

## HERITAGE VAUGHAN REPORT

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**DATE:** Wednesday, April 18, 2018

**WARD(S):** 2

**TITLE: NEW CONSTRUCTION – DETACHED GARAGE  
50 CLARENCE STREET, WOODBRIDGE HERITAGE  
CONSERVATION DISTRICT**

**FROM:**

Jason Schmidt-Shoukri, Deputy City Manager, Planning and Growth Management

**ACTION:** DECISION

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**Purpose**

To seek a recommendation from the Heritage Vaughan Committee regarding the proposed construction of a detached garage located at 50 Clarence Street, a property located in the Woodbridge Heritage Conservation District “WHCD” and designated under Part V of the *Ontario Heritage Act*.

**Report Highlights**

- The Owner is proposing a detached garage to be located at 50 Clarence Street.
- The proposal is consistent with the relevant policies of the Woodbridge Heritage Conservation District Plan (“WHCD Plan”).
- Heritage Vaughan review and Council approval is required under the *Ontario Heritage Act*.
- Staff is recommending approval of the proposal as it conforms with the policies of the Woodbridge Heritage Conservation District Plan (“WHCD Plan”).

## **Recommendations**

1. THAT Heritage Vaughan recommend approval to Council for the proposed detached garage at 50 Clarence Street under Section 42 of *Ontario Heritage Act*, subject to the following conditions:
  - a) Any significant changes to the proposal by the Owner may require reconsideration by the Heritage Vaughan Committee, which shall be determined at the discretion of the Director of Development Planning and Manager of Urban Design and Cultural Heritage;
  - b) That Heritage Vaughan Committee recommendations to Council do not constitute specific support for any Development Application under the *Ontario Planning Act* or permits or requirements currently under review or to be submitted in the future by the Owner as it relates to the subject application.

## **Background**

The subject property is municipally known as 50 Clarence Street and is located on the southwest corner of Rosebury Lane and Clarence Street, as shown on Attachment #1. The subject property is noted as a “Contributing” property within the WHCD Plan. The existing one-storey building is identified as a “1940’s cottage” in the WHCD Plan Inventory, and is further noted as being “*heavily modified, new additions and windows*”.

## **Previous Reports/Authority**

Not applicable.

## **Analysis and Options**

### **Proposed Alterations**

The proposal is for a new detached garage located in the rear/side yard of 50 Clarence Street. The garage will be accessed from the existing paved driveway off Rosebury Lane. The main elevation of the garage would face Rosebury Lane and be set back 4.64 m from the property line. The garage will be set back 10.3 m from the existing house and is 3.71 m in height with a gable roof and wood paneled garage doors. The exterior finish is brick veneer and pre-cast corner quoins to match the existing dwelling. The roof material is asphalt shingles.

### **Minor Variances**

The applicant has confirmed with the Zoning Department that no variances will be required for this proposal.

## Clarence Street and Park Drive Character Area

The subject property is located within the Clarence Street and Park Drive Character Area of the WHCD. The following is an analysis of the applicable WHCD policies:

### *5.3.2.5. Circulation, vehicular access and parking*

*“On-site parking, garages, and parking structures are generally concealed behind or below inhabited buildings.”*

- The proposed garage will be located behind the existing contributing building that fronts onto Clarence Street. The garage will be visible from Rosebury Lane, however this property is located on the border of the WHCD boundary, and other properties on Rosebury Lane are not included in the WHCD boundary.

### *6.1.5 Clarence Street and Park Drive Heritage Attributes – Guidelines:*

*“1. The Street should retain the existing residential character with a single family detached building type and be designed to support a pedestrian streetscape.”*

- The proposed garage will not impact the existing residential character, as the existing single family detached building type will remain and the detached garage will appear as a separate, secondary outbuilding. The proposed garage will be 3.71m in height, which will not impact the existing dwelling which is approximately 4.5m in height.

### *Section 6.2.8 Appropriate Materials*

*“Doors: Wood doors and frames, panel construction, may be glazed; transom windows and paired sidelights with real glazing bars; wood french doors for porch entrances; single-bay, wood panelled garage doors.”*

- The proposed single-bay insulated steel garage doors will mimic the appearance of wood doors, as shown on the material sample in Attachment #6.

### *Section 6.6.3 – Tree Canopy and Vegetation – Guidelines:*

*“3. Trees on public and private property, having a tree diameter of twenty (20) centimetres or more or having a base diameter of twenty (20) centimetres or more, must be conserved, and the requirements of the City of Vaughan Tree Bylaw 185-2007 must be adhered to.”*

- The applicant has confirmed that the existing trees on the property will not be removed.

Based on the above analysis, the proposed detached garage is in conformity with the policies of the WHCD Plan.

## Timeline

This application is subject to the 90 day review under the *Ontario Heritage Act*. This application was declared complete on March 6, 2018, and must be deliberated upon by June 4, 2018, to meet the 90 day timeline.

## **Financial Impact**

There are no requirements for new funding associated with this report.

## **Broader Regional Impacts/Considerations**

There are no broader Regional impacts or considerations.

## **Conclusion**

The Urban Design and Cultural Heritage Division has reviewed the application to permit a new garage on the property municipally known as 50 Clarence Street and is satisfied that the proposed garage is consistent with the Woodbridge Heritage Conservation District Plan. Accordingly, the Urban Design and Cultural Heritage Division of the Development Planning Department can support the approval of the proposed alteration under Section 42 of the *Ontario Heritage Act*.

**For more information**, please contact: Shelby Blundell, Cultural Heritage Coordinator, ext. 8813

## **Attachments**

1. Location Map
2. Subject Property
3. Site Photos
4. Site Plan, RN Design Ltd., March 5, 2018
5. Elevations, RN Design Ltd., March 5, 2018
6. Metal Garage Door Material Sample, provided by RN Design Ltd.

## **Prepared by**

Shelby Blundell, Cultural Heritage Coordinator, ext. 8813

/CM

**Location Map**



**Woodbridge HCD (Yellow shaded area)**

**50 Clarence Street**

## Attachment 2

### Subject Property



Approximate Location of Proposed Garage



**Attachment 3**



**Subject Property from Clarence Street**



**Existing Driveway – Location of Proposed Garage**





**Existing Fenced Backyard**



**Existing Fenced Backyard**







## Drawing List:

- A0 TITLE SHEET
- A1 FOUNDATION PLAN ELEV 'A'
- A2 REAR ELEVATION 'A'
- A3 FRONT ELEVATION 'A'
- A4 ROOF PLAN ELEV 'A'
- A5 LEFT SIDE ELEVATION 'A'
- A6 RIGHT SIDE ELEVATION 'A'
- D1 CONSTRUCTION NOTES
- D2 CONSTRUCTION NOTES
- D3 CONSTRUCTION NOTES

## Areas:

	ELEVATION 'A'	
	SF	SM
GARAGE COVERAGE	438.8	40.76

Steve & Tina Vocella

Detached Garage

I DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN ON BEHALF OF THE BUILDING DEPARTMENT. SECTION-3.2.4 OF THE BUILDING DEPARTMENT CODE. THE FIRM IS REGISTERED IN THE STATE OF CALIFORNIA.

**PRELIMINARY-NOT  
FOR CONSTRUCTION**

SIGNATURE:

client <b>Steve &amp; Tina Vocella</b>					location <b>VAUGHAN</b>				
project <b>Detached Garage</b>					marketing name				
#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	14-FEB-18	KK	MSA					
2	ISSUED FOR CLIENT REVIEW	28-FEB-18	MSA	MSA					
3	REVISED AS PER HCD COMMENTS	5-MAR-18	MSA	MSA					

**RN design**  
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model  
**DETACHED GARAGE**

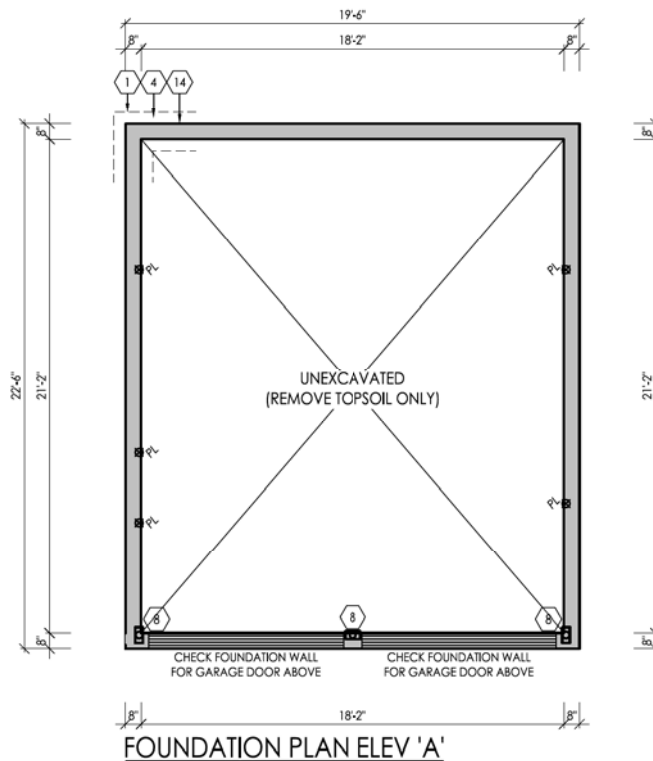
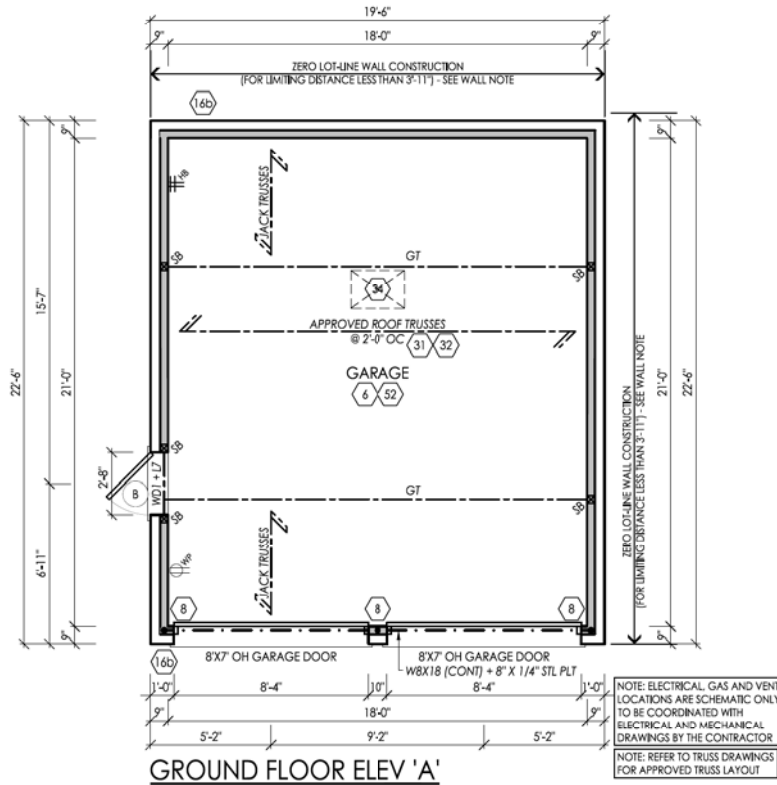
scale  
**3/16" = 1'0"**

project #  
**18016**

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DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN ON BEHALF OF THE BUILDING FIRM. THE FIRM IS RESPONSIBLE FOR THE DESIGN.

**PRELIMINARY-NOT FOR CONSTRUCTION**

SIGNATURE:

client					location				
Steve & Tina Vocella					VAUGHAN				
project					marketing name				
Detached Garage									
#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
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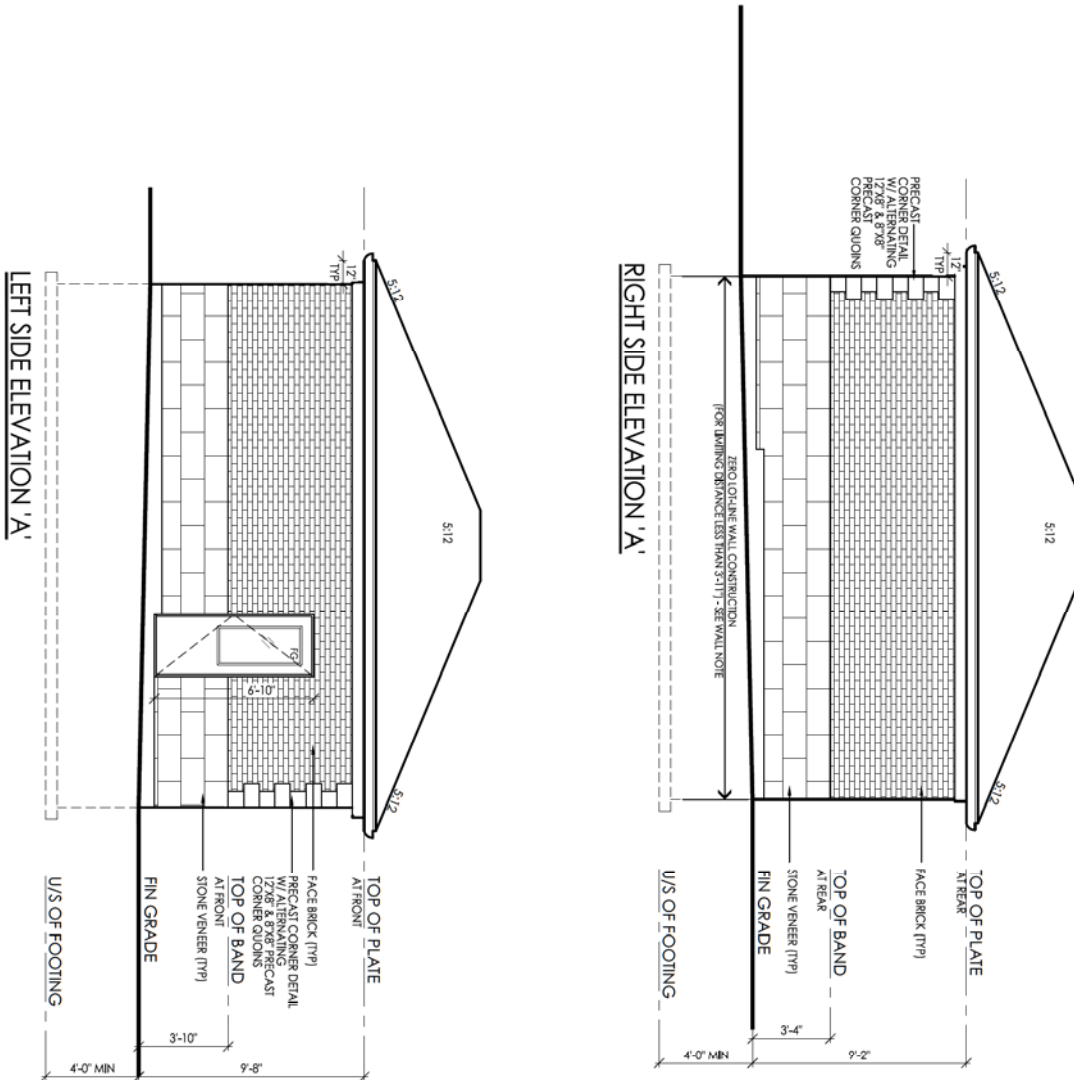


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**DETACHED GARAGE**  
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3/16" = 1'0"  
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**A1**





DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN OF THE BUILDING UNDER THE DESIGN PROFESSIONAL SEAL OF THE BUILDING PROFESSIONAL REGISTRATION ACT, 1991, SECTION 3.2.4 OF THE BUILDING ACT, 1991. THE FIRM IS REGISTERED WITH THE REGISTRY.

**PRELIMINARY-NOT FOR CONSTRUCTION**

SIGNATURE:

client					location				
Steve & Tina Vocella					VAUGHAN				
project					marketing name				
Detached Garage									
#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	16-FEB-18	KX	MSA					
2	ISSUED FOR CLIENT REVIEW	28-FEB-18	MSA	MSA					
3	REVISED AS PER HCD COMMENTS	14-MAR-18	MSA	MSA					

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model  
**DETACHED GARAGE**  
scale  
3/16" = 1'0"  
project #  
18016

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**A3**





- REG. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):  
O.B.C. SB-3 WALL = EW1B (STC = N/A, FIRE = 45 MIN)  
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD  
THE FOLLOWING MATERIALS:  
-ADD R15 (RSI 2.64) ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/  
sq.m.  
-REPLACE 1/2" (12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.
- 17 INTERIOR STUD WALLS:**  
O.B.C. 1.9.23.10.1.  
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. OR  
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. W/  
-DOUBLE 2" X 4" OR 2" X 6" TOP PLATES AND SINGLE BOTTOM PLATE  
-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES.
- 18 BEARING STUD WALL (BASEMENT):**  
-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. OR  
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. W/  
-DBL. 2" X 4" OR 2" X 6" TOP PLATE  
-2" X 4" OR 2" X 6" BOTTOM PLATE ON DAMPROOFING MATERIAL  
-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES  
-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7'-10" (2400mm) O.C.  
-FOOTING AS PER GENERAL NOTE #2 W/ 4" CONC. CURB
- 19 PARTY WALL - BLOCK:**  
O.B.C. SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)  
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS  
TO THE U/S OF ROOF DECK  
SPACE BETWEEN TOP OF WALL & ROOF DECK SHALL BE TIGHTLY FILLED W/  
MINERAL WOOL OR NON-COMBUSTIBLE MATERIAL & CAULKED TO PREVENT  
SMOKE PASSAGE  
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS BOTH SIDES  
-2" X 2" (38mmX 38mm) WOOD STRAPPING @ 24" (600mm) O.C. BOTH  
SIDES  
-ABSORPTIVE MATERIAL ON BOTH SIDES FILING A MINIMUM OF 90% OF THE  
CAVITY.  
-7 1/2" (190mm) HOLLOW BLOCK (NOMIAL WEIGHT AGGREGATE)  
STAGGER JOISTS & BEAMS MIN. 3 1/2" (90mm) @ PARTY WALLS AS PER  
O.B.C. 9.10.9.1(1) & TABLE 2.1.1.58-2  
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE [2] TO TABLE 1)
- 19a PARTY WALL - BLOCK (AGAINST GARAGE):**  
O.B.C. SB-3 WALL = B5c (STC = 51, FIRE = 2 HR)  
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS  
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3.  
& 9.25.4.  
-2" X 6" (38mmX 140mm) WOOD STRAPPING @ 16" (400mm) O.C.  
-R22 (RSI 3.52) RIGID INSULATION  
-7 1/2" (190mm) HOLLOW BLOCK (NOMIAL WEIGHT AGGREGATE)  
-1/2" (12.7mm) GYPSUM BOARD W/ WALL & U/S OF CEILING BETWEEN  
HOUSE AND GARAGE  
-TAPE AND SEAL ALL JOINTS GAS TIGHT
- 20 FIREWALL:**  
O.B.C. 9.10.11.1 & 3.1.10. & SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)  
-ONE FIREWALL IS REQUIRED FOR EVERY 6400 S.F. (600 SQ.M) OF BUILDING  
AREA, O.B.C. 1.3.2.2.47.  
-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS  
-2" X 2" (38mmX 38mm) WOOD STRAPPING @ 24" (600mm) O.C. ON BOTH SIDES  
OF WALL  
SOUND ABSORPTIVE MATERIAL EACH SIDE FILING 90% OF THE CAVITY  
7 1/2" (190mm) CONC. BLOCK, MIN. 2 HR. FIRE-RESISTANT RATING  
EVERY FIREWALL SHALL BE CONTINUOUS THROUGH ALL BUILDING STOREYS  
STAGGER JOISTS & BEAMS MIN. 3" (100mm) @ FIRE WALLS AS PER  
O.B.C. 9.10.9.1(1) & TABLE 2.1.1.58-2  
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE [2] TO TABLE 1)  
-PROTRUDE PAST FASCIA & EAVES W/ BRICK CORBELLING  
-EXTEND 5/8" (15.9mm) ABOVE ROOF SURFACES & HAVE ALUMINUM CAP W/  
THROUGH WALL FLASHING PER O.B.C. 3.1.10.4.1(1)  
-WHERE THE DIFFERENCE IN HEIGHT BETWEEN ADJACENT ROOFS IS GREATER  
THAN 9" (230mm), WALL NEED NOT EXTEND PAST UPPER ROOF SURFACE PER  
O.B.C. 3.1.10.4.1(2)
- 20 PARTY WALL - FOUNDATION:**  
O.B.C. 9.15.4.2.  
-7 1/8" (200mm) SOLID CONC. FOUNDATION WALL @ 2200psi (15MPa)  
COMPRESSIVE STRENGTH AFTER 28 DAYS  
-FOUNDATION WALL TO REST ON FOOTING PER GENERAL NOTE #2
- 21 PARTY WALL - WOOD STUD:**  
O.B.C. SB-3 WALL = W13a (STC = 57, FIRE = 1 HR)  
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF  
FOOTINGS TO THE U/S OF ROOF DECK  
-2 ROWS 2X4 (38mmX 89mm) STUDS @ 16" (400mm) O.C. W/ SEPARATE  
2" X 4" (38mmX 89mm) BOTTOM PLATE & SEPARATE DOUBLE 2" X 4"  
(38mmX 89mm) TOP PLATES  
SOUND ABSORPTIVE MATERIAL ON BOTH SIDES FILING A MINIMUM OF  
90% OF THE CAVITY.  
-5/8" (16mm) TYPE 'X' GYPSUM BOARD BOTH SIDES W/ JOINTS TAPED &  
FILLED.  
-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE [2] TO TABLE 1)  
NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. 1.9.23.10.1. =  
FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE  
REQUIRED TO BE SPACED @ 12" (300mm) O.C.  
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE  
REQUIRED TO BE SPACED @ 12" (300mm) O.C.  
-IF 2x6 STUDS USED AS AT STAIR OPENING CONTINUE TO USE  
ON REMAINING FLOORS AT THE STAIR OPENING AT 16" O.C.
- 22 GARAGE WALL & CEILING:**  
O.B.C. 9.10.9.14(3)  
-1/2" (12.7mm) GYPSUM BOARD ON BOTH SIDES OF WALL & U/S OF  
CEILING BETWEEN HOUSE AND GARAGE  
-TAPE AND SEAL ALL JOINTS GAS TIGHT  
-R22 (RSI 3.87) INSULATION IN WALLS  
-R31 (RSI 5.41) INSULATION IN CEILINGS W/ FLOOR ABOVE  
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3.  
& 9.25.4. FOR FLOOR ABOVE  
-INSULATION AROUND DUCTS AND PIPING NOT TO ENCRUSCH MIN.  
REQUIRED GARAGE AREA (REFER TO MUNICIPAL STANDARDS)  
-1/2" (12.7mm) GYPSUM BOARD  
-ROOF FRAMING MEMBERS ARE FASTENED TO TOP PLATES WITH  
4 - 3 1/4" (82mm) TOE NAILS  
-BOTTOM PLATES ARE FASTENED TO FLOOR JOISTS, BLOCKING OR  
RIM JOIST WITH 3 1/4" (82mm) NAILS AT 7' 7/8" (200mm) O.C.
- 22a WALLS ADJACENT TO ATTIC SPACE:**  
-1/2" (12.7mm) GYPSUM BOARD  
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3.  
& 9.25.4.  
-2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C.  
-R22 (RSI 3.87) INSULATION  
-1/2" (12.7mm) GYPSUM BOARD OR 1/4" (6mm) PLYWOOD SHEATHING  
ON ATTIC SIDE.  
-ATTIC ACCESS TO BE PROVIDED AS PER O.B.C. 9.19.2.1.
- 23 DOUBLE VOLUME WALLS:**  
O.B.C. 9.23.10.1.  
-3/8" (9.5mm) PLYWOOD, OSB OR WATERBOARD SHEATHING  
REFER TO PLAN FOR STUD SPECIFICATION  
STUDS FASTENED AT TOP & BOTTOM WITH 3 1/4" (82mm) TOE NAILS  
-DOUBLE TOP PLATES FASTENED TOGETHER WITH 5" (76mm) AT  
7' 7/8" (200mm) O.C.  
-SOLID BRIDGING AT 3'-11" (1200mm) O.C.  
-MIN. R22 (RSI 3.87) INSULATION (ONE SB 12.3.1.1.2-A)  
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C.  
9.25.3. & 9.25.9.
- ◆ CLIENT SPECIFIC REVISIONS

- 24 EXPOSED FLOOR:**  
FLOOR AS PER NOTE # 28  
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.  
-R31 (RSI 5.46) INSULATION  
-VENTED ALUMINUM SOFFIT
- 24a SUNKEN FINISHED AREAS:**  
-USE SOLID BUILT-UP WOOD BEARING POST TO SUPPORT SUNKEN AREA  
AT FOUNDATION WALLS, EXTEND FOOTINGS TO SUPPORT POSTS.  
-WHERE GRADING CONDITIONS WILL ALLOW, CHECK FOUNDATION  
WALLS INSTEAD OF USING BEARING POSTS.  
-FLOOR STRUCTURE AS PER NOTE # 28.
- 25 DOUBLE MASONRY WYTHE WALL:**  
O.B.C. 9.20.8.2.  
-3 1/2" MASONRY VENEER ON 2" MORTAR JOINT ON 3 1/2" MASONRY VENEER  
-WYTHES TO BE TIED W/ METAL TIES INSTALLED AS PER O.B.C. 9.20.9.4.  
-SILL PLATE REQUIRED FOR ROOF AND CEILING FRAMING MEMBERS  
-6" SILL W/ 2" BEARING ON EACH SIDE & ANCHOR BOLTS @ 4'-0" O.C.  
NOTE: MASONRY TO BE SOLID & MORTAR JOINT FILLED SOLID FOR FLOOR  
JOISTS BEARING ON WYTHES. FLOOR JOISTS ARE NOT TO PROJECT INTO CAVITY  
AREA.
- 25a CORREL MASONRY VENEER:**  
-MASONRY VENEER TO BE CORBELLED AS PER O.B.C. 9.20.12.3.1(1)
- FLOOR ASSEMBLIES:**
- 26 SILL PLATE:**  
O.B.C. 9.23.7.  
-2" X 4" (38mm X 89mm) PLATE  
-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7'-10" (2400mm) O.C. FASTENED TO  
PLATE W/ NUTS AND WASHERS & SHALL BE EMBEDDED NOT LESS THAN 4"  
(100mm) INTO FOUNDATION WALL.  
-SILL PLATE TO BE CAULKED, OR PLACED ON A LAYER NOT LESS THAN 1"  
(25mm) THICK BEFORE COMPRESSION, OR FOAM GASKET, OR PLACED  
ON FULL BED OF MORTAR.
- 27 BRIDGING & STRAPPING:**  
O.B.C. 9.23.9.4.  
a) STRAPPING  
-1" X 3" (19mmX 64mm) NAILED TO U/S OF JOISTS @ MAX. 6'-11" (2100mm) O.C.  
-FASTENED TO SILL OR HEADER @ ENDS  
b) BRIDGING  
-1" X 3" (19mmX 64mm) OR 2" X 2" (38mmX 38mm) CROSS BRIDGING @ MAX.  
6'-11" (2100mm) O.C.  
c) BRIDGING & STRAPPING  
-a) & b) USED TOGETHER OR  
1 1/2" (38mm) SOLID BLOCKING @ MAX. 6'-11" (2100mm) O.C. USED WITH  
STRAPPING (a)  
d) FURRING OR PANEL TYPE CEILING  
STRAPPING NOT REQUIRED IF FURRING STRIPS OR PANEL TYPE CEILING FINISH  
& ATTACHED DIRECTLY TO JOISTS.
- 28 FLOOR ASSEMBLY:**  
O.B.C. 9.23.14.3, 9.23.14.4  
-5/8" (15.9mm) WAFERBOARD (R-1 GRADE) OR EQUIVALENT  
-FLOOR JOISTS AS PER FLOOR PLANS
- 29 PORCH SLAB:**  
O.B.C. 9.39.1.4.  
-4' 7/8" (125mm) 4650 psi (32 MPa) CONC. SLAB WITH 5 TO 8% AIR ENTRAINMENT  
-REINFORCE WITH 10M BARS @ 7' 7/8" (200mm) EACH WAY  
-1 1/4" (30mm) CLEAR COVER FROM THE BOTTOM OF THE SLAB  
-3" (75mm) END BEARING ON FOUNDATION WALL  
-23 5/8" (600mm) X 23 5/8" (600mm) 10M DOWELS @ 23 5/8" (600mm) O.C.  
-IF A COLD CELLAR IS LOCATED BELOW THE SLAB, SUPPORT ON FOUNDATION  
WALLS NOT TO EXCEED 8'-2"
- 30 EXTERIOR BALCONY ASSEMBLY:**  
-1 1/4" X 3 1/2" PRESSURE TREATED DECKING W/ 1/4" SPACING  
-2X4 WOOD PURLINS (CUT DIAGONALLY) @ 12" O.C. LAYING UNFASTENED  
ON SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT ON 5/8"  
(15.9mm) EXTERIOR GRADE PLYWOOD SHEATHING ON 2X4 WOOD PURLINS  
(CUT DIAGONALLY) @ 12" O.C. DIRECTLY ON 2X8 ROOF JOISTS @ 12" O.C.  
(OR AS NOTED ON PLAN)  
-EXTERIOR GUARD AS PER #30a  
-SLOPE ASSEMBLY MINIMUM 2% TO ROOF SCUPPER  
REQUIRED FOR OVER HEATED SPACES:  
-ADD 2X2" (38mm X 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR  
VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF  
CEILING AREA)  
-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS  
-ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3.  
& 9.25.4.  
-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR  
-ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. 1.9.29.5.3)
- 30a EXTERIOR FLAT ROOF ASSEMBLY:**  
-SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT  
INSTALLED PER MANUFACTURER'S SPECIFICATIONS  
-1/4" EXTERIOR GRADE WOOD PANEL TYPE UNDERLAY TAPEDED PURLINS  
SLOPED MIN. 2% TO ROOF SCUPPER  
-3/8" EXTERIOR GRADE PLYWOOD SHEATHING ON  
2X8 ROOF JOISTS @ 12" O.C. (OR AS NOTED ON PLAN)  
REQUIRED FOR OVER HEATED SPACES:  
-ADD 2X2" (38mm X 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR  
VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF  
CEILING AREA)  
-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS  
-ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3.  
& 9.25.4.  
-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR  
-ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. 1.9.29.5.3)
- ROOF ASSEMBLIES**
- 31 TYPICAL ROOF:**  
O.B.C. 9.26.  
-NO. 210 (30. SKG/m2) ASPHALT SHINGLES  
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO  
EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT  
LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL.  
-EAVES PROTECTION LAD BENEATH STARTER STRIP.  
-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES.  
-STARTER STRIP AS PER O.B.C. 9.26.7.2.  
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.(3)  
-3/8" (10mm) PLYWOOD SHEATHING OF OSB (P-2 GRADE) WITH 1" CLIPS  
-APPROVED WOOD TRUSSES @ 24" (600mm) O.C. (REFER TO MANUFACTURER'S  
LAYOUT)  
-TRUSS BRACING AS PER TRUSS MANUFACTURER  
-EAVESTROUGH ON PREFINISHED FASCIA AND VENTED SOFFIT (VINYL OR  
ALUMINUM)  
-ATTIC VENTILATION 1:300 OF INSULATED CEILING AREA WITH, 50% AT SOFFIT.
- 32 CEILING:**  
-R60 (RSI 10.56) INSULATION  
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3.  
& 9.25.4.  
-1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR  
-5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. 1.9.29.5.3)
- 32a VAULTED OR CATHEDRAL CEILING:**  
O.B.C. 9.26. & TABLE A4  
-NO. 210 (30. SKG/m2) ASPHALT SHINGLES  
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO  
EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT  
LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL.  
-EAVES PROTECTION LAD BENEATH STARTER STRIP.  
-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES OR WHERE  
ROOF SLOPES ARE 8:12 OR GREATER PER O.B.C. 9.26.5.1.  
-STARTER STRIP AS PER O.B.C. 9.26.7.2.  
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.(3)  
-3/8" (10mm) PLYWOOD SHEATHING OF OSB (P-2 GRADE) WITH 1" CLIPS.

- 2x8" (38mm x 184mm) @ 16" O.C. W/ 2x2" (38mm x 38mm) CROSS  
PURLINS @ 24" O.C. MAX. SPAN 13'-3" (4050mm) OR  
-2x10" (38mm x 235mm) @ 16" O.C. W/ 2x2" (38mm x 38mm) CROSS  
PURLINS @ 24" O.C. MAX. SPAN 17'-0" (5180mm)  
-R31 (RSI 5.46) INSULATION  
-MIN. 3" CLEARANCE FROM U/S OF ROOF SHEATHING TO INSULATION  
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH  
O.B.C. 9.25.3. & 9.25.4.  
-1/2" (12.7mm) GYPSUM BOARD
- 33 CONVENTIONAL FRAMING:**  
O.B.C. TABLE A6 OR A7  
-2" X 6" (38mm X 140mm) RAFTERS @ 16" (400mm) O.C. MAX. SPAN 12'-9"  
(3890mm)  
-2X4" (38mm X 89mm) COLLAR TIES AT MIDSPANS  
-CEILING JOISTS TO BE 2" X 6" (38mmX 140mm) @ 16" (400mm) O.C.  
-UNLESS OTHERWISE NOTED  
-HIF & VALLEY RAFTERS TO BE MIN. 2" (50mm) LARGER THAN COMMON  
RAFTERS & MIN. 1 1/2" (38mm) THICK.
- 34 ATTIC ACCESS HATCH:**  
OBC 9.19.2.1. & SB-12.3.1.1.8.(1)  
-19 3/4" X 27 1/2" (500mm X 700mm) ATTIC HATCH WITH  
WEATHERSTRIPPING & BACKED W/ R20 (RSI 3.52) INSULATION.
- GENERAL:**
- 35 PRIVATE STAIRS:**  
O.B.C. 9.8.4.  
-MAX. RISE = 7' 7/8" (200mm)  
-MIN. RUN = 8' 1/4" (210mm)  
-MIN. TREAD = 9' 1/4" (235mm)  
-MAX. NOSING = 1" (25mm)  
-MIN. HEADROOM = 6'-5" (1950mm)  
-MIN. WIDTH = 2'-10" (660mm)  
-BETWEEN WALL FACES)  
-MIN. WIDTH = 2'-11" (900mm)  
(EXIT STAIRS, BETWEEN GUARDS)  
-ANGLED TREADS:  
-MIN. RUN = 5' 7/8" (150mm)  
-MIN. AVG. RUN = 7' 7/8" (200mm)  
-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS  
-EXTERIOR CONC. STEPS TO HAVE MIN. 9' 1/4" (235mm) TREAD &  
MAX. 7' 7/8" (200mm) RISE  
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2  
-FTG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE
- HANDRAILS:**  
O.B.C. 9.8.7  
-ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)  
-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3'-7" (1100mm)  
-ONE HANDRAIL IS REQUIRED ON CURVED STAIRS OF ANY WIDTH WITHIN  
DWELLING UNITS  
-HANDRAILS ARE TO BE CONTINUOUS EXCEPT WHERE INTERRUPTED BY DOOR  
WAYS, LANDINGS OR POSTS AT CHANGES IN DIRECTION
- HEIGHT:**  
O.B.C. 9.8.7.4  
-2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.  
-3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS  
-MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A  
STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING
- PROJECTIONS:**  
O.B.C. 9.8.7.6  
-HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP  
STRONGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED  
WIDTH OF THE STAIR
- 35a PUBLIC STAIRS:**  
O.B.C. 9.8.4.  
-MAX. RISE = 7' 3/32" (180mm)  
-MIN. RUN = 11" (280mm)  
-MIN. TREAD = 11" (280mm)  
-MAX. NOSING = 1" (25mm)  
-MIN. HEADROOM = 6'-9" (2050mm)  
-MIN. WIDTH = 2'-11" (900mm)  
(EXIT STAIRS, BETWEEN GUARDS)  
-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS  
-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2  
-FTG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE
- HANDRAILS:**  
O.B.C. 9.8.7  
-ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)  
-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3'-7" (1100mm)  
-TWO HANDRAILS ARE REQUIRED ON CURVED STAIRS OF ANY WIDTH  
-HANDRAILS ARE TO BE CONTINUOUS INCLUDING AT LANDINGS EXCEPT  
WHERE INTERRUPTED BY DOOR WAYS OR NEWEL POSTS AT CHANGES IN  
DIRECTION
- HEIGHT:**  
O.B.C. 9.8.7.4  
-2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.  
-3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS  
-MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A  
STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING
- PROJECTIONS:**  
O.B.C. 9.8.7.6  
-HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP  
STRONGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED  
WIDTH OF THE STAIR
- TERMINATION:**  
O.B.C. 9.8.7.3  
-ONE HAND RAIL SHALL EXTEND HORIZONTALLY NOT LESS THAN 11 3/4"  
(300mm) BEYOND THE TOP & BOTTOM OF EACH STAIR
- FINISH:**  
O.B.C. 9.8.9.6  
-TREADS ARE TO BE WEAR AND SLIP RESISTANT, SMOOTH, EVEN AND FREE  
FROM DEFECTS PER OBC 9.8.9.6.4)  
-STAIRS AND RAMPS SHALL HAVE A COLOUR CONTRAST OR DISTINCTIVE  
VISUAL PATTERN TO DEMARKATE THE LEADING EDGE OF THE TREADS,  
LANDINGS AND THE BEGINNING AND END OF A RAMP
- 36 INTERIOR GUARDS:**  
O.B.C. SB-7 & 9.8.8.3.  
-GUARDS TO BE 3'-5" (1070mm) HIGH  
-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH  
-INCLUDES WINDOWS OVER STAIRS, RAMPS AND LANDINGS  
-PICKETS TO HAVE 4" (100mm) MAX. SPACING  
-GUARDS FOR FLIGHTS OF STAIRS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH
- 36a EXTERIOR GUARDS:**  
O.B.C. SB-7 & 9.8.8.3.  
-GUARDS ARE REQUIRED WHEN WALKING SURFACE TO GRADE IS GREATER THAN  
23 5/8" (600mm).  
-GUARDS TO BE 3'-5" (1070mm)  
-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH  
-FOR DWELLING UNITS GUARDS TO BE 3'-5" (1070mm) HIGH WHERE WALKING  
SURFACE IS MORE THAN 5'-11" (1800mm) ABOVE ADJACENT GRADE.  
-PICKETS TO HAVE 4" (100mm) MAX. SPACING  
-PROVIDE MID-SPAN POSTS AS PER SB-7  
-GUARDS FOR FLIGHTS OF STAIRS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH
- THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE  
VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

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I DECLARE THAT I HAVE REVIEWED AND TAKEN  
DESIGN RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF THIS PROJECT.  
OF RN DESIGN LTD UNDER THE REGISTRATION 3.2.4  
OF THE BUILDING ACT 1984. THE FIRM IS  
REGISTERED.

PRELIMINARY-NOT  
FOR CONSTRUCTION

SIGNATURE:

client					location								
Steve & Tina Vocella					VAUGHAN								
project					marketing name								
Detached Garage													
#	revisions			date	dwn	chk	#	revisions			date	dwn	chk
1	ISSUED FOR CLIENT REVIEW			14-FEB-18	EX	MSA							
2	ISSUED FOR CLIENT REVIEW			28-FEB-18	MSA	MSA							
3	REVISED AS PER HCD COMMENTS			5-MAR-18	MSA	MSA							

RN design  
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model  
DETACHED GARAGE  
scale  
3/16" = 1'0"  
project #  
18016

page

D2

- EXTERIOR GUARDS @ JULIET BALCONY:**  
-FOR RAILING SPANNING MAXIMUM OF 6'-0".  
-PROVIDE PREFIN. METAL RAILING W/ 76mm VERTICAL OPENING TO CONFORM WITH O.B.C. APPENDIX A-9.8.8.5.  
-GUARDS TO BE 3'-6" (1070mm)  
-FOR DWELLING UNITS GUARDS TO BE 2'-11" (660mm) WHERE FLOOR TO GRADE DIFFERENCE IS LESS THAN 5'-11" (1800mm) AS PER O.B.C. 9.8.8.2. OR  
-FOR DWELLING UNITS GUARDS TO BE 3'-6" WHERE FLOOR TO GRADE DIFFERENCE IS 5'-11" (1800mm) OR GREATER AS PER O.B.C. 9.8.8.2.  
-VERTICAL END RAILING ANCHORED TO CORNER DOUBLE STUDS USING 3 ROWS OF 3/8" Ø MIN. ANCHOR BOLTS EQUALLY SPACED WITH 3" MIN. EMBEDMENT TO STUDS.  
-PROVIDE SAME ANCHOR BOLTS @ 36" O.C. / 36" DEEP PLATE CONNECTION.
- 37** LINEN CLOSET 4 SHELVES MIN. 1'-2" (305mm) DEEP  
**38** WASHROOMS TO BE MECHANICALLY VENTED TO PROVIDE AT LEAST ONE AIR CHANGE PER HOUR, O.B.C. 9.32.1.3.(3)  
**39** CAPPED DRYER VENT  
**40** 1"x2" (19mmx38mm) BOTH SIDES OF STEEL  
**41** WOOD FRAMING MEMBERS SUPPORTED ON CONCRETE IN CONTACT WITH GROUND OR FILL SHALL BE PRESSURE TREATED OR SEPARATED FROM CONCRETE W/ 6 mil POLYETHYLENE.  
**42** PRECAST CONC. STEP  
-2 RISERS MAXIMUM PERMITTED TO BE LAID ON GROUND  
**44** SMOKE ALARM, O.B.C. 9.10.19.  
-PROVIDE 1 ON EACH FLOOR INCLUDING BASEMENTS  
-PROVIDE 1 IN EACH BEDROOM  
-PROVIDE 1 IN EACH HALLWAY SERVING BEDROOMS  
-INSTALLED AT OR NEAR CEILING  
-ALARMS TO BE CONNECTED IN CIRCUIT AND INTERCONNECTED SO ALL ALARMS WILL BE ACTIVATED IF ANY ONE OF THEM SOUNDS AND HAVE A VISUAL SMOKE ALARM COMPONENT  
-ALARMS MUST BE HARDWIRED AND HAVE AN ALTERNATE POWER SOURCE THAT CAN POWER ALARM FOR 7 DAYS, FOLLOWED BY 4 MINUTES OF ALARM  
**45** CARBON MONOXIDE ALARM (CMA), O.B.C. 9.33.4.  
-WHERE THERE IS A FUEL BURNING APPLIANCE A CMA SHALL BE PROVIDED ADJACENT TO EACH SLEEPING AREA.  
-CMA TO BE WIRED IN CIRCUIT TO SOUND SMOKE ALARMS WHEN ACTIVATED.  
**46** MAIN DOOR TO BE OPERABLE FROM INSIDE W/OUT KEY  
-PROVIDE A VIEWER WITH A VIEWING ANGLE OF NOT LESS THAN 160 DEG. UNLESS GLAZING IS PROVIDED IN DOOR OR A SIDELIGHT IS PRESENT.  
-R4 (RSI 0.70) WHERE A STORM DOOR IS NOT PROVIDED  
**47** GARAGE MAIN DOORS TO BE GAS PROOFED WITH SELF CLOSING WEATHERSTRIPPING, THRESHOLD & DEAD BOLT PER O.B.C. 9.10.13.15.  
-R4 (RSI 0.70)  
**48** TRAVEL FROM A FLOOR LEVEL TO AN EXIT OR EGRESS DOOR SHALL BE LIMITED TO ONE FLOOR EXCEPT:  
1) WHERE THAT FLOOR LEVEL HAS ACCESS TO A BALCONY OR  
2) WHERE THAT FLOOR LEVEL HAS A WINDOW PROVIDING AN UNOBSTRUCTED OPENING OF NOT LESS THAN 3'-3" (1000mm) IN HEIGHT AND 21 5/8" (550mm) IN WIDTH; SUCH WINDOW SHALL BE LOCATED SO THAT THE SILL IS NOT MORE THAN 3'-3" (1000mm) ABOVE FLOOR AND 23'-0" (7.0m) ABOVE ADJACENT GROUND LEVEL.

- EXTERIOR COLUMN W/ MASONRY PIER:**  
-MIN. 6"x6" (140mm X 140mm) WOOD POST CLAD W/ PORCH SLAB W/ METAL SADDLE.  
-TOP PORTION OF POST CLAD W/ DECOR. SURROUND PER ELEVATION DRAWINGS.  
-1/4" X 1/4" MASONRY VENEER SURROUND W/ PRECAST CONCRETE CAP.  
-REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP.  
-SURROUND TO BE TIED W/ METAL TIES @ 16" (400mm) O.C. VERT. INSTALLED PER O.B.C. 9.20.9.4.  
-3/4" AIR SPACE AROUND POST.  
OR  
-MIN. 6"x6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO CONC. CAP W/ METAL SADDLE.  
-1/4" X 1/4" MASONRY PIER TO BE CONSTRUCTED SOLID W/ PRECAST CONCRETE CAP.  
-REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP.  
NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" POST PROVIDED THAT THEY ARE IN CONFORMANCE WITH O.B.C. 9.17.4.

- EXTERIOR COLUMN:**  
-MIN. 6"x6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO PORCH SLAB W/ METAL SADDLE.  
NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" ABOVE PROVIDED THAT THEY ARE IN ACCORDANCE WITH O.B.C. 9.17.4.

- COLD CELLARS:**  
-FOR COLD CELLARS PROVIDE THE FOLLOWING:  
-VENTING AREA TO BE EQUIVALENT TO 0.2% OF COLD CELLAR AREA.  
-COVER VENT W/ BUG SCREEN  
-WALL MOUNTED LIGHT FIXTURE  
-11/4" FOR DOOR OPENING  
-2'-8" X 6'-8" EXTERIOR TYPE DOOR (MIN. 2-4 RSI 0.7)  
-INSULATE FULL HEIGHT OF INTERIOR BASEMENT WALL W/ MIN. R12 (RSI 2.11)

- STUD WALL REINFORCEMENT:**  
O.B.C. 9.5.2.3.  
-WALL STUDS ADJACENT TO WATER CLOSETS & SHOWER BATH TUBS IN MAIN BATHROOM ARE TO BE REINFORCED TO PERMIT THE FUTURE INSTALLATION OF GRAB BARS AS PER O.B.C. 3.8.3.8.(3)(a)&(c) & 3.8.3.13.(2)(f) & 3.8.3.13.(4)(c)  
-GRAB BARS TO BE INSTALLED AS PER O.B.C. 9.8.7.7.(2)

- ELECTRICAL VEHICLE CHARGING REQUIREMENTS:**  
-REFER TO OBC 9.34.4.1. FOR REQUIREMENTS (EFFECTIVE JANUARY 2018)

- WINDOW GUARDS:**  
@ STAIRS, LANDINGS & RAMPS - OBC 9.8.8.1.(8)  
WINDOW SILL AT 3'-0" (900mm) OR GREATER DOES NOT REQUIRE GUARDS  
@ FLOORS - OBC 9.8.8.1.(6)  
WINDOWS LESS THAN 1'-7" (480mm) ABOVE FLOORS WHERE ADJACENT GRADE IS GREATER THAN 5'-11" (1800mm) REQUIRE A GUARD PER OBC 9.8.8.2.  
-OR-  
WINDOW TO BE NON-OPERABLE AND DESIGNED TO WITHSTAND LATERAL LOADS PER OBC 9.8.8.1.(8)(b)

#### FRAME CONSTRUCTION:

- ALL FRAMING LUMBER TO BE No.1 AND No. 2 SPF UNLESS NOTED OTHERWISE.  
-ROOF LOADING IS BASED ON 1.5kPa SPECIFIED COMPOSITE SNOW AND RAIN LOADS.  
-JOISTS TO HAVE MIN. 1-1/2" (38mm) END BEARING.  
-BEAMS TO HAVE MIN. 3-1/2" (89mm) END BEARING  
-DOUBLE STUDS @ OPENINGS  
-DOUBLE HEADER JOISTS AROUND FLOOR OPENINGS WHEN THEY ARE BETWEEN 3'-11" (1200mm) AND 10'-8" (3200mm)  
-DOUBLE TRIMMER JOISTS WHEN HEADER JOIST LENGTH IS BETWEEN 2'-7" (800mm) AND 6'-7" (2000mm)  
-DOUBLE JOISTS OR SOLID BLOCKING UNDER NON-LOAD BEARING PARALLEL PARTITIONS  
-BEAMS TO BE PLACED UNDER LOADBEARING WALLS WHEN WALLS ARE PARALLEL TO FLOOR JOISTS  
-BEAMS MAY BE A MAX. 24" (600mm) FROM LOADBEARING WALLS WHEN WALLS ARE PERPENDICULAR TO FLOOR JOISTS  
-APPROVED METAL HANGERS TO BE USED FOR JOISTS AND BEAMS WHEN THEY FRAME INTO SIDES OF BEAMS, TRIMMERS AND HEADERS  
-FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 15 3/4" (400mm) BEYOND SUPPORTS FOR 2" X 8" (38mm X 184mm)  
-FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 23 5/8" (600mm) BEYOND SUPPORTS FOR 2" X 10" (38mm X 235mm) OR LARGER.

#### WINDOWS:

- WINDOWS TO BE SEALED TO THE AIR & VAPOR BARRIER  
-WINDOWS THAT SEPARATE HEATED SPACE FROM UNHEATED SPACE SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 1.6 W/(m2.K) OR  
-AN ENERGY RATING OF NOT LESS THAN 25 FOR WINDOWS  
-BASEMENT WINDOWS WITH LOAD BEARING STRUCTURAL FRAME SHALL BE DOUBLE GLAZED WITH LOW-E COATING  
-SKYLIGHTS SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF 2.8 W/(m2.K)  
-FOR GROSS GLAZED AREAS LESS THAN AND EQUAL TO 17%.

#### CLIENT SPECIFIC REVISIONS

#### SCHEDULES

DOORS	
A	865x2030x45 (2'10"x6'8"x1-3/4")
B	815x2030x35 (2'6"x6'8"x1-3/8")
C	760x2030x35 (2'5"x6'8"x1-3/8")
D	710x2030x35 (2'4"x6'8"x1-3/8")
E	460x2030x35 (1'6"x6'8"x1-3/8")
F	610x2030x35 (2'0"x6'8"x1-3/8")
G	OVER SIZED EXTERIOR DOOR

STEEL BEAMS	
ST1	W 4 X 15
ST2	W 6 X 20
ST3	W 8 X 18
ST4	W 8 X 21
ST5	W 8 X 24

WOOD BEAMS	
WD1	3/2" X 8" SPR
WD2	4/2" X 8" SPR
WD3	5/2" X 8" SPR
WD4	3/2" X 10" SPR
WD5	4/2" X 10" SPR
WD6	5/2" X 10" SPR
WD7	3/2" X 12" SPR
WD8	4/2" X 12" SPR
WD9	5/2" X 12" SPR

LINTELS	
L1	2/2" X 8" SPR
L2	2/2" X 12" SPR
L3	3-1/2" X 3-1/2" X 1/4" L
L4	4-7/8" X 3-1/2" X 1/4" L
L5	4" X 3-1/2" X 1/4" L
L6	4-7/8" X 3-1/2" X 3/8" L
L7	5-7/8" X 3-1/2" X 3/8" L
L8	5-7/8" X 3-1/2" X 3/8" L
L9	5-7/8" X 3-1/2" X 3/8" L
L10	5-7/8" X 4" X 1/2" L
L11	5-7/8" X 4" X 1/2" L
L12	5-7/8" X 4" X 1/2" L
L13	5-7/8" X 4" X 1/2" L

#### PLAN/ELEVATION LEGEND

	SMOKE ALARM (44)
	WATERPROOF DUPLEX OUTLET
	VENTS AND INTAKES
	HOSE BIB
	EXHAUST FAN
	COLD CELLAR VENT (50)
	STOVE VENT
	FIRE PLACE VENT
	DRYER VENT

	CARBON MONOXIDE ALARM (CMA) (45)
	DOUBLE JOIST
	PRESSURE TREATED LUMBER
	GIRDER TRUSS
	ABOVE FINISHED FLOOR
	BEAM BY FLOOR MANUF
	FLUSH
	DROPPED (DL)
	REPEAT SAME JOIST SIZE
	UNDER SIDE
	FIXED GLAZING
	GLASS BLOCK
	BLACK GLASS
	FLOOR DRAIN
	SOLID BEARING TO BE GLAZED WITH AS SUPPORTED MEMBERS
	POINT LOAD
	FLAT ARCH
	2 STORY WALL
	EXT. LIGHT FIXTURE (WALL MOUNTED)
	HYDRO METER
	GAS METER

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN ON BEHALF OF RN DESIGN LTD UNDER THE REGULATION 3.2.4 OF THE BUILDING ACT 2006. THE FIRM IS REGISTERED.

**PRELIMINARY-NOT FOR CONSTRUCTION**

SIGNATURE: \_\_\_\_\_

client

Steve & Tina Vocella

location

VAUGHAN

project

Detached Garage

marketing name

#	revisions	date	dwn	chk	#	revisions	date	dwn	chk
1	ISSUED FOR CLIENT REVIEW	16/FEB-18	KK	MSA					
2	ISSUED FOR CLIENT REVIEW	28/FEB-18	MSA	MSA					
3	REVISED AS PER HCD COMMENTS	5-MAR-18	MSA	MSA					

**RN design**  
Imagine - Inspire - Create

**DETACHED GARAGE**

scale 3/16" = 1'0"

project # 18016

page **D3**



