.B. EXTERIOR SHEATHING OR OBC COMPLIANT EQUIVALENT. 38x140 (2"x6") STUDS @ 400mm (16") o.c. UNAPPROVED DIAGONAL WALL BRACINGS, RSI 3.81 (R22) INSUL. APPROVED VAPOUR BARRIER AND APPROVED CONT. AIR BARRIER. 13mm (1/2") INT. DRYWALL FINISH. STUCCO TO BE MIN. 200mm (8") ABOVE FINISH GRADE.

4 INTERIOR STUD PARTITIONS

(*SEE OBC 9.23.10.29.23.11.1)
BEARING PARTITION 38x84 (2"x4") @ 400mm (16") o.c. FOR 2 STOREYS AND 500mm (12") o.c. FOR 3 STOREYS. NON-BEARING PARTITIONS 38x84 (2"x4") @ 600mm (24") o.c. PROVIDE 38x84 (2"x4") BOTTOM PLATE AND 25x84 (2"x4") TOP PLATE. 13mm (1/2") INTERIOR DRYWALL BOTH SIDES OF STUD, PROVIDE 38x140 (2"x6") STUDS/PLATES WHERE NOTED.

5 FOUNDATION WALL/FOOTINGS:

(*SEE OBC 9.15.3 & 9.15.4.)
MIN. 200mm (8") POURED CONC. FDN. WALL 15MPa (2200psi) WITH BITUMINOUS DAMPROOFING AND DRAINAGE LAYER. MIN. 400x155 (1"x6") CONTIN. KEYED CONC. FTG. BRACE FOUNDATION WALL PRIOR TO BACKFILLING. ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL WITH MINIMUM BEARING CAPACITY OF 120KPa (17.4 psi) OR GREATER.



6 WEeping TILE (*SEE OBC 9.14.3.)

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

7 BASEMENT SLAB (*SEE OBC 9.16.)

80mm (3") MIN. 25MPa (3600psi) CONC. SLAB ON 100mm (4") COARSE GRANULAR FILL, OR 15MPa (2200psi) CONC. WITH DAMPROOFING BELOW SLAB.

8 WOOD SUBFLOORS (*SEE OBC 9.23.14. & 9.20.2.)

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

9 ROOF INSULATION (*SEE SB12-2.1.1.2.A & 2.1.1.7.)

RSI 10.51 (R60) ROOF INSULATION AND APPROVED VAPOUR BARRIER. 16mm (5/8") INT. DRYWALL FINISH OR APPROVED EQUAL.

10 ALL STAIRS/EXTERIOR STAIRS (*SEE OBC 9.8.)

MAX. RISE = 200 (7'-10")
MIN. RUN = 210 (8'-10")
MIN. TREAD = 235 (8'-10")
MAX. NOSING = 25 (1")
MIN. HEADROOM = 1950 (6'-5")
RAIL @ LANDING = 400 (2'-11")
RAIL @ STAIR = 865 (2'-10") TO 955 (3'-2")
MIN. STAIR WIDTH = 860 (2'-10")

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

11 RAILING (*SEE OBC 9.8.8.)

FINISHED RAILING ON PICKETS SPACED MAXIMUM 100mm (4") BETWEEN PICKETS.

INTERIOR GUARDS = 900mm (2'-11") MIN.
EXTERIOR GUARDS = 1070mm (3'-6") MIN.

12 SILL PLATE (*SEE OBC 9.23.6 & 9.23.7.)

38x84 (2"x4") SILL PLATE WITH 3mm (1/8") DIA. ANCHOR BOLTS 200mm (8") LONG, EMBEDDED MIN. 100mm (4") INTO CONC. @ 2400mm (7'-10") o.c. CAULKING OR 25 (1") MIN. MINERAL WOOL BETWEEN PLATE AND TOP OF FDN. WALL. USE MORTAR TO LEVEL SILL PLATE WHEN REQUIRED.

13 BASEMENT INSULATION (*SEE OBC 12.3.)

FOUNDATION WALLS ENCLOSING HEATED SPACE SHALL BE INSULATED FROM THE UNDERSIDE OF THE SUBFLOOR TO NOT MORE THAN 152mm (6") ABOVE THE FINISHED FLOOR OF THE BASEMENT AND NOT LESS THAN 50mm (2") TO THE SLAB. FOUNDATION WALL INSULATION SHALL BE MINIMUM RSI 5.52 (R30) BLANKET INSULATION, APPROVED VAPOUR BARRIER, DAMPROOFING WLGDS. PAPER BETWEEN THE FDN. AND INSUL.

14 BASEMENT BEARING STUD PARTITION

(*SEE OBC 9.23.10.1)
38x84 (2"x4") STUDS @ 400mm (16") o.c. 38x84 (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. (4") HIGH CONC. CURS ON 50x85 (2"x6") CONC. FOOTINGS. ADD HORIZ. BLOCKING AT MID-HEIGHT IF WALL IS UNFINISHED.

15 STEEL BASEMENT COLUMN (*SEE OBC 9.17.3.)

40mm (5-1/2") DIA. x 4.75mm (189) STL. COL. WITH 150x150x4.5mm (6"x6"x3/8") STL. TOP & BOTTOM PLATE.

15A STEEL COLUMN (*SEE OBC 9.17.3.)

40mm (5-1/2") DIA. x 4.75mm (189) STL. COLUMN WITH 100x100x6.4mm (4"x4"x1/2") STEEL TOP & BOTTOM PLATE. FIELD WELD BOTTOM PLATE TO 250x100x12.5mm (10"x4"x1/2") BASE PLATE CAN 2-13mm (1/2") DIA. x 300mm (12") LONG x 50mm (2") HOOK ANCHORS.

16 NIB WALLS (*SEE OBC 9.23.8.)

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

17 STEEL BEAM STRAPPING (*SEE OBC 9.23.4.3.(3)(c))

14x38 (1"x2") CONTINUOUS WOOD STRAPPING BOTH SIDES OF STEEL BEAM.

18 GARAGE SLAB (*SEE OBC 9.16.)

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

19 INTERIOR GARAGE WALLS & CEILING

(*SEE OBC 9.10.9.16.)
15mm (1/2") GYPSUM BOARD ON WALL AND CEILING BETWEEN HOUSE AND GARAGE, RSI 3.81 (R22) IN WALLS, RSI 5.46 (R31) IN CEILING. TAPE AND SEAL ALL JOINTS GAS TIGHT.

20 GARAGE DOOR GASPROOFING

(*SEE OBC 9.10.13.15.)
DOOR AND FRAME GASPROOFING. DOOR EQUIPPED WITH SELF CLOSING DEVICE AND WEATHER STRIPPING.

21 EXTERIOR STEP

(*SEE OBC 9.8.9.2, 9.8.9.3 & 9.8.10.)
PRECAST CONCRETE STEP OR IND. STEP WHERE NOT EXPOSED TO WEATHER MAX. RISE 200mm (7'-10"). MINIMUM TREAD 230mm (9'-10")

22 DRYER VENT (*SEE OBC 6.2.3.5.(7))

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

23 ATTIC ACCESS (*SEE OBC 9.19.2.)

ATTIC ACCESS HATCH 545x100 (22"x38") WITH WEATHERSTRIPPING, RSI 5.46 (R31) RIGID INSULATION BACKING.

24 FIREPLACE CHIMNEYS (*OBC 9.21.)

TOP OF FIREPLACE CHIMNEY SHALL BE 45mm (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 CLOSET

4 SHELVES MIN. 300mm (14") DEEP.

26 MECHANICAL EXHAUST

(*SEE OBC 9.32.3.5, 9.32.3.10.)
MECHANICAL EXHAUST FAN VENTED TO EXTERIOR.

27 STEEL BEARING PLATE FOR MASONRY WALLS

250x250x16 (1"x1"x5/8") STL. PLATE FOR STL BEAMS AND 250x250x12 (1"x1"x3/4") STL. PLATE FOR WOOD BEAMS BEARING ON CONC. BLOCK PARTYWALL. ANCHORED W/ 2-11mm (3/4") x200mm (8") LONG GALV. ANCHORS WITHIN SOLID BLOCK COURSE. LEVEL WITH NON-SHRINK GROUT.

28 CLASS "B" VENT

ULC. RATED CLASS "B" VENT 610mm (2'-0") ABOVE THE POINT IN CONTACT WITH THE ROOF FOR SLOPES UP TO 1/12, REFER TO THE ONTARIO GAS UTILIZATION CODE.

29 WOOD BASEMENT POST (*OBC 9.17.4.)

3-38x140 (3"x4") BUILT-UP POST ON METAL BASE SHOE ANCHORED TO CONC. WITH 12.7 (1/2") DIA. BOLT ON 408x108x203 (16"x16"x8") CONC. FOOTING.

30 STEP FOOTINGS (*OBC 9.15.3.9.)

MIN. HORIZ. STEP = 610mm (24"). MAX. VERT. STEP = 610mm (24")

31 SLAB ON GRADE (*SEE OBC 9.16.)

100mm (4") 32MPa (4640psi) CONC. SLAB WITH 5-8% AIR ENTRAINMENT ON OPT. 100 (4") COARSE GRANULAR FILL WITH COMPACTED SUB-BASE OR COMPACTED NATIVE FILL REINFORCED W/ 6-16x12.5mm (5/8"x1/2") MESH PLACED NEAR MID-DEPTH OF SLAB.

32 DIRECT VENT FURNACE

DIRECT VENT FURNACE TERMINAL MIN. 900mm (36") FROM A GAS REGULATOR. MIN 300mm (12") ABOVE FIN. GRADE. FROM ALL OPENINGS, EXHAUST & INTAKE VENTS. HRV INTAKE TO BE A MIN. OF 1800mm (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.

33 DIRECT VENT GAS FIREPLACE

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 & BRIDGING (*SEE OBC 23.9.4.)

ALL FLOOR JOISTS TO BE BRIDGED WITH 38x39 (2"x2") CROSS BRACING OR SOLID BLOCKING @ 2100mm (6'-11") o.c. MAX. 14x64 (1"x5") @ 2100mm (6'-11") o.c. UNLESS A PANEL TYPE CEILING FINISH IS APPLIED.

35 EXPOSED BUILDING FACE (*SEE OBC 9.10.15.)

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

36 COLD CELLAR PORCH SLAB (*SEE OBC 9.40.)

FOR MAX. 2500mm (8'-2") PORCH DEPTH, 125mm (5") 32MPa (4640 psi) CONC. SLAB WITH 5-8% AIR ENTRAINMENT. REINF. WITH 10M BARS @ 200mm (8") o.c. EACH WAY IN BOTTOM THIRD OF SLAB, ANCHORED IN PERIMETER FDN. WALLS W/ 610x610 (24"x24") 10M @ 600mm (24") o.c. DOWNELS. SLOPE SLAB MIN. 1.0% FROM DOOR. SLAB TO HAVE A MIN. 15mm (5") BEARING ON FDN. WALLS. PROVIDE (ML) LINTELS OVER CELLAR DOOR.

37 FDN. WALL REDUCTION IN THICKNESS

(*SEE OBC 9.15.4.7.)
FDN. WALL SHALL NOT BE REDUCED TO LESS THAN 90mm (3'-1/2") THICK TO A MAX. DEPTH OF 600mm (26") FOR 8" FDN. WALL. 10" FDN. WALL WHEN REDUCTION IN THICKNESS IS GREATER THAN 26". FDN. WALL 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.

38 CONVENTIONAL ROOF FRAMING

(*SEE OBC 9.23.4.2.(1))
FOR MAX. 2240mm (7'-4") SPAN, 38x84 (2"x4") RAFTERS @ 400mm (16") o.c. FOR MAX. 3530mm (11'-5") SPAN, 38x140 (2"x6") RAFTERS @ 400mm (16") o.c. RIDGE BOARD TO BE 51mm (2") DEEPER. 38x39 (2"x4") COLLAR TIES AT MIDSPANS. CEILING JOISTS TO BE 38x84 (2"x4") @ 400mm (16") o.c. FOR MAX. 2830mm (9'-3") SPAN & 38x140 (2"x6") @ 400 (16") o.c. FOR MAX. 4450mm (14'-7") SPAN. RAFTERS FOR BUILT-UP ROOF TO BE 38x84 (2"x4") @ 600mm (24") o.c. WITH A 38x84 (2"x4") CENTER POST TO THE TRUSS BELOW, LATERALLY BRACED @ 1800mm (6'-0") o.c. VERTICALLY.

39 TWO STOREY VOLUME SPACES

FOR A MAXIMUM 5400mm (18'-0") HEIGHT, PROVIDE 2-38x140 (2"x6") CONTINUOUS STUDS @ 300mm (12") o.c. FOR BRICK AND 400mm (16") o.c. FOR SIDING. PROVIDE SOLID WOOD BLOCKING BETWEEN STUDS @ 1220mm (4'-0") o.c. VERT. 1/16" EXT. PLYWOOD.

40 EXPOSED FLOOR TO EXTERIOR (*SB12-2.1.1.2.A)

PROVIDE RSI 5.46 (R31) INSULATION, APPROVED VAPOUR BARRIER AND CONTINUOUS AIR BARRIER, FINISHED SOFFIT.

41 PARTYWALLS

TYPICAL 1 HOUR RATED PARTYWALL. REFER TO DETAILS FOR TYPE AND SPECIFICATIONS.

42 EXTERIOR WALLS FOR WALK-OUT CONDITION

THE EXTERIOR BASEMENT STUD WALL TO BE 38x140mm (2"x6") STUDS @ 400mm (16") o.c. MATCH FLOOR JOIST SPACING WHEN PARALLEL WITH FLOOR JOISTS.

43 SMOKE ALARM (*OBC 9.10.19)

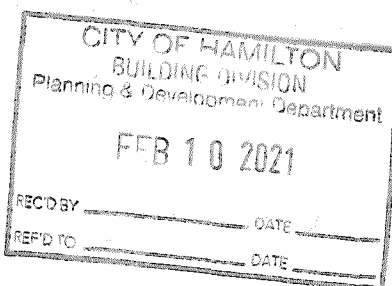
PROVIDE 1 PER FLOOR, NEAR THE STAIRS CONNECTING THE FLOOR LEVEL AND ALSO 1 IN EACH BEDROOM NEAR HALL DOOR. ALARMS TO BE CONNECTED TO AN ELECTRICAL CIRCUIT AND INTERCONNECTED TO ACTIVATE ALL ALARMS IF ONE SOUNDS. BATTERY BACK-UP REQUIRED. SMOKE ALARMS TO INCORPORATE VISUAL SIGNALLING COMPONENT. (4.10.1.3.3).

44 CARBON MONOXIDE ALARM (*OBC 9.33.4.)

WHERE A FUEL-BURNING APPLIANCE IS INSTALLED IN A DWELLING UNIT, A CARBON MONOXIDE DETECTOR CONFORMING TO CAN/CSA-6.19, CSA 6.19 OR ULCSA SHALL BE INSTALLED ADJACENT TO EACH SLEEPING AREA. CARBON MONOXIDE DETECTOR(S) SHALL BE PERMANENTLY HIRED SO THAT IT IS ACTIVATION WILL ACTIVATE ALL CARBON MONOXIDE DETECTORS AND BE EQUIPPED WITH AN ALARM THAT IS AUDIBLE WITHIN BEDROOMS WHEN THE INTERVENING DOORS ARE CLOSED

45 SOIL GAS CONTROL (*OBC 9.13.4.)

PROVIDE CONSTRUCTION TO PREVENT LEAKAGE OF SOIL GAS INTO THE BUILDING AS REQUIRED.



2012 CODE COMPLIANCE PACKAGE "A1"

5.		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 Required unless design is exempt under Division C, Subsection 2.2.5 of the building code VIKAS GAJJAR NAME SIGNATURE BCIN 28770	REGION DESIGN INC. 8700 DUFFERIN ST. CONCORD, ONTARIO L4K 1S6 P (416) 735-4006 F (905) 685-0746	GENERAL NOTES SCALE N.T.S. DATE JULY 2018	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED. PAGE NO. 1	Greenpark. PROJECT NAME RUSSELL GARDENS III
4.						
3.						
2.						
1.	ISSUED FOR PERMIT JUL 30, 2018					
REVISIONS						

WINDOWS - CANADA ZONE C

- (1) **MINIMUM BEDROOM WINDOW** (*OBC 9.9.10.1.)
AT LEAST ONE BEDROOM WINDOW ON A GIVEN FLOOR IS TO HAVE MIN. 0.99m² (3.9 SQFT.) UNOBSTRUCTED GLAZED OPENABLE AREA WITH MIN. CLEAR WIDTH OF 380mm (1'-3")
GLASS AREA NOT MORE THAN 17% OF GROSS PERIPHERAL WALL AREA.
MAXIMUM U-VALUE 0.20
- (2) **WINDOW GUARDS** (*OBC 9.8.8.1(6))
A GUARD IS REQUIRED WHERE THE TOP OF THE WINDOW SILL IS LOCATED LESS THAN 480mm (1'-6") ABOVE FIN. FLOOR AND THE DISTANCE FROM THE FIN. FLOOR TO THE ADJACENT GRADE IS GREATER THAN 1800mm (5'-11")

GENERAL:

- (1) **MECHANICAL VENTILATION**
MECHANICAL VENTILATION IS REQUIRED TO PROVIDE 0.3 AIR CHANGES PER HOUR AVERAGED OVER 24 HOURS. SEE MECHANICAL DRAWINGS.
- (2) **OUTDOOR AIR INTAKE** *
ALL OUTDOOR AIR INTAKES SHALL BE LOCATED SO THAT THEY ARE SEPARATED FROM SOURCES OF CONTAMINATION (EXHAUST VENTS) IN COMPLIANCE WITH O.B.C. DIV-B 6.2.3.12. AND TABLE 6.2.3.12.
- (3) **REINFORCEMENT FOR GRAB BARS** (*OBC 9.5.2.3.1) *
REINFORCEMENT OF STUD WALLS SHALL BE INSTALLED ADJACENT TO WATER CLOSETS AND SHOWER OR BATHTUB IN MAIN BATHROOM. REFER TO O.B.C. 9.5.2.3, 3.0.3.0.(3)(a), 3.0.3.0.(3)(c), 3.0.3.13.(2)(g) & 3.0.3.13.(4)(a). SEE DETAIL ON PAGE II.
- LUMBER:**
- 1) ALL LUMBER SHALL BE SPRUCE-PINE-FIR No.1&2 GRADE, UNLESS NOTED OTHERWISE.
- 2) LUMBER EXPOSED TO THE EXTERIOR TO BE SPRUCE-PINE-FIR No.1&2 GRADE PRESSURE TREATED OR CEDAR, UNLESS NOTED OTHERWISE.
- 3) ALL BEAMS, GIRDER TRUSSES, AND METAL HANGER CONNECTIONS SUPPORTING ROOF FRAMING TO BE DESIGNED & CERTIFIED BY TRUSS MANUFACTURER.
- 4) LVL BEAMS SHALL BE 2.0E (F_b=2800psi MIN). NAIL EACH PLY OF LVL WITH 34mm (3-1/2") LONG COMMON WIRE NAILS @300mm (12") o.c. STAGGERED IN 2 ROWS FOR 124, 240, & 300mm (1-1/4", 9-1/2", 11-1/8") DEPTHS AND STAGGERED IN 3 ROWS FOR GREATER DEPTHS AND FOR 4 PLY MEMBERS ADD 1/2" (13mm) DIA. GALVANIZED BOLTS BOLTED AT MID-DEPTH OF BEAM @ 915mm (3'-0") o.c.
- 5) PROVIDE TOP MOUNT BEAM HANGERS FOR ALL LVL BEAM TO BEAM CONNECTIONS UNLESS NOTED OTHERWISE.
- 6) PROVIDE METAL JOIST HANGERS FOR ALL JOISTS AND BUILT-UP WOOD MEMBERS INTERSECTING FLUSH BUILT-UP WOOD MEMBERS.
- 7) WOOD FRAMING NOT TREATED WITH A WOOD PRESERVATIVE, IN CONTACT WITH CONCRETE, SHALL BE SEPARATED FROM THE CONC. BY AT LEAST 2mm. POLYETHYLENE FILM, No.50 (45lbs) ROLL ROOFING OR OTHER DAMPROOFING MATERIAL, EXCEPT WHERE THE WOOD MEMBER IS AT LEAST 150mm (6") ABOVE THE GROUND.

STEEL:

STRUCTURAL STEEL AND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO CAN/CSA-S40-21 GRADE 350M.

REINFORCING STEEL SHALL CONFORM TO CSA-630-10M GRADE 400R.

REVISION:

* ONT. REG. 532/12-2012 OBC AMENDMENT O. REG. 08/14 JAN. 01, 2020

STABILITY OF NARROW (20'-25') & TALL (±30') HOUSES

BUILDER TO PROVIDE SUFFICIENT TEMPORARY BRACING TO RESIST WIND LOADING WHEN UNDER CONSTRUCTION. FURTHER RECOMMENDATIONS:

- 1) REDUCE THE FOUNDATION WALL SILL PLATE ANCHOR BOLT SPACING FROM 2400mm o.c. (7'-10") TO 1230mm o.c. (4'-0") FOR STANDARD CONDITIONS.
- 2) USE 9.5mm (3/8") THICK PLYWOOD OR WAFERBOARD FOR THE EXTERIOR WALL SHEATHING.
- 3) TO STIFFEN THE STRUCTURE IN TRANSVERSE DIRECTION USE 15mm (5/8") THICK PLYWOOD NAILED TO THE INTERIOR PARTITIONS ON EACH FLOOR FOR A MINIMUM 2 INTERIOR PARTITION WALLS ON BOTH SIDES AND PERPENDICULAR TO THE LONG WALLS.

BRICK VENEER LINTELS

ML1 = 5'-12"x8-1/2"x16" (150x40x40) + 2-2"x8" SPR. No.2
ML2 = 4'-8"x8-1/2"x16" (100x40x40) + 2-2"x8" SPR. No.2
ML3 = 5'-8"x8-1/2"x16" (125x40x40) + 2-2"x10" SPR. No.2
ML4 = 6'-8"x8-1/2"x16" (150x40x40) + 2-2"x12" SPR. No.2
ML5 = 6'-8"x8-1/2"x16" (150x40x40) + 2-2"x12" SPR. No.2
ML6 = 5'-8"x8-1/2"x16" (125x40x40) + 2-2"x12" SPR. No.2
ML7 = 5'-8"x8-1/2"x16" (125x40x40) + 2-2"x10" SPR. No.2
ML8 = 5'-8"x8-1/2"x16" (125x40x40) + 2-2"x12" SPR. No.2
ML9 = 6'-8"x8-1/2"x16" (150x40x40) + 2-2"x12" SPR. No.2
ML10 = 6'-8"x8-1/2"x16" (150x40x40) + 2-2"x12" SPR. No.2

WOOD LINTELS AND BEAMS

WB1 = 2'-2"x8" SPR. No.2 (2-50x104 SPR. No.2)
WB2 = 3'-2"x8" SPR. No.2 (3-50x104 SPR. No.2)
WB3 = 2'-2"x10" SPR. No.2 (2-50x235 SPR. No.2)
WB4 = 3'-2"x10" SPR. No.2 (3-50x235 SPR. No.2)
WB5 = 2'-2"x12" SPR. No.2 (2-50x286 SPR. No.2)
WB6 = 3'-2"x12" SPR. No.2 (3-50x286 SPR. No.2)
WB7 = 5'-2"x12" SPR. No.2 (5-50x286 SPR. No.2)
WB8 = 4'-2"x10" SPR. No.2 (4-50x235 SPR. No.2)
WB9 = 4'-2"x12" SPR. No.2 (4-50x286 SPR. No.2)

LOOSE STEEL LINTELS

L1 = 5'-12"x8-1/2"x16" (150x40x40)
L2 = 4'-8"x8-1/2"x16" (100x40x40)
L3 = 5'-8"x8-1/2"x16" (125x40x40)
L4 = 6'-8"x8-1/2"x16" (150x40x40)
L5 = 6'-8"x8-1/2"x16" (150x40x40)
L6 = 7'-8"x8-1/2"x16" (175x40x40)

LAMINATED VENEER LUMBER (LVL) BEAMS

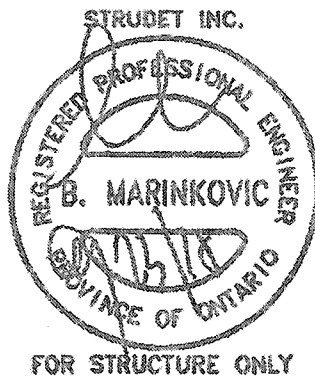
LVL1A = 1-1/4" x 7 1/4" (2-45x184)
LVL1 = 2-1/4" x 7 1/4" (2-45x184)
LVL2 = 3-1/4" x 7 1/4" (3-45x184)
LVL3 = 4-1/4" x 7 1/4" (4-45x184)
LVL4A = 1-1/4" x 9 1/2" (1-45x240)
LVL4 = 2-1/4" x 9 1/2" (2-45x240)
LVL5 = 3-1/4" x 9 1/2" (3-45x240)
LVL5A = 4-1/4" x 9 1/2" (4-45x240)
LVL6A = 1-1/4" x 11 1/8" (1-45x300)
LVL6 = 2-1/4" x 11 1/8" (2-45x300)
LVL7 = 3-1/4" x 11 1/8" (3-45x300)
LVL7A = 4-1/4" x 11 1/8" (4-45x300)
LVL8 = 2-1/4" x 14" (2-45x356)
LVL9 = 3-1/4" x 14" (3-45x356)
LVL10 = 2-1/4" x 18" (2-45x456)

DOOR SCHEDULE

1 = 2'-0" x 6'-8" (609x2033) - INSULATED ENTRANCE DOOR
1a = 2'-0" x 6'-8" (609x2033) - INSULATED FRONT DOORS
2 = 2'-0" x 6'-8" (609x2033) - WOOD & GLASS DOOR
3 = 2'-0" x 6'-8" x 1-3/4" (609x2033x43) - EXTERIOR SLAB DOOR
4 = 2'-0" x 6'-8" x 1-3/8" (609x2033x35) - INTERIOR SLAB DOOR
5 = 2'-0" x 6'-8" x 1-3/8" (609x2033x35) - INTERIOR SLAB DOOR
6 = 2'-2" x 6'-8" x 1-3/8" (660x2033x35) - INTERIOR SLAB DOOR
7 = 1'-6" x 6'-8" x 1-3/8" (488x2033x35) - INTERIOR SLAB DOOR

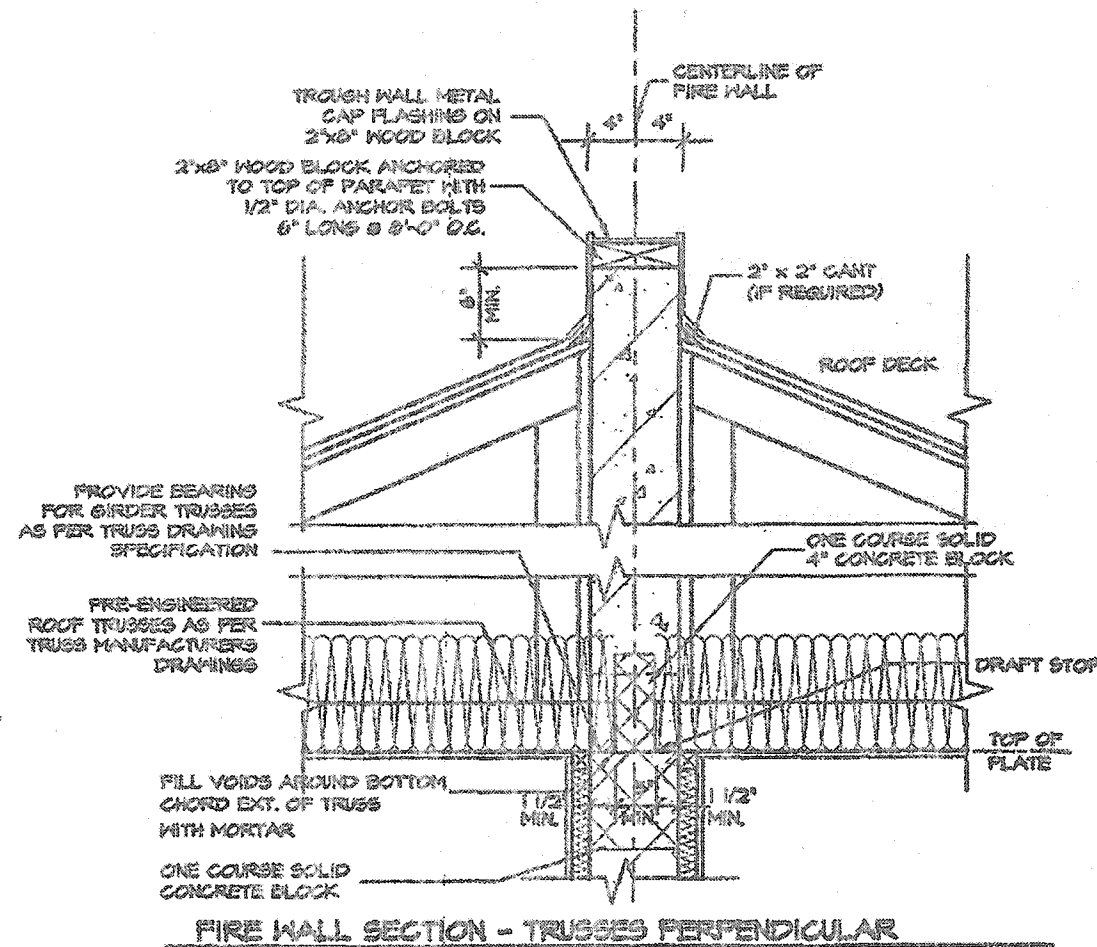
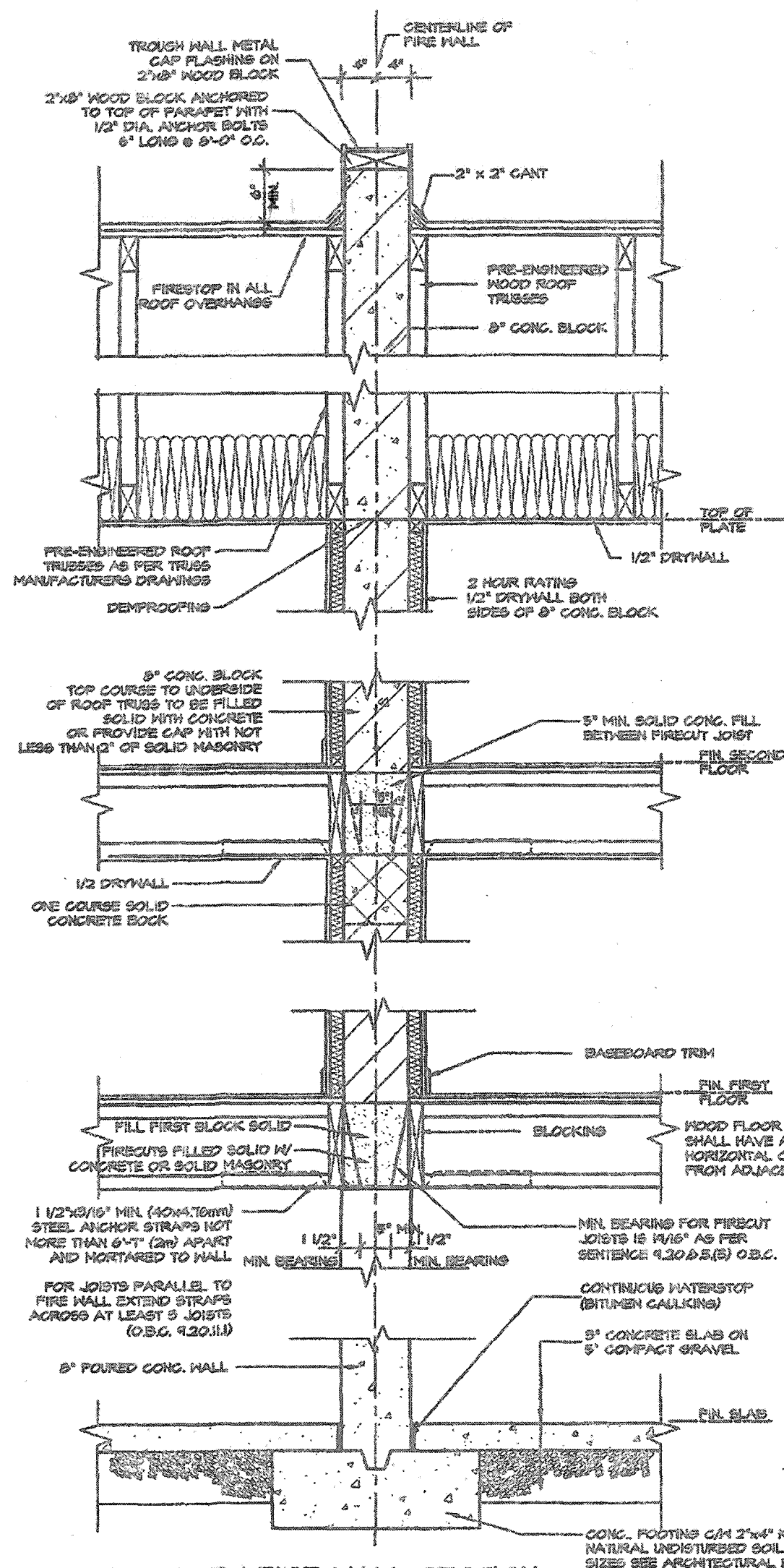
LEGEND

DJ	DOUBLE JOIST
TJ	TRIPLE JOIST
GT	GIRDER TRUSS
FL	POINT LOAD
SL	SOLID WOOD BEARING. SOLID BEARING TO BE WIDE AT LEAST AS SUPPORTED MEMBER. MIN. 3 PIECES.
ZZZZ	LOAD-BEARING WALL
XXXXXX	TWO-STORY WALL. SEE NOTE 39
IIIIII	FLAT ARCH
F.D.	FLOOR DRAIN
SA	SMOKE ALARM. SEE NOTE 43
CA	SMOKE ALARM & CARBON MONOXIDE ALARM. SEE NOTE 44



2012 CODE
COMPLIANCE PACKAGE "A1"

5.		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 Required unless design is exempt under Division C, Subsection 3.2.5 of the building code. VIKAS GAJJAR NAME SIGNATURE 28770 BCIN	REGION DESIGN INC. 6760 DUFFERIN ST. CONCORD, ONTARIO L4K 4S6 P (416) 736-4006 F (905) 660-0746	REGION DESIGN INC.	SHEET TITLE GENERAL NOTES	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED.		
4.					SCALE N.T.S.	PAGE No. 2		
3.					DATE JULY 2018	PROJECT NAME RUSSELL GARDENS III		
2.								
1.	ISSUED FOR PERMIT JAN 31, 2015							
REVISIONS								

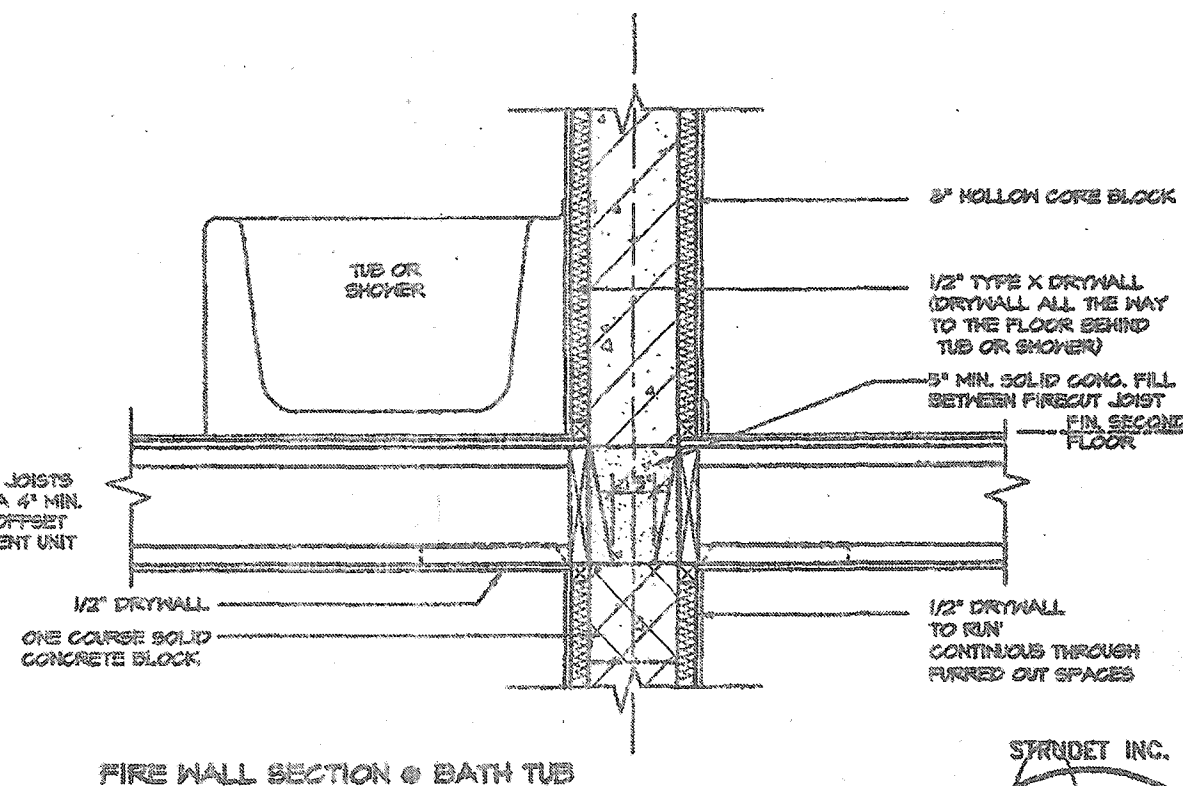


SOUND ABSORPTIVE
MATERIAL REQUIREMENTS
SOUND ABSORPTIVE
MATERIAL INCLUDES FIBRE
PROCESSED FROM ROCK,
SLAG, GLASS OR CELLULOSE
FIBRE. IT MUST FILL AT LEAST
40% OF THE CAVITY
THICKNESS FOR THE WALL TO
PROVIDE THE LISTED STC
VALUE.

SOUND TRANSMISSION RATING
MINIMUM REQUIRED S.T.C.
RATING OF 50 (D.B.C. DIV. 2
9.11.2.10))

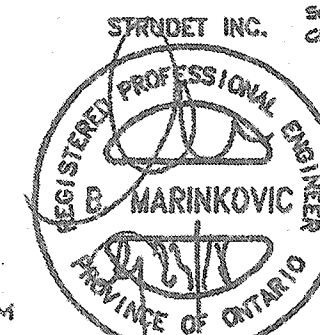
FIRE RESISTANCE RATING
FIRE RESISTANCE RATING
REQUIRED IS 2 HR. MIN.(AS
PER SENTENCE DIV. B 9.110.2
C.B.C.)

WALL TYPE
SEE SUPPLEMENTARY
STANDARDS GBS TABLE I.
(WALL NO. E6E) 8" (203MM)
CONCRETE BLOCK WALL WITH
1/2" x 1/2" STRAPPING & 1/2"
DRYWALL FILLED W/ SOUND
ABSORPTIVE MATERIAL EACH
SIDE (FOR 2H/3TC 57)

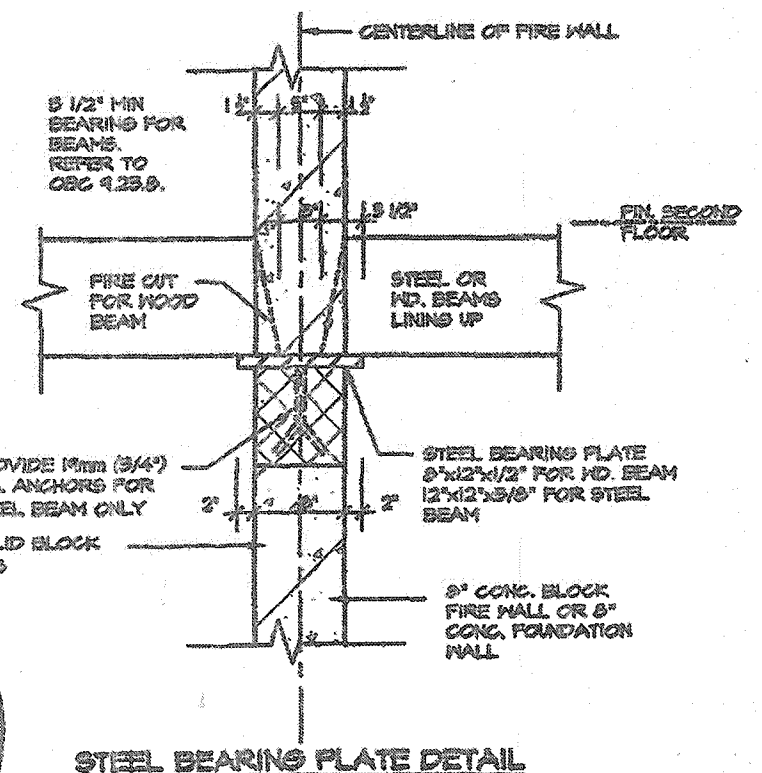


A FIREWALL SHALL EXTEND FROM THE GROUND CONTINUOUSLY THROUGH, OR ADJACENT TO, ALL STOREYS OF A BUILDING. (O.B.C. 3.110.5 (1))

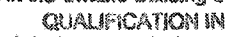
ENGINEERED FLOOR SYSTEM INSTALLATION TO CONFORM
TO MANUFACTURER'S APPROVED DETAILS AND
SPECIFICATIONS

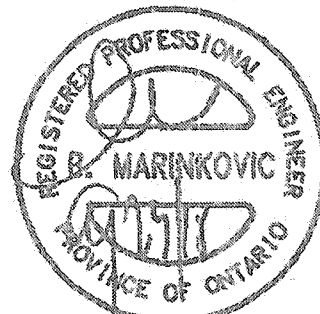


FOR STRUCTURE ONLY



**2012 CODE
COMPLIANCE PACKAGE "A1"**

6.		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 Required unless design is exempt under Division C, Subsection 2.2.5 of the building code	REGION DESIGN INC. 8700 DUFFERIN ST. CONCORD, ONTARIO LAK 436 P (416) 735-4045 F (905) 660-0748	REGION DESIGN INC.	SHEET TITLE	FIRE WALL	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED.					
4.					SCALE	3/4"=1'-0"			PAGE No.	3	PROJECT NAME	RUSSELL GARDENS III
3.					DATE	JULY 2018						
2.												
1.	ISSUED FOR PERMIT				JUL 30, 2018							
REVISIONS			VIKAS GAJJAR		28770							
			NAME	SIGNATURE	ECIN							



FOR STRUCTURE ONLY

30x24 (2"x4") STUDS @ 400 O.C. WITH 15.4mm (5/8") TYPE 'X' GYPSUM BOARD ONE LAYER ON EACH SIDE. SUPPLEMENTARY STANDARDS SEE TABLE 1, 1st WALL ASSEMBLY.

SOUND ABSORPTIVE MATERIAL REQUIREMENTS: SOUND ABSORPTIVE MATERIAL INCLUDES FIBRE PROCESSED FROM ROCK, SLAG, GLASS OR CELLULOSE FIBRE. IT MUST FILL AT LEAST 90% OF THE CAVITY THICKNESS FOR THE WALL TO PROVIDE THE LISTED STC VALUE.

2010 TRANSMISSION RATING: MINIMUM REQUIRED S.T.C. RATING OF 50 (O.B.C. DIV. 9 9.12.1(1))

WALL TYPE: SEE SUPPLEMENTARY STANDARDS SEE TABLE 1. MESA BEARING WALL WITH 2 ROWS OF 2"x4" SFR. @ 16" O.C. ON SEPARATE 2"x4" PLATES SET 1" APART WITH 4" ABSORPTIVE MATERIAL AND 1 LAYER 5/8" TYPE 'X' GYPSUM WALL BOARD ON EACH SIDE (SEE NOTES 5 TO TABLE 1)

FIRE RESISTANCE RATING: FIRE RESISTANCE RATING REQUIRED IS 1 HR. MIN. (AS PER SENTENCE DIV. 9 9.10.12.1(1) O.B.C.)

2 LAYERS OF 1/2" GYPSUM WALL BOARD FOR FIRE-STOPPING CONTINUOUS

1" AIR SPACE

5/8" TYPE 'X' GYPSUM WALL BOARD

FIN. FIRST FLOOR

ENGINEERED FLOOR JOISTS W/HEADER

2 LAYERS OF 1/2" GYPSUM WALL BOARD FOR FIRE-STOPPING CONTINUOUS

2"x4" SILL PLATE (MAX. 2 1/2" P/F)

8" FOURED CONC. FOUNDATION WALL

FIN. SLAB

CONG. FTS. C/W 2"x4" KEYWAY ON NATURAL UNDISTURBED SOIL. FOR SIZES SEE ARCHITECTURAL DRAWINGS

WOOD FRAME PARTY WALL TRUSSES PERPENDICULAR TO PARTY WALL

TIGHTLY SEAL ANY GAPS WITH MINERAL WOOL OR NON-COMBUSTIBLE MATERIAL AS PER O.B.C. 9.10.12.2(2)

PROVIDE BEARING FOR GIRDER TRUSSES AS PER TRUSS DRAWING SPECIFICATION

PRE-ENGINEERED ROOF TRUSSES AS PER TRUSS MANUFACTURERS DRAWINGS

TOP OF PLATE

2 LAYERS OF 1/2" GYPSUM WALL BOARD FOR FIRE-STOPPING CONTINUOUS

3 ROWS (TOP, MIDDLE AND BOTTOM) OF 1"x4" STRAPPING TO RESTRAIN INSULATION FROM FALLING OUT.

5/8" TYPE 'X' GYPSUM WALL BOARD

FIN. SECOND FLOOR

ABSORPTIVE MATERIAL

2 LAYERS OF 1/2" GYPSUM WALL BOARD FOR FIRE-STOPPING CONTINUOUS

3 ROWS (TOP, MIDDLE AND BOTTOM) OF 1"x4" STRAPPING TO RESTRAIN INSULATION FROM FALLING OUT.

5/8" TYPE 'X' GYPSUM WALL BOARD

FIN. FIRST FLOOR

JOISTS FRAMING INTO PARTY WALL

SOLID BLOCKING BETWEEN JOISTS

CONTINUOUS RIM BOARD

1/2" DIA. ANCHOR BOLTS EMBEDDED IN FOURED CONC. WALL

8" FOURED CONC. WALL

CONTINUOUS BOND BREAKING MATERIAL

8" CONC. SLAB ON 5" COMPACTED GRAVEL

FIN. BASEMENT SLAB

CONG. FTS. C/W 2"x4" KEYWAY ON NATURAL UNDISTURBED SOIL. FOR SIZES SEE ARCHITECTURAL DRAWINGS

ALL GYPSUM BOARD TO BE TIGHT-FIT AGAINST ROOF SHEATHING AND ROOF TRUSSES. MIDDLE GYPSUM BOARD BETWEEN TWO TRUSSES TO BE TIGHTLY SCREWED TO BOTH TRUSSES.

PER-ENGINEERED ROOF TRUSSES BY TRUSS MFG. @ 24" O.C.

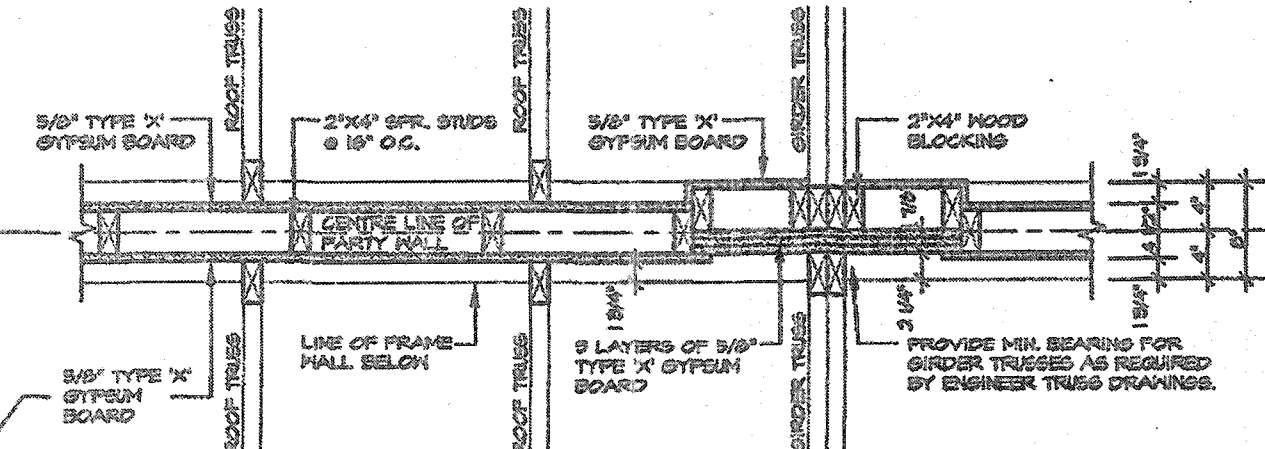
5/8" TYPE 'X' GYPSUM WALL BOARD

TOP OF PLATE

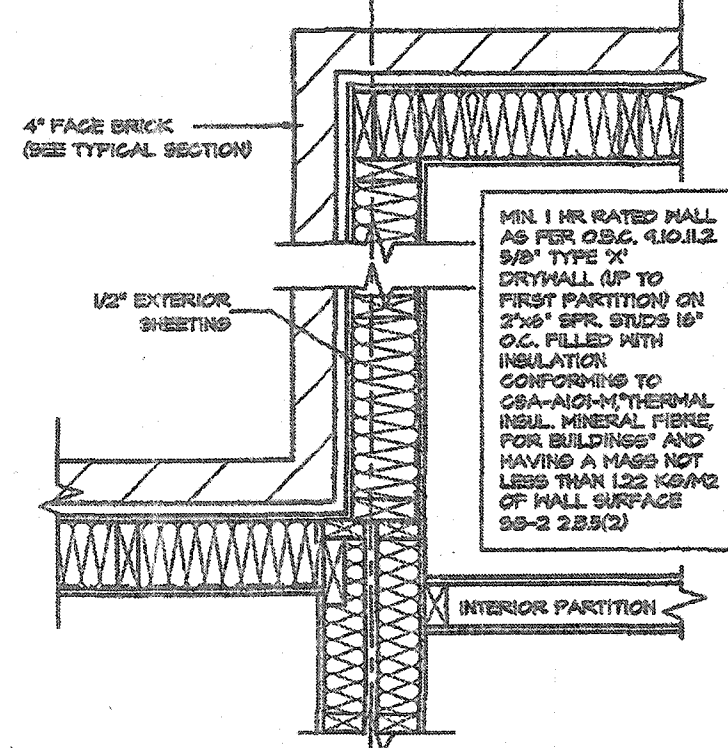
2 LAYERS OF 1/2" GYPSUM WALL BOARD FOR FIRE-STOPPING CONTINUOUS

3 ROWS (TOP, MIDDLE AND BOTTOM) OF 1"x4" STRAPPING TO RESTRAIN INSULATION FROM FALLING OUT.

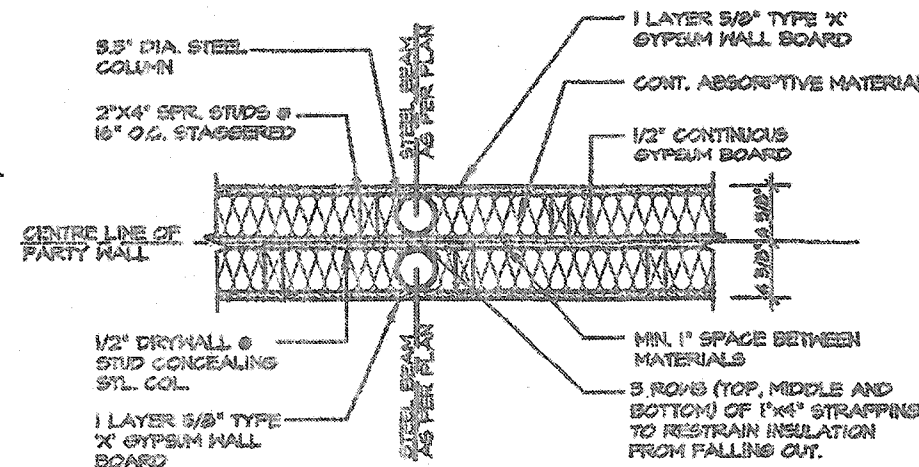
SECTION @ FIRE SEPARATION IN ROOF SPACE TRUSSES PARALLEL TO PARTY WALL



PLAN OF FIRE SEPARATION IN ROOF SPACE TRUSSES PERPENDICULAR TO PARTY WALL



FLOOR JOISTS PARALLEL



PLAN OF PARTY WALL IN GARAGE

PARTY WALL PLAN SECTION

2012 CODE
COMPLIANCE PACKAGE "A1"

5.		
4.		
3.		
2.		
1.	ISSUED FOR PERMIT	JUL 30, 2018
REVISIONS		

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
Required unless design is exempt under Division C, Subsection 3.2.5 of the building code

VIKAS GAJJAR
NAME
SIGNATURE

28770
8CIN

REGION DESIGN INC.
8700 DUFFERIN ST.
CONCORD, ONTARIO
L4K 4S6
P (416) 738-0096
F (905) 680-0746

REGION DESIGN INC.

SHEET TITLE
PARTY WALL
WOOD

SCALE
3/4"=1'-0"

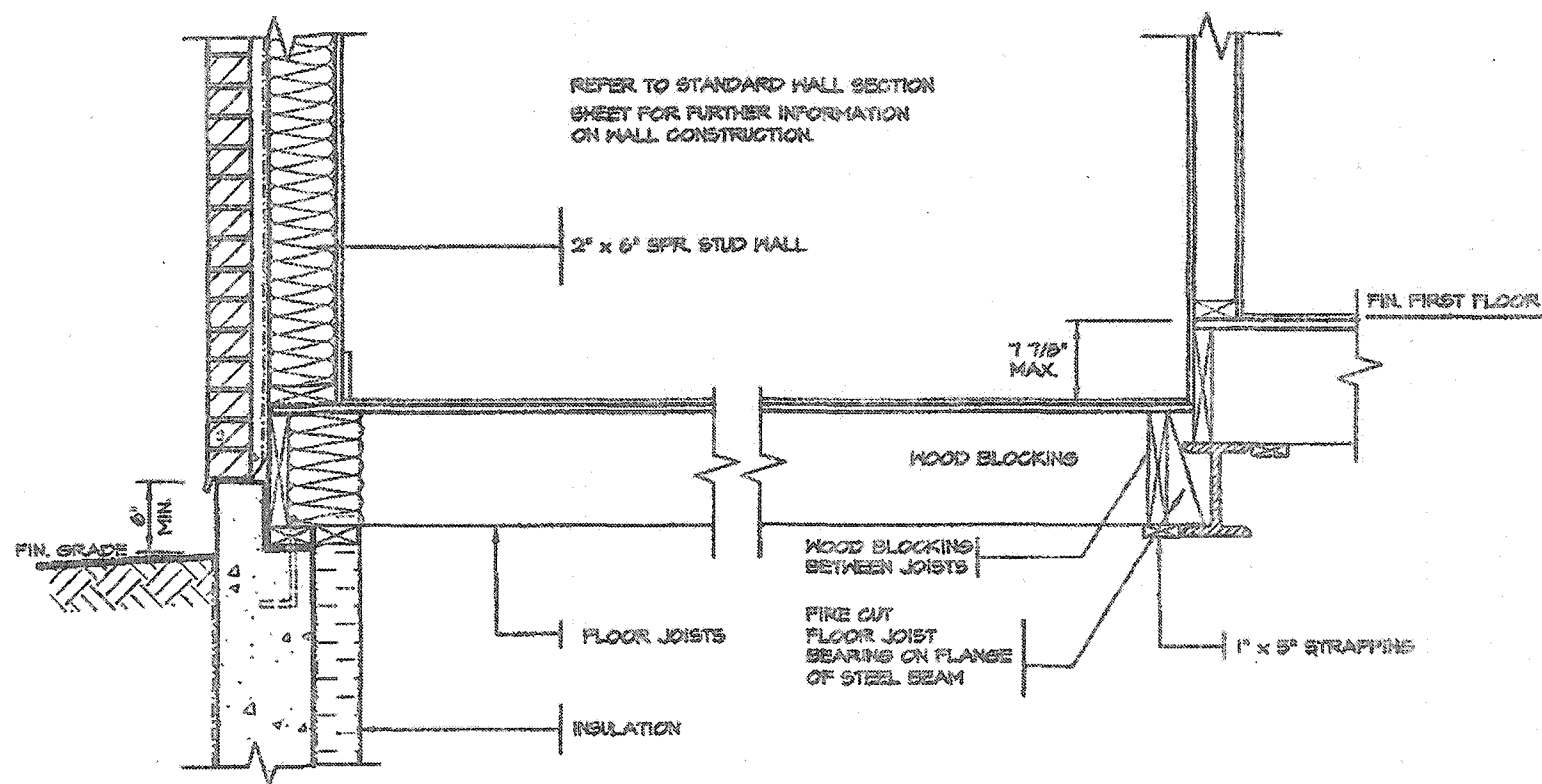
DATE
JULY 2018

CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED.

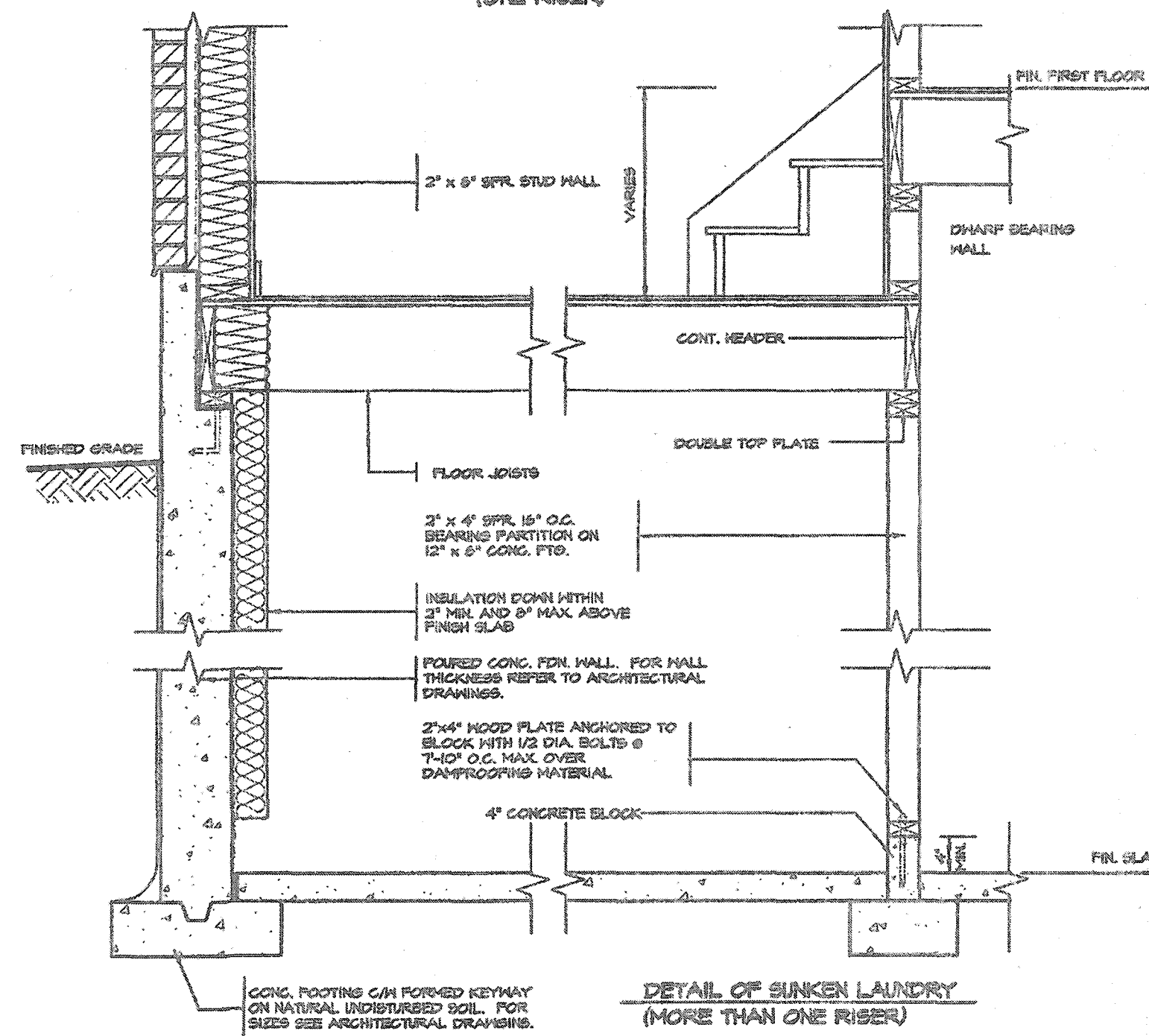
PAGE NO.
4

PROJECT NAME
RUSSELL GARDENS III

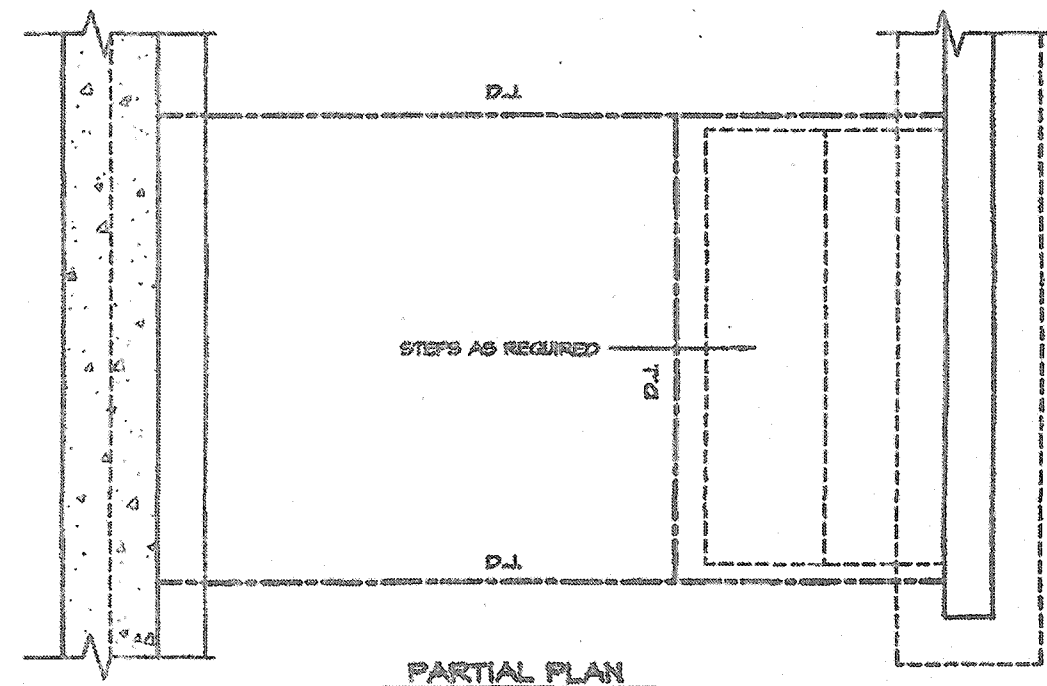
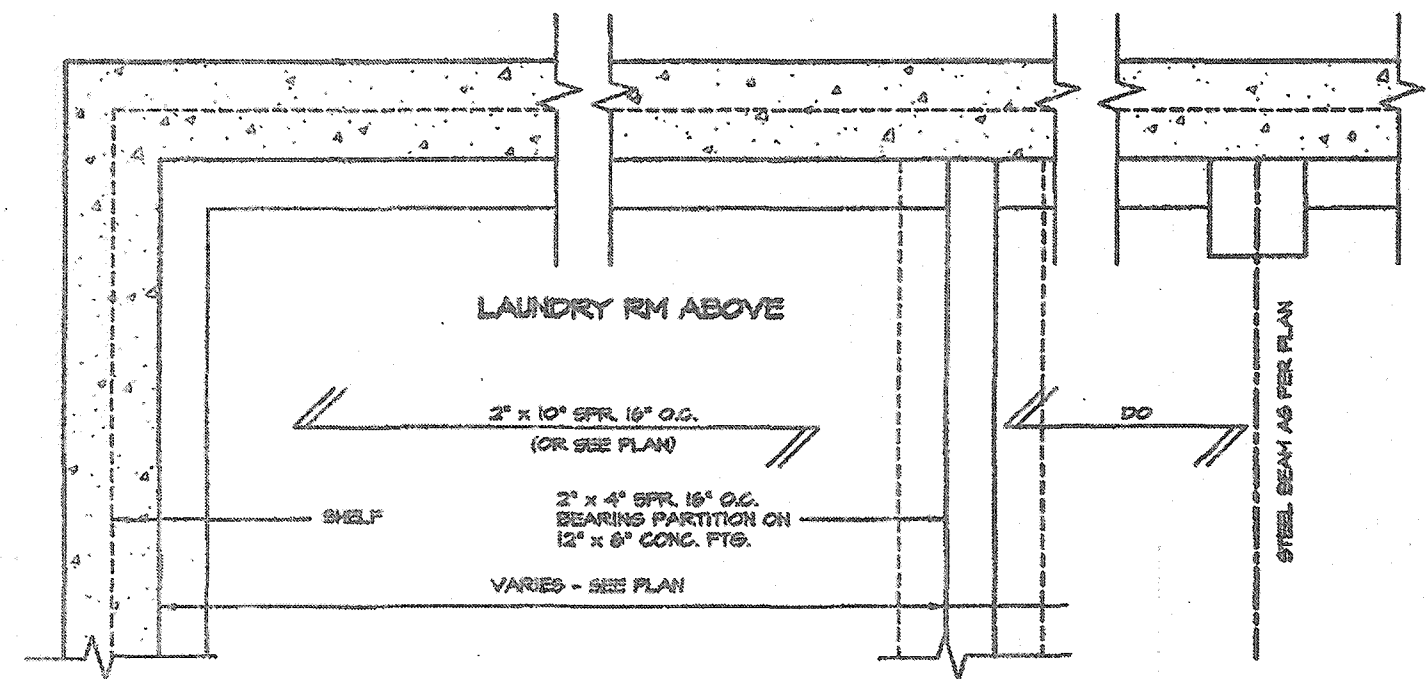
Greenpark.



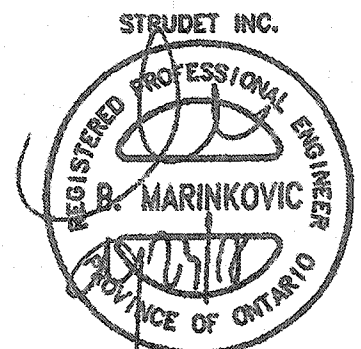
DETAIL OF SUNKEN LAUNDRY
(ONE RISER)



DETAIL OF SUNKEN LAUNDRY
(MORE THAN ONE RISER)



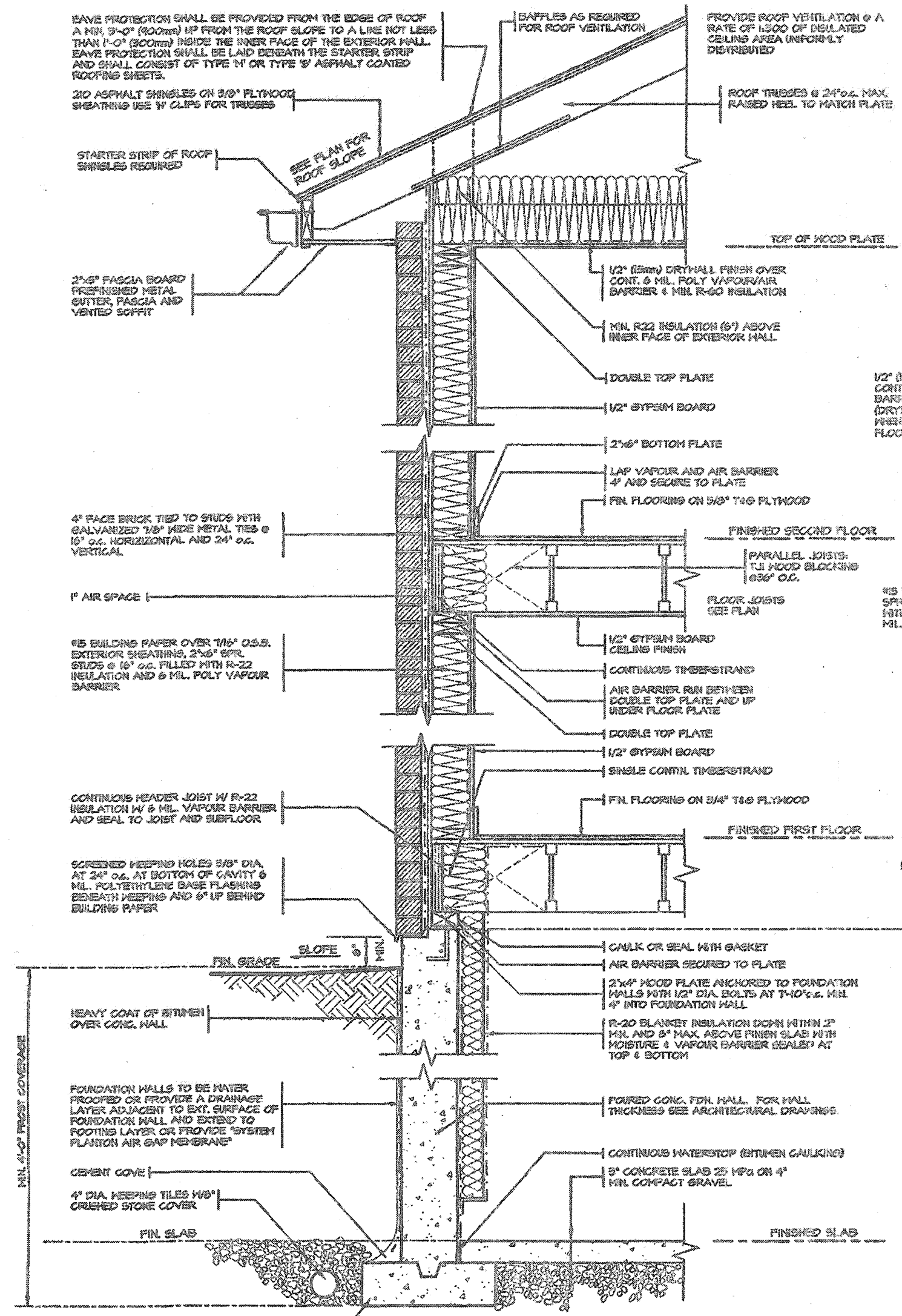
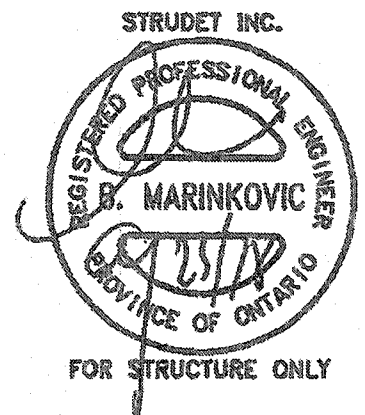
PARTIAL PLAN



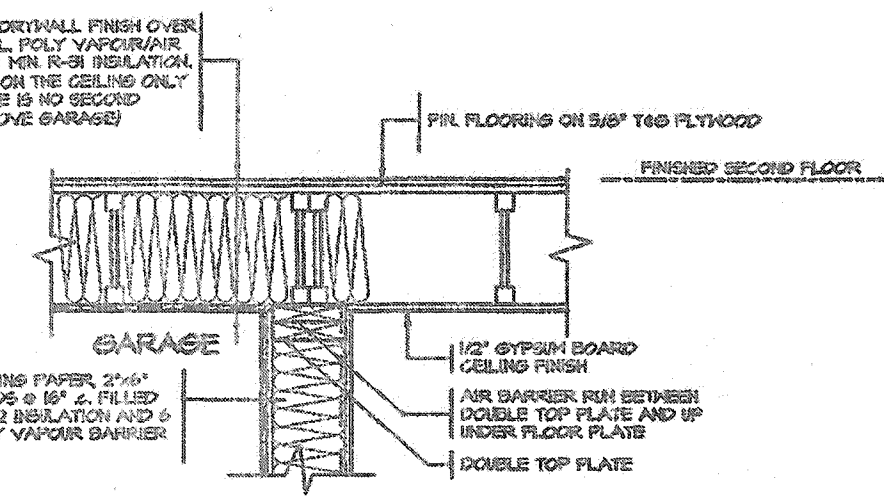
FOR STRUCTURE ONLY

2012 CODE
COMPLIANCE PACKAGE "A1"

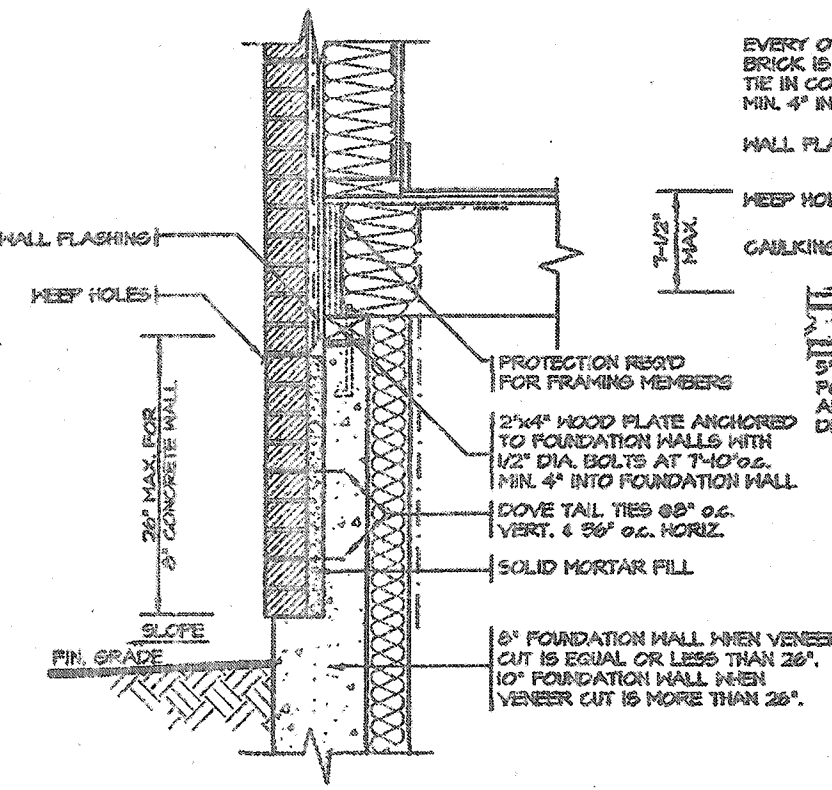
5. 4. 3. 2. 1. ISSUED FOR PERMIT JUL 30, 2016 REVISIONS	The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer. QUALIFICATION INFORMATION Required unless design is exempt under Division C, Subsection 3.2.6 of the building code VIKAS GAJJAR NAME SIGNATURE 28770 BCIN	REGION DESIGN INC. 5700 DUFFERIN ST. CONCORD, ONTARIO L/K 456 P (416) 730-4090 F (905) 560-0745	REGION DESIGN INC.	SHEET TITLE LAUNDRY DETAILS SUNKEN SCALE 3/4"=1'-0" DATE JULY 2016	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED. PAGE No. 5	Greenpark. PROJECT NAME RUSSELL GARDENS III
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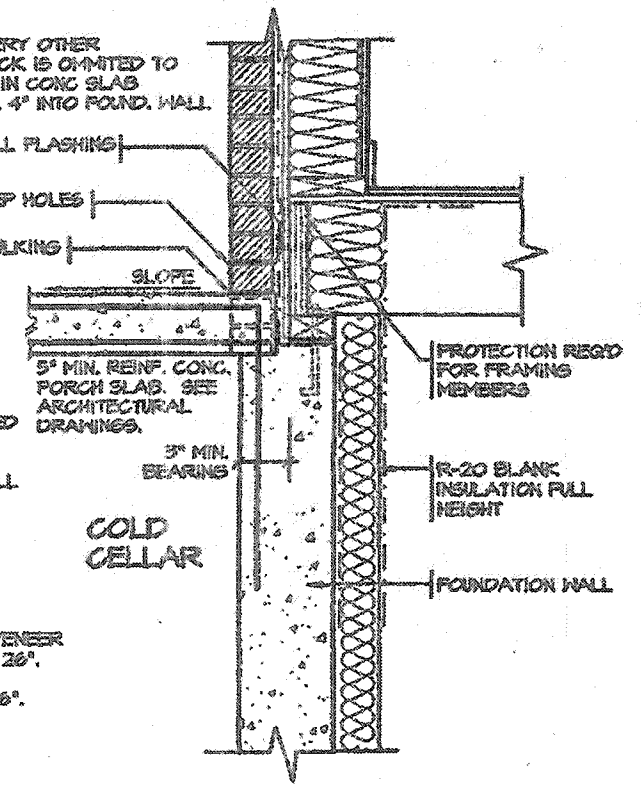
2 STOREY WALL SECTION



DETAIL FOR INTERIOR GARAGE WALLS & CEILINGS

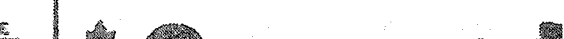


DETAIL FOR CONCRETE VENEER DROPPED GRADE



DETAIL FOR COLD CELLAR PORCH SLAB

2012 CODE COMPLIANCE PACKAGE "A1"

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4.				3700 DUFFERIN ST.		2"X6" BRICK VENEER		
3.				CONCORD, ONTARIO		2 STOREY SECTION		
2.				LAK 430		SCALE		
1.	ISSUED FOR PERMIT	JUL 30, 2018		P (416) 730-4098 F (905) 660-0748		3/4"=1'-0"		
REVISIONS			VIKAS GAJAR NAME	28770 BCIN		DATE	PAGE No.	
			SIGNATURE			JULY 2018	6	PROJECT NAME RUSSELL GARDENS III

EAVE PROTECTION SHALL BE PROVIDED FROM THE EDGE OF ROOF A MIN. 3'-0" (900mm) UP FROM THE ROOF SLOPE TO A LINE NOT LESS THAN 1'-0" (300mm) INSIDE THE INNER FACE OF THE EXTERIOR WALL. EAVE PROTECTION SHALL BE LAID BENEATH THE STARTER STRIP AND SHALL CONSIST OF TYPE 11 OR TYPE 5 ASPHALT COATED ROOFING SHEETS.

210 ASPHALT SHINGLES ON 5/8" PLYWOOD SHEATHING USE W CLIPS FOR TRUSSES

STARTER STRIP OF ROOF SHINGLES REQUIRED

2"x6" FASCIA BOARD FINISHED METAL GUTTER, FASCIA AND VENTED SOFFIT

1 1/2"x6" RAISED STUCCO FRIeze BOARD (TYP)

MESH BACKRAPPED

- FIN. COAT OF EXTERIOR ACRYLIC STUCCO
- FIBER MESH EMBEDDED IN PREP COAT
- INSULATION BOARD (R-5) IN GEOMETRICALLY DEFINED DRAINAGE CAVITY HAVING A MIN. CAVITY DEPTH OF 1/4"
- AIRMOISTURE BARRIER
- 7/8" EXTERIOR GRADE OSB SHEATHING
- 2" X 8" STUDS
- MIN. R-22 BATT INSULATION
- CONT. VAPOUR / AIR BARRIER
- 1/2" DRYWALL

(IF APPROVED SYSTEM, ALL MATERIALS AND SYSTEMS SHALL CONFORM TO CANULC-516.1)

CONCRETE SILL

CONTINUOUS HEADER JOIST W/ R-22 INSULATION W/ 6 MIL. VAPOUR BARRIER AND SEAL TO JOIST AND SUBFLOOR

4" FACE BRICK TIED TO STUDS WITH GALVANIZED 1/8" WIDE METAL TIES @ 16" O.C. HORIZONTAL AND 24" O.C. VERTICAL

SCREENED WEEPING HOLES 3/8" DIA. AT 24" O.C. AT BOTTOM OF CAVITY 6 MIL. POLYETHYLENE BASE FLASHING BENEATH WEEPING AND 6" UP BEHIND BUILDING PAPER

HEAVY COAT OF BITUMEN OVER CONC. WALL

FOUNDATION WALLS TO BE WATER PROOFED OR PROVIDE A DRAINAGE LAYER ADJACENT TO EXT. SURFACE OF FOUNDATION WALL AND EXTEND TO FOOTING LAYER OR PROVIDE "SYSTEM PLANTION AIR GAP MEMBRANE"

CEMENT COVE

4" DIA. WEeping TILES W/6" CRUSHED STONE COVER

FIN. SLAB

CONC. FOOTING CAN FORMED KEYWAY ON NATURAL UNDISTURBED SOIL. FOR FOOTING SIZES SEE ARCHITECTURAL DRAWINGS.

2 STOREY WALL SECTION

BAFFLES AS REQUIRED FOR ROOF VENTILATION

PROVIDE ROOF VENTILATION @ A RATE OF 1:300 OF INSULATED CEILING AREA UNIFORMLY DISTRIBUTED

ROOF TRUSSES @ 24" O.C. MAX. RAISED NEEL TO MATCH PLATE

TOP OF WOOD PLATE

1/2" (12mm) DRYWALL FINISH OVER CONT. 6 MIL. FOLY VAPOUR/AIR BARRIER & MIN. R-30 INSULATION

MIN. R-22 INSULATION ABOVE INNER FACE OF EXTERIOR WALL

DOUBLE TOP PLATE

1/2" GYPSUM BOARD

2"x6" BOTTOM PLATE

LAP VAPOUR AND AIR BARRIER 4" AND SECURE TO PLATE

FIN. FLOORING ON 5/8" T&G PLYWOOD

FINISHED SECOND FLOOR

PARALLEL JOISTS: T&G WOOD BLOCKING @ 36" O.C.

FLOOR JOISTS SEE PLAN

1/2" GYPSUM BOARD

CEILING FINISH

SINGLE CONT. TIMBERSTRAND

AIR BARRIER RUN BETWEEN DOUBLE TOP PLATE AND UP UNDER FLOOR PLATE

DOUBLE TOP PLATE

1/2" GYPSUM BOARD

SINGLE CONTIN. TIMBERSTRAND

FIN. FLOORING ON 5/8" T&G PLYWOOD

FINISHED FIRST FLOOR

CAULK OR SEAL WITH GASKET

AIR BARRIER SECURED TO PLATE

2"x4" WOOD PLATE ANCHORED TO WALLS WITH 1/2" DIA. BOLTS AT 7'-0" O.C. MIN. 4" INTO FOUNDATION WALL

R-20 BLANKET INSULATION DOWN WITHIN 2" MIN. AND 8" MAX. ABOVE FINISH SLAB WITH MOISTURE & VAPOUR BARRIER SEALED AT TOP & BOTTOM

POURED CONC. FOR WALL. FOR WALL THICKNESS SEE ARCHITECTURAL DRAWINGS.

CONTINUOUS WATERSTOP (BITUMEN CAULKING)

8" CONCRETE SLAB 25 MPa ON 4" MIN. COMPACT GRAVEL

FINISHED SLAB



WOOD SHEATHING

AIRMOISTURE BARRIER

FIBER MESH EMBEDDED IN PREP COAT

INSULATION BOARD (R-5) IN GEOMETRICALLY DEFINED DRAINAGE CAVITY HAVING A MIN. CAVITY DEPTH OF 1/4"

STARTER MESH (BACKRAPPED)

CAULK WITH BEAD VENT

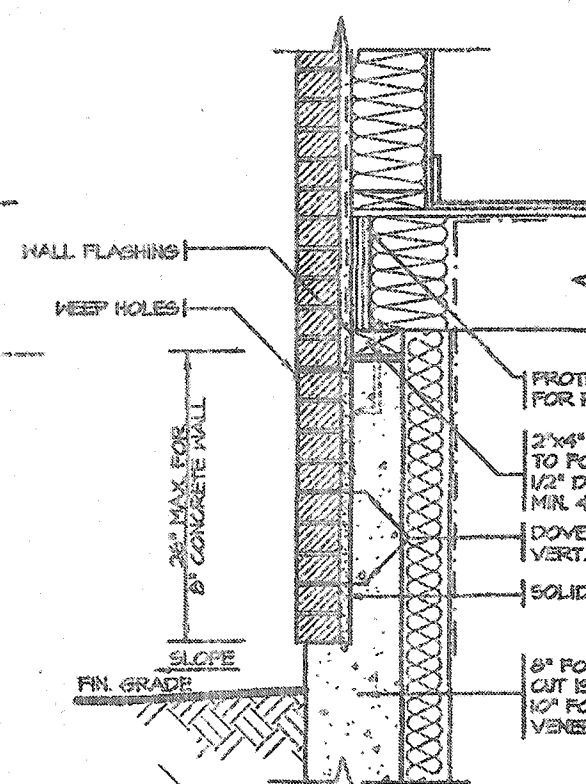
FLASHING

CONCRETE SILL

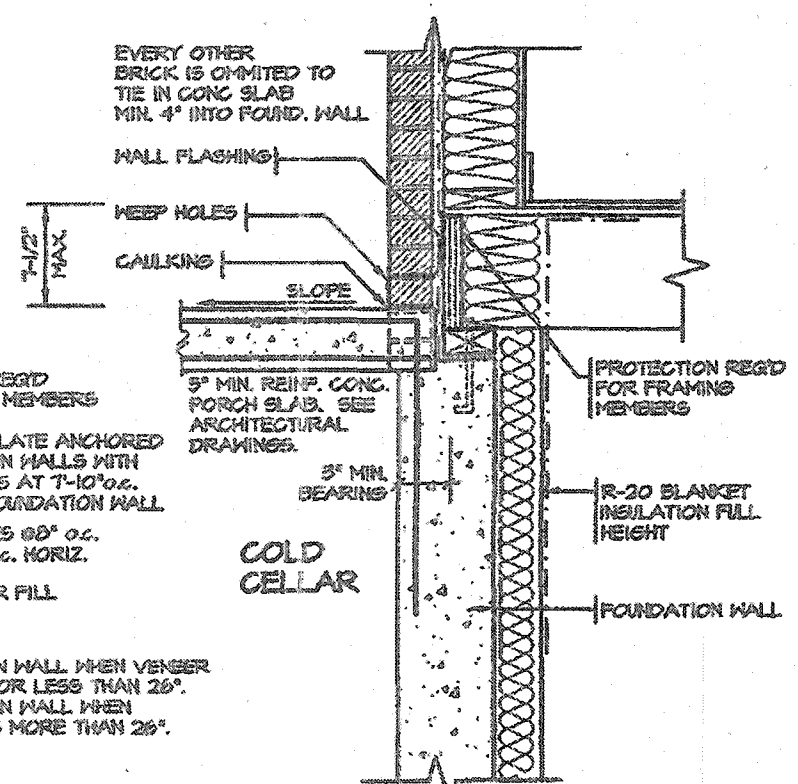
MASONRY CLADDING AS PER ELEVATION

A. TERMINATION AT MASONRY CLADDING WITH SEALANT

1 1/2" = 1'0"



DETAIL FOR CONCRETE VENEER DROPPED GRADE



DETAIL FOR COLD CELLAR PORCH SLAB

2012 CODE COMPLIANCE PACKAGE "A1"

5.	
4.	
3.	
2.	
1.	ISSUED FOR PERMIT JUL 30, 2018
REVISIONS	

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
Required unless design is exempt under Division C, Subsection 9.2.5 of the building code

VIKAS GAJJAR
NAME
28770
SIGNATURE
BCIN

REGION DESIGN INC.
8700 DUFFERIN ST.
CONCORD, ONTARIO
L4N 4S3
P (416) 736-4096
F (905) 860-0745

REGION DESIGN INC.

SHEET TITLE
2"x6" STUCCO WALL
2 STOREY SECTION

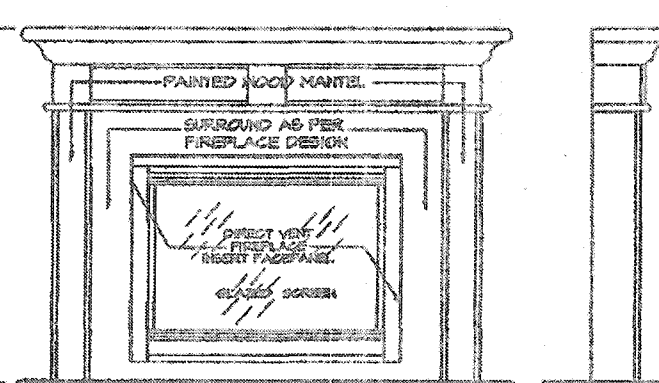
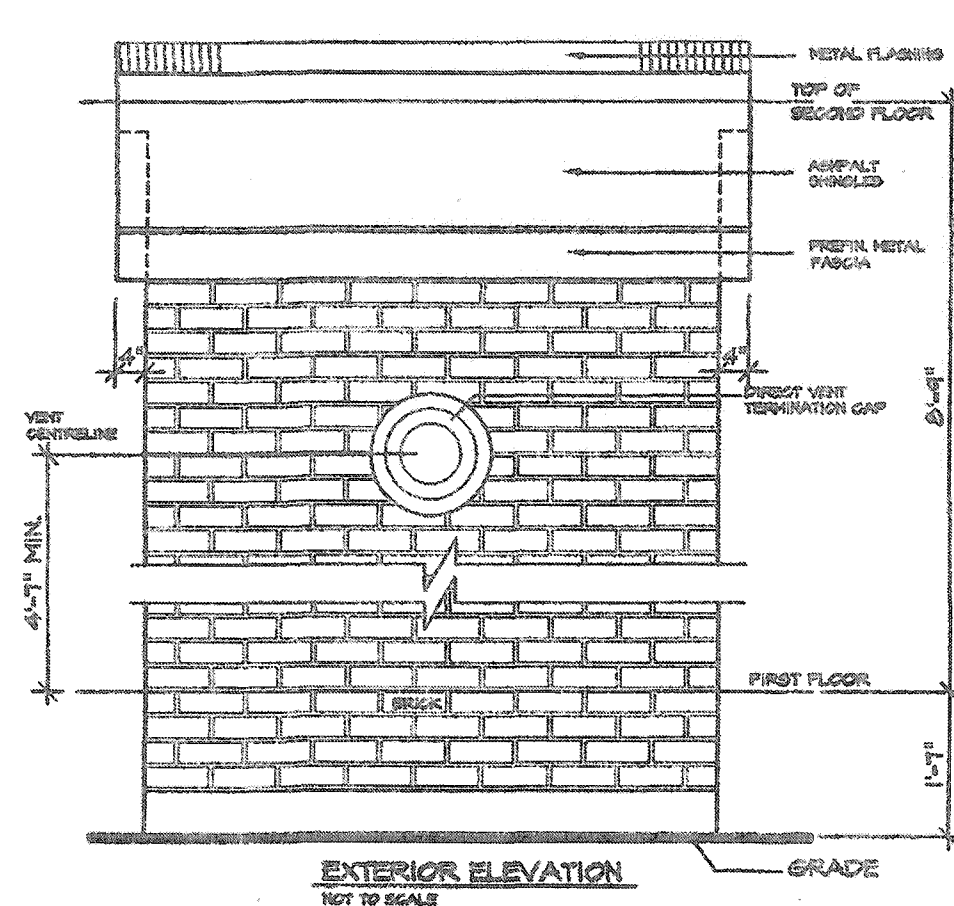
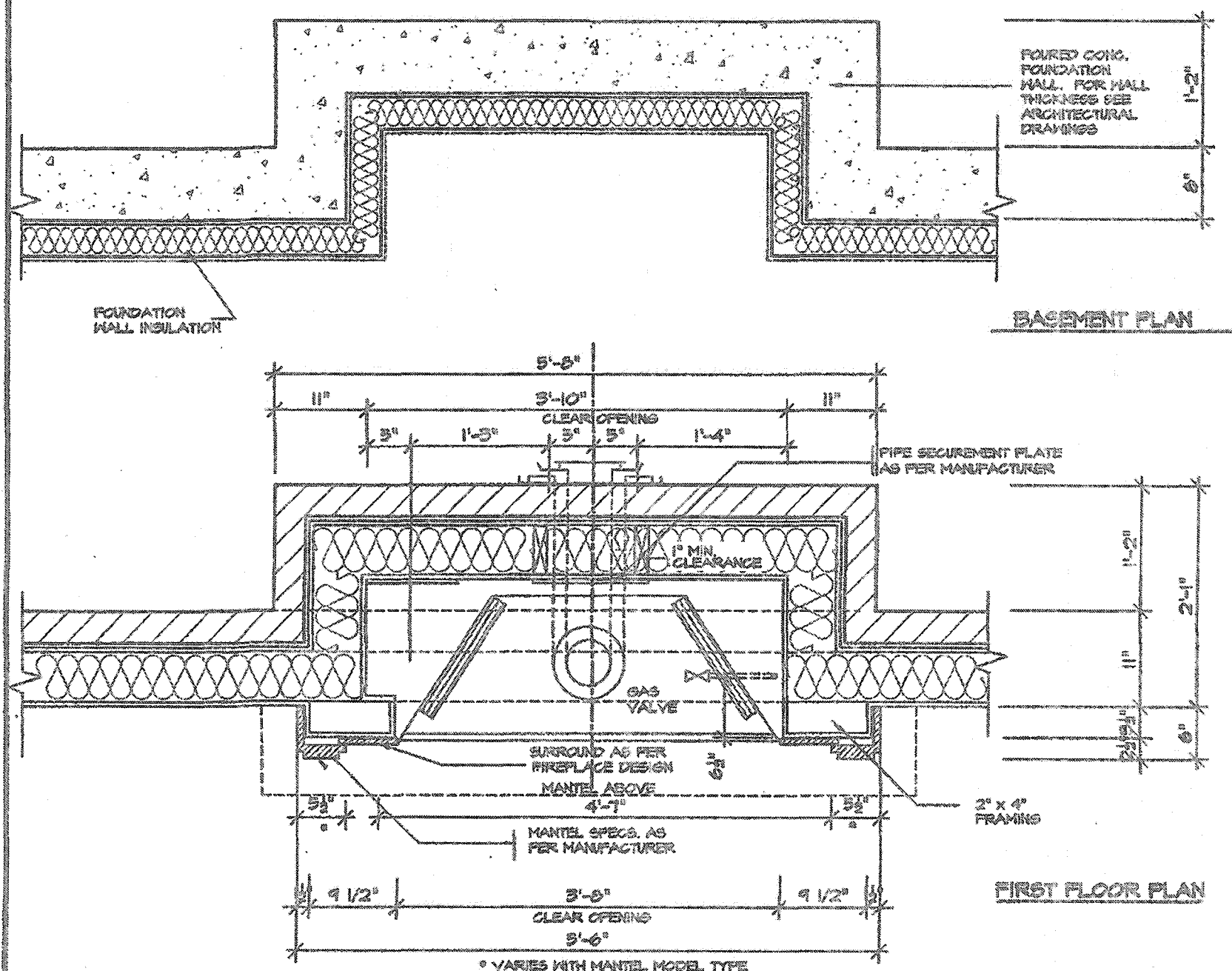
SCALE
AS NOTED

DATE
JULY 2018

CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED.

PAGE NO.
6-2

PROJECT NAME
RUSSELL GARDENS III

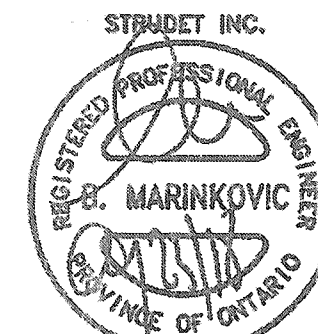
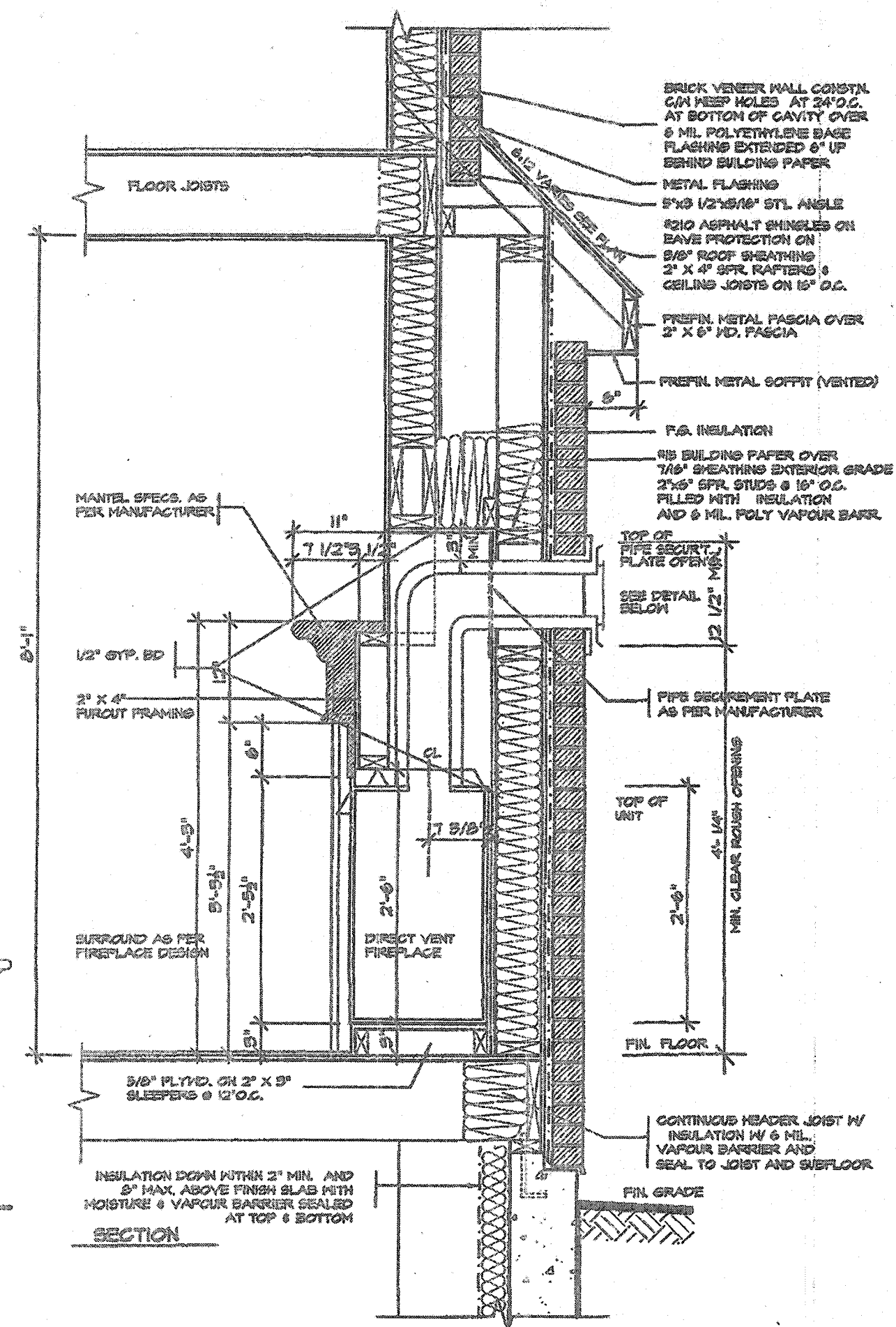


FRONT/SIDE ELEVATION

NOT TO SCALE

GENERAL INSTALLATION NOTES

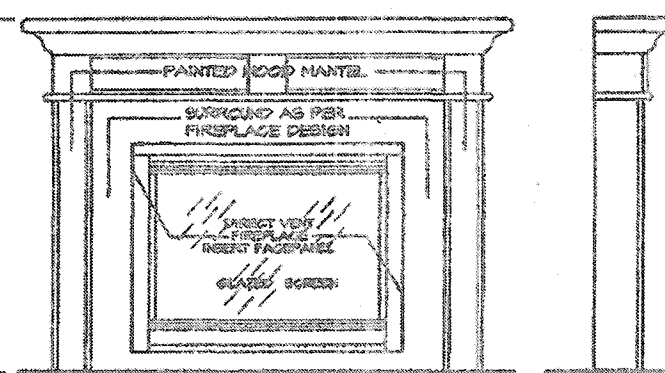
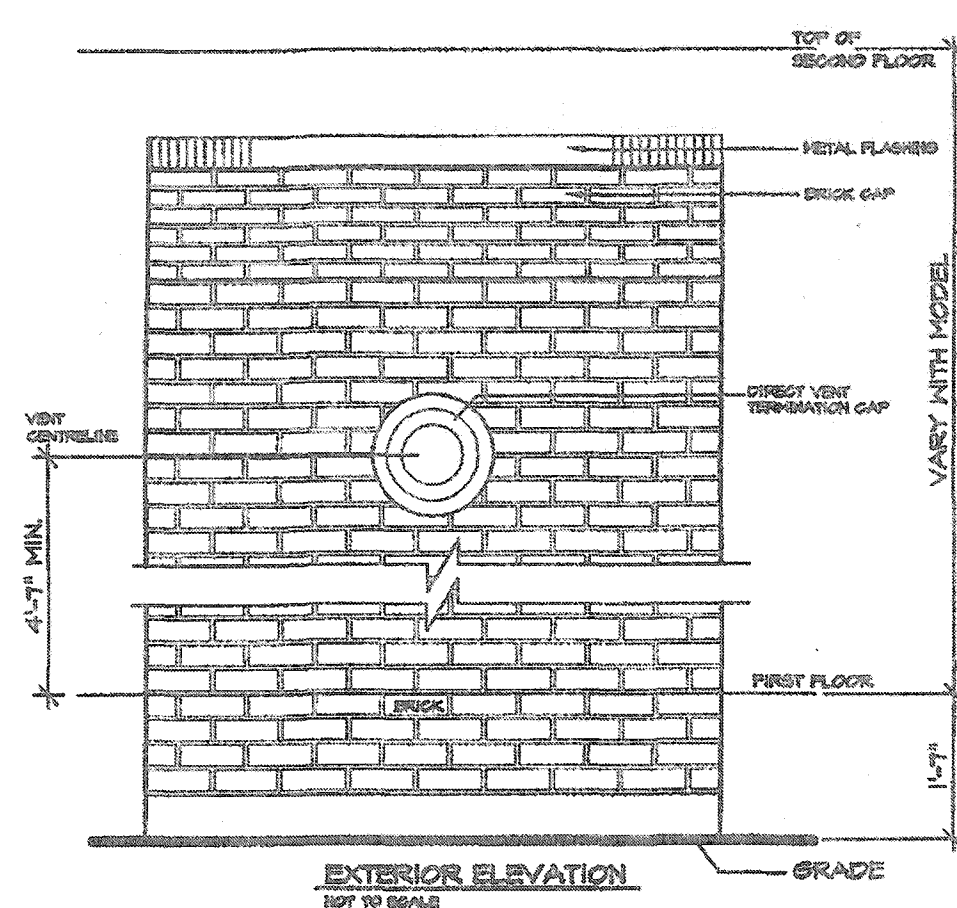
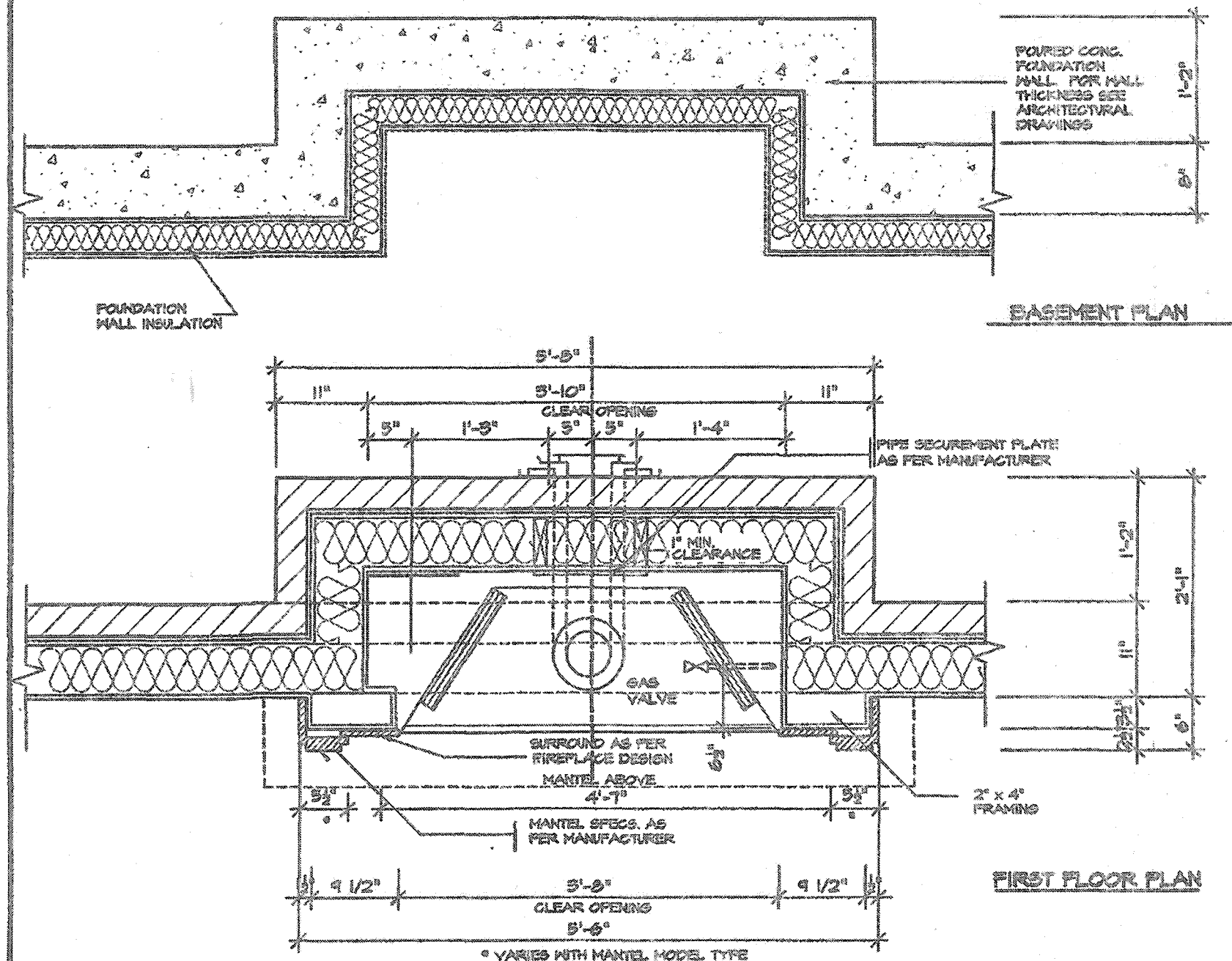
- 1.0 UNIT INSTALLATION TO STRICTLY CONFORM TO MANUFACTURERS INSTALLATION MANUAL AND ALL APPLICABLE CODES OF LOCAL AUTHORITIES HAVING JURISDICTION INCLUDING CAN/CSA-B141.1 & 2.
- 2.0 INSTALL WITH THE FOLLOWING MINIMUM CLEARANCES TO COMBUSTIBLES:
- FROM TOP OF UNIT 0"
 - FROM BACK OF UNIT 1/2"
 - FROM SIDES OF UNIT 1/2"
 - FROM TOP OF HORIZENT 3"
 - FROM SIDES TO VENT 1"
- 3.0 THE DIRECT VENT UNIT ILLUSTRATED IS THE GC350 MODEL AS MANUFACTURED BY HEATILATOR.
- 4.0 THE MANTEL ILLUSTRATED IS THE S-2 GB AS SUPPLIED BY GREATER TORONTO FIREPLACE.



FOR STRUCTURE ONLY

**2012 CODE
COMPLIANCE PACKAGE "A1"**

5.		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 Required unless design is exempt under Division C, Subsection 3.2.5 of the building code VIKAS CAJJAR  28770 NAME SIGNATURE BCIN	REGION DESIGN INC. 5700 DUFFERIN ST. CONCORD, ONTARIO L4K 4S6 P (416) 738-4005 F (905) 660-0746	REGION DESIGN INC.	SHEET TITLE	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED.		
4.					VENT FIREPLACE	PAGE No.		
3.					DIRECT			
2.					SCALE			3/4"=1'-0"
1.	ISSUED FOR PERMIT				DATE			JULY 2018
REVISIONS							PROJECT NAME	
							RUSSELL GARDENS III	



FRONT/SIDE ELEVATION
NOT TO SCALE

GENERAL INSTALLATION NOTES

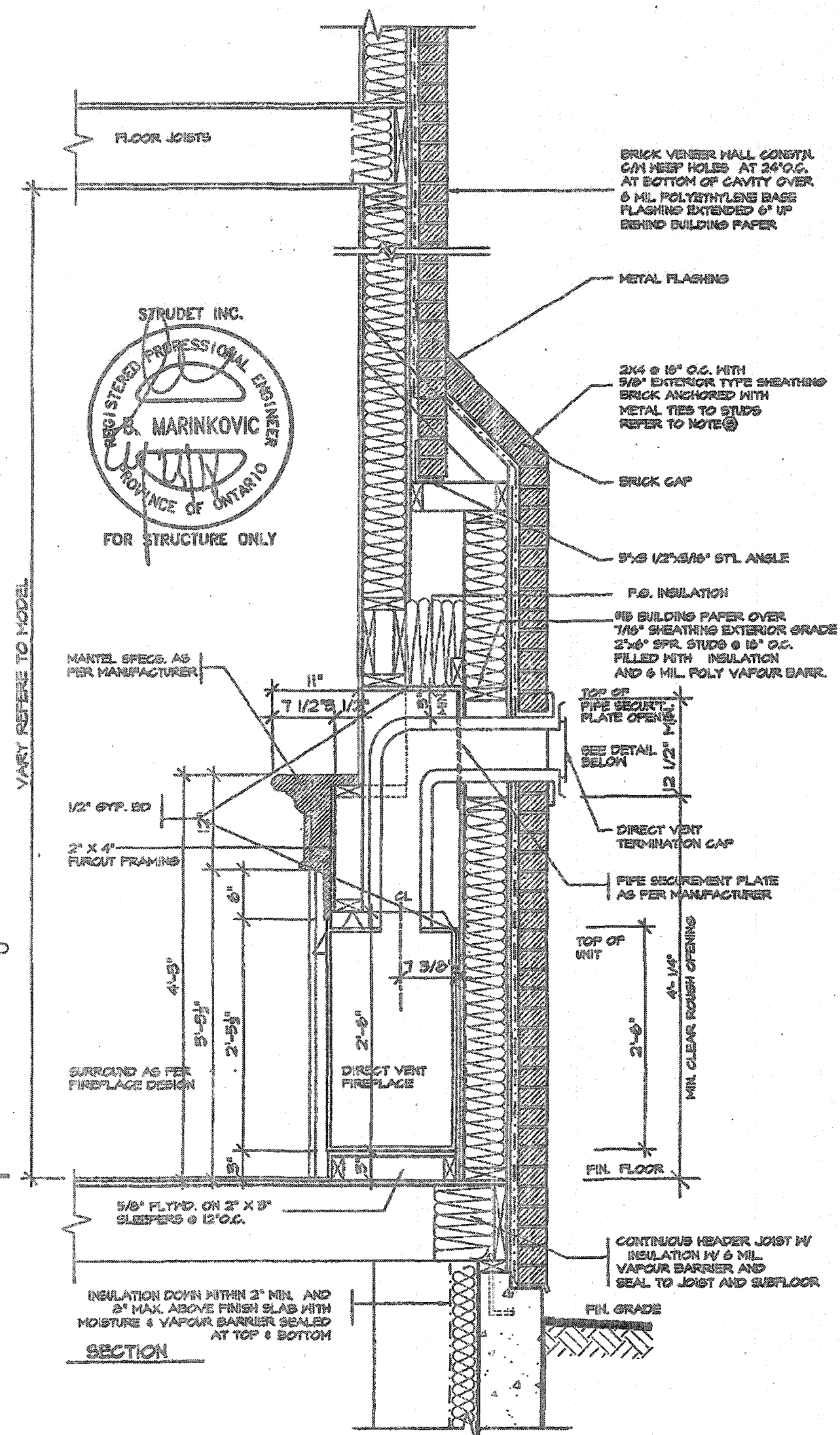
1.0 UNIT INSTALLATION TO STRICTLY CONFORM TO MANUFACTURERS' INSTALLATION MANUAL AND ALL APPLICABLE CODES OF LOCAL AUTHORITIES HAVING JURISDICTION INCLUDING CANADA-B144.1 & 2.

2.0 INSTALL WITH THE FOLLOWING MINIMUM CLEARANCES TO COMBUSTIBLES:

- FROM TOP OF UNIT 0"
- FROM BACK OF UNIT 1/2"
- FROM SIDES OF UNIT 1/2"
- FROM TOP OF HORIZONTAL B"
- FROM SIDES TO VENT 1"

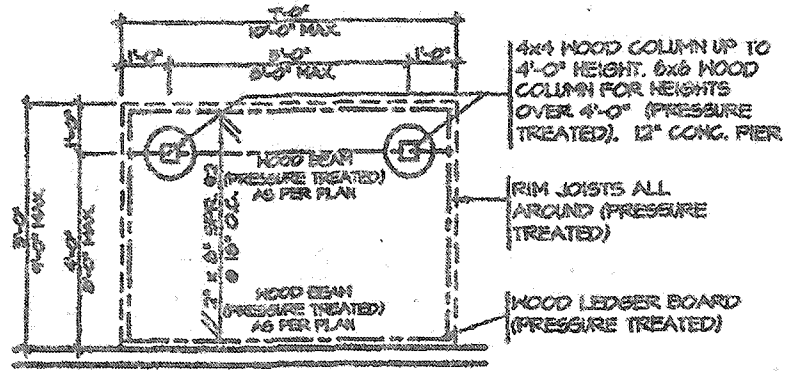
3.0 THE DIRECT VENT UNIT ILLUSTRATED IS THE GC500 MODEL AS MANUFACTURED BY HEATILATOR.

4.0 THE MANTEL ILLUSTRATED IS THE S-2 BR AS SUPPLIED BY GREATER TORONTO FIREPLACE.

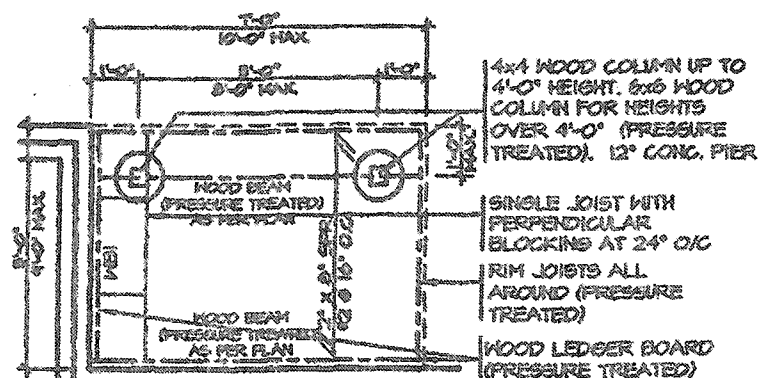


**2012 CODE
COMPLIANCE PACKAGE "A1"**

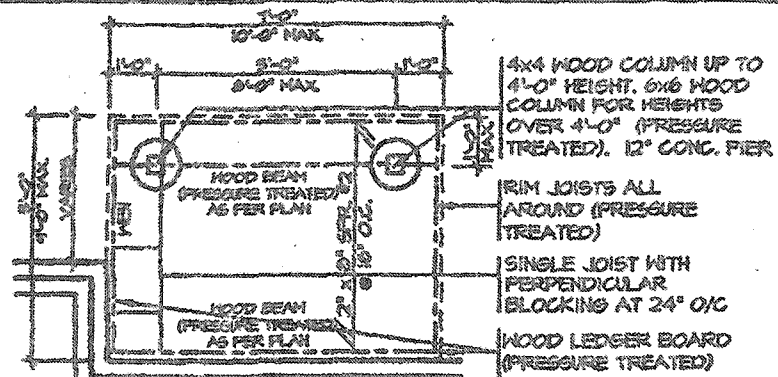
5.		The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer. QUALIFICATION INFORMATION Required unless design is exempt under Division C, Subsection 3.2.5 of the building code REGION DESIGN INC. 8700 SUFFERIN ST. CONCORD, ONTARIO L4K 4S6 P (416) 730-4098 F (905) 660-0766	REGION DESIGN INC.	SHEET TITLE	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED.			
4.				VENT FIREPLACE DIRECT				
3.				SCALE	3/4"=1'-0"		PAGE No.	7-2
2.				DATE	JULY 2018			
1.	ISSUED FOR PERMIT			JUL 30, 2018				PROJECT NAME
REVISIONS		VIKAS GAJAN NAME SIGNATURE BCIN 28770						



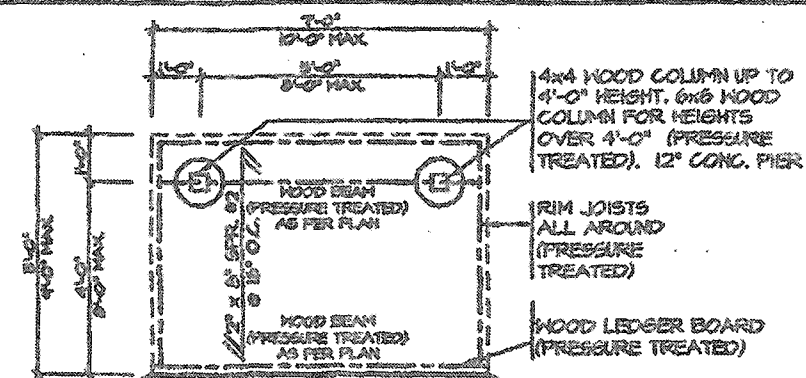
TYPICAL DECK LAYOUT
SCALE: 1/4"=1'-0"



TYPICAL DECK LAYOUT
SCALE: 1/4"=1'-0"



TYPICAL DECK LAYOUT
SCALE: 1/4"=1'-0"



TYPICAL DECK LAYOUT
SCALE: 1/4"=1'-0"

2" x 2" PICKETS CHAMFERED AT BOTTOM WITH 2" x 6" TOP CAP AND 2" x 4" TOP RAIL (REFER TO DETAIL 1)

3'-6" HIGH WOOD RAILING IF DECK FLOOR IS MORE THAN 5'-11" ABOVE GRADE AND 3'-0" HIGH WOOD RAILING IF DECK IS LESS THAN 5'-11" ABOVE GRADE

MAX. 4" OPENING BETWEEN PICKETS

5/4x6 (PRESSURE TREATED) DECKING WITH 1/4" GAP

RIM JOISTS (PRESSURE TREATED)

GUARDS FOR STAIRS SHALL NOT BE LESS THAN 2'-11" HIGH MEASURED VERTICALLY FROM A LINE DRAWN THROUGH THE OUTSIDE EDGES OF THE STAIR NOSINGS

2x4 WOOD BLOCKING @ 4'-0" O.C. MIN. BETWEEN STRINGERS

2x12 STRINGER

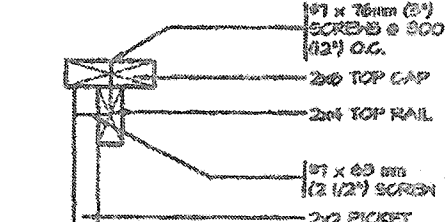
PRECAST CONCRETE SLAB

(CORROSION RESISTANT) SIMPSON STRONG-TIE COLUMN BASE, 1/2" DIA. ANCHOR BOLT.

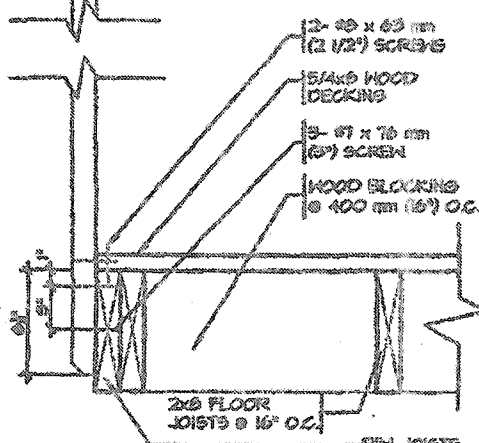
12" CONC. PIER

DECK SECTION WITH BRICK VENEER
SCALE: 1/2"=1'-0"

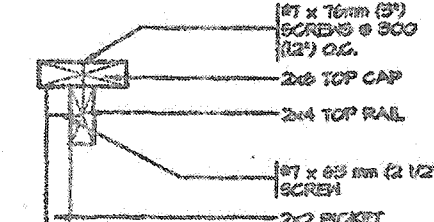
DETAIL 1
CANTILEVERED PICKET SCREWED TO RIM JOIST AND DECK
GUARD PARALLEL TO FLOOR JOISTS
SCALE: 1"=1'-0"



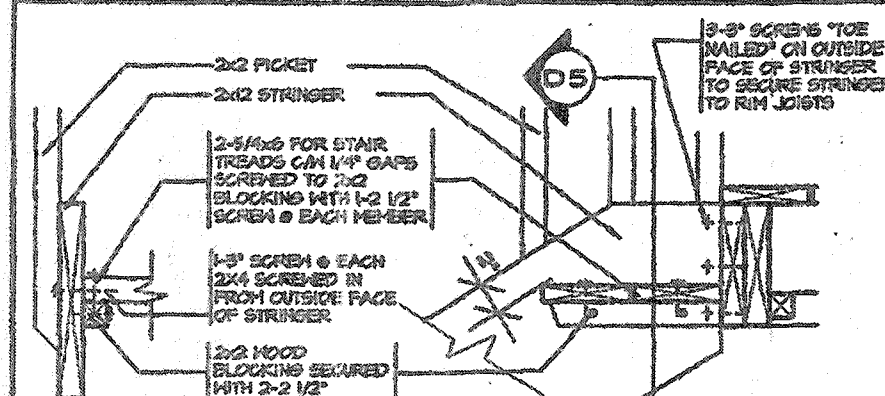
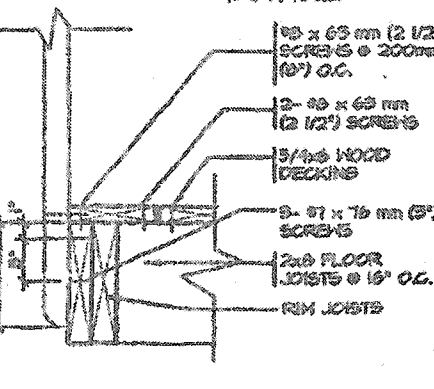
NOTE: FASTEN RIM JOISTS TO WOOD BLOCKING WITH 3-02mm (3/4") NAILS



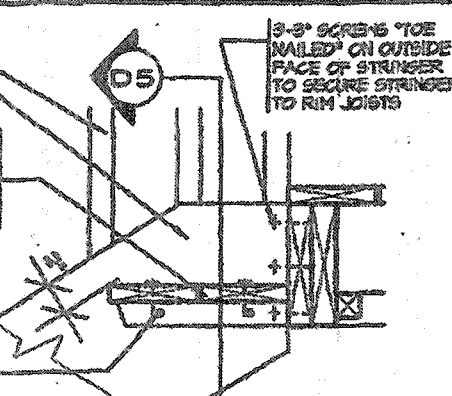
GUARD PERPENDICULAR TO FLOOR JOISTS
SCALE: 1"=1'-0"



NOTE: FASTEN RIM JOISTS TO EACH FLOOR JOIST WITH 3-02mm (3/4") NAILS



DETAIL 5
SECTION THROUGH STAIR STRINGER
SCALE: 1"=1'-0"



DETAIL 4
SECTION @ TREAD AND STRINGER SECUREMENT
SCALE: 1"=1'-0"

GENERAL NOTES

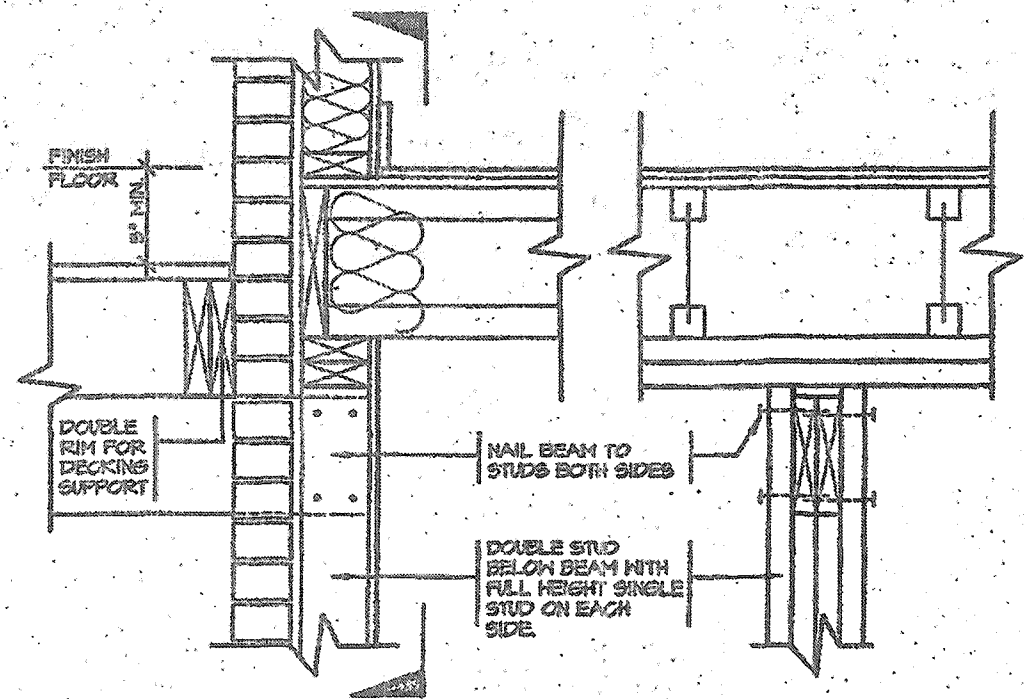
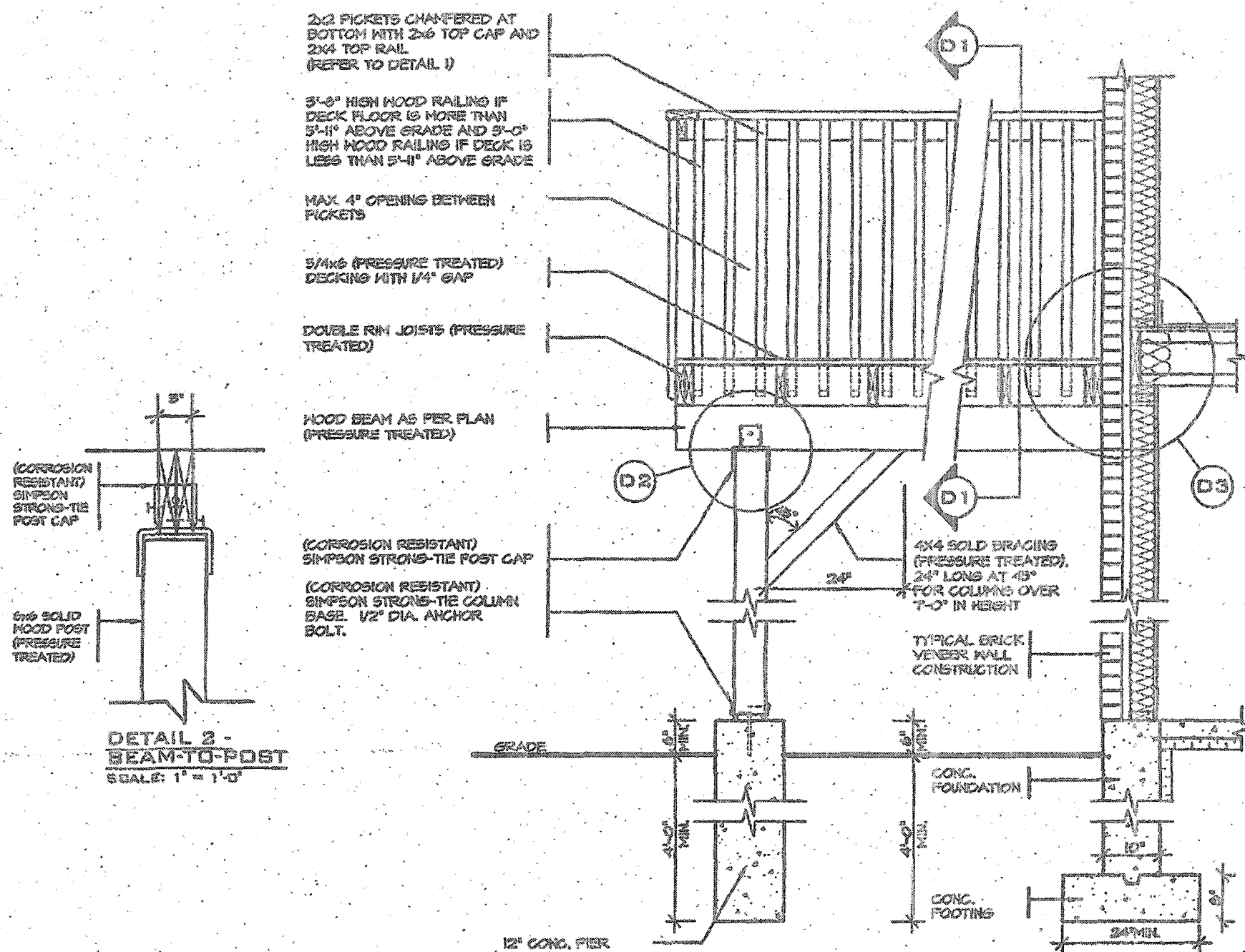
1. BRICK TO BE COMPRESSIVE STRENGTH OF 15 MPa (2200 psi) MIN. UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
2. MORTAR TO BE TYPE S WITH JOINT THICKNESS OF 10mm (3/8") MIN. AND 20mm (3/4") MAX.
3. ALL NAILS AND SCREWS TO BE GALVANIZED.
4. WOOD FOR CANTILEVERED PICKETS SHALL BE DOUGLAS FIR-LARCH, SPRUCE-PINE-FIR, OR HEM-FIR SPECIES.



FOR STRUCTURE ONLY
FEB 09 2017

2012 CODE COMPLIANCE PACKAGE "A1"

REVISIONS 1. REVISED FOR STARTIME NOV 16	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 Required unless design is exempt under Division C, Subsection 3.2.5 of the building code VIKAS GAJAR NAME SIGNATURE 28770 BCIN	REGION DESIGN INC. 2700 DUFFERIN ST. CONCORD, ONTARIO L1K 4G0 P (416) 730-4000 F (905) 660-0746	WOOD DECK DETAIL SCALE AS SHOWN DATE NOV 2016	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED. AREA PROJECT 00-00-00	Greenpark. PROJECT NAME RUSSELL GARDENS III
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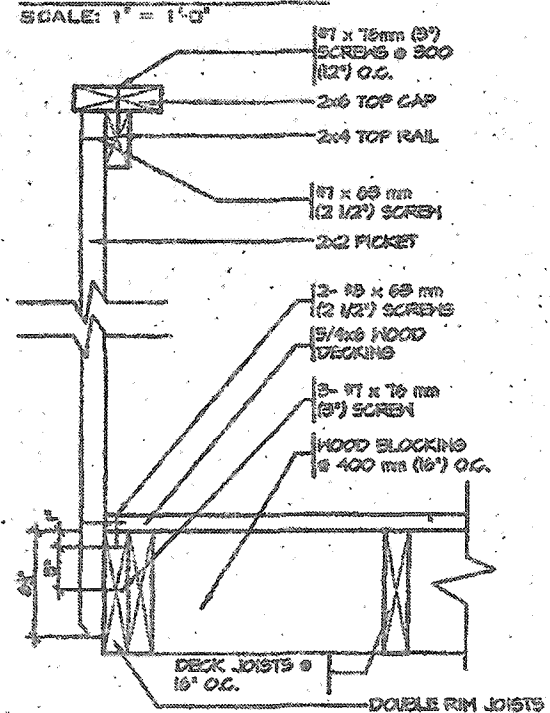
**DETAIL 3
BEAM-TO-STUD WALL**
SCALE: 1" = 1'-0"

DECK SECTION WITH BRICK VENEER
SCALE: 1/2" = 1'-0"

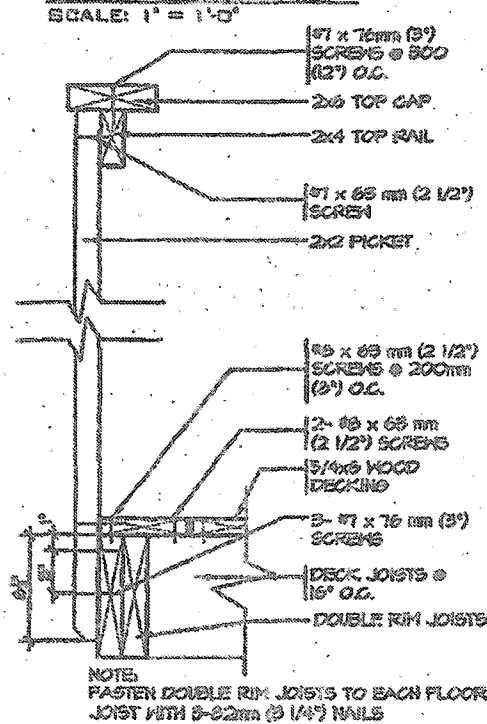
DETAIL 1

CANTILEVERED PICKET SCREWED TO RIM JOIST AND DECK

GUARD PARALLEL TO FLOOR JOISTS
SCALE: 1" = 1'-0"



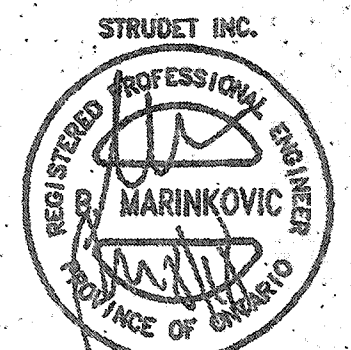
GUARD PERPENDICULAR TO FLOOR JOISTS
SCALE: 1" = 1'-0"



GENERAL NOTES

1. THE DECK HAS BEEN DESIGNED TO SAFELY SUPPORT A SUPERIMPOSED LOAD OF 1.4KPa (40psf).
2. ALL NAILS AND SCREWS TO BE GALVANIZED.
3. WOOD FOR CANTILEVERED PICKETS SHALL BE DOUGLAS FIR-LARCH, SPRUCE-PINE-FIR, OR HEM-FIR SPECIES.
4. CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 20MPa AT 28 DAYS AND 5-8% AIR ENTRAINMENT.
5. FOOTING TO BE PLACED ON UNDISTURBED SOIL WITH MIN. BEARING PRESSURE OF 150KPa (3200psf).

MAR 08 2018



FOR STRUCTURE ONLY
2012 CODE
COMPLIANCE PACKAGE "A1"

REVISIONS	
1. REVISED FOR RUSSELL GARDENS	MAR 2018

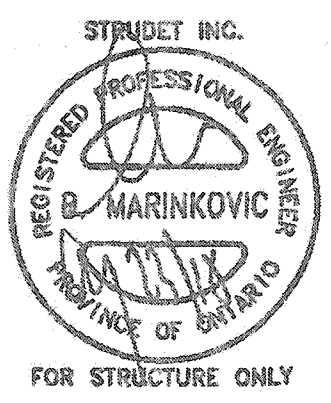
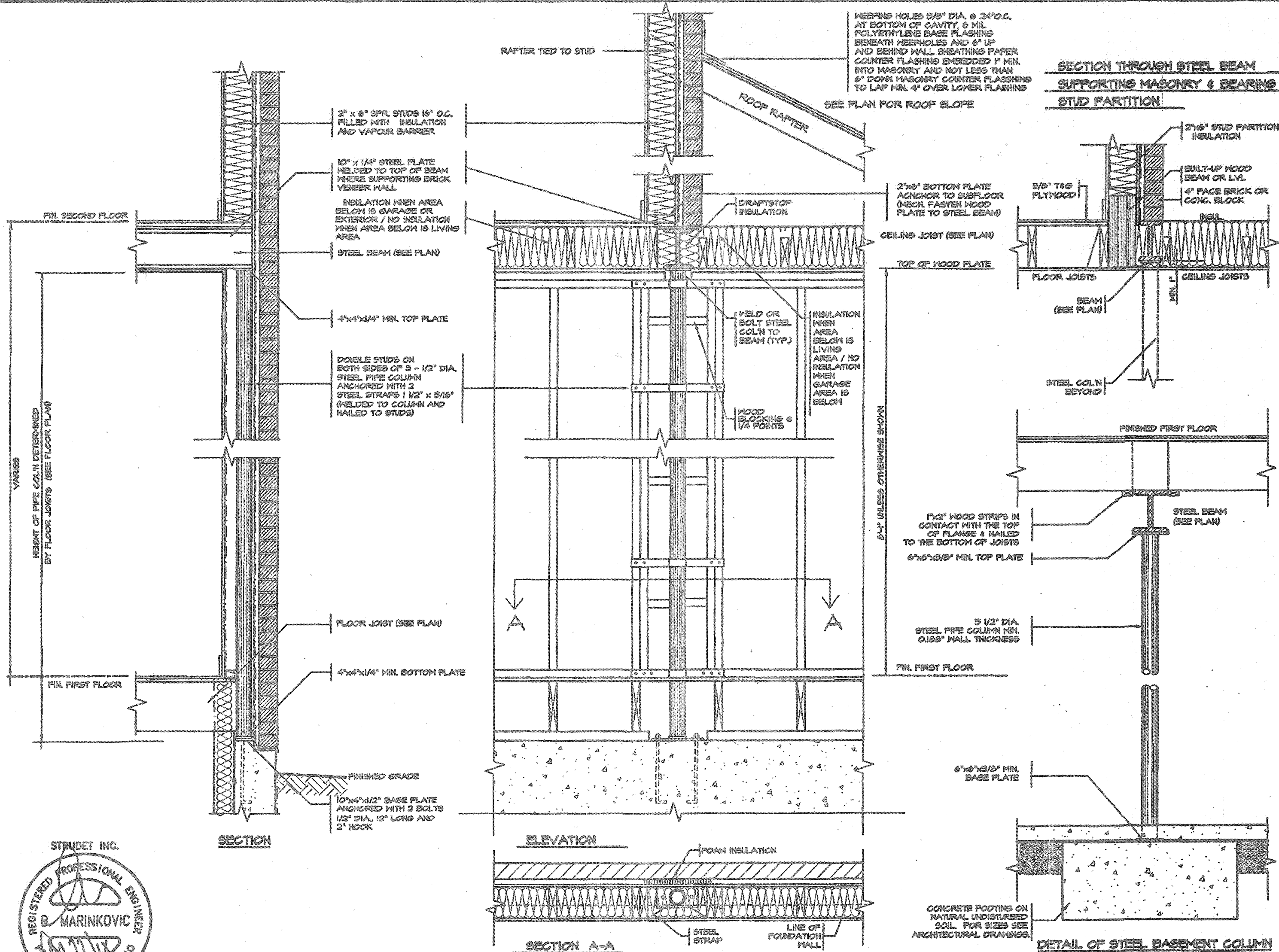
The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer.	
QUALIFICATION INFORMATION	
Required unless design is exempt under Division C, Subsection 3.2.5 of the building code	
VIKAS GAJAR	28770
NAME	SIGNATURE
	BCIN

REGION DESIGN INC.	
8700 DUFFERIN ST.	
CONCORD, ONTARIO	
L4K 4S0	
P (416) 736-4098	
F (905) 600-8745	

SHEET TITLE	
WALK-OUT DECK DETAILS	
SCALE AS SHOWN	BY
DATE MAR 2018	TYPE

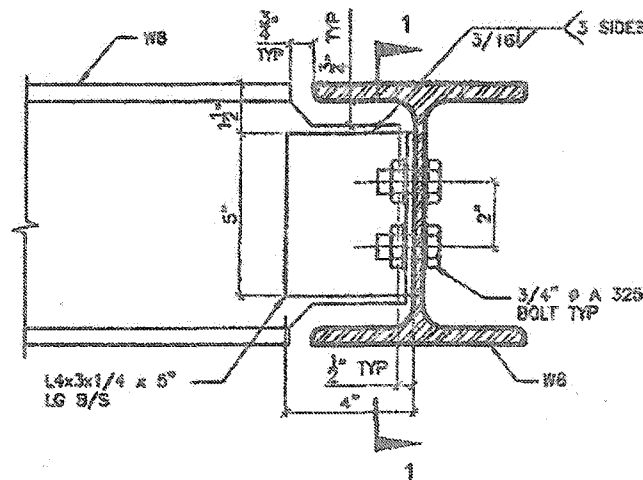
CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED.	
AREA	PAGE No.
PROJECT 00-00-00	8-2

Greenpark	
PROJECT NAME	
RUSSELL GARDENS III	



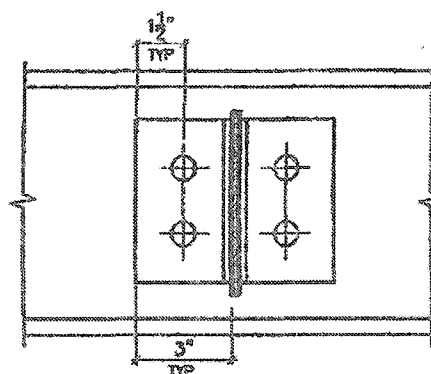
**2012 CODE
COMPLIANCE PACKAGE "A1"**

5. 4. 3. 2. 1. ISSUED FOR PERMIT JUL 30, 2016 REVISIONS	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 Required unless design is exempt under Division C, Subsection 3.2.5 of the building code VIKAS GAJJAR NAME 28770 SIGNATURE BCIN	REGION DESIGN INC. 5750 DUFFERIN ST. CONCORD, ONTARIO L4K 4G6 P (416) 736-4006 F (905) 660-0740	REGION DESIGN INC.	SHEET TITLE COLUMN DETAILS STEEL SCALE 3/4"=1'-0" DATE JULY 2016	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED. PAGE NO. 9	Greenpark. PROJECT NAME RUSSELL GARDENS III
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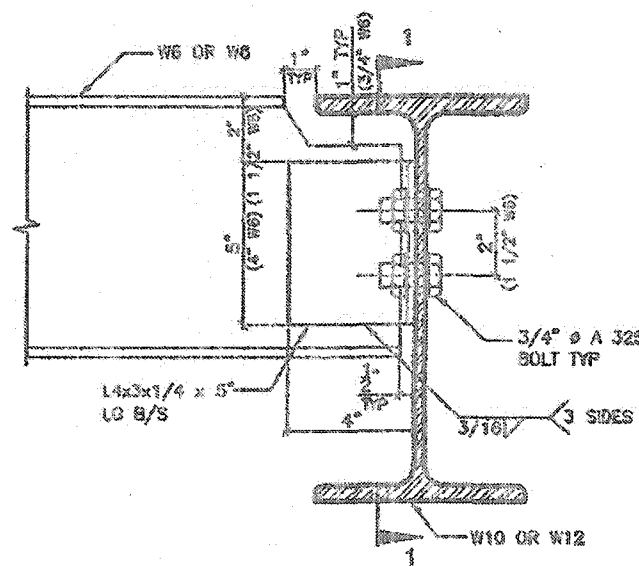


DETAIL 1.

W8
TO
W8
CONNECTION

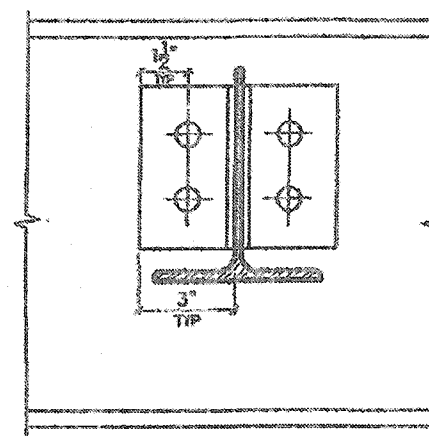


SECTION 1-1

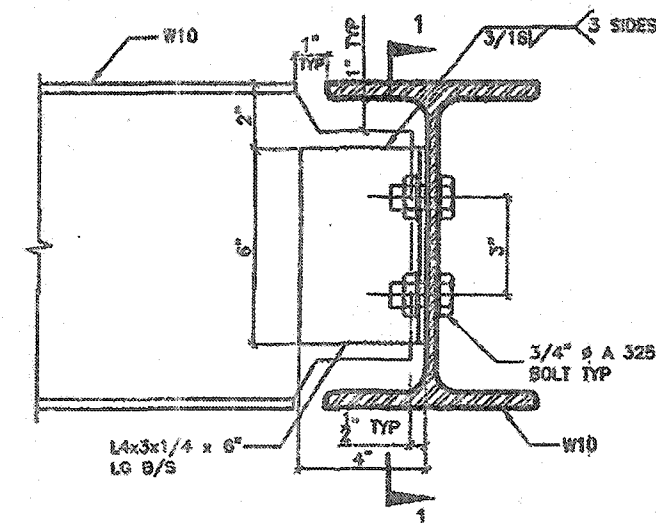


DETAIL 2.

W6(W8)
TO
W10(W12)
CONNECTION

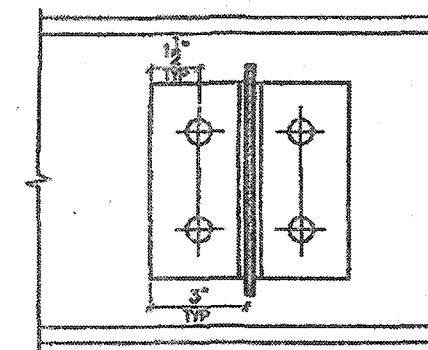


SECTION 1-1

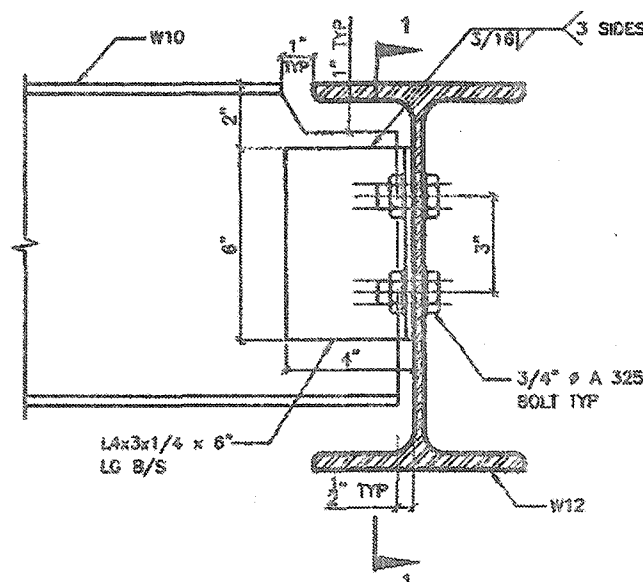


DETAIL 3.

W10
TO
W10
CONNECTION

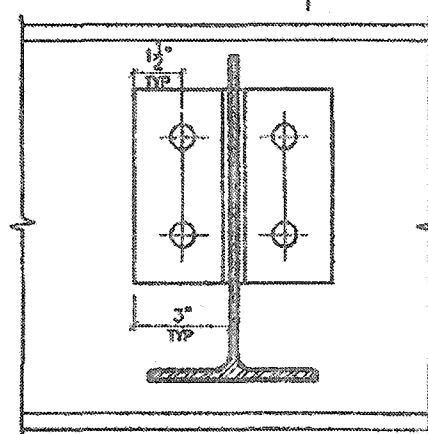


SECTION 1-1

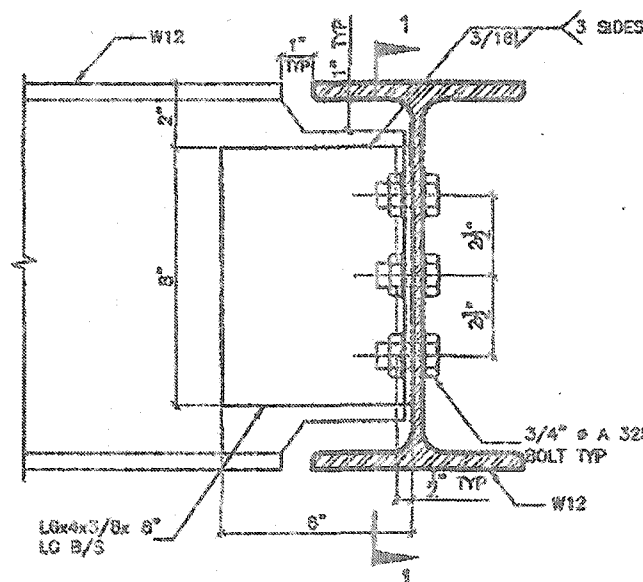


DETAIL 4.

W10
TO
W12
CONNECTION

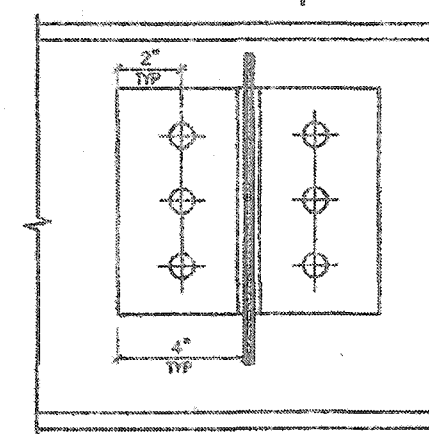


SECTION 1-1

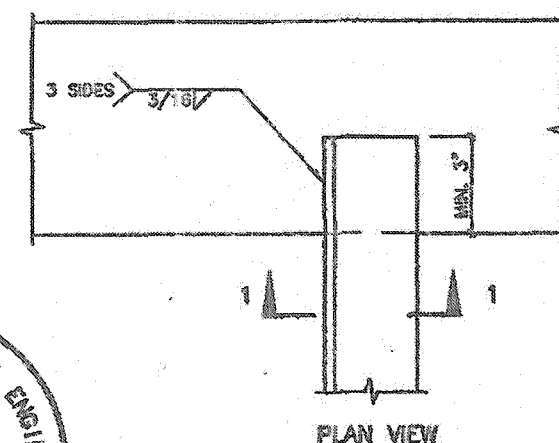


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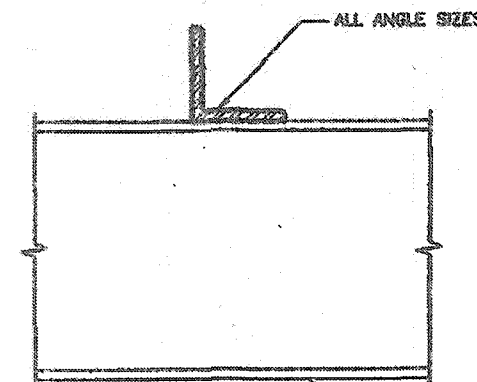
W12
TO
W12
CONNECTION



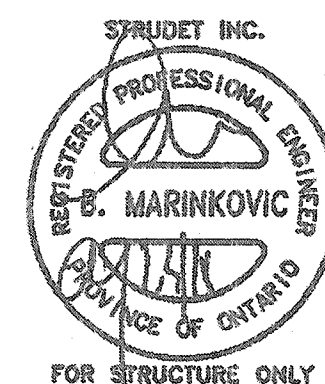
SECTION 1-1



PLAN VIEW



SECTION 1-1 ALL BEAM SIZES



DETAIL 6.

ANGLE
TO
BEAM
CONNECTION

2012 CODE
COMPLIANCE PACKAGE "A1"

5.		
4.		
3.		
2.		
1.	ISSUED FOR PERMIT	JULY 30, 2018
REVISIONS		

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
Required unless design is exempt under Division C, Subsection 3.2.6 of the building code

VIKAS GAJJAR
NAME
SIGNATURE

28770
BCIN

REGION DESIGN INC.
8700 DUFFERIN ST.
CONCORD, ONTARIO
L4K 4S6
P (416) 736-4036
F (905) 680-0746

REGION
DESIGN
INC.

SHEET TITLE
BEAM DETAILS
STEEL

SCALE
N.T.S.

DATE
JULY 2018

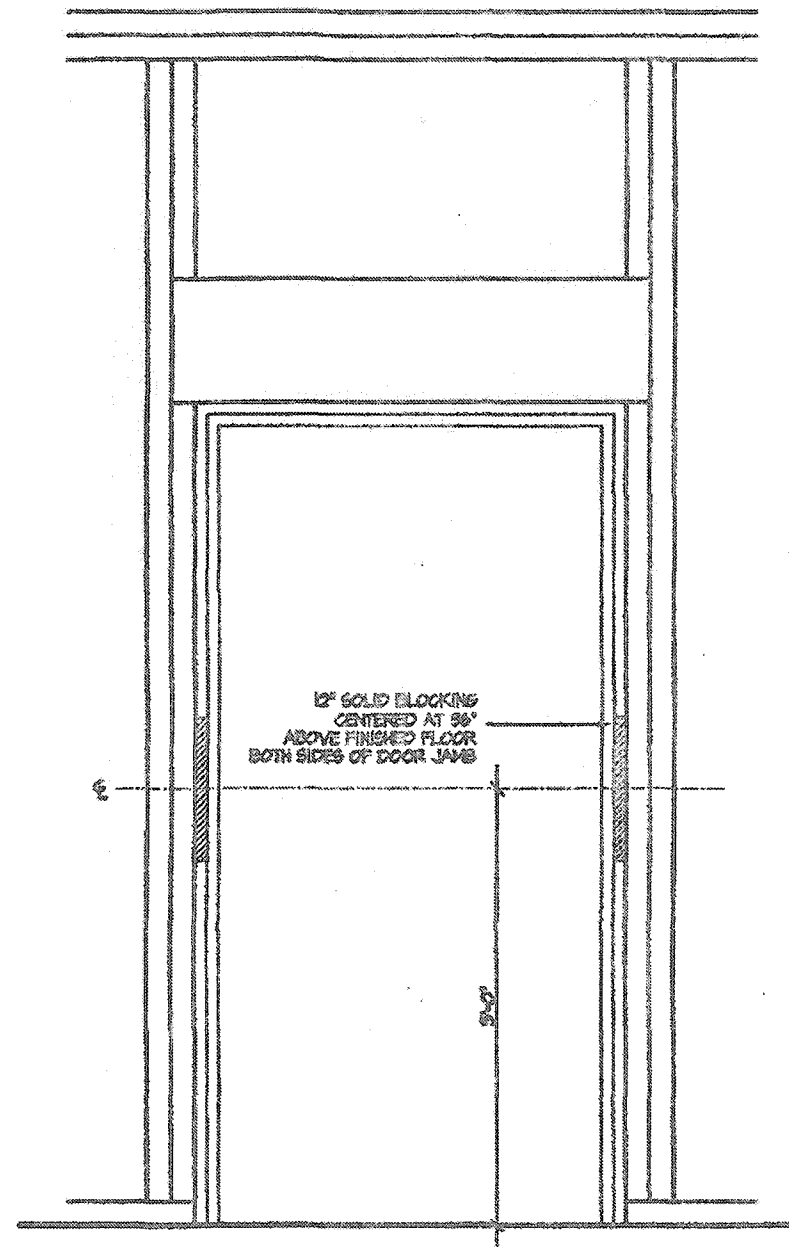
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PAGE No.

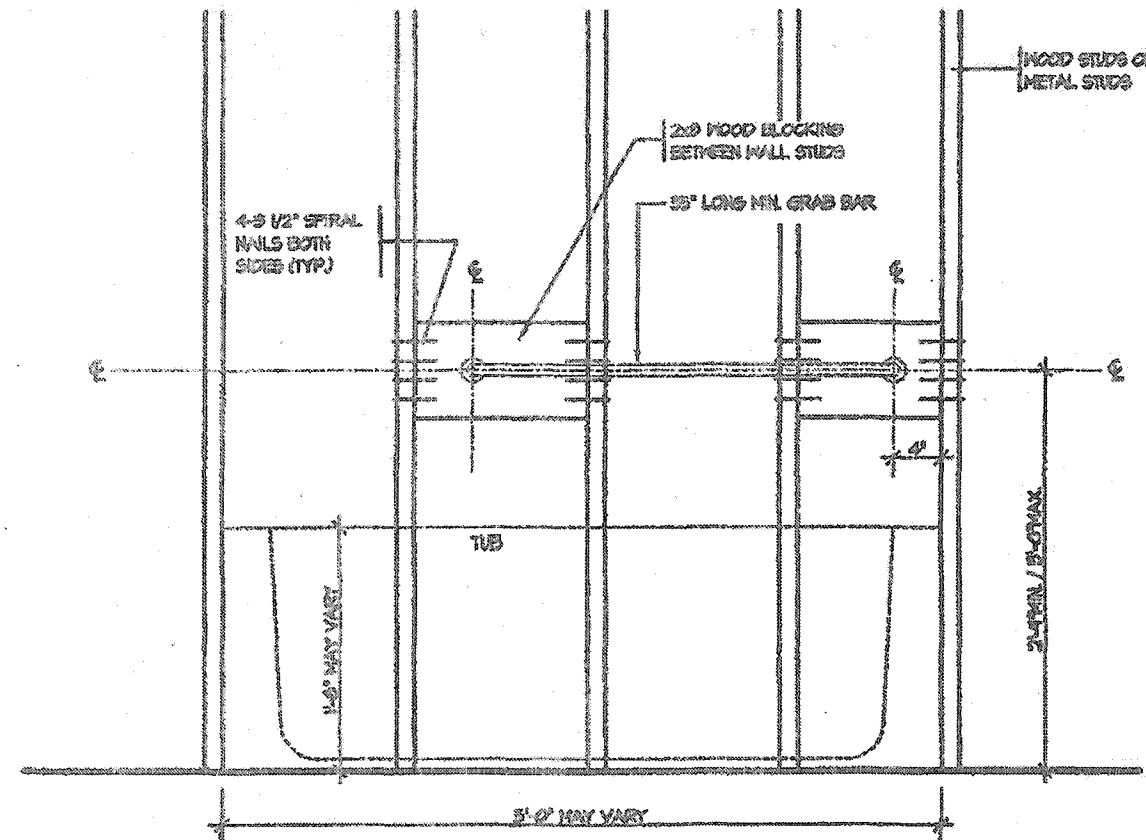
10

Greenpark.

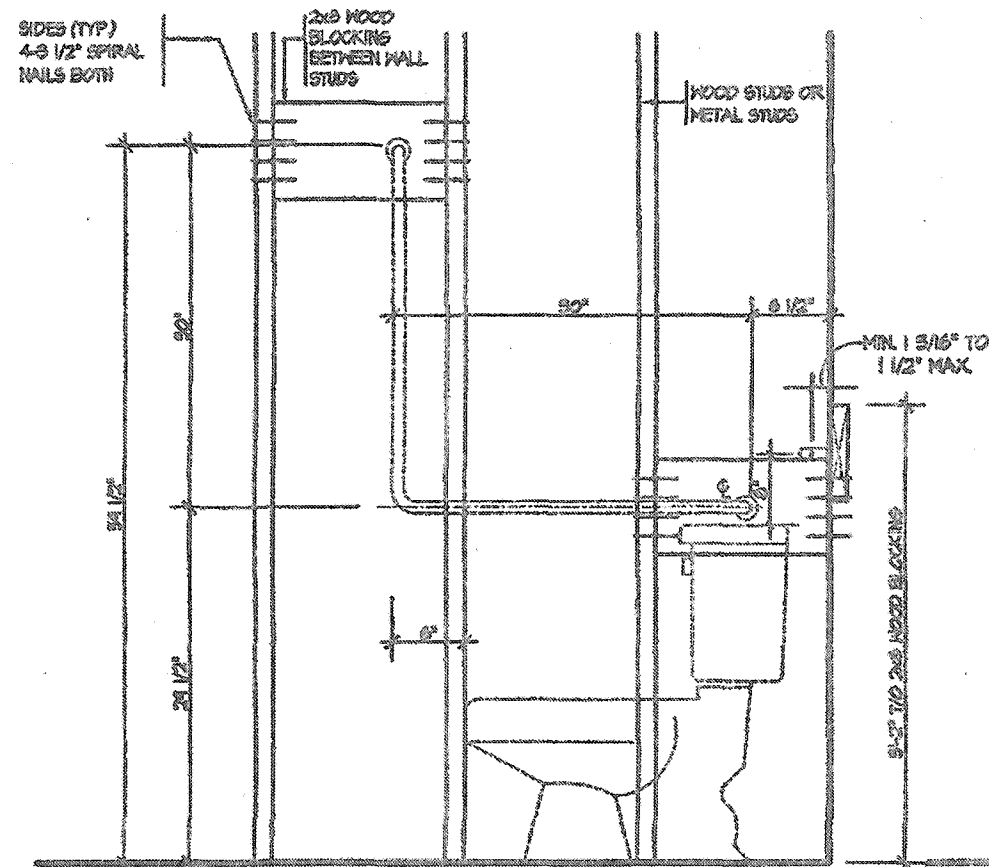
PROJECT NAME
RUSSELL GARDENS III



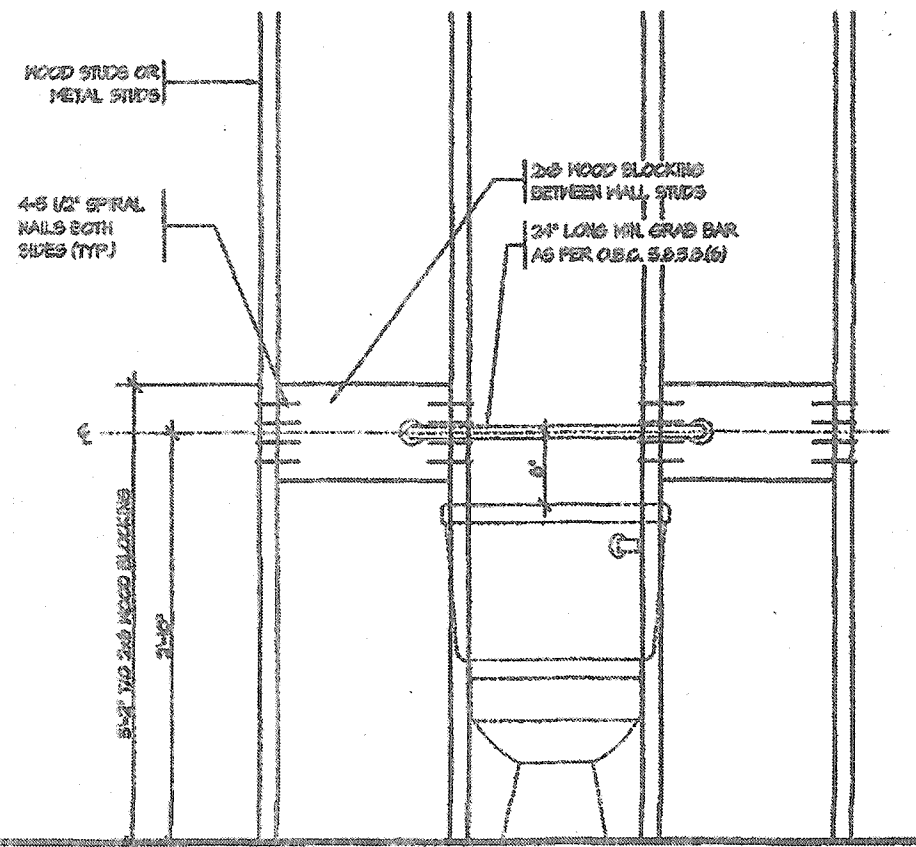
RESISTANCE TO FORCED ENTRY (OBC 9.6.3.)



BATH TUB FRONT ELEVATION

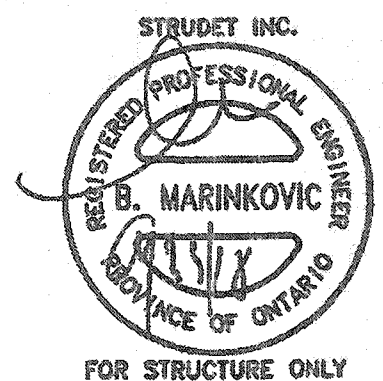


TOILET SIDE ELEVATION



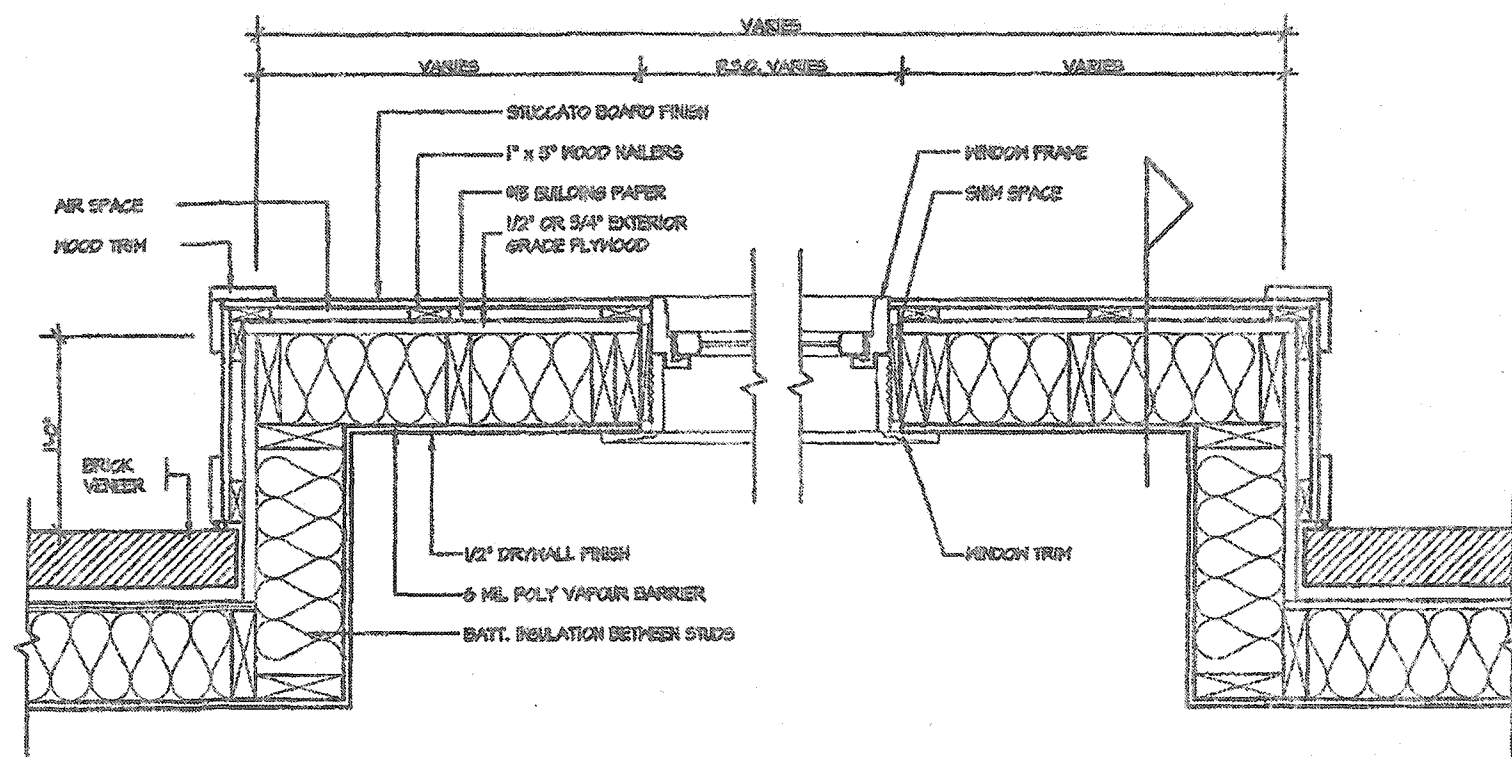
TOILET FRONT ELEVATION

STRUCTURAL REINFORCEMENT FOR GRAB BAR (OBC 9.5.2.5.)



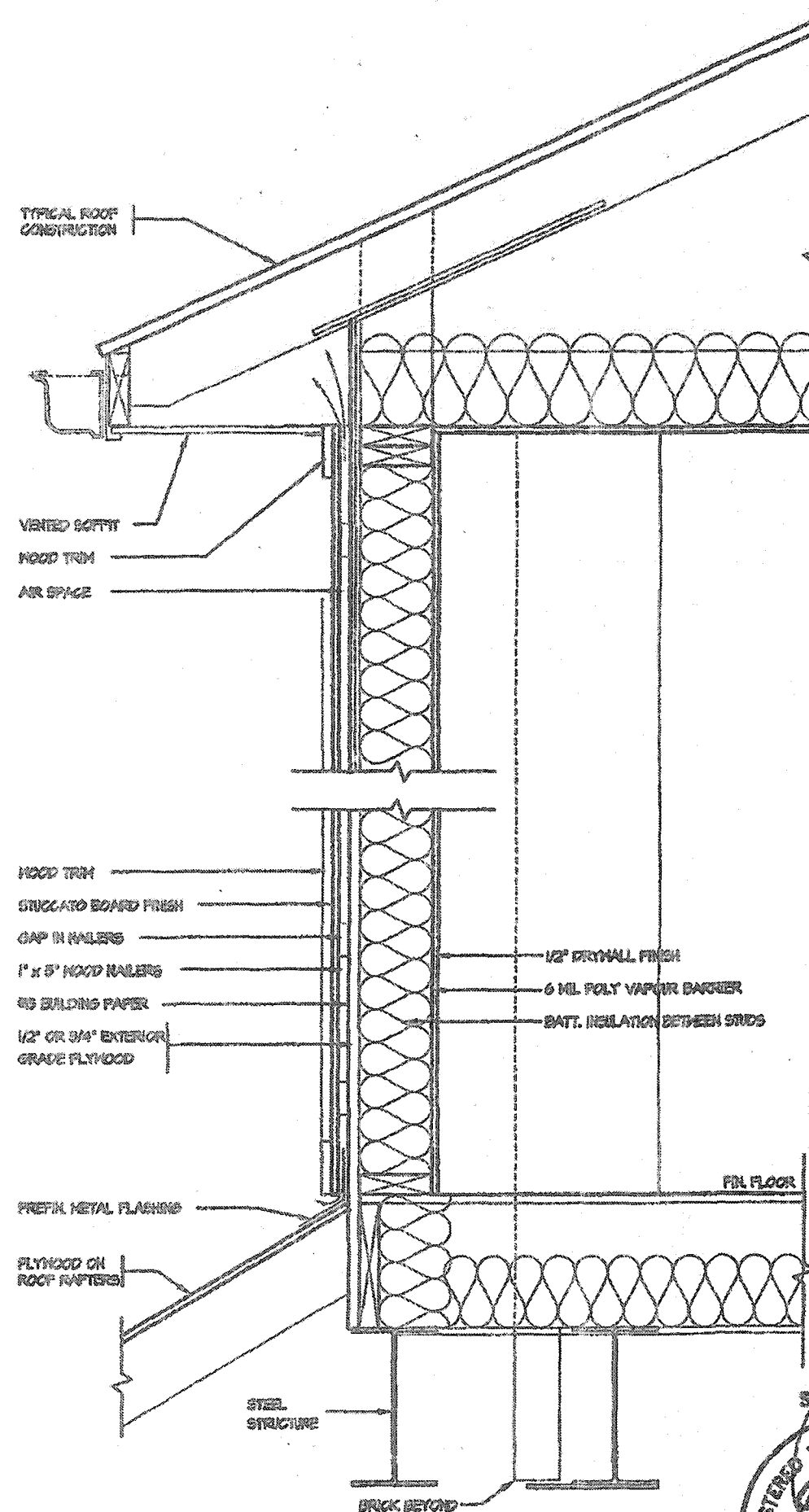
2012 CODE
COMPLIANCE PACKAGE "A1"

5. 4. 3. 2. 1. ISSUED FOR PERMIT JUL 30, 2018 REVISIONS	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 Required unless design is exempt under Division C, Subsection 3.2.5 of the building code VIKAS GAJJAR 28770 NAME SIGNATURE BCIN	REGION DESIGN INC. 6760 DUFFERIN ST. CONCORD, ONTARIO L4K 4B6 P (416) 736-4696 F (905) 660-0746	SHEET TITLE BLOCKING FORCED ENTRY & GRAB BAR SCALE 3/4"=1'-0" DATE JULY 2018	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED. PAGE No. 11	Greenpark. PROJECT NAME RUSSELL GARDENS III
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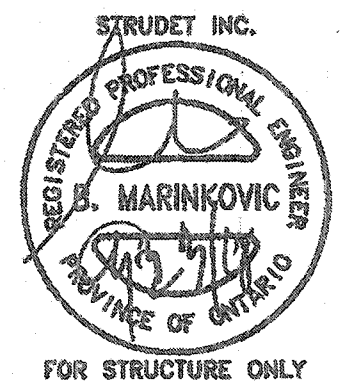


PLAN VIEW

STUCCATO BOARD FINISH CLADDING (OBC 9.21)

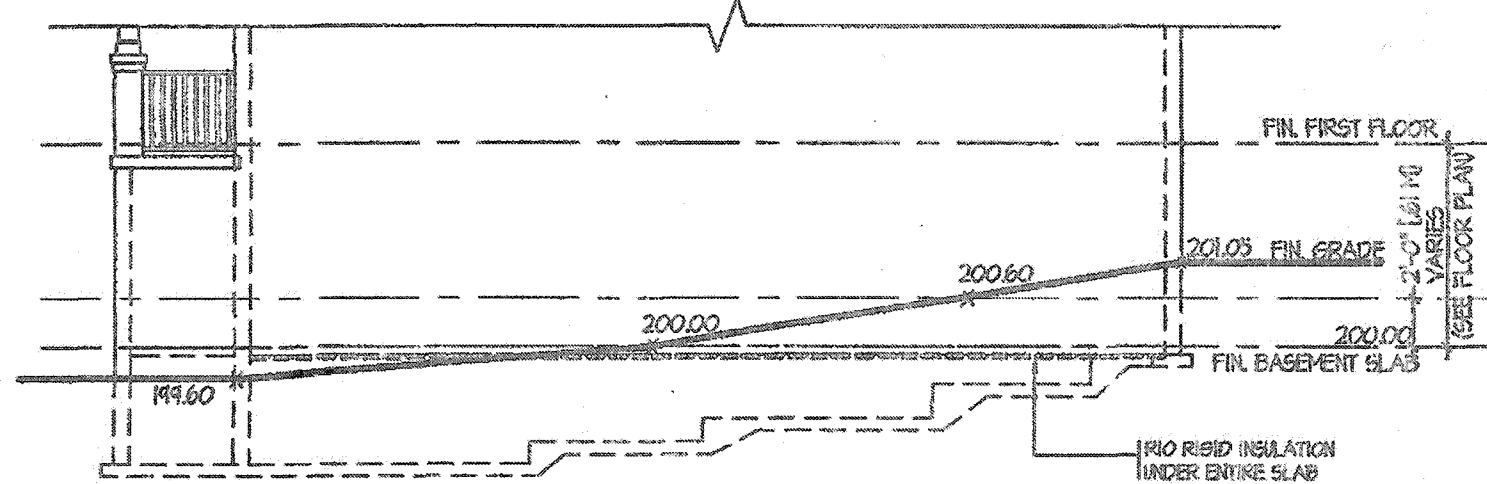


CROSS SECTION

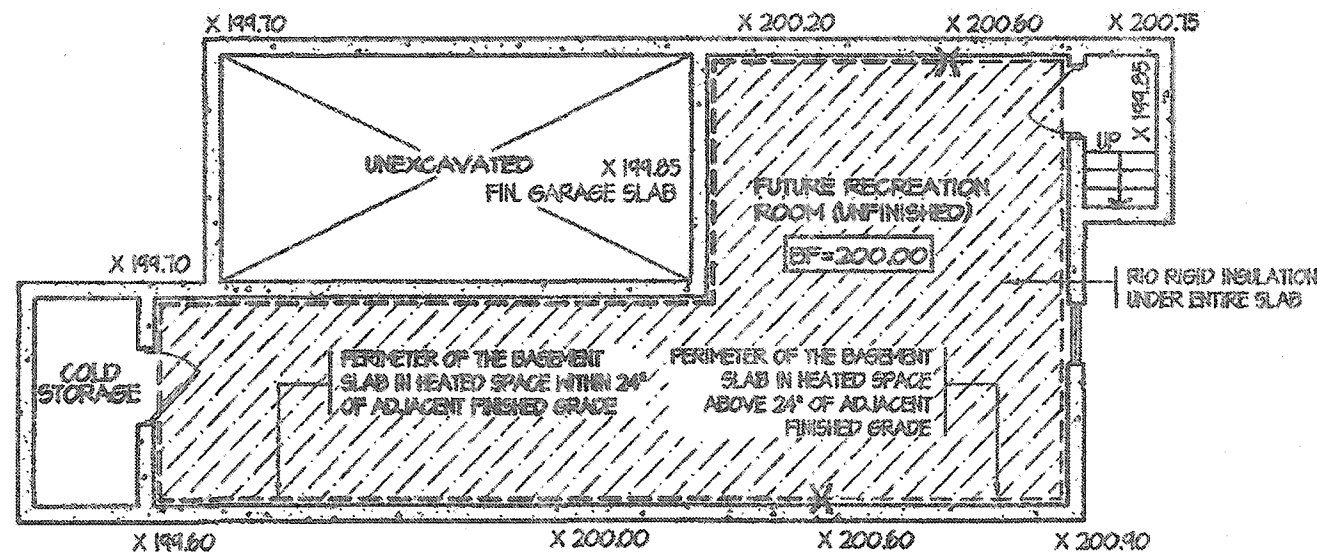


2012 CODE
COMPLIANCE PACKAGE "A1"

5. _____ 4. _____ 3. _____ 2. _____ 1. ISSUED FOR PERMIT JUL 30, 2018		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 Required unless design is exempt under Division C, Subsection 3.2.3 of the building code. VIKAS GAJJAR 28770 NAME SIGNATURE BCIN		REGION DESIGN INC. 8700 DUNDAS ST. OAKVILLE, ONTARIO L6K 4S6 P (905) 730-4099 F (905) 663-0748		SHEET TITLE STUCCATO BOARD FINISH CLADDING SCALE 1/2"=1'-0" DATE JULY 2018		CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED. PAGE NO. 12		PROJECT NAME RUSSELL GARDENS III	
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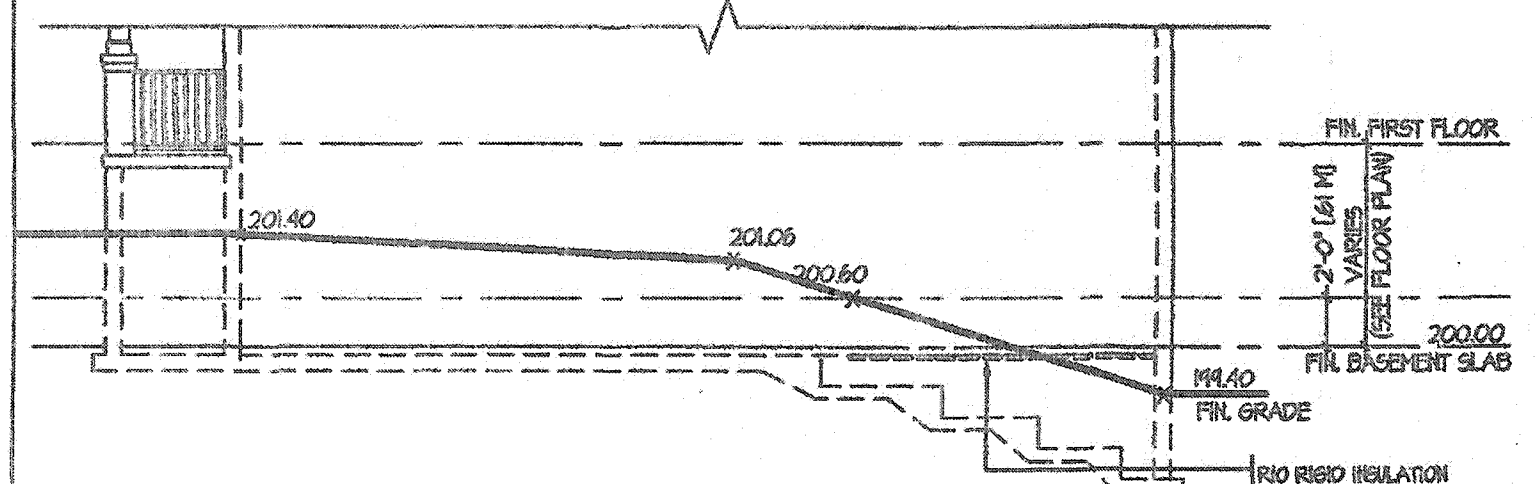
TYPICAL RIGHT SIDE ELEVATION



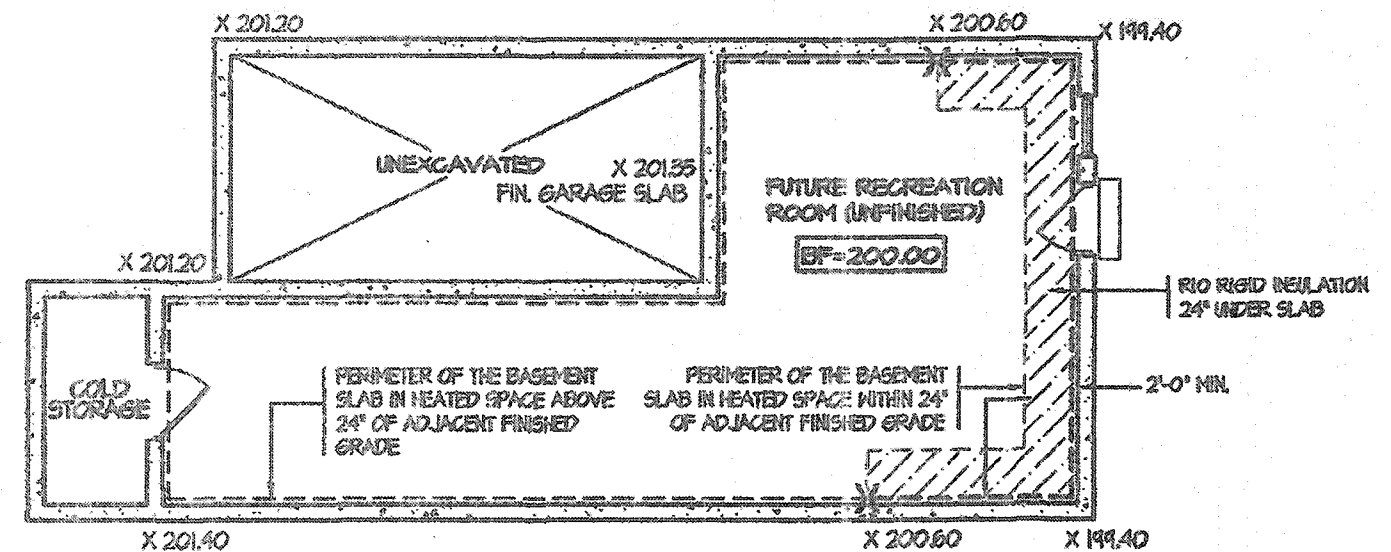
TYPICAL BASEMENT PLAN

SLAB ON GRADE CONDITION

NOTES:
1. LEVELS SHOWN ON THE PLANS ARE FOR ILLUSTRATION PURPOSE ONLY, SEE FINAL GRADING PLAN FOR ACTUAL LEVELS
2. ALL LEVELS ARE SHOWN IN METRIC



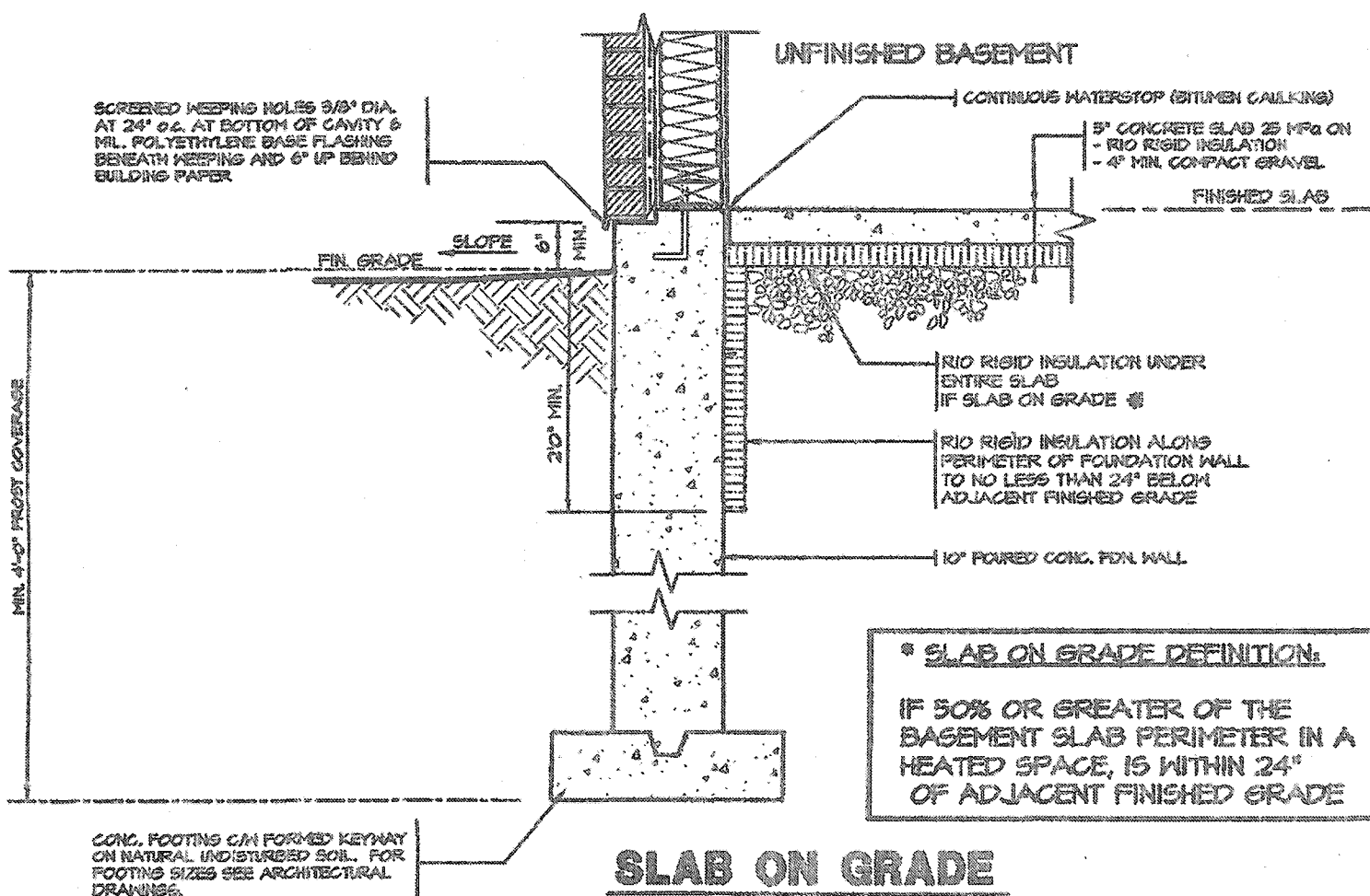
TYPICAL RIGHT SIDE ELEVATION



TYPICAL BASEMENT PLAN

WALK OUT BASEMENT CONDITION

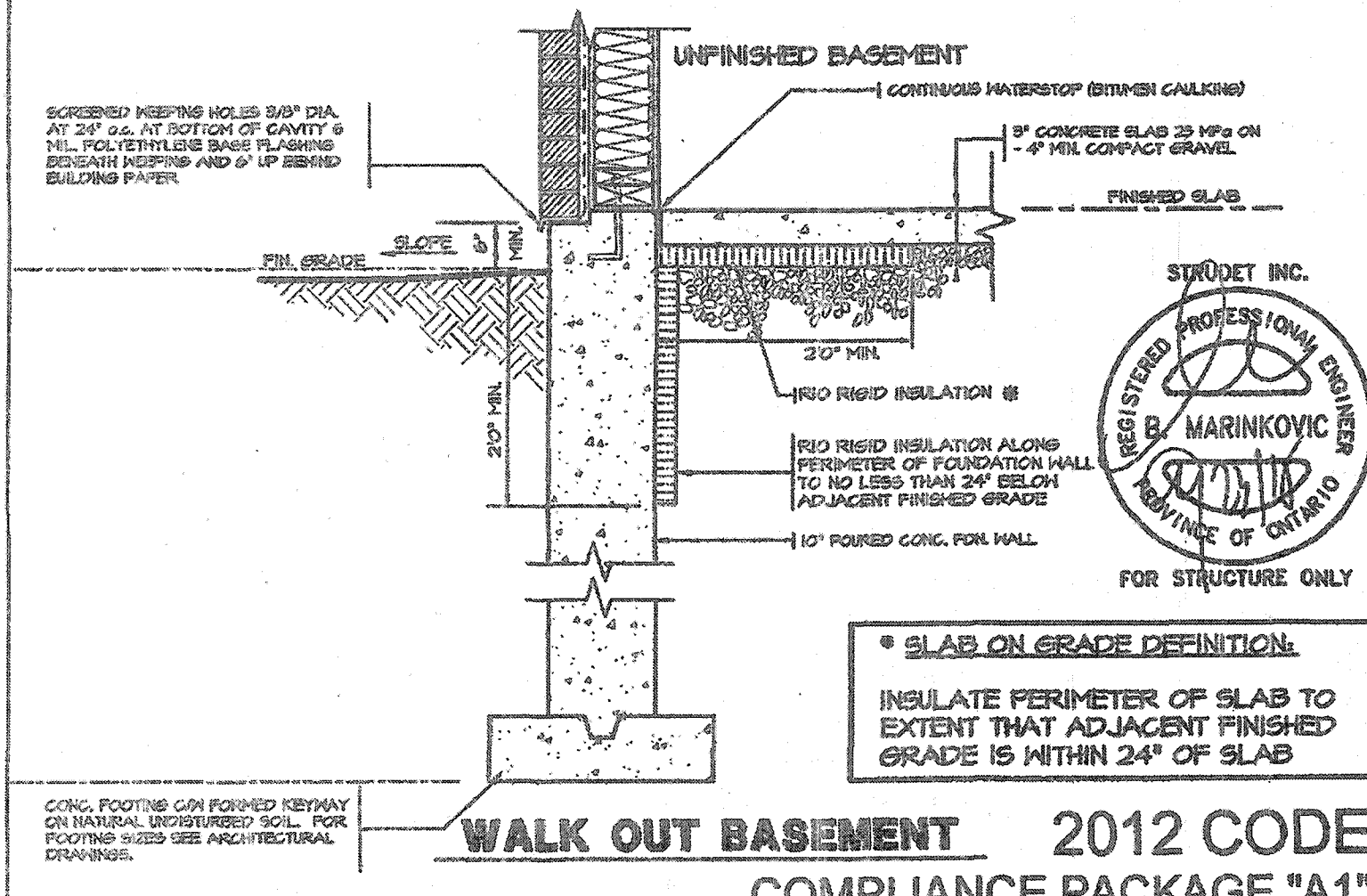
NOTES:
1. LEVELS SHOWN ON THE PLANS ARE FOR ILLUSTRATION PURPOSE ONLY, SEE FINAL GRADING PLAN FOR ACTUAL LEVELS
2. ALL LEVELS ARE SHOWN IN METRIC



SLAB ON GRADE

* SLAB ON GRADE DEFINITION:
IF 50% OR GREATER OF THE BASEMENT SLAB PERIMETER IN A HEATED SPACE, IS WITHIN 24" OF ADJACENT FINISHED GRADE

CONC. FOOTING CAN FORMED KEYWAY ON NATURAL UNDISTURBED SOIL. FOR FOOTING SIZES SEE ARCHITECTURAL DRAWINGS.



WALK OUT BASEMENT 2012 CODE COMPLIANCE PACKAGE "A1"

* SLAB ON GRADE DEFINITION:
INSULATE PERIMETER OF SLAB TO EXTENT THAT ADJACENT FINISHED GRADE IS WITHIN 24" OF SLAB



5.		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 Required unless design is exempt under Division C, Subsection 3.2.5 of the building code VIKAS GAJJAR  28770 NAME SIGNATURE BCIN	REGION DESIGN INC.	SHEET TITLE	CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCING WITH WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNER. PRINTS ARE NOT TO BE SCALED. PAGE No. 13 PROJECT NAME RUSSELL GARDENS III	
4.			6700 DUFFERIN ST.	REGION DESIGN INC.		SLAB ON GRADE WALKOUT BASEMENT
3.			CONCORD, ONTARIO			SCALE N.T.S.
2.			LAK 453			DATE JULY 2018
1.	ISSUED FOR PERMIT		JUL 20, 2018			
REVISIONS			F (110) 750-6000			
			F (405) 860-0743			

