

**GENERAL NOTES:**

- ALL WORK & MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA, 2010.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT OF PRINCE EDWARD ISLAND AND THE CANADA LABOUR CODE.
- NO ALTERATIONS TO STRUCTURAL DETAILS SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENTAL REPRESENTATIVE. ALL OPENINGS IN SLABS OR WALLS ARE TO BE PRE-FORMED & ALL HOLES SLEEVED. CONSTRUCTION ERRORS ARE TO BE DOCUMENTED & REPORTED TO THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH SUBSEQUENT WORK.
- PERIODIC & DISCRETIONARY SITE OBSERVATIONS ARE MADE AT THE JOB SITE BY THE DEPARTMENTAL REPRESENTATIVE & ARE NECESSARILY LIMITED IN SCOPE TO OBSERVATION OF WORK IN PROGRESS AT THE TIME OF THE SITE OBSERVATION. THESE SITE OBSERVATIONS DO NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE CONTINUOUS ON-SITE SUPERVISION OF ALL STRUCTURAL WORK TO ENSURE THAT BOTH THE INTENT & DETAILS OF THE DRAWINGS & SPECIFICATIONS ARE BEING FOLLOWED.
- THE CONTRACTOR SHALL COORDINATE DETAILS SHOWN ON THE STRUCTURAL DRAWINGS WITH ALL OTHER DISCIPLINES DRAWINGS & SPECIFICATIONS.
- ALL STANDARDS & SPECIFICATIONS NOTED SHALL REFLECT "LATEST EDITION".
- REFER TO ARCHITECTURAL DRAWINGS FOR THE SIZES & LOCATIONS OF ALL EXTERIOR & INTERIOR DOOR & WINDOW OPENINGS THROUGH ALL WALLS.

**FOUNDATIONS:**

- FOUNDATIONS ARE DESIGNED TO BEAR ON UNDISTURBED NATIVE MATERIAL OR FULLY COMPACTED ENGINEERED FILL WITH A FACTORED GEOTECHNICAL BEARING RESISTANCE AT ULTIMATE LIMIT STATES (ULS) OF 200 kPa AND A MINIMUM GEOTECHNICAL BEARING RESISTANCE AT SERVICEABILITY LIMIT STATES (SLS) OF 150 kPa AS PER FUNDTY ENGINEERING REPORT DATED FEBRUARY 2012, PROJECT #12284.
- ALL ENGINEERED (STRUCTURAL) FILL & BACKFILLING IS TO BE PLACED UNDER THE CONTINUOUS SUPERVISION OF THE DEPARTMENTAL REPRESENTATIVE GEOTECHNICAL ENGINEER.
- THE DEPARTMENTAL REPRESENTATIVE GEOTECHNICAL ENGINEER SHALL INSPECT ALL PROPOSED BEARING SURFACES & CONFIRM THAT THE GEOTECHNICAL BEARING RESISTANCE STATED IN THE GEOTECHNICAL REPORT, CAN BE ACHIEVED PRIOR TO PLACEMENT OF ANY CONCRETE IN FOOTINGS, & THAT BEARING SURFACE IS FREE FROM FROST & WATER. IF THE DEPARTMENTAL REPRESENTATIVE GEOTECHNICAL ENGINEER DEEMS BEARING SURFACE CAN NOT PROVIDE THE ALLOWABLE BEARING CAPACITY, THE CONTRACTOR IS TO LOWER FOOTINGS AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE GEOTECHNICAL ENGINEER TO A LEVEL THAT CAN PROVIDE THE ALLOWABLE BEARING CAPACITY.
- BACKFILLING AGAINST WALLS OR GRADE BEAMS SHALL PROCEED IN APPROXIMATELY EQUAL LIFTS ON BOTH SIDES OF THE WALL OR GRADE BEAM, UNLESS NOTED OTHERWISE.
- NO PIPING/DUCTBANKS/CONDUIT ARE TO PASS UNDER ANY LOAD BEARING FOUNDATIONS OR WITHIN THEIR ASSOCIATED ZONE OF INFLUENCE. STEP/LOWER FOUNDATIONS TO ALLOW PIPES/DUCTBANKS/CONDUIT TO BE SLEEVED THROUGH THE FOUNDATION WALL OR PASS OVER TOP OR OUT OF THE ZONE OF INFLUENCE OF THE ISOLATED FOOTING. CONTRACTOR TO COORDINATE WITH MECHANICAL/ELECTRICAL/CIVIL DRAWINGS. THE LAYOUT OF STEPPED/LOWERED FOOTINGS SHOWN ON THE STRUCTURAL DRAWINGS IS SCHEMATIC ONLY, & MAY NOT SHOW ALL LOCATIONS WHERE STEPPED/LOWERED FOOTINGS ARE REQUIRED. CONTRACTOR IS TO COORDINATE ALL STEPPED/LOWERED FOOTING LOCATIONS & DEPTHS WITH ALL SUB-TRADES & SUBMIT ALL PROPOSED FOOTING LOCATIONS & DEPTHS TO ENGINEER PRIOR TO EXCAVATION FOR FOOTINGS, REINFORCING & FORMWORK FABRICATION. REFER TO TYPICAL FOOTING DETAILS.
- PROVIDE SHEAR KEYS IN THE TOP OF ALL CONCRETE WALL FOOTINGS, CENTERED UNDER WALL LOCATIONS.

**REINFORCED CONCRETE:**

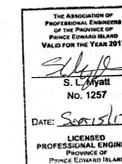
- ALL CONCRETE, CONCRETE MATERIALS, FORMS, WORKING PROCEDURES & THE LIKE SHALL CONFORM TO CSA A23.1, LATEST EDITION, UNLESS NOTED OTHERWISE.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS & CLASS OF EXPOSURE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
  - BUILDING FOUNDATIONS, FROST WALLS ..... 25 MPa/F-2
  - INTERIOR SLABS ON GRADE (NOT POLISHED)..... 25 MPa/N
  - INTERIOR SLABS ON GRADE (POLISHED)..... 35 MPa/N
  - MUD SLABS ..... 20 MPa/N
  - CURBS, EXTERIOR PADS & WALKWAYS ..... 32 MPa/C-2
- CONCRETE PROTECTIVE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
  - CAST AGAINST GROUND - NO FORMWORK ..... 3" (75mm)
  - EXPOSED TO EARTH OR WEATHER ..... 2 3/8" (60mm)
- ALL REINFORCING BARS MUST BE ACCURATELY SUPPORTED ON PLASTIC COATED STEEL HIGH CHAIRS TO MAINTAIN EXACT CONCRETE COVER.
- CONSTRUCTION JOINTS SHALL BE LOCATED SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. LOCATIONS SHALL BE AS SHOWN ON THE DRAWINGS OR CONTRACTOR IS TO SUBMIT PROPOSED CONSTRUCTION JOINTS FOR THE DEPARTMENTAL REPRESENTATIVE'S APPROVAL. CONSTRUCTION JOINTS SHALL BE KEYED & REINFORCEMENT SHALL NOT BE INTERRUPTED.
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD POINT STRENGTH OF 400 MPa & SHALL CONFORM TO CSA G30.18-M, LATEST EDITION.
- ALL W.W.F. SHALL CONFORM TO ASTM A82 & ASTM A185, LATEST EDITIONS.
- UNLESS NOTED OTHERWISE, REINFORCING STEEL SHALL BE PROVIDED WITH A CLASS 'B' TENSION LAP TO CSA A23.3, LATEST EDITION AT ALL SPLICE LOCATIONS.

**TIMBER NOTES:**

- ALL MATERIALS & WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS:
  - CODE FOR ENGINEERING DESIGN IN WOOD CSA 086, LATEST EDITION
  - NATIONAL BUILDING CODE OF CANADA, PART 4
- SHEATHING SHALL BE AS FOLLOWS:
  - ROOF - a. 3/4" (19mm) T & G EXTERIOR GRADE PLYWOOD.  
b. NAIL-LAMINATED TIMBER (NLT) ROOF PANELS - DESIGNED BY NLT DESIGNER TO RESIST GRAVITY, WIND AND SNOW LOADS AS NOTED ON THE DRAWINGS.
  - WALLS - a. 1/2" (13mm) T & G EXTERIOR GRADE PLYWOOD.
- ALL NAILS, SPIKES & STAPLES SHALL BE IN ACCORDANCE NBCC CLAUSE 9.23.3.
- CUTTING OF HOLES OR REMOVAL OF LOAD BEARING FRAMING MEMBERS BY TRADES FOR INSTALLATION OF PLUMBING, DUCTWORK OR WIRING, SHALL NOT BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- ALL POSTS (INCLUDING BLOCKING BETWEEN WALL PLATES AT FLOOR JOIST CAVITY) SHALL BE CONTINUOUS IN END GRAIN BEARING THROUGH ALL REQUIRED LEVELS OF THE FRAMING.
- ALL LOAD BEARING STUD WALLS SHALL BE SOLID BLOCKED AT ALL PLYWOOD EDGES OF THE WALL.
- THE CONTRACTOR SHALL PROVIDE SUCH TEMPORARY BRACING AS IS REQUIRED BY THEIR ERECTION PROCEDURES & THE ARRANGEMENT OF LOAD BEARING UNITS, UNTIL THE ROOF SHEATHING IS INSTALLED.
- ALL EXTERIOR PERIMETER WALLS TO BE 2 x 6 (38 x 140) AT 16" (400mm) c/c, STAGGERED WITH 2 x 4 (38 x 89) AT 400 c/c. ALL WALLS TO HAVE CONTINUOUS 2 x 10 SILL & DOUBLE TOP PLATES.
- STAGGER ALL WALL SHEATHING PANEL JOINTS SO THAT PANELS ARE CONTINUOUS AT DOUBLE TOP PLATES. PANELS SHOULD LAP TOP PLATES A MINIMUM OF 16" (400mm), ABOVE & BELOW. SEE BELOW:



- ALL NON-SHEAR WALL SHEATHING NAILING PATTERN SHALL BE AS FOLLOWS:
  - PROVIDE 3" (75mm) LONG NAILS AT 4" (100mm) c/c ALONG PANEL EDGES & 3" (75mm) LONG NAILS AT 12" (300mm) c/c ALONG INTERMEDIATE FRAMING.
- NLT PANEL, NAILING PATTERN SHALL BE DESIGNED BY THE NLT PANEL DESIGNER.
- PRE-DRILL ALL LAG BOLT HOLES PRIOR TO INSTALLING BOLTS.



revisions	date
5	ISSUED FOR TENDER 09.15 2017
4	RS4 - 100% SUBMISSION 09.01 2017
3	RS4 - 99% SUBMISSION 06.30 2017
2	RS4 - 66% SUBMISSION 05.31 2017
1	RS4 - 33% SUBMISSION 04.30 2017
0	RS3 SUBMISSION 03.31 2017

project **GREEN GABLES-PHASE 2** projet  
**NEW VISITOR CENTRE**  
**QUEENS CO., PEI**

drawing **STRUCTURAL NOTES** dessin

designed SLJM conçu  
date MAR-2017  
drawn JLK dessiné  
date MAR-2017  
approved approuvé  
date  
Tender *Mr. McEneaney* Soumission  
PWGSC Project Manager Administrateur de projets TPSGC  
project number **R.081199.001** no. du projet  
drawing no. **S01 OF 12** no. du dessin