

COMMITTEE OF ADJUSTMENT

City Hall, 5th floor, 71 Main Street West, Hamilton, ON L8P 4Y5 Telephone (905) 546-2424, ext. 4221, 3935 Fax (905) 546-4202 E-mail: <u>cofa@hamilton.ca</u>

NOTICE OF PUBLIC HEARING Minor Variance

You are receiving this notice because you are either:

- Assessed owner of a property located within 60 metres of the subject property
- Applicant/agent on file, or
- Person likely to be interested in this application

APPLICATION NO	FL/A-21:249
APPLICANTS:	Agent Matt Cornelisse Owner A. & B. Sproule
SUBJECT PROPE	Y: Municipal address 1072 Centre Road, Flamborough
ZONING BY-LAW:	Zoning By-law 05-200, as Amended
ZONING:	"A2 & P8" (Rural & Conservation/Hazard Land) district
PROPOSAL:	To permit the construction of a new 140.0m ² accessory building in the ear yard of the existing single detached dwelling notwithstanding hat:

1. A height of 7.3m shall be provided instead of the maximum building height of 6.0m permitted for accessory buildings.

NOTES:

i. Please be advised that pursuant to Subsection 4.8(a), accessory buildings shall not be used for human habitation.

This application will be heard by the Committee as shown below:

DATE: Thursday, Augus	t 12 th , 2021
TIME: 1:15 p.m.	
PLACE: Via video link or	call in (see attached sheet for details)
To be streamed a	it
www.hamilton.ca	/committeeofadjustment
for viewing purpo	oses only

PUBLIC INPUT

Written: If you would like to submit written comments to the Committee of Adjustment you may do so via email or hardcopy. Please see attached page for complete instructions, including deadlines for submitting to be seen by the Committee.

Orally: If you would like to speak to this item at the hearing you may do so via video link or by calling in. Please see attached page for complete instructions, including deadlines for registering to participate.

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MORE INFORMATION

For more information on this matter, including access to drawings illustrating this request:

- Visit <u>www.hamilton.ca/committeeofadjustment</u>
- Call 905-546-CITY (2489) or 905-546-2424 extension 4221, 4130, or 3935
- Email Committee of Adjustment staff at <u>cofa@hamilton.ca</u>

DATED: July 27th, 2021.

Jamila Sheffield, Secretary-Treasurer Committee of Adjustment

Information respecting this application is being collected under the authority of the Planning Act, R.S.O., 1990, c. P. 13. All comments and opinions submitted to the City of Hamilton on this matter, including the name, address, and contact information of persons submitting comments and/or opinions, will become part of the public record and will be made available to the Applicant and the general public.





CLIMATIC & DESIGN LOAD DATA

Hamilton - Above Escarpment - W of J.C. Monro Airport, Ontario

Airport, Ontario	
ROOF LOADING	KPA (psf)
GROUND SNOW LOAD Ss	1.5 (31.33 psf)
RAIN LOAD Sr	0.4 (8.35 psf)
SNOW LOAD FACTOR Cb	0.55
ROOF DESIGN SNOW LOAD	1.23 (25.58 psf)
ROOF & CEILING DESIGN DEAD LOAD	0.57 (12.00 psf)
FLOOR LOADING	
GROUND & SECOND FLOOR	1.92 (40.00 psf)
FLOOR/CEILING DESIGN DEAD LOAD	0.72 (15.00 psf)
WIND LOADING	
1/50 WIND PRESSURE	0.46 (9.61 psf)
1/10 WIND PRESSURE	0.36 (7.52 psf)
TEMPERATURE	
DEGREE DAYS BELOW 18°C	3460
SOIL	
ASSUMED ALLOWABLE BEARING PRESSURE AT FOOTING FOUNDING ELEVATION(S)	75 (1556 psf)
ROCK	500 (10,443 psf)
FREEZING INDEX	N/A
ELEVATION	240
THE DESIGN DEAD LOADS SPECIFIED ABOVE ARE BASED ON T MATERIALS EITHER SPECIFIED OR ASSUMED. WHERE DIFFER MATERIALS ARE PROPOSED THE CONTRACTOR MUST NOTIFY TO CONSTRUCTION OF ANY LOAD-BEARING ELEMENTS THAT I AFFECTED.	THE DRAWINGS AND ENT OR HEAVIER THE DESIGNER PRIOR MAY BE ADVERSELY

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GENERAL NOTE: 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 the designer.
WADDELL
ENGINEERING LTD. C - 119 PINEBUSH RD CAMBRIDGE ON MAR 738 PM.519-267-6789 FAX. 1-866-3968-8659 INFOSWADELING.COM Waddell Engineering
(519) 301 1779
THEINEERING TRANS
CERTIFIE CERTIE
MacDONALD Nº 43768
Matt Cornelisse 1072 center road Waterdown, Ontario
Date of Issue: April 16, 2021 Scale: N/A
TITLE PAGE
Report No: Drawing No: GP-21-17358 A-1

























GENERAL NOTE: These drawings are not to



MACDONALD Nº 43768 Drawing No:

A-9

GP-21-17358





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(519) 301 1779
NEERING
DOUGLAS MacDONALD N° 43768
Matt Cornelisse 1072 center road Waterdown, Ontario
Date of Issue: April 16, 2021
Scale: 3/16" = 1'-0"
Report No: Drawing No:
GP-21-17358 A-10 Sheet Size: 18x24



	GENERAL NOTE: 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 the designer.
28 Ga METAL STRANDING SEEM ON 15# ASPHALT MEMBRANE ON 1/2" PLYWOOD SHEATHING MIN. W/ H-CLIPS (OR OPTIONAL 2"X4" PURLINGS @ 24" MAX SPACING) 2"x4"x16" C/C LOOKOUTS PEAK OF ROOF	
TOP OF SUBFLOOR	MADDELL ENGINERING LTD. C-119 PINEBUSH RD CAMBRIDGE ON NIR 738 PIN. 519-367-6789 PIN. 519-367-6789
- LANDING - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Waddell Engineering (519) 301 1779
5/8" MIN. T&G PLYWOOD ON 2"x6"@ 16" C/C SECURED TO WALL AT EA. STUD W/ 2-3" NAILS & 4"x4" POST TO SLAB OUTER CORNER TOP OF SLAB/FIN. GRADE	
	DOUGLAS MACDONALD Nº 43768
	Matt Cornelisse 1072 center road Waterdown, Ontario

STAIR SECTION Drawing No: Report No:

Date of Issue: April 16, 2021 Scale: 3/16" = 1'-0"

GP-21-17358





GENERAL NOTE: 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 the designer.
WADDELL ENGINEERING LTD.
C - 119 PINEBUSH RD CAMBRIDGE OW NIR 7378 PH: 519-507-5789 PM: 1-246-388-9689 PM: 1-246-388-9689 Waddell Engineering (519) 301 1779
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DOUGLAS MACDONALD N° 43768
Matt Cornelisse 1072 center road Waterdown, Ontario
Date of Issue: April 16, 2021 Scale: AS NOTED

Drawing No: A-13

Report No:

GP-21-17358

CONSTRUCTION NOTES

-ALL CONSTRUCTION IS TO CONFORM TO THE LATEST NATIONAL BUIDING CODE OF CANADA (NBCC) & TO HALL GOINT HALL STATE OF A CONTRACT OF A CON

DO NOT SCALE DRAWINGS

FOOTINGS / SLABS

TYPICAL STRIP FOOTING: 9.15.1

- BASED ON 16'-1"(4.9m) MAX. SUPPORTED JOIST LENGTH - MIN. 2200psi (15MPa) CONCRETE AFTER 28 DAYS (9.15.2.2)

- SHALL REST ON UNDISTURBED SOIL, ROCK OR COMPACTED GRANULAR MINIMUM 4'-0" BELOW FILL W/ MIN. 10.9psi (75kPa) BEARING CAPACITY
 FILL W/ MIN. 10.9psi (75kPa) BEARING CAPACITY
 FIG. SIZES MAY BE REDUCED FOR SOLLS W/ GREATER BEARING CAPACITY THAN 75 MPA (1,566 PSF) (AS PER SOILS ENGINEERING REPORT)

TYPICAL STRIP FOOTING - (EXTERIOR WALLS) 9.15.3.4

- FTG, TO EXTEND MIN, 4'-0" (1200mm) BELOW GRADE - 1&2 STOREY - 19" X 6" (485mm X 155mi - 3 STOREY - 26" X 9" (660mm X 230mm) PINNING FOOTINGS TO ROCK

FINNING FOOTINGS TO ROCK -ROCK TO BE CLEAN & FREE OF DEBRIS -FOOTING TO BE PINNED TO ROCK W/ 10m DOWELS @ 24" C/C -IF OVERALL SLOPE IS GREATER THEN 20% THEN ENGINEERING NG REQUIRED TYPICAL STRIP FOOTING - (INTERIOR BEARING WALLS) 9.15.3.6

STEP FOOTING OBC 9.15.3.9

- SIZES AS PER NOTES 1 & 2 - 23 5/8" (600mm) MAX. VERTICAL RISE - 23 5/8" (600mm) MIN. HORIZONTAL RUN

DRAINAGE TILE OR PIPE 9.14.3 (SOME ENGINEERED SLAB APPLICATIONS)

MATERIALS SHALL CONFORM TO OBC- 9.14.3.1

- 4" (100mm) MIN. DIA. - LAID ON UNDISTURBED OR WELL COMPACTED SOIL - TOP OF TILE OR PIPE TO BE BELOW BTM. OF FLR. SLAB

COVER TOP & SIDES OF TILE OR PIPE W/ 6" (150mm) OF CRUSHED STONE OR OTHER COURSE CLEAN GRANULAR MATERIAL - TILE SHALL DRAIN TO SUMP DRAIN TILE OF PIPE WITH BUTT JOINTS SHALL BE LAID WITH 1/4"(6mm) TO 3/8"(10mm) OPEN JOINTS.

TOP HALF OF JOINTS TO BE COVERED WITH SHEATHING & POLY, AS PER OBC 9.14.3.1

GARAGE / EXTERIOR SLABS:

- 4" (100mm) CONCRETE SLAB -CONCRETE TO BE DESIGNED TO A MINIMUM 28 DAY 32MPa COMPRESSIVE STRENGTH WITH 6-8% AIR ENTRAINMENT. THE SLAB CONSTRUCTION MUST CONFORM TO CAN/CSA A23.3 - 94 AND THE ONTARIC

BUILDING CODE. DILDING CODE: PLACE SLAB ON MIN. 5", GRANULAR 'A' FILL (OBC - 9.14.4.2) (COMPACTED TO 98% SPD) ON SOUND UNDISTURBED ORIGINAL SUBGRADE. ALTERNATELY THE GRANULAR SLAB BASE MAY BE MINIMUM OF 5" OF 3/4" CLEAR STONE WITHOUT COMPACTION.

 -6" X 6" (W2.9 X W2.9) WIRE MESH LOCATED NEAR MID-DEPTH OF SLAB
 -WELDED WIRE FABRIC TO CONFORM TO CSA G30.5M.
 -SAW CUT TO A MAXIMUM DEPTH OF 1" TO CONTROL SHRINKAGE CRACKING. REINFORCING MUST NOT BE
 CUT WITH THIS OPERATION AND THEREFORE CARE MUST BE TAKEN TO PLACE THE REINFORCING ALLOWING ADEQUATE CONCRETE TOP COVER FOR SAW-CUTTING PURPOSES

OPTIONAL ENGINEERED SLAB

-REINFORCING SHALL BE DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO ACI STANDARD 315 AND THE MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF ONTARIO

STEEL COLUMNS

-WHERE COLUMN SITS ON FDN. WALL, USE 4" X 8" X 5/8" (100mm X 200mm X 16mm) STEEL PLATE WITH 2- 5/8" DIA.(16mm) x8" LG. x2" HOOK ANCHOR BOLTS -EXTERIOR OF STEEL COLUMNS SUSEPTABLE TO CORROSION SHALL BE TREATED WITH A RUST INHIBITIVE

WOOD COLUMN

-5 1/2" X 5 1/2" (140mm X 140mm) SOLID No. 1 or 2 SPF -7 1/4" (184MM) DIA. UNLESS CALCULATIONS PROVE A LESSER SIZE IS ADEQUATE. AS PER OBC - .17.4.1. (2) -METAL SHOE ANCHORED TO FTG.

-36" X 36" X 14" CONC, PAD WIDTH OF COLUMN SHALL BE NO LESS THAN THE WIDTH OF SUPPORTING MEMBERS

-SEE ATTACHED ENGINEERED SLAB PLANS FOR STEEL SIZING AND PLACEMENT

FOUNDATIONS

LOAD BEARING MASONY NOTES:

THE FOLLOWING INDICATES ONLY THE MINIMUM REQUIREMENTS APPLICABLE TO STRUCTURAL LOAD BEARING MASONRY, BASED UPON EMPIRICAL RULES FOR PLAIN MASONRY.

REFER ALSO TO ARCHITECTURAL DRAWINGS &/OR THE SPECIFICATION FOR REQUIREMENTS OTHER THAN STRUCTURAL, AND FOR NON-LOAD BEARING WALLS & PARTITIONS.

MASONRY CONSTRUCTION TO CONFORM TO CS & CAN3-A371-M.A STANDARDS CAN3-S304-M. CONCRETE BLOCKS & BRICKS:- TO CONFORM TO ONE OR MORE OF CSA A165.1M, .2M.3M OR .4M BLOCKS TO BE MODULAR UNITS AS SHOWN ON THE ARCHITECTURAL DRAWINGS &/OR SPECIFICATION, AND

UNLESS OTHERWISE NOTED SHALL BE:-FOR BELOW GRADE & EXTERIOR EXPOSED WALLS USE NORMAL WEIGHT UNITS:

CLAY BRICKS: TO CONFORM TO ONE OR MORE OF CSA A82.1M, .3M, .4M, .5M OR .8M SEE ARCHITECTURAL DRAWINGS &/OR SPECIFICATIONS FOR TYPES & STYLES OF BRICKS REQUIRED. UNLESS OTHERWISE NOTED, THE MINIMUM COMPRESSIVE STRENGTH (BRICK FLATWISE) GROSS AREA SHALL BE 20 MPa

MORTAR:- TO CONFORM TO CSA A179M. FOR LAYING CONCRETE BLOCKS... USE TYPE "S" MORTAR UNLESS NOTED. FOR LAYING CLAY BRICKS. USE TYPE "N" MORTAR UNLESS NOTED MASONRY GROUT- TO CONFORM TO CSA A179-M. THE SLUMP SHALL BE + 200mm (+8") AND THE MINIMUM 28 DAY COMPRESSIVE STRENGTHSHALL BE 12.5 MPa.

MASONRY CONNECTORS:- (ANCHORS, FASTENERS & TIES) SHALL CONFORM TO CSA CAN3-A370-M, AND BE INSTALLED TO COMPLY WITH CSA CAN3- A371M. SPACING, STRENGTH & GALVANIZING OF STRIP TIES, DOVETAIL ANCHORS, BAR ANCHORS, ROD ANCHORS, STRAP ANCHORS, WALL & PARTITION ANCHORS SHALL COMPLY WITH CSA CAN3-A370-M

HORIZONTAL JOINT REINFORCEMENT FOR ALL MASONRY WALLS: THE FOLLOWING ARE MINIMUM REQUIREMENTS:-- CONFORM TO CSA CAN3 A370-M & CAN 3-A371-M. 2 - REINFORCEMENT SHALL BE AN APPROVED CONTINUOUS "LADDER"

THE FOLLOWING ARE MINIMUM REQUIREMENTS: 1- CONFORM TO CSA CAN3 A370-M & CAN 3-A371-M 2 - REINFORCEMENT SHALL BE AN APPROVED CONTINUOUS "LADDER" TYPE, PREFABRICATED WITH 3.66 mm DIAMETER (9 GAUGE) LONGITUDINAL & CROSS WIRES 3 - SPACING: - PROVIDE REINFORCING IN THE TOP COURSE IMMEDIATELY BELOW FLOOR & ROOF BEARING LEVELS AND THE FIRST TWO COURSES ABOVE AND BELOW EVERY WALL OPENING. THE REINFORCING

SHALL EXTEND 600m (24°) BEYOND SUCH OPENINGS. FOR THE REMAINDER OF WALLS, THE VERTICAL SPACING SHALL NOT EXCEED 400mm (16″) 4 - OVERLAP SPLICES: SHALL BE A MIN. OF 150mm (6″) FOR KNURLED WIRE & 300mm (12″) FOR PLAIN WIRE. LAPS SHALL BE STAGGERED A MINIMUM OF 750mm (30″) FROM COURSE TO COURSE. REINFORCING SHALL NOT PASS THROUGH A VERTICAL CONTROL JOINT UNLESS OTHERWISE SHOWN. S - CORROSION RESISTANCE: JOINT REINFORCING FOR ALL WALLS IN CONTACT WITH SOIL, EXTERIOR WALLS & WALLS IN A MOIST ENVIRONMENT SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION TO

ASTM A153-B2, 458 gm/sq.meter (1.5 oz./sq.foot). 6- PROVIDE ALL PREFABRICATED CORNER AND TEE SECTIONS. COMPOSITE WALLS:- SHALL HAVE THE VERTICAL COLLAR JOINTS BETWEEN WYTHES COMPLETELY FILLED

WITH MORTAR OR GROU

BOND BEAMS:- MADE FROM LINTEL BLOCKS, OR HALF WEB BLOCKS WHERE SHOWN ON STRUCTURAL DRAWINGS SHALL CONFORM TO CSA A371-M.

GROUTING:- BY FILLING VOIDS OF HOLLOW UNITS & REINFORCED HOLLOW UNITS SHALL CONFORM TO CSA 1-371-M (MORTAR IS NOT ACCEPTABLE).

EXPANSION & CONTROL JOINTS:- SHALL BE PROVIDED. SEE ARCHITECTURAL DRAWINGS &/OR SPECIFICATION FOR DETAILS.

EXECUTION

BEARINGS ON MASONRY:-1 - MINIMUM BEARING ON MASONRY UNLESS OTHERWISE NOTED:-BEAMS (STEEL,CONC.,WOOD).......200mm (8") NOMINAL LINTELS (STEEL,CONC.,WOOD).......100mm (4") NOMINAL JOISTS (STEEL,WOOD)..........100mm (4") NOMINAL SLABS (CAST-IN-PLACE,PRECAST)...100mm (4") NOMINA STEEL DECKING (ON WELD PLATE)...100mm (4") NOMINAL

NOMINAL 2 - MASONRY BEARINGS SHALL BE OF SOLID BLOCKS (OR GROUTED SOLID) OR BRICKS LAID IN MORTAR. WASONRT BEARINGS SHALL BE OF SOLID BLOCKS (OK GROOTED SOLID) OR BRICKS LAID IN MORTAR.
 ALL JOINTS ARE TO BE FULLY FILLED WITH TYPE 'S' MORTAR.
 - MIN. SIZE OF SOLID BEARINGS AT BEAMS AND LINTELS UNLESS NOTED SHALL BE EQUAL TO TWICE THE BEARING/WALL PLATE (WP) LENGTH AND FOR A DEPTH EQUAL TO THE BEARING/WALL PLATE (WP) LENGTH, AND IN NO CASE LESS THAN 400 LONG x 200 DEEP (16" x 8"), SYMMETRICAL UNDER BEARING POINT. 4 - PROVIDE A MINIMUM OF ONE CONTINUOUS COURSE 200mm (8") OF SOLID OR GROUTED VOID BLOCKS OR BRICKS LAID IN MORTAR AT THE TOP COURSE IMMEDIATELY BELOW ALL FLOOR AND ROOF BEARING

COLD WEATHER CONSTRUCTION:- REQUIREMENTS & PROTECTION SHALL CONFORM TO CSA CAN3 A371- M AND UNDER NO CIRCUMSTANCES SHALL MASONRY CONSTRUCTION BE PERMITTED WHEN THE AIR TEMPERATURE FALLS BELOW - 12¢C.

CAST-IN PLACE CONCRETE NOTES:

PRODUCTS

EXECUTION

ICF FOUNDATION WALL NOTES:

ICF FOUNDATION MINIMUM WALL REINFORCMENT

MAIN FLOOR LEVEL ICF WALLS:

CAST-IN PLACE CONCRETE NOTES:	GENERAL NOTE: These drawings are not to be scaled. All dimensions must be verified by contractor prior to commencement of any work.
-Concrete foundation walls to be minimum 8" (200mm) thick and have a minimum compressive strength of 15 MPa	Any discrepancies must be reported directly to the designer.
GENERAL PROVIDE ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO CARRY OUT THE WORK.	
REFER ALSO TO GENERAL NOTES, NOTES UNDER PLANS AND SCHEDULES, TYPICAL DETAILS AND SPECIFICATION.	
PRODUCTS	
PORTLAND CEMENT, WATER AND AGGREGATES SHALL CONFORM TO CSA CAN3-A23.1M. PROVIDE AN APPROVED WATER REDUCING ADDITIVE IN ALL CONCRETE. PROVIDE AN APPROVED AIR ENTRAINING ADDITIVE IN ALL CONCRETE WHICH WILL BE EXPOSED TO A FREEZE/THAW CYCLE AND/OR THE ACTION OF DE-ICING SALT.ADMIXTURES SHALL CONFORM TO CSA CAN3-A266M SERIES.	
FORMWORK SHALL CONFORM TO CSA CAN3-A23.1M AND FALSEWORK SHALL CONFORM TO CSA S269.1. REINFORCING STEEL UNLESS SPECIFICALLY NOTED, SHALL BE DEFORMED BARS CONFORMING TO CSA	
G30.18-M GRADE 400 (58000 PSI). WELEDD WIRE FABRIC TO CONFORM TO CAS G30.5M. REINFORCING SHALL BE DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO ACI STANDARD 315 AND THE MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF ONTARIO. CURING AND SEALING COMPOUNDS WHERE APPROVED FOR USE TO CONFORM TO ASTM STANDARD C309. GENERALLY, ALL CONCRETE SURFACES ARE TO BE SEALED UNLESS NOTED OTHERWISE. COMPOUNDS ARE TO BE COMPATIBLE WITH APPLIED FINISHES.	
EXECUTION	
MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE @ 28 DAYS SHALL BE AS NOTED ON THE DRAWINGS OR GENERAL NOTES (30 MPa MINIMUM).	
SLUMP AT THE POINT OF DISCHARGE SHALL BE CONSISTENT AT 90mm + 20mm (3 1/2" + 3/4") UNLESS NOTED OTHERWISE. GREATER SLUMPS ARE NOT ACCEPTABLE.	
CONCRETE MIXING, TRANSPORTATION, HANDLING AND PLACING SHALL CONFORM TO CSA CAN3-A23.1M. CONSTRUCTION JOINTS FOR SLABS, AND BEAMS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION. GENERALLY JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID-SPAN IF POSSIBLE AND BE CLEAR OF SUPPORTS AND POINT LOADS.	
OPENINGS AND DRIVEN FASTENERS REQUIRED IN THE CONCRETE AFTER THE CONCRETE IS PLACED SHALL BE APPROVED BY A STRUCTURAL CONSULTANT BEFORE PROCEEDING.	
FINISHING, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FINISH TO EXPOSED CONCRETE. ALL HONEYCOMBING SHALL BE CUT OUT AND FILLED. FLOOR FINISHES SHALL BE AS REQUIRED BY THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND SHALL CONFORM TO CSA STANDARD CAN3-A23.1-M (CLASS A FINISH UNLESS NOTED).	
TOLERANCES FOR PLACING STRUCTURAL CONCRETE, REINFORCING STEEL, CAST-IN HARDWARE AND FOR FLOOR & ROOF FINISHES SHALL BE AS SPECIFIED IN CSA STANDARD CAN3-A23.1M. QUALITY CONTROL FOR INSPECTION AND TESTING, SEE GENERAL NOTES.	
ICF FOUNDATION WALL NOTES:	
-ICF FOUNDATION WALL -DAMPROOF EXTERIOR SURFACE -INSULATED CONCRETE FORM FOUNDATIONS MUST BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S SPECIFICATIONS -ROOF FRAMING FIXED TO TOP PLATES	
ICF FOUNDATION MINIMUM WALL REINFORCMENT	
HORIZONTAL REINFORCEMENT -10M BARS SPACED NOT MORE THEN -23 5/8°O.C(600mm) ON THE INSIDE HALF OF THE WALL SECTION, WITH MIN. COVER OF 1 1/4" (30mm) FROM THE INSIDE FACE OF THE CONCRETE. -0NE 10M BAR PLACED NOT MORE THEN 11 3/4"(300mm) FROM THE TOP OF THE WALL VERTICAL REINFORCEMENT -10M AT 10" O.C (250mm) ON THE INSIDE HALF OF THE WALL SECTION, WITH MIN. COVER OF 1 1/4" (30mm) FROM THE INSIDE FACE OF THE CONCRETE. -10M THE INSIDE FACE OF THE CONCRETE. -10M THE INSIDE FACE OF THE CONCRETE. -WHERE INTERLIPTED BY WALL OPENING BE PLACED NOT MORE THAN 23 5/8"(600mm) FROM FA. SIDE OF	
THE OPENING.	C - 119 PINEBUSH RD CAMBRIDGE ON
A COVER INSIDE FORM WITH DRYWALL OR APPROVED WOODS WOOD SHEATHING INSTALL IN	NIR 738 PH. 519-267-6789 FAX. 1-866-388-9659 INFOBWADBELLENG.COM
ACCORDANCE WITH 9.29 OF THE NATIONAL BUILDING CODE.	Waddell Engineering
	(319) 301 1779
	AND NEERING TRANS
	DOUGLAS MACDONALD
	Nº 43768
	Matt Cornelisse
	1072 center road
	waterdown, Untano
	Date of Issue: April 16, 2021
	Scale: N/A
	CONSTRUCTION NOTES
	Report No: Drawing No:

A-15

GP-21-17358

FRAME WALL CONSTRUCTION

LUMBER:

- UNLESS OTHERWISE NOTED TO BE SPRUCE-PINE-FIR (SPF), GRADE NO.2, CONFORMING TO CSA STANDARD WITH 0141 WITH A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION. LUMBER SHALL BEAR THE GRADING STAMP OF AN AGENCY APPROVED BY THE CANADIAN LUMBER

STANDARDS ADMINISTRATION BOARD. -NAILS, SPIKES, AND STAPLES: - TO CSA STANDARD B111; GALVANIZED FOR EXTERIOR WORK, OR HIGHLY HUMID AREAS AND FOR TREATED LUMBER; PLAIN ELSEWHERE. NAILING OF FRAMING UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLES 9.23.3 A, B, AND 9.23.13 A IN THE ONTARIO BUILDING CODE & NBC. -ROUGH HARDWARE: BOLTS, NUTS, WASHERS, LAGS, PINS, SCREWS, ALL TO BE HOT DIP GALVANIZED. -WOOD PRESERVATIVES (PRESSURE TREATED): - WHERE REQUIRED TO CONFORM TO CSA STANDARD

080-M. - FRAMING ANCHORS: - FRAMING ANCHORS, JOIST HANGERS, BEAM HANGERS, POST CAPS, POST ANCHORS, BACK-UP CLIPS AND ANGLES, UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DRAWINGS, ARE ALL TO BE AS MANUFACTURED BY TIMBER ENGINEERING COMPANY (TECO) OR AN APPROVED EQUAL, SIZED TO THE JOB AT HAND, ALL ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS UTILIZING "SPECIAL" NAILS WHERE REQUIRED.

STUD WALLS:

-PROVIDE FULL WIDTH SILL PLATES, MIN. 38x89 (2x4) ANCHORED TO FOUNDATION WITH 12 mm (1/2") DIAMETER BOLTS x 250 mm (10") LONG @ 1200 mm (4'-0") CENTRES. BOLTS TO BE GROUTED OR CONCRETED DIAME LER BOLTS X 250 mm (10°) LONG @ 1200 mm (4°-0°) CENTRES. BOLTS TO BE GROUTED OR CONCRET IN SOLID. -PROVIDE MINIMUM TWO (2) TOP PLATES FOR LOAD BEARING WALLS. PLATES TO BE LAPPED OR TIED AT

CORNERS AND INTERSECTIONS

STAGGERED. A GAP OF NOT LESS THAN 2 Mm (1/16') SHALL BE LET BETWEEN SHEETS OF PLYWOOD, WAFER BOARD OR FIBRE BOARD. MAKE BUTT JOINTS ON SOLID MATERIAL. -NOTCHING & DRILLING: - ONLY ALLOWED WITHIN THE LIMITATIONS SET OUT IN THE ONTARIO BUILDING CODE CODE. -BEAMS, LINTELS AND JOISTS SHALL BE AS SUPPLIED BY AN APPROVED MANUFACTURER.

ACCEPTABLE TYPES:

LP SOLIDSTART BY LOUISIANA PACIFFIC. GANGLAM BY GANG-NAIL CANADA LTD. MICROLAM BY TRUS JOIST CORPORATION. PARALLAM BY MacMILLAN BLOEDEL LTD. -LAMINATED VENEER LUMBER (LVL) -WOOD VENEERS & ADHESIVES: - SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S STANDARDS AND APPLICABLE CSA STANDARDS.

-ALL MEMBERS SHALL BEAR IDENTIFICATION MARKS OF THE MANUFACTURER. -NAILING AND/OR BOLTING: - OF MULTI-PLYS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN NO CASE LESS THAN 2 ROWS OF 16d (3 1/2") NAILS AT 300mm (12") CENTRES, EACH -NAILS INTO EDGES OF LVL SHALL BE SPACED AT A MINIMUM OF 75mm (3") FOR 8d (2 1/2") NAILS AND 100 (4")

-tVALLS IN TO EXDESS OF LVS OFALL BE SPACED AT A MINIMUM OF 7511111 (3) P FOR 100 (3") NAILS. -LVL TO HAVE MINIMUM END BEARING SHALL BE 75mm (3") UNLESS NOTED.

FRONT WALL:

ANALYSIS OF THE GARAGE FRONT WALL SHEAR RESISTANCE HAS NOT BEEN CONDUCTED DUE TO THE APPARENT PAST INSIGNIFICANCE OF SMALL ONE STOREY WOOD FRAME UNINHABITED STRUCTURES. PAST PERFORMAMNCE OF SIMILAR BUILDINGS IN ONTARIO HAS PRESENTED LITTLE OR NO DATA THAT HAS PROVEN THIS ASPECT OF A GARAGE STRUCTURE TO FAIL UNDER LATERAL WINDLOAD FORCES. PART 9 OF THE ONTARIO BUILDING CODE IS SILENT ON THE ISSUE OF LATERAL STABILITY IN EXTERIOR SHEAR WALLS. IBD THEREFRORE THROUGH ITS DESIGN EXPERIENCE DEEMS THE FRONT WALL AT THIS TIME UNWARRANTED FOR DETAILED SHEARWALL ANALYSIS.

WINDOW AND MAN DOOR:

-THE WINDOW AND MAN DOOR ON THE SIDE CAN BE MOVED WITHIN THE WALL AS LONG AS A MINIMUM OF 16" IS MAINTAINED BETWEEN THE WINDOW AND THE DOOR AS WELL AS BE A MINIMUM OF 16" FROM THE CORNERS. IF THE SIDE WINDOW OR MAN DOOR IS MOVED WITHIN THE WALL, THE OPENING MUST BE CLEAR OF ANY GIRDER TRUSS BEARING.

HIGH WALL CONSTRUCTION:

WHERE THE WALL STUDS ARE IN EXCESS OF 9'-10" IN LENGTH THE WALL IS TO BE CONSTRUCTED AS

WHERE THE WALL STODS ARE IN EXCESS OF 9-10" IN LENGTH THE WALL IS TO BE CONSTRUCT FOLLOWS: (OBC SECTION 9.23.10.1(2)) 1. PROVIDE 1/2" PLYWOOD SHEATHING ON THE EXTERIOR 2. 1/2" MINIMUM GWB ON THE INSIDE FACE OF THE STUD 3. SOLID BLOCKING BETWEEN THE STUDS @ 4-0" O.C. MAX 4. STUDS ARE TO BE FASTENED TO THE PLATES WITH (3) 3 1/4" TOED NAILS 5. DOUBLE TOP PLATES ARE TO BE FASTENED TOGETHER WITH MIN. 3" NAILS @ 8" O.C. MAX 6. BOTTOM PLATES MUST BE FASTENED WITH THE EQUIVALENT OF 3 1/4" NAILS @ 8" O.C. MAX 7. PROVIDE 3-PLY CONTINUOUS KING STUDS EACH SIDE OF THE WINDOW OPENINGS

SPATIAL SEPARATION:

- IF ELEVATION FACES ONE STREET THEN PROPOSED UNPROTECTED OPENING AREA CAN BE 100% - IF ELEVATION FACES DWELLING ON SAME PROPERTY THEN PROPOSED UNPROTECTED OPENING AREA CAN BE 100%

TYPICAL ROOF CONSTRUCTION

-NO. 210 (30.5KG/m2) ASPHALT SHINGLES -FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE ICE & WATER SHIELD INSTALLED ON PERIMETER OF ROOF, INSTALL AS PER MANUFACTURERS INSTRUCTIONS -ICE & WATER SHIELDTO BE LAID BENEATH STARTER STRIP

- -STARTER STRIP AS PER OBC- 9.26.7.2 -STARTER STRIP NOT REQUIRED IF TYPE M ROLL ROOFING IS USED FOR EAVES PROTECTION -71/6" OSB SHEATHING MIN. (0-1 GRADE) WITH METAL "H" CLIPS OR NOT LESS THAN 2"x2" BLOCKING SECURELY NAILED BETWEEN FRAMING MEMBERS
- SECURELY NAILED BETWEEN FRAMING MEMBERS -ROOF SHEATHING PROVIDE AT LEAST A 2 mm (1/16") GAP BETWEEN SHEETS. -EXTERIOR TYPE PLYWOOD USED AS ROOF AND/OR WALL SHEATHING SHALL BE LEGIBLY IDENTIFIED THAT THE MATERIAL IS OF EXTERIOR TYPE. -APPROVED WOOD TRUSSES DESIGNED BY SUPPLIER TRUSS BRACING AS PER TRUSS MANUFACTURER -PREFINISHED ALUMINUM FASCIA AND ALUMINUM VENTED SOFFIT -ROOF VENTILATION: 1 SQUARE FOOT PER 300 SQ.FT. OF CEILING AREA. (50% AT EAVES) 6.2.2.7
- LOW SLOPE ROOF APPLICATION (SLOPES LESS THEN 4:12)

-NO. 210 (30.5KG/m2) ASPHALT SHINGLES -EXCEPT FOR FIRST 2 COURSES COVERAGE SHALL NOT BE LESS THAN 3 THICKNESSES OF SHINGLES OVER ENTIRE ROOF -ICE & WATER SHIED OVER ENTIRE ROOF SURFACE

- -STARTER STRIP TO BE LAID IN CONTIN. BAND OF CEMENT NOT LESS THEN 7 7/8" WIDE SECURE TABS W/ COLD APPLICATION CEMENT APPLIED AT A RATE OF NOT LESS THEN 1 gal/100 ft2 OF CEMENTED AREA OR HOT APPLICATION ASPHALT AT A RATE OF 0.2 LB/ft2 OF CEMENTED AREA -SHINGLES ON HIPS AND RIDGES SHALL NOT BE LESS THEN 11 3/4" WIDE
- -ALL FLASHING TO WINDOWS, DOORS AND CLADDING TO BE INSTALLED AS PER OBC 9.27.3.8
- -1" X 2" (19mmX 38mm) BOTH SIDES OF STEAL BEAM FLANGE OR WOOD CONT'S WOOD PLATE SECURED TO TOP FLANGE.
- -WOOD FRAMING MEMBERS SUPPORTED ON CONCRETE IN CONTACT WITH GROUND OR FILL SHALL BE PRESSURE TREATED OR SEPARATED FROM CONCRETE W/ 6 mil POLYETHYLENE OR No. 15 ROLL ROOFING

- 'SB' PROVIDE EQUAL NUMBER OF PLIES IN POST AS ARE IN THE SUPPORTED BUILT-UP BEAM

POINT LOAD:

BUILT-UP POSTS SUPPORTING P.L. (FROM ABOVE) MUST BE AS WIDE AS THE COLUMN ABOVE. THE BLOCKING IN THE JOIST SPACE ABOVE THE BUILT-UP POST TO BE THE SAME NUMBER OF PLIES AS IN THE POST

TRUSSES:

IF ANOTHER TRUSS MANUFACTURE IS DESIRED THEN THESE APPROVED ENGINEERED TRUSS DETAILS & LAYOUTS MUST BE REPLACED WITH THE CHOSEN MANUFACTURES APPROVED ENGINEERED DETAILS & LAYOUT. THESE FINAL TRUSS DETAILS & LAYOUT MUST BE SUBMITTED TO THE AUTHORITY HAVE JURASTICTION AND MUST BE KEEP ON SITE FOR CONSTRUCTION & INSPECTION PURPOSES

GIRDER TRUSS:

GIRDER LOADS HAVE BEEN CALCULATED FROM TRIBUTARY AREA

STAIR CONSTRUCTION

STAIRS & GUARDS 9.8 STAIRS: 9.8 - RESIDENTIAL

STAIR LANDING:

- 5/8" T&G PLYWOOD ON 2"x6" @ 16" C/C SECURE LANDING TO EACH STUD W/ 2- 3 1/4" COMMON SPIRAL NAILS, SUPPORT OUTSIDE CORNER W/ 4"x4" WOOD POST TO SLAB BELOW, SECURE

GUARDS: 9.8.8.

GUARDS REQUIRED IF: THERE IS A DIFFERENCE IN ELEVATION OF MORE THAN 1'-11 5/8" (600 mm) BETWEEN THE WALKING SURFACE AND THE ADJACENT SURFACE, OR -THE ADJACENT SURFACE WITHIN 3'-11 1/4" (1200 mm) FROM THE WALKING SURFACE HAS A SLOPE OF MORE THAN 1 IN 2. THE HEIGHT OF GUARDS FOR EXTERIOR STAIRS AND LANDINGS MORE THAN 10 M ABOVE ADJACENT GROUND LEVEL SHALL BE NOT LESS THAN 4'-11 1/ 16" (1500 mm.)

GENERAL NOTE: 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 the designer.
ENGINEERING LTD. C - 119 PINEBUSH RD
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DUGLAS MACDONALD
Matt Cornelisse 1072 center road Waterdown, Ontario
Date of Issue: April 16, 2021
CONSTRUCTION NOTES
Report No: Drawing No: GP-21-17358 A-16

CEPT AT LANDINGS

VHERE LOFT DEEMED TO BE A DWELLING

Load Determination	mination							Wood - Lumber Built-up							
Lintel Supporting 1 Floor + Roof					Generic	Mate	erial								
Location Construction		PSF	Species	Grad	le Wic	dth	Depth	# o	f Plies						
Floor 1 Dead Load: Typical Light Finish Resider	ntial	15	S-P-F	No.	1 2	2	4		2						
Floor 1 Live Load: Typical Residential Floor		40													
Roof Design Snow Load: Hamilton - Above Escarpme W of J.C. Monro Airport	ent -	25.58		(Lbs)	RO		Dad at Rig	.bs)							
Calculation Results				Live:	87			Live:	87						
Factored Load at Left Beam Support	321	Lbs		Snow:	111			Snow:	111						
Factored Load at Right Beam Support	321	Lbs	F	actored:	321		Fac	ctored:	321						
% Stress Allowed in Bending	24 %	6 OK	Max	Moment	Location:	2.15'	From Let	ft Supp	ort						
% Stress Allowed in Shear	11%	OK	Design S	Summa	ry										
% Allowed Live Load Deflection	25%	OK			- De	escrin	tion 2-2x	4							
% Allowed Total Load Deflection	20%	OK	Mi	nimum I	oft Boarin		rath: 0.17	in R/L	Stud						
% Allowed Permanent Deflection	16%	OK	Mini		bt Poorin		ngth: 0.17	in B/U	Stud						
Minimum Longth of Rearing for Ream (Loft)	0 17	OK	IVIIII		abt Deene				Siuu						
Minimum Length of Bearing for Beam (Left)	0.17		Dualificatio		gni basec	a on e	spanja Lo	5							
Min Longth of Dearing for Support Member (Lft)	0.17			n Notes	i: Ie must br		norted on	tho							
Min. Length of Bearing for Support Member (Lit)	0.08			n edae a	t intervals	s supp not e	exceeding	24" O.	C						
Lintel Support Right			wide Engine must be cor Generic LVI with a Manu Any of the s included in as the bean	ered Wo nprised o . Materia ifacturer. upportin chis desig n.	t Right	s grea e merr n cho rs for upport	ater than ober units osen alway the beam t must be	14" in c - Wher ys verify are no the sar	lepth e a y sizing t ne width						
USBORGENDELLENCO C - 119 PINEBUSH RD CAMBRIDGE ON MIR 7J8 PH. 519-267-6789 FAX. 1-565-358-9659 FAX. 1-565-358-965 FAX. 1-565-358-358-358-358-358-358-358-358-358-35	SION 1000	 Lintel S	pan Dra	wing Title: LINTEL ROOF (e: 2021-04- ⁻¹ el Name:	. SUPPO CALCUL 16 Scal	DRTI ATIC	ING DNS	roject Title Matt C roject Add 1072 c Waterdo rawing No	: cornelisse ress: enter road wn, Ontario :: 1						

Load Determinatio	n		Wood - Lumber Built-up							
Lintel Su	pporting 1 Floor + Roof					Generic	c Material			
Location	Construction		PSF	Specie	s Gra	de Wi	dth De	pth #	of Plies	
Floor 1 Dead Load:	Typical Light Finish Resider	ntial	15	S-P-F	No.	1 2	2 (6	1	
Floor 1 Live Load:	Typical Residential Floor		40	Load	t Loft Su	onorte	Loada	t Diabt S	upporte	
Roof Design Snow Load:	Hamilton - Above Escarpme W of J.C. Monro Airport	ent -	25.58	LUau	(Lbs)	109		(Lbs)		
Calculation Result	S				Live	100		Live	e: 107	
Factored	Load at Left Beam Support	394 L	bs		Snow	137		Snov	V: 137	
Factored I	Load at Right Beam Support	394 L	bs	NA:	racioreu	1 394	2 64' Eror		J. 394	
	% Stress Allowed in Bending	35 %	OK			LUCATION	. 2.04 FIU		port	
	% Stress Allowed in Shear	20%	OK	Design	Summa	ary				
% A	Allowed Live Load Deflection	24%	OK			De	escription:	1-2x6		
% A	llowed Total Load Deflection	20%	OK		Minimum I	_eft Bearir	ng Length:	0.43 in B/	'U Stud	
% AI	lowed Permanent Deflection	15%	OK	N	inimum Ri	ght Bearir	ng Length:	0.43 in B/	'U Stud	
Minimum Lengt	th of Bearing for Beam (Left)	0.43			9 Lbs					
Minimum Length	of Bearing for Beam (Right)	0.43		Qualifica						
Min. Length of Bear	ing for Support Member (Lft)	er (Lft) 0.2 All Beams and Lintels must be su						d on the		
Min. Length of Bear		Compress	ion edge a	at intervals	s not excee	eding 24"	0.C			
		wide Eng must be o Generic L with a Ma Any of the included as the be	neered W omprised VL Materia nufacturer supportir n this desi am.	ood Beam of multiple al has bee : ig membe gn. The si	ns greater f e member en chosen a rs for the b upport mus	than 14" ir units - Wh always ve beam are i st be the s	n depth ere a rify sizing not ame width			
	Lintel Support Right +		5'-4 Lintel S	" pan	Lintel Supp	port Right		Project T	ītte:	
V C - 119 PINEBUSH RD C - 119 PINEBUSH RD C AMBRIDGE ON NIR 738 PH. 519-267-6789 PAX. 1-866-388-9593 INFO@WADDOLLENG.COM Waddell Engineering (519) 301 1779	B.W 904 B.W 904 B.W	ADDE 173372 16 20		Anser	LINTEI ROOF	- SUPP(CALCUL ¹⁶ Sca INTEL W	ORTING _ATIONS le: N/A /05	Project A 107 Wate Drawing File No.:	tt Cornelisse address: 2 center road rdown, Ontario No.: 2	

Load Determination			Wood -	Lum	oer E	Built-u	р			
Lintel Supporting 1 Floor + Roof					(Generic	Mate	erial		
Location Construction		PSF	Species	G	rade	Wid	ith	Depth	# o	f Plies
Floor 1 Dead Load: Typical Light Finish Reside	ntial	15	S-P-F	N	lo. 1	2	2	4		2
Floor 1 Live Load: Typical Residential Floor		40								
Roof Design Snow Load: Hamilton - Above Escarpm W of J.C. Monro Airport	ent -	25.58		(Lbs)	ad	80		Dad at Rig	.bs)	80
Calculation Results				Li	ve:	87			Live:	87
Factored Load at Left Beam Suppor	t 321	Lbs		Sno	ow:	111			Snow:	111
Factored Load at Right Beam Suppor	t 321	Lbs		Factor	ed:	321		Fa	ctored:	321
% Stress Allowed in Bending	124 9	% OK	Ma	k Mome	ent Lo	ocation:	2.15'	' From Le	ft Supp	ort
% Stress Allowed in Shea	11%	o OK	Design	Sum	mary	/				
% Allowed Live Load Deflection	125%	6 OK			-	De	escrip	tion 2-2x	4	
% Allowed Total Load Deflection	20%	6 OK		linimur	nlef	Bearin	aler	hath: 0.17	in B/U	Stud
% Allowed Permanent Deflection	16%		M	nimum	Right	Bearin	aler	ngth: 0.17	in B/U	Stud
Minimum Length of Bearing for Beam (Left	10.17	7		Ream V	Veiah	t Rased		Span Q I h		Oldu
Minimum Length of Bearing for Beam (Right	10.17	7	Qualificat		toe				3	
Min. Length of Bearing for Support Member (I ft		2		and Li	ntels	must he		norted on	the	
Min. Longth of Bearing for Support Member (Et		, ,	compress	on edg	e at ii	ntervals	note	exceeding	24" O.	C
Lintel Support Right			wide Engi must be c Generic L with a Ma Any of the included in as the bea	omprise /L Mate nufactu suppo n this de m.	rting r esign	multiple nas been nember . The su	rs for	the beam t must be	- Wher ys verify are no the sar	e a / sizing t ne width
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C - 119 PINEBUSH RD CAMBRIDGE ON NIR 738 PH. 519-267-6789 PAX. 1-866-388-9659 INFO@WADDELENG.COM Waddell Engineering (519) 301 1779	Na 13372 16 20	DIE DIE NTARIO	K. ī	ate: 2021		Scale	ATI(e: N/A 02	DNS	roject Add 1072 c Waterdo Drawing No	ress: enter road wn, Ontario :: 3

Lintel Supporting 1 Floor + Roof Generic Material Location Ceneric Material Lintel Supporting 1 Floor + Roof Species Grade Width Depth Floor 1 Live Load: Typical Residential Floor 40 Calculation Results Load at R Factored Load at Left Beam Support [321 Lbs Live: 87 Show: 111 Load at R Show: 111 Load at R Factored Load at Left Beam Support [321 Lbs Max Moment Location: 2.15' From L % Stress Allowed in Bending 24 % OK % Stress Allowed in Bending 24 % OK % Stress Allowed In Bending 24 % OK % Allowed Teat Load Deflection 25% OK Minimum Length of Bearing for Beam (Left) 0.17 Minimum Length of Bearing for Beam (Left) 0.17 Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Support Member (Lft) 0.08 Minimum Length of Bearing for Support Member (Lft) 0.08 Lintel Support Right <th c<="" th=""><th>Load Determination</th><th></th><th></th><th>Wood -</th><th>Lu</th><th>mber</th><th>Built-u</th><th>ıp</th><th></th><th></th><th></th></th>	<th>Load Determination</th> <th></th> <th></th> <th>Wood -</th> <th>Lu</th> <th>mber</th> <th>Built-u</th> <th>ıp</th> <th></th> <th></th> <th></th>	Load Determination			Wood -	Lu	mber	Built-u	ıp			
Location Construction PSF Floor 1 Dead Load: Typical Residential Floor 40 Roof Design Snow Load: Typical Residential Floor 40 Roof Design Snow Load: W of J.C. Monro Airport 25.58 Calculation Results Live: 87 Factored Load at Left Beam Support [321 Lbs Bead: 89 % Stress Allowed in Bearling [24 % [0K] % Stress Allowed in Shear [11% [0K] % Stress Allowed in Shear [11% [0K] % Allowed Permanent Deflection [25% [0K] Minimum Length of Bearing for Beam (Rght) 0.17 Min. Length of Bearing for Support Member (Lft) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Lintel Support Right + Lintel Support Rig	Lintel Supporting 1 Floor + Roof						Generic	Mate	erial			
Floor 1 Dead Load: Typical Light Finish Residential 15 Floor 1 Live Load: Typical Residential Floor 40 Roof Design Snow Load: Hamilton - Above Escarpment - 25.58 Load at Left Supports Load at R Supports Calculation Results Factored Load at Left Beam Support 321 Lbs Dead: 83 Live: 87 % Stress Allowed in Bending 24 % DK % Stress Allowed in Bending 24 % DK Max Moment Location: 2.15' From L Desciption: 2.2 % Allowed Total Load Deflection 25% DK Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Right Bearing Length: 0.1 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Ste ased on Span 91 Cualification Notes: Min. Length of Bearing for Support Member (Rt) 0.08 Multiple member unit Generic LVL Material has been chosen alw with a Manufacturer. Any of the supporting member unit Generic LVL Material has been chosen alw with a Manufacturer. Any of the support Right Lintel Support Right Lintel Support Right Lintel Support Right Lintel Support Right Lintel Support Right	Location Construction		PSF	Species	;	Grad	e Wic	dth	Depth	# o	f Plies	
Floor 1 Live Load: Typical Residential Floor 40 Roof Design Snow Load: Hamilton - Above Escarpment - 25.58 Load at Left Supports Load at R Supports Calculation Results Factored Load at Left Beam Support 321 Lbs Bead: 89 Live: 87 Factored Load at Left Beam Support 321 Lbs % Stress Allowed in Bending 24 % OK Max Moment Location: 2.15' From L % Allowed Total Load Deflection 25% OK Maximum Length of Bearing for Beam (Left) 0.17 Minimum Length of Bearing for Beam (Left) 0.17 Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Left Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Minimudature: All Beams and Lintels must be supported at their all bas been chosen alw with a Manufacture: Any of the support Right Lintel Support Right Lintel Support Right Lintel Support Right Lintel Support Right Lintel Support Right Lintel Support Right Lintel Support Right	Floor 1 Dead Load: Typical Light Finish Resid	ential	15	S-P-F		No. 1	2	2	4		2	
Reof Design Snow Load: Hamilton - Above Escarpment - 25.58 Load at Left Supports Load at R Calculation Results Factored Load at Left Beam Support 321 Lbs Dead: 89 Factored Load at Left Beam Support 321 Lbs Snow: 111 Factored: 311 % Stress Allowed in Bending 24 % OK % Stress Allowed in Bending 24 % OK Max Moment Location: 2.15' From L % Allowed Total Load Deflection 25% % Minimum Left Bearing Length: 0.1 % Allowed Total Load Deflection 20% Minimum Left Bearing Length: 0.1 Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Beam (Right) 0.17 Min. Length of Bearing for Support Member (Rt) 0.08 Minimum Right Bearing Length: 0.1 Min. Length of Bearing for Support Member (Rt) 0.08 All Beams and Lintels must be supported to compression edge at intervals not exceedint without treatments and "Standard Term" loavide timbut treatments and "Standard	Floor 1 Live Load: Typical Residential Floor		40				·					
Deal of the support space of	Roof Design Snow Load: Hamilton - Above Escarp W of J.C. Monro Airport	ment -	25.58		t Lei (Ll	ft Supj bs)			oad at Rig	bs)	eports	
Factored Load at Left Beam Support 321 Lbs Factored Load at Right Beam Support 321 Lbs % Stress Allowed in Bending 24 % or % Allowed Live Load Deflection 25% or % Allowed Total Load Deflection 20% or % Allowed Permanent Deflection 16% or Minimum Length of Bearing for Beam (Right) 0.17 Max Moment Location: 2.15' From L Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Compression edge at intervals not exceed Beams must be laterally supported at their Design of wood beams is based on dry ser without treatments and "Standard Term" loo wide Engineered Wood Beams greater that must be comprised of multiple member unil Generic LVL Material has been chosen alw with a Manufacturer. Any of the support Right Lintel Support Right Lintel Support Right Lintel Support Right	Calculation Results				L	Live:	87			Live:	87	
Factored Load at Right Beam Support Factored: 321 F Max Moment Location: 2.15' From L % Stress Allowed in Shear 11% % Max Moment Location: 2.15' From L % Allowed Live Load Deflection 25% % Description: 2.2' % Allowed Total Load Deflection 25% % Minimum Left Bearing Length 0.1 % Allowed Permanent Deflection 16% Minimum Right Bearing Length 0.1 Minimum Right Bearing Length 0.1 Minimum Length of Bearing for Beam (Left) 0.08 0.17 Minimum Length of Bearing for Support Member (Rt) 0.08 Beams and Lintels must be supported or during member standard Term' load multiple member unit treatments and "Standard Term' load wide Engineered Wood Beams greater that must be comprised of multiple member unit Generic LVL Material has been chosen alw with a Manufacturer. Any of the support Right Intel Support Right Lintel Support Right Lintel Support Right Lintel Support Right Intel Support Right	Factored Load at Left Beam Supp	ort 321	Lbs		S	Snow:	111			Snow:	111	
Max Moment Location: 2.15' From L % Stress Allowed in Bending 24 % OK % Stress Allowed In Shear 11% OK % Allowed Live Load Deflection 25% OK % Allowed Total Load Deflection 25% OK % Allowed Total Load Deflection 20% OK Minimum Length of Bearing for Beam (Left) 0.17 Minimum Length of Bearing for Beam (Right) 0.17 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Lintel Support Right	Factored Load at Right Beam Supp	ort 321	Lbs		Fac	tored:	321		Fac	ctored:	321	
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% Allowed Live Load Deflection 25% OK % Allowed Total Load Deflection 20% OK % Allowed Total Load Deflection 20% OK % Allowed Total Load Deflection 20% OK % Allowed Permanent Deflection 16% OK Minimum Length of Bearing for Beam (Left) 0.17 Min. Length of Bearing for Support Member (Lft) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt)	% Stress Allowed in She	ar 11%	6 OK	Design	Su	mma	ry					
% Allowed Total Load Deflection 20% K % Allowed Permanent Deflection 16% OK Minimum Length of Bearing for Beam (Right) 0.17 Minimum Length of Bearing for Support Member (Lft) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Minimum Length of Bearing for Support Member (Rt) 0.08 Lintel Support Right Lintel Support Right	% Allowed Live Load Deflecti	on 25%	6 OK				- De	escrin	otion: 2-2x	4		
% Allowed Permanent Deflection 16% K Minimum Length of Bearing for Beam (Left) 0.17 Minimum Length of Bearing for Support Member (Lft) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Support Member (Rt) 0.08 Lintel S	% Allowed Total Load Deflecti	on 20%	6 OK	N	/inin	num l e	eft Bearin	alei	nath 0.17	in B/U	Stud	
Minimum Length of Bearing for Beam (Left) 0.17 Minimum Length of Bearing for Support Member (Lt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Linkel Support Right Linkel Support Right Linkel Support Right Linkel Support Right Linkel Support Ri	% Allowed Permanent Deflection	on 16%		Mi	nimi		ht Bearin	n Lei	ngth: 0.17	in B/U	Stud	
Minimum Length of Bearing for Support Member (Lft) 0.17 Min. Length of Bearing for Support Member (Lft) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Generic LVL. Material has been chosen alw with a Manufacturer. Any of the support members on the bear included in this design. The support must be as the beam. Lintel Support Right	Minimum Length of Bearing for Beam (Le	ft) 0 17	7	IVI	Roar	n Woic	tht Based		Span Q I h		Sidu	
Min. Length of Bearing for Support Member (Lft) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 All Beams and Lintels must be supported of compression edge at intervals not exceeding Beams must be laterally supported at their Design of wood beams is based on dry ser without treatments and "Standard Term" loc wide Engineered Wood Beams greater that must be comprised of multiple member (utility). And Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 All Beams and Lintels Standard Term" loc wide Engineered Wood Beams greater that must be comprised of multiple member unil Generic LVL Material has been chosen alw with a Manufacturer. Any of the supporting members for the beam. Lintel Support Right	Minimum Length of Bearing for Beam (Rid	$\frac{10}{0.17}$	7	Qualificat	ion	Notos				5		
Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Min. Length of Bearing for Support Member (Rt) 0.08 Compression edge at intervals not exceeding Beams must be laterally supported at their Design of wood beams is based on dry service of without treatments and "Standard Term" loa wide Engineered Wood Beams greater that must be comprised of multiple member unit Generic LVL Material has been chosen alw with a Manufacturer. Any of the supporting members for the bea included in this design. The support must be as the beam. Lintel Support Right Lintel Support Right Lintel Span Drewing Title: LINTEL SUPPORTING DOCE CAL CUL ATIONS	Min Length of Bearing for Support Member (I	ft) 0.17	2		and	l l intele	s must he		norted on	the		
Beams must be laterally supported at their Design of wood beams is based on dry ser without treatments and "Standard Term" loc wide Engineered Wood Beams greater that must be comprised of multiple member unit Generic LVL Material has been chosen alw with a Manufacturer. Any of the support members for the bea included in this design. The support must b as the beam. Lintel Support Right Lintel Support Right Lintel Support Right Lintel Span	Min. Length of Bearing for Support Member (E		, ,	compress	on e	edge at	intervals	s not e	exceeding	24" O.	C	
Lintel Support Right - Lintel Support Right 4'-4" Lintel Span Lintel Span Drawing Title: LINTEL SUPPORTING BOOF CAI CUI ATIONS				without tree wide Engi must be c Generic L' with a Mar Any of the included in as the bea	atmo peer ompi /L N nufac sup n this m.	ents ar red Wo rised o laterial cturer. porting s desig	nd "Stand od Beam f multiple has bee member n. The su	lard T s gre e men n cho rs for uppor	Term" load eater than ober units osen alway the beam t must be	duratic 14" in d - Wher /s verify are no the sar	on - 1.75" epth e a / sizing t ne width	
NIR 738 PH. 519-267-6789 PH. 519-267-6789 PXL 1:86-6789 FILL 0:0000000000000000000000000000000000	Lintel Support Rig	ht -	Lintel S SIONAL ACCO DDELL 3372	pan Li	rawing LIN RO	g Title: NTEL OF C	SUPPC	DRT ATIO	ING ONS	roject Title Matt C roject Addi 1072 cr Waterdo	: cornelisse ress: enter road wn, Ontario	

Load Determination	n		Wood - Lumber Built-up							
Lintel Su	pporting 1 Floor + Roof					Generi	c Material			
Location	Construction		PSF	Specie	s Gr	ade Wi	idth De	pth #	of Plies	
Floor 1 Dead Load:	Typical Light Finish Resider	ntial	15	S-P-F No. 1 2 6						
Floor 1 Live Load:	Typical Residential Floor		40	Load at Left Supports Load at Right Supr						
Roof Design Snow Load:	Hamilton - Above Escarpme W of J.C. Monro Airport	ent -	25.58		(Lbs)			(Lbs)		
Calculation Result	6				Liv	e: 107		Live	: 107	
Factored	I Load at Left Beam Support	394 L	bs		Snov	V: 137		Snow	137	
Factored I	_oad at Right Beam Support	394 L	bs	N.4	Factore	1: 394	 - 2.64' Eror	Factored	: <u>394</u>	
0	6 Stress Allowed in Bending	35 %	OK	IVI	ax Mome	nt Location	: 2.64° From	n Left Supp		
	% Stress Allowed in Shear	20%	OK	Desigr	Sumn	nary				
% A	Ilowed Live Load Deflection	24%	OK			D	escription:	1-2x6		
% A	llowed Total Load Deflection	20%	OK		Minimum	Left Beari	ng Length:	0.43 in B/l	J Stud	
% AI	owed Permanent Deflection	15%	OK	N	linimum l	Right Beari	ng Length:	0.43 in B/l	J Stud	
Minimum Lengt	h of Bearing for Beam (Left)	0.43			9 Lbs					
Minimum Length	of Bearing for Beam (Right)	0.43		Qualifica	tion Not	es:				
Min. Length of Beari	ng for Support Member (Lft)	0.2		All Beams and Lintels must be supported on the						
Min. Length of Bear		Compress Beams m	sion edge	at interval	s not excee	eding 24" C	0.C			
				without tr wide Eng must be o Generic I with a Ma Any of th included as the be	eatments ineered \ comprise .VL Mate unufactur e support in this de am.	and "Stan Vood Bear d of multipl rial has bee er. ing membe sign. The s	dard Term" ns greater f e member en chosen ers for the b support mus	' load durat than 14" in units - Whe always veri beam are n st be the sa	ion - 1.75" depth ere a fy sizing ot ime width	
	Lintel Support Right +		5'-4' Lintel S	; ipan	Lintel Su	oport Right				
UKANDELLE C - 119 PINEBUSH RD C AMBRIDGE ON NIR 738 PH. 519-267-6789 PAX. 1-866-388-9659 THFO@WADDELLENC.COM Waddell Engineering (519) 301 1779	B.V B.V B.V B.V B.V B.V B.V B.V B.V B.V	ESSIO WADD 047337 16 2	ELL 2 2024	A LEFR	Drawing Title LINTE ROOF Date: 2021-C Lintel Name:	EL SUPP CALCU 4-16 Sca LINTEL W	ORTING LATIONS ale: N/A /06	Project Tit Matt Project Ac 1072 Waterc Drawing N File No.:	le: Cornelisse dress: center road lown, Ontario	

Load Determination				Wood -	Lu	ımber	Built-u	р			
Lintel Supporting	1 Floor + Roof						Generic	Mate	erial		
Location	Construction		PSF	Specie	s	Grad	e Wic	lth	Depth	# o	f Plies
Floor 1 Dead Load: Typical I	ight Finish Resider	ntial	15	S-P-F		No. 1	1 2	2	4		2
Floor 1 Live Load: Typical I	Residential Floor		40								
Roof Design Snow Load: Hamilton W of J.C	n - Above Escarpme 2. Monro Airport	ent -	25.58		it Le	bs)		L(oad at Riç (L	bs)	
Calculation Results						Live:	87			Live:	87
Factored Load at	Left Beam Support	321	Lbs			Snow:	111			Snow:	111
Factored Load at F	Right Beam Support	321	Lbs		Fac	ctored:	321		Fac	ctored:	321
% Stress	Allowed in Bending	24 9	6 OK	Ma	хM	oment	_ocation:	2.15	' From Let	t Suppo	ort
% Stres	s Allowed in Shear	11%	OK	Design	Su	Imma	ry				
% Allowed I	ive Load Deflection	25%	6 OK				- De	escrir	tion 2-2x	4	
% Allowed To	tal Load Deflection	20%			Mini	mumla	oft Bearin	a L a	noth: 0 17	in R/L	Stud
% Allowed R	rmanent Deflection	16%		N/			ht Dearin		ngth: 0.17	in D/U	Stud
Minimum Longth of Poo	ring for Poom (Loft)	0 17						y Lei			Siuu
Minimum Longth of Roori	a for Poom (Dight)	0.17	7	Qualifias	веа	Mataa			spanja Lo	5	
Minimum Length of Dearing for St	ig ior Bearri (Rigrit)	0.17				NOTES	: n munt be		norted on	the	
Min. Length of Bearing for St		0.00	>	compress	ion	edae at	intervals	not	exceeding	24" O.	C
without treatments and "St wide Engineered Wood Be must be comprised of mult Generic LVL Material has b with a Manufacturer. Any of the supporting men included in this design. The as the beam.							d "Stand od Beam f multiple has been member n. The su	lard 1 s gre men n chc rs for	Term" load ater than nber units osen alway the beam t must be	duration 14" in d - Wher ys verify are no the sar	nicons on - 1.75" lepth e a / sizing t ne width
ENGINEERING LTD. C - 119 PINEBUSH RD	Lintel Support Right	FESS	4'-4" Lintel S	pan	Drawir	Support	SUPPC	DRT	ING	roject Title Matt C roject Add	: cornelisse ress:
CAMBRIDGE ON NIR 738 PH. 519-267-6789 PAX. 1-866-388-9659 INFOWMODELENG.COM Waddell Engineering (519) 301 1779	Apri	WAD 00473 11 16 CE 0	DDELL 372 2021	MEER O	Date: :	2021-04-10 Name:	3 Scale	e: N/A 04		1072 c Waterdo rawing No ile No.:	enter road wn, Ontario .: 6

Load Determination	ermination Wood - Lumber Built-up									
Lintel Su	pporting 1 Floor + Roof						Generic	Material		
Location	Construction		PSF	Species Grade Width Depth # o					of Plies	
Floor 1 Dead Load:	Typical Light Finish Resider	ntial	15	S-P-F	-	No. 1	1 2	2	4	2
Floor 1 Live Load:	Typical Residential Floor		40	Lood of Loff Supports Lood of Dight Supp						innorte
Roof Design Snow Load:	Hamilton - Above Escarpme W of J.C. Monro Airport	ent -	25.58	(Lbs) (Lbs) (Lbs)						
Coloulation Booult	_				L	Live:	67		Live	e: 67
	5				Sr	now:	86		Snov	/: 86
Factored	I Load at Left Beam Support	247 L	_bs		Facto	ored:	247		Factored	1: 247
Factored I	Load at Right Beam Support	247 L	bs	М	ax Mon	nent l	Location:	1.65' Fro	m Left Sup	port
, ,	% Stress Allowed in Bending	14 %	OK	Dosigr		nma	r\/			
	% Stress Allowed in Shear	8%	OK	Desigi	i Sull	IIIIa				
% A	NIOWED LIVE Load Deflection	12%	OK				De	escription:	2-2x4	
% A	llowed Total Load Deflection	10%	OK	Minimum Left Bearing Length: 0.13 in E						U Stud
% Al	iowed Permanent Deflection	1%	OK	Minimum Right Bearing Length: 0.13 in					0.13 in B/	U Stud
Minimum Lengt	n of Bearing for Beam (Left)	0.13		Beam Weight Based on Span 7 Lbs						
Minimum Length	or Bearing for Beam (Right)	0.13		Qualification Notes:						
Min. Length of Bear	ing for Support Member (Lft)	0.06		Compression edge at intervals not exceeding 24).C
		Generic I with a Ma Any of th included as the be	LVL Ma anufact e supp in this eam.	aterial turer. oorting desig	member member n. The su	n chosen rs for the l upport mu	always ver beam are r st be the s	ify sizing not ame width		
	Lintel Support Righ	t -►-	 Lintel S	Lir Bpan	ntel Sup	oport F	Right			
URADICELLE EVALUATION C - 119 PINEBUSH RD CAMBRIDGE ON NIR 738 PH 519-267-6789 FAX-0-368-9659 INFO@WADDELLENG.COM Waddell Engineering (519) 301 1779	B.W 90 April	ADDE 473372 16 2		R.	Drawing ⁻ LIN ⁻ ROC Date: 202 Lintel Nar	Title: TEL DF C 21-04-10 me: LI	SUPPC ALCUL ⁵ Scale NTEL DC	DRTING ATIONS e: N/A D1	Project T Mar Project A 1072 Water Drawing File No.:	tte: t Cornelisse 2 center road down, Ontario No.: 7

Load Determinatio	n		Wood - LVL Built-up								
Lintel Su	pporting 1 Floor + Roof					LP So	olidSta	art			
Location	Construction	P	PSF	Species	Gra	de Wi	dth	Depth	# c	of Plies	
Floor 1 Dead Load:	Typical Light Finish Resider	ntial	15	2.0 E	545	52 1.	75	11.25		2	
Floor 1 Live Load:	Typical Residential Floor		40		off 6	nnorto		ad at Dia	ht C	nnorto	
Roof Design Snow Load:	Hamilton - Above Escarpme W of J.C. Monro Airport	ent - 2	5.58		Left Su (Lbs)		Load at Right Supports (Lbs)				
Calculation Result	\$				Live:	3053		L	_ive:	3053	
Factored	I Load at Left Beam Support	8350 L	bs		Snow:	2088		Sr	now:	2088	
Factored I	_oad at Right Beam Support	8350 L	bs	Fac	tored:	8350		Facto	ored:	8350	
0	6 Stress Allowed in Bending	71 %	OK	Max I	Nomen	t Location	: 5.12'	From Left	t Supp	ort	
	% Stress Allowed in Shear	54%	OK	Design S	umma	ary					
% A	Noved Live Load Deflection	70%	OK				2-Pl	v 1.75x11.	25 LV	Ľ	
% A	llowed Total Load Deflection	54%	OK		Ľ	Description	^{1:} 2-JA	CKS			
% AI	lowed Permanent Deflection	38%	OK	Minimum Le	ft Beari	ing Length	: 2.18	in B/U Stu	ud 2-J	ACKS	
Minimum Lengt	h of Bearing for Beam (Left)	2.18		Minim	ium Rig	ght Bearing Length	g 2.18	in B/U Stu	ud 2-J	ACKS	
Minimum Length	of Bearing for Beam (Right)	2.18		Beam Weig	ht Base	ed on Spai	n 117	Lbs			
Min. Length of Bear	ing for Support Member (Lft)	1.79		Qualificatio	n Note	s:	1				
				wide Engine must be com Generic LVL with a Manu Any of the su included in the as the beam	ered W prised Materi facture upportir his des	Yood Beam of multiple al has bee r. ng membe ign. The s	ns grea e mem en cho ers for upport	ater than 1 hber units - sen alway the beam t must be t	4" in - Whe s verif are no the sa	depth re a fy sizing ot me width	
WADDELL	Lintel Support Right +	Li	10'-4 intel S	" "pan	ving Title:	ntel Suppo	rt Righ	It Pro	oject Titl Matt	e: Cornelisse	
VVADDELL ENGINEERING LTD, C - 119 PINEBUSH RD CAMBRIDGE ON NIR 738 PH. 519-267-6789 PAX. 1-366-388-9659 PAX. 1-366-389 PAX. 1	B. C. April	WADDI 9047337	ELL 2	Date	INTE OOF 2021-04 Name: L	L SUPP CALCUI	ORTI _ATIC le: N/A 02		oject Ad 1072 Waterd awing N e No.:	dress: center road own, Ontario o.: 8	

Load Determination	ı		Wood - LVL Built-up						
Lintel Sup	porting 1 Floor + Roof				LP So	lidSta	art		
Location	Construction	PSF	Species	Grade	e Wio	dth	Depth	# c	of Plies
Floor 1 Dead Load:	Typical Light Finish Residential	15	2.0 E	5452	1.7	75	11.25		2
Floor 1 Live Load:	Typical Residential Floor	40		oft Cum	o rto		and at Dia	h4 C	nnorto
Roof Design Snow Load:	Hamilton - Above Escarpment -	25.58	Load at L	.eπ Supp Lbs)	oorts	L	Dad at Rig (Li	nt Su bs)	pports
	W of J.C. Monro Airport			, Dead:	2182			, ead:	2182
Calculation Results				Live:	3053		l	_ive:	3053
Fostored	l and at L off Doom Support 926		5	Snow:	2088		Sr	now:	2088
Factored L	and at Pight Beam Support 836	50 Lbs	Fact	tored:	8350		Facto	ored:	8350
	Stress Allowed in Bending 71		Max N	/loment L	ocation:	5.12	' From Lef	t Supp	ort
/(% Stress Allowed in Shear 549	% OK	Design S	ummar	'v				
% A	llowed Live Load Deflection 709		J		,	2-P	v 1 75x11	2511	1
%AI	lowed Total Load Deflection 54	% OK		De	scription	2-J	ACKS	20 20	-
% All	owed Permanent Deflection 389	% OK	Minimum Lef	ft Bearing	g Length	: 2.18	3 in B/U St	ud 2-J	ACKS
Minimum Lengtl	n of Bearing for Beam (Left) 2.1	8	Minim	um Righ	t Bearing	1 2 18	R in B/LLSt	ud 2-	
Minimum Length	of Bearing for Beam (Right) 2.1	8			Length	:			AORO
Min. Length of Bearin	ng for Support Member (Lft) 1.7	9	Beam Weigh	nt Based	on Spar	n 117	Lbs		
			compression Beams must Design of wo without treatr wide Enginee must be com Generic LVL with a Manuf Any of the su included in th as the beam.	edge at be latera bod beam ments an ered Woo prised of Material facturer. upporting	intervals ally supp is is base of "Stand of Beam f multiple has bee membe n. The su	s orted orted ed or lard 1 s gre men n chc rs for uppor	the beam t must be t	24" O earing e con durati 4" in - Whe s verification are not the sa	.C points - ditions on - 1.75 depth re a fy sizing ot me width
L WADDELLS FAX.1-366-380-9659 INFOGWADDELLENG.COM MIR.738 Physical State Postson INFOGWADDELLENG.COM Waddell Engineering (519) 301 1779	intel Support Right -	10'-4 Lintel S	;" ipan Craw L R Date:	ing Title: INTEL OOF C.	el Suppor SUPP(ALCUL	T Righ	nt ING ONS	oject Titl Matt oject Ad 1072 Waterd awing N	e: Cornelisse dress: center road own, Ontario o.:

Load Determination	n		Wood - LVL Built-up							
Lintel Su	pporting 1 Floor + Roof					LP So	olidStar	t		
Location	Construction	F	PSF	Species	Gra	de Wi	dth	Depth	# c	of Plies
Floor 1 Dead Load:	Typical Light Finish Resider	ntial	15	2.0 E	54	52 1.	75	11.25		2
Floor 1 Live Load:	Typical Residential Floor		40		oft Su	nnorte		nd at Pial	ht Qu	nnorte
Roof Design Snow Load:	Hamilton - Above Escarpme W of J.C. Monro Airport	ent - 2	5.58		bs)					
Calculation Results	5				Live:	3053		L	ive:	3053
Factored	Load at Left Beam Support	8350	Lbs		Snow:	2088		Sn	now:	2088
Factored I	oad at Right Beam Support	8350	Lbs	Fac	tored:	8350		Facto	red:	8350
0	6 Stress Allowed in Bending	71 %	OK	Max I	Nomen	t Location:	5.12' F	From Left	Supp	ort
· · · · · · · · · · · · · · · · · · ·	% Stress Allowed in Shear	54%	OK	Design S	umm	ary				
% A	llowed Live Load Deflection	70%	OK				2-Plv	1 75x11	25 I V	<u>′</u>
% A	llowed Total Load Deflection	54%	OK		C	Description	2-JAC	CKS		-
% AI	lowed Permanent Deflection	38%	OK	Minimum Le	ft Bear	ing Length	: 2.18 i	in B/U Stu	ud 2-J	IACKS
Minimum Lengt	h of Bearing for Beam (Left)	2.18		Minim	ium Rię	ght Bearing Length	2.18 i	in B/U Stu	ud 2-J	IACKS
Minimum Length	of Bearing for Beam (Right)	2.18		Beam Weig	ht Base	ed on Spar	า 117 L	.bs		
Min. Length of Bear	ng for Support Member (Lft)	1.79		Qualificatio	n Note	s:				
		wide Engine must be com Generic LVL with a Manu Any of the su included in the as the beam	ered W prised Materi facture upportin his des	/ood Beam of multiple al has bee r. ng membe ign. The s	ns great e memb en chose rs for th upport r	ter than 1 ber units - en always ne beam a must be t	4" in Whe s verif are no he sa	depth re a fy sizing ot me width		
	Lintel Support Right -	L	10'-4 intel S	" pan		intel Suppo	rt Right			
WADDELL ENGINEERING LTD, C-119 PINEBUSH RD CAMBRIDGE ON NIR 738 PR: 519-627-56789 FAX: 1-3667-3589-9659 FAX: 1-3677-359 FAX: 1-36777-359 FAX: 1-36777-359 FAX: 1-36777-35977-359777-3597777777	B.V B.V B.V B.V	ESSIO, Wa VADDE 473372 16 20 E OF 0		Drav L Date	Ving Title: INTE OOF 2021-04 21 Name: 1	L SUPP(CALCUL -16 Sca -INTEL D	ORTIN ATIO Ie: N/A	NG NS Dra File	oject Titl Matt oject Add 1072 - Waterd awing No e No.:	e: Cornelisse dress: center road own, Ontario o.: 10

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information		
Building number, street name 1072 center road	Unit no.	Lot/con
Municipality Hamilton, City of, Ontario	Postal code	Plan number / other description
B. Individual who reviews and takes responsibility	ty for design	n activities
Name	Firm	
Doug MacDonald	N	AcDonald Design & Management
36 Melrose Place	Lot/con	Plan number / other description
Municipality Guelph	Postal code N1K 1W4	Province Email Ontario doug@macdonalddesign.ca
C. Design activities undertaken by individual identified	n Section B. [Building Code Table 3.5.2.1. of Division C]
✓ House HVAC - House ✓ Small Buildings Building Service □ Large Buildings Detection, Light □ Complex Buildings Fire Protection	es nting and Powe	✓ Building Structural Plumbing - House Plumbing - All Buildings On-site Sewage Systems
Description of designer's work New Detached Wo	ood Frame Ga	rage
D. Declaration of Designer		
I, Doug MacDonald, C.E.T., M.A.A.T.O., OAAAS declare tha √ I reviewed and take responsibility for the design work on C of the Building Code. I am qualified, and the firm is registe Individual BCIN: 25628 Firm BCIN: 31087 I reviewed and take responsibility for the design and am under subsection 3.2.5.of Division C, of the Building Code. Individual BCIN: Firm BCIN: The design work is exempt from the registration and qua exemption from registration and qualification:	t (choose one as behalf of a firm red, in the app qualified in the	appropriate): n registered under subsection 3.2.4 of Division ropriate classes/categories. appropriate category as an "other designer" ements of the Building Code. Basis for
Firm BCIN: I certify that: 1. The information contained in this schedule is true to the best of 2. I have submitted this application with the knowledge and conse	my knowledge. nt of the firm.	
April 16, 2021		Mary
Date		Signature
NOTE:		

^{1.} For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and of all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.

^{2.} Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario. Application for a Permit to Construct or Demolish - Effective January 1, 2014

Committee of Adjustment City Hall, 5th Floor, 71 Main St. W., Hamilton, ON L8P4Y5

Phone: (905) 546-2424 ext. 4221 Email: <u>cofa@hamilton.ca</u>

APPLICATION FOR A MINOR VARIANCE

APPLICATION NO. DATE APPLICATION RECEIVED PAID DATE APPLICATION DEEMED COMPLETE	FOR OFFICE USE ONLY.	
PAID DATE APPLICATION DEEMED COMPLETE	APPLICATION NO.	DATE APPLICATION RECEIVED
	PAID	DATE APPLICATION DEEMED COMPLETE
SECRETARY'S SIGNATURE	SECRETARY'S SIGNATURE	

The Planning Act

Application for Minor Variance or for Permission

The undersigned hereby applies to the Committee of Adjustment for the City of Hamilton under Section 45 of the *Planning Act*, R.S.O. 1990, Chapter P.13 for relief, as described in this application, from the Zoning By-law.

1, 2	MAILING ADDRESS	
Registered Owners(s)		
Applicant(s)*		
Agent or Solicitor		Phone:
		E-mail:

Note: Unless otherwise requested all communications will be sent to the agent, if any.

3. Names and addresses of any mortgagees, holders of charges or other encumbrances:

Additional sheets can be submitted if there is not sufficient room to answer the following questions. Additional sheets must be clearly labelled

4. Nature and extent of relief applied for:

Secondary Dwelling Unit Reconstruction of Existing Dwelling

5. Why it is not possible to comply with the provisions of the By-law?

6. Legal description and Address of subject lands (registered plan number and lot number or other legal description and where applicable, **street and street number**):

7. PREVIOUS USE OF PROPERTY

	Residential	Indu	strial	Commercial
	Agricultural	Vaca	ant	Other
	Other			
8.1	If Industrial or Co	ommercial, spec	ify use	
8.2	Has the grading of the subject land been changed by adding earth or other material, i.e has filling occurred?			
	Yes	No	Unknown	
8.3	Has a gas statior	ו been located c	on the subject land o	r adjacent lands at any time?
	Yes	No	Unknown	
8.4	Has there been p	petroleum or oth	er fuel stored on the	subject land or adjacent lands?
	Yes	No	Unknown	
8.5	Are there or have there ever been underground storage tanks or buried waste c subject land or adjacent lands?		ige tanks or buried waste on the	
	Yes	No _•	Unknown	
8.6 Have the lands or adjacent lands e cyanide products may have applied to the lands?		s ever been used as ve been used as pes	an agricultural operation where sticides and/or sewage sludge was	
	Yes	No _ <u>∽</u>	Unknown	
8.7	Have the lands o	or adjacent lands	s ever been used as	a weapon firing range?
	Yes	No _•	Unknown	
8.8	ls the nearest bo of an operational	undary line of th /non-operationa	ne application within a landfill or dump?	500 metres (1,640 feet) of the fill area
	Yes	No	Unknown	
8.9	If there are existi remaining on site	ng or previously which are pote	r existing buildings, a ntially hazardous to	re there any building materials public health (eg. asbestos, PCB's)?
	Yes	No	Unknown	

8.10	Is there any reason to believe the subject land may have been contaminated by former uses on the site or adjacent sites?		
	Yes No _ Unkno	own	
8.11	What information did you use to determin	ne the answers to 8.1 to 8.10 above?	
8.12	If previous use of property is industrial or previous use inventory showing all forme land adjacent to the subject land, is need	commercial or if YES to any of 8.2 to 8.10, a er uses of the subject land, or if appropriate, the ded.	
	Is the previous use inventory attached?	Yes No	
9.	ACKNOWLEDGEMENT CLAUSE I acknowledge that the City of Hamilton i remediation of contamination on the prop reason of its approval to this Application.	s not responsible for the identification and perty which is the subject of this Application – by MMMM of the part of Buy Set	
	Date	Signature Property Owner(s)	
		Matt Cornelisse, Natasha Sproule-Cornelisse, Barry Sproule, April Sproule Print Name of Owner(s)	
10.	Dimensions of lands affected:		
	Frontage		
	Depth		
	Area		
	Width of street		
11.	Particulars of all buildings and structures ground floor area, gross floor area, num Existing:_	on or proposed for the subject lands: (Specify nber of stories, width, length, height, etc.)	
	Proposed		

12. Location of all buildings and structures on or proposed for the subject lands; (Specify distance from side, rear and front lot lines) Existing:

Proposed:

13.	Date of acquisition of subject lat August 25th 2016	nds:	
14.	Date of construction of all buildings and structures on subject lands: 1966		
15.	Existing uses of the subject pro	perty (single family, duplex, retail, factory etc.):	
16.	Existing uses of abutting properties (single family, duplex, retail, factory etc.):		
17.	Length of time the existing uses of the subject property have continued:		
18.	Municipal services available: (c Water Sanitary Sewer	heck the appropriate space or spaces) Connected Connected	
	Storm Sewers		
19.	Present Official Plan/Secondary	Plan provisions applying to the land:	
20.	Present Restricted Area By-law (Zoning By-law) provisions applying to the land:		
21.	Has the owner previously applie Yes If the answer is yes, describe br	ed for relief in respect of the subject property? No iefly.	
22.	Is the subject property the subje	ect of a current application for consent under Section 53 of	
		••	

Yes

No

23. Additional Information

the *Planning Act*?

24. The applicant shall attach to each copy of this application a plan showing the dimensions of the subject lands and of all abutting lands and showing the location, size and type of all buildings and structures on the subject and abutting lands, and where required by the Committee of Adjustment such plan shall be signed by an Ontario Land Surveyor.

Planning & Watershed Management

905.336.1158 | Fax: 905.336.6684 2596 Britannia Road West Burlington, Ontario L7P 0G3 conservationhalton.ca

Letter of Permission in accordance with Ontario Regulation 162/06

April 28, 2021

Matt Cornelisse 1072 Centre Road PO Box 196 Waterdown, Ontario L0R 2H0

BY EMAIL (motograter@gmail.com)

To Matt Cornelisse:

Re: Driveway extension within the 15m regulatory allowance from Grindstone Creek and construction of a detached garage between 30 metres and 120 meters of a Provincially Significant Wetland 1072 Centre Road City of Hamilton Conservation Halton File: A/21/H/15

The approved development includes a driveway extension within the 15m allowance from the floodplain of Grindstone Creek, and construction of a ±30ft x 50ft detached garage within 30 - 120 metres of a Provincially Significant Wetland

Ontario Regulation 162/06

Conservation Halton (CH) regulates all watercourses, valleylands, wetlands, Lake Ontario and Hamilton Harbour shoreline and hazardous lands, as well as lands adjacent to these features. The subject property, 1072 Centre Road, is adjacent to lands traversed by a tributary of Grindstone Creek and contains the flooding hazard associated with that watercourse. Additionally, the property contains Provincially Significant Wetland (PSW). CH regulates those hazards/features, plus 15m from the flooding hazard and up to 120m from the limit of a PSW for this particular site. Permission is required from CH prior to undertaking any development within CH's regulated area and must meet CH's *Policies and Guidelines for the Administration of Ontario Regulation 162/06*.

Based on our Approximate Regulation Limit (ARL) mapping, the development will be located outside of the floodplain and PSW; Minor grading works associated with the driveway extension are to occur within the 15m regulatory allowance from the floodplain and the proposed garage is located within the 120m limit from the wetland, maintaining the 30m minimum setback required as per Policy. Therefore, staff is of the opinion that the proposed development meets Policy 2.25.2.3 and 2.39.4 within CH's *Policies and Guidelines for the Administration of Ontario Regulation 162/06* most recently revised November 26, 2020 for development within 30-120m from the wetland. While not required for this application, accurate delineation of the regulated hazards/features may be required at the time of future development.

This Letter of Permission represents Conservation Halton's consent to undertake the works as shown on the attached drawing, stamped approved April 28, 2021 subject to the following site-specific conditions:

- a. That disturbed areas be stabilized immediately following the completion of construction to the satisfaction of CH.
- b. That CH be contacted immediately should any changes to the scope of works or details as identified on the stamped approved drawings be proposed. Note: Further review or additional information may be required to support changes.
- c. That effective sediment and erosion control measures be installed prior to starting work, maintained during construction and fully removed once all disturbed areas have been stabilized. That site conditions be monitored and that the sediment and erosion control measures be modified if site conditions warrant it.
- d. That excess fill (soil or otherwise) generated from the proposed works shall not be stockpiled or disposed of within any area regulated by CH, pursuant to Ontario Regulation 162/06.

Please be sure that you read and understand the condition listed above. Please also note that contravention of a Letter of Permission, or the terms and conditions of a Letter of Permission, is considered an offence under Section 28(16) of the *Conservation Authorities Act*. It is your responsibility to ensure that any person working under the authority of this Permit is familiar, and complies with, the terms and conditions.

This Letter of Permission or a copy thereof as well as all approved drawings must be available at the site. Any changes to the approved design or installation methods must be reviewed and approved by Conservation Halton staff prior to their implementation. This letter of permission is valid for two years from the date of issue.

Please be advised that should you have any objection to any of the conditions of the Letter of Permission, you are entitled to request a hearing before the Authority, in accordance with Section 28(12) of the Conservation Authorities Act. Staff must receive a written notice of your request for a hearing within 30 days of the date of this letter. Please note that if a hearing has been requested, this Letter of Permission is withdrawn until such time as the hearing results have been finalized and commencement of any site alteration must not occur until the results of the Hearing are determined.

We trust the above is of assistance in this matter. Should you require further information, please contact Cassandra Connolly, Regulations Officer, at <u>cconnolly@hrca.on.ca</u>.

Sincerely,

Killi M' Cormade

Kellie McCormack, MA, MCIP, RPP Associate Director, Planning and Regulations

Encl. 1

Cc: Building Department, City of Hamilton (Letter and Drawing By Email: building@hamilton.ca)

Memorandum

Planning and Economic Development Department

То:	George Wong Acting Manager, Building Engineering and Zoning
From:	Cathy Plosz, Natural Heritage Planner (ext. 1231) Development Planning, Heritage and Design
	Melissa Kiddie, Natural Heritage Planner (ext. 1290) Development Planning, Heritage and Design
Date:	May 3, 2021
Subject:	Exemption from Site Plan Control By-law No. 15-176 for 1072 Centre Road, Flamborough for Development within or adjacent to Core Areas

In accordance with Section 9.1 of Site Plan Control By-law No. 15-176, Site Plan Control shall apply to "any buildings or structures, including accessory buildings and structures, decks and additions to existing buildings, situated Adjacent to or within a Core Area (s), except for single detached, duplex, semi-detached or street townhouse dwellings located within a plan of subdivision or plan of condominium draft approved after January 1, 2013".

Proposed Development (Please briefly describe proposed development and attach concept plan/map):

Driveway extension and detached garage.

Core Areas include:

Significant Woodland, Environmentally Significant Area, Provincially Significant Wetland.

Based on a review of the proposed development, the following is applicable:

- Proposed development is located within the footprint of an existing structure.
- Proposed development is located within a disturbed area (i.e. manicured area).
- Proposed development is located at least 30 metres away from the Core Areas.
- Correspondence has been provided by the relevant Conservation Authority (attached).

Therefore, Site Plan Control for the above property is waived.

Notes:

This memo does not exempt the proposal from the requirements of a building permit, nor does it exempt the proposal from the requirements of the Zoning By-law or any further regulations. Please be advised that should the application change, the Planning Division has the right to review the revised submission.

If you have any questions, please contact Catherine Plosz by e-mail at Catherine.Plosz@hamilton.ca.