NOTES: GENERAL

- 1. DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- 2. BUILDER TO VERIFY ALL DIMENSIONS AND BUILD TO SUIT.
- SOIL BENEATH AND WITHIN 2m RADIUS OF ANY FUTURE FENCE POST SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO CONSTRUCTION.
- 4. POSTS SHALL BE PLUMB WITHIN 5mm/m ABOVE GRADE.
- TONGUE AND GROOVE FENCE BOARDS, AND ALL OTHER MEMBERS, SHALL BE FIT TIGHT TO ELIMINATE ALL GAPS AND RATTLING.
- CONTRACTOR TO COMPLETE ONE MOCK-UP PANEL PRIOR TO PROCEEDING WITH REMAINDER OF FENCE.
- 7. DO NOT SCALE DRAWINGS.
- 8. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTERS AS THOSE NOTED FOR SIMILAR CONDITIONS.
- 9. STRUCTURAL DESIGN IS BASED ON THE 2006 ONTARIO BUILDING CODE.

DESIGN INFORMATION

- 1. HOURLY WIND PRESSURES: \(\frac{1}{50}\) YEAR: 0.53 kPa (VAUGHN, ON).
- 2. IMPORTANCE FACTOR: NORMAL.
- 3. THE DESIGN LOADS INDICATED ARE UNFACTORED.

STEEL POST

- 1. POST SHALL CONFORM TO CSA G40.21 350W (Fy=350 MpA)
- 2. POST TO BE HOT-DIP GALVANIZED HSS 152X102X6.4

REINFORCING STEEL

- REINFORCING STEEL SHALL CONFORM TO CSA G30.18-09 GRADE 400W UNLESS OTHERWISE SPECIFIED.
- 2. INSIDE DIAMETER OF BENDS TO BE A MINIMUM OF 6 BAR DIAMETERS.

CONCRETE

- 1. CONCRETE STRENGTH f'c = 25 MPa MINIMUM.
- 2. EXPOSURE CLASS F-2 (CSA A23.1/A23.2).
- 3. AIR CONTENT TO CONFORM TO TABLE 4 OF CSA A23.1/A23.2
- 5-8% FOR MAX. 10mm NOMINAL AGGREGATE SIZE
- 4-7% FOR 14-20mm NOMINAL AGGREGATE
- MAXIMUM WATER TO CEMENT RATIO TO BE 0.55 IN ACCORDANCE WITH TABLE 2 (CSA A23.1/A23.2).
- CURING TYPE 1 AS PER TABLE 20 (CSA A23.1/A23.2) 3 DAYS @ ≥ 10°C OR FOR THE TIME NECESSARY TO OBTAIN 40% OF SPECIFIED STRENGTH.
- CURE CONCRETE TO THE REQUIREMENTS OF OPSS 904 AND AS A MINIMUM REQUIRES WET BURLAP AND MOISTURE VAPOUR BARRIER FILM AS PER OPSS 904.07.03.12.
- TOP SURFACE OF CONCRETE TO BE SLOPED AWAY FROM POST A MINIMUM OF 50mm FROM POST TO EDGE OF FOUNDATION AT GRADE.
- MINIMUM CLEAR COVER TO REINFORCING SHALL BE: a) 75mm ±10mm WHEN CAST DIRECTLY AGAINST AND PERMANENTLY EXPOSED TO EARTH b) 50mm ±10mm FOR ALL CONCRETE CAST IN FORM EXPOSED TO FREEZING AND THAWING.

WOOD AND FASTENERS

- ALL TIMBER AND LUMBER SHALL NE No. 1 OR 2 GRADE WESTERN RED CEDAR UNLESS NOTED
 OTHERWISE, SELECTED FOR GOOD APPEARANCE AND FREE OF WANE AND BARK POCKETS.
- 2. THE SKIRT RAIL TO BE PRESSURE TREATED No. 1 OR 2 SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE. CUT EDGES TO BE TREATED WITH APPROVED PRESERVATIVES.
- 3. TIMBER WITH HEAVY KNOTS AND/OR SAP STAIN SHALL BE DISTRIBUTED THROUGHOUT THE INSTALLATION.
- 4. THE DESIGN OF THE BEAMS, COLUMNS AND LINTELS IS BASED ON THE LIMIT STATES DESIGN SPECIFIED UNDER CSA STANDARD 086. ANY SUBSTITUTIONS OF SPECIES, GRADE OR GROUP MUST BE APPROVED BY THE ENGINEER PRIOR TO COMMENCING WORK.
- 5. THE LUMBER WAS DESIGNED FOR A MOISTURECONTENT GREATER THAN 15% AT THE TIME OF MANUFACTURE AND LESS THAN 15% IN SERVICE.
- 6. ALL FASTENERS TO BE GALVANIZED STEEL OR APPROVED ALTERNATIVE.
- 7. DURING CONSTRUCTION, ENSURE ALL MEMBERS ARE IN GOOD BEARING CONTACT.
- 8. ENSURE ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD ARE COMPATIBLE WITH PRESSURE TREATING CHEMICALS.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED, OR SEPARATED WITH A FOAM SILL GASKET OR POLYSHEET.
- 10. A CLEAR UV PROTECTING STAIN (APPROVED BY THE TOWN), WILL BE REQUIRED AFTER INSTALLATION OF WOOD FENCE MEMBERS.
- 11. WHERE FASTENERS ARE SPECIFIED, THEY SHALL MEET THE FOLLOWING STANDARDS:
- a. COMMON NAILS: CSA STANDARD B11 WIRE NAILS, SPIKES AND STAPLES
- b. COMMON SPIRAL (ARDOX) NAILS: CSA STANDARD B11 WIRE NAILS, SPIKES AND STAPLES
- c. WOOD SCREWS: ASME B18.6.1 WOOD SCREWS
- d. BOLTS: ASTM STANDARD A307 OR SAE J429 GRADE 2
- e. LAG SCREWS: CSA STANDARD B34 MISCELLANEOUS BOLTS AND SCREWS.

APPROVED HARDWARE

- SCREWS: SIMPSON STRONG-TIE COLLATED METAL SCREWS FOR WOOD TO STEEL APPLICATIONS
 (SEE SIMPSON STRONG-TIE CATALOGUE C-F-2017, PAGE 274 AND 365 FOR DETAILS) OR
 APPROVED EQUIVALENT.
- BRACKETS: SIMPSON STRONG TIE FENCE RAIL BRACKETS (SEE SIMPSON STRONG-TIE CATALOGUE C-C-2017, PAGE 350 FOR DETAILS) OR APPROVED EQUIVALENT.

NOMENCLATURE:

@ A1

c/c CENTRE TO CENTRE

m METRE

m3 SQUARE METRES

mm MILLIMETRES

EX. EXISTING

MIN MINIMUM

MAX MAXIMUM

OBC ONTARIO BUILDING CODE (2006)

TYP. TYPICAL

Ø DIAMETER

SST SIMPSON STRONG-TIE

TOWN OF CALEDON					APR'D:	R.G.	DATE: JULY 17
ACOUSTIC FENCE DETAIL							scale: N.T.S.
					DRAWN:	D.IVI.	SCALE. IV.I.J.
	NO.	REVISION	APR'D	DATE	STANDARD No. 614		