GENERAL NOTES / TYPICAL DETAILS

GENERAL

THE GENERAL NOTES AND TYPICAL DETAILS ARE APPLICABLE TO ALL STRUCTURAL CONDITIONS NOT SPECIFICALLY DETAILED OR REFERENCED ON STRUCTURAL DRAWINGS.

THESE NOTES, DETAILS AND DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS.

THESE DRAWINGS ARE FOR THE USE OF THE CONSULTANT'S CLIENT ONLY. ALL INFORMATION SHOWN APPLIES TO THIS PROJECT ONLY AND REFLECT THE BEST JUDGEMENT OF THE CONSULTANT IN LIGHT OF THE AVAILABLE INFORMATION AT THE TIME OF PREPARATION. DECISIONS OR ACTIONS MADE BY THIRD PARTIES BASED ON THE DRAWINGS ARE THE SOLE RESPONSIBILITY OF SUCH PARTIES.

THESE DRAWINGS ARE THE PROPERTY OF THE CONSULTANT AND MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION.

CODES AND STANDARDS

DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 2010.

DIMENSIONS

CHECK DIMENSIONS ON THESE DRAWINGS AGAINST DIMENSIONS ON ARCHITECTURAL DRAWINGS BEFORE USING THEM FOR FABRICATION OR CONSTRUCTION. REPORT DISCREPANCIES. ARCHITECTURAL DIMENSIONS GOVERN.

DRAWINGS HAVE BEEN DRAWN TO SCALE WHERE POSSIBLE BUT DIMENSIONS SHOULD BE SCALED WITH CAUTION AND AT CONTRACTOR'S RISK.

EXISTING BUILDING LOCATION AND TIE-IN POINTS TO BE CONFIRMED PRIOR TO CONSTRUCTION.

SHOP DRAWINGS AND SUBMITTALS

STRUCTURAL STEEL AND STEEL DECK:

SUBMIT WITH SHOP DRAWINGS: DECKING PLAN, PROFILE, DIMENSIONS, CORE THICKNESS, CONNECTIONS TO SUPPORTS, REQUIRED BEARINGS, CLOSURES AND ACCESSORIES.

SUBMIT FOR REVIEW 1 REPRODUCIBLE OF ERECTION DRAWINGS WITH ALL FIELD WORK DETAILS FOR ALL STRUCTURAL STEEL ELEMENTS. ALL CONNECTIONS SHALL BE DESIGNED AND THE DRAWINGS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.

STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED TO RESIST THE INDICATED FACTORED MEMBER REACTIONS BY A PROFESSIONAL ENGINEER WHO WILL ALSO SEAL AND SIGN THE SHOP DRAWINGS.

WHERE DESIGN REACTIONS ARE NOT INDICATED USE THE MAXIMUM REACTION FOR SPAN FROM CISC BEAM LOAD TABLES.

STEEL STRUCTURES DESIGNED TO RESIST SEISMIC FORCES, STEEL CONNECTIONS SHALL BE DESIGNED TO S16-09, CLAUSE 27.

STRUCTURAL STEEL:

STRUCTURAL STEEL SHALL COMPLY WITH CAN/CSA- S16-09 UNLESS OTHERWISE NOTED.

ITEM	APPLICABLE SPECIFICATION
ROLLED SECTIONS	G40.21 - 350W
HSS (TUBE) SECTIONS	G40.21 - 350W CLASS C (U/N)
BOLTS, NUTS AND WASHERS	TO ASTM A325M-97. BOLTS SHALL BE BEARING TYPE, EXCEPT FOR CONNECTIONS OF MEMBERS NOTED AS CARRYING LOADS WHICH VARY FROM COMPRESSION TO TENSION. FOR COMPRESSION/TENSION LOADS IN MEMBERS, BOLTS IN SHEAR SHALL BE SLIP CRITICAL ASSUMING A LOAD FACTOR OF 1.5 FOR DETERMINING SERVICE LOADS. FOR EXPOSED EXTERIOR STEEL, PROVIDE GALVANIZED BOLTS, NUTS AND WASHERS.

ALL STRUCTURAL STEEL TO BE PRIME PAINTED EXCEPT STEEL RECEIVING GALVANIZING, OR STEEL TO BE CAST-IN CONCRETE.

ALL BEAM CONNECTIONS TO BE TWO-SIDED UNLESS NOTED.

PROVIDE A MINIMUM BEARING OF 100mm FOR STEEL BEARING ON STEEL UNLESS NOTED.

CENTRE ALL BEARING PLATES UNDER BEAMS UNLESS NOTED.

DO NOT CUT OR CORE ANY OPENINGS IN ANY STRUCTURAL STEEL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

WHERE A STRUCTURAL STEEL SHAPE SHOWN ON THE DRAWINGS IS UNAVAILABLE, A SHAPE OF EQUAL OR GREATER SECTION PROPERTIES AND STRUCTURAL CAPACITY SHALL BE SUBSTITUTED, UPON APPROVAL BY DEPARTMENTAL REPRESENTATIVE, AT NO EXTRA COST

STEEL DECK:

SHEET STEEL TO CSSBI-10M, GRADE A STRUCTURAL QUALITY (Fy=230 MPa)

STEEL DECK TO BE 38mm DEEP 0.91mm CORE THICKNESS (20 GAUGE) OR AS OTHERWISE REQUIRED TO SUIT DECK PROFILE, LOADING AND SUPPORT CONDITIONS, U/N.

STEEL DECK TO BE GALVANIZED TO ASTM-A653M, ZF275 (275 g/m²) UNLESS OTHERWISE NOTED

WELD DECK TO SUPPORTING MEMBERS WITH 20mm EFFECTIVE PUDDLE WELDS USING STEEL WASHERS TO PREVENT BURN THROUGH AS NECESSARY. DECK TO BE USED AS A DIAPHRAGM

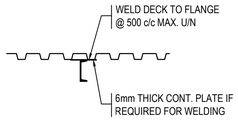
TRANSVERSE WELD SPACING 300mm MIN. U/N
LONGITUDINAL WELD SPACING 600mm MIN. U/N
SIDE LAPS BUTTON PUNCH 600mm MIN. U/N

DO NOT SUPPORT CEILINGS, DUCTS, LIGHTING OR PIPES FROM STEEL ROOF OR FLOOR DECK

PROVIDE CELL CLOSURES AT SUPPORTS U/N

PROVIDE CONCRETE RETAINERS AT SLAB EDGE AND SLAB OPENINGS U/N

DECK SUPPORT DETAIL AT STEEL BEAM PARALLEL OR ANGLED TO DECK
(WHERE TOP OF BEAM LESS THAN 150)



WOOD FRAMING

WOOD FRAMING SHALL COMPLY WITH CSA 086.1 AND PART 9 OF THE ONTARIO BUILDING CODE, UNLESS OTHERWISE NOTED.

MATERIALS:		
ITEM	SPECIES	GRADE
JOIST	SPRUCE-PINE-FIR (S-P-F)	No. 1 AND No. 2 (DRESSED)
BUILT-UP BEAMS	SPRUCE-PINE-FIR (S-P-F)	No. 1 (DRESSED)
	OR DOUGLAS FIR	No. 1 (DRESSED)

LATERAL FORCE DATA

Vp=S(Ta)MvIeW/RdRo

Ta = FUNDAMENTAL LATERAL PERIOD OF VIBRATION (0.19)
S(0.19) = DESIGN SPECTRAL RESPONSE ACCELERATION FOR PERIOD OF STRUCTURE (0.64)
Mv = FACTOR TO ACCOUNT FOR HIGHER MODE EFFECT ON BASE SHEAR (1.0)
Ie = EARTHQUAKE IMPORTANCE FACTOR (1.0)
W = DEAD LOAD OF STRUCTURE (40.0kN)
Rd = DUCTILITY - RELATED FORCE MODIFICATION (1.5)
Ro = OVERSTRENGTH - RELATED FORCE MODIFICATION (1.3)
Vp = 13.13kN

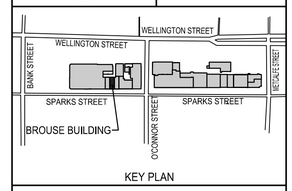
Publics Works and Government Services Canada
Travaux publics et services gouvernementaux Canada

Canada

Adjeleian Allen Rubeli
Consulting Engineers
75 Albert Street, Ottawa, Ontario
4211 Yonge Street, Toronto, Ontario
AAR PROJECT 5372-02

stamp

LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
2014-03-18



KEY PLAN

REV'N		DATE
04	ISSUED FOR TENDER ÉMIS POUR SOUMISSIONS	2014/03/18
03	ISSUED FOR DESIGN REIVEW 100% CD ÉMIS POUR LA REVISION À 100% CD	2013/12/13
02	RE-ISSUED FOR DESIGN REIVEW 99% CD RE-ÉMIS POUR LA REVISION À 99% CD	2013/11/28
01	ISSUED FOR DESIGN REIVEW 99% CD ÉMIS POUR LA REVISION À 99% CD	2013/10/25

project / projet

BASE BUILDING CODE DEFICIENCIES BROUSE BUILDING

183 SPARKS STREET, OTTAWA, ONTARIO

drawing / dessin

GENERAL NOTES & TYPICAL DETAILS

designed / conçu	J.VIENNEAU	
date		(yyyy/mm/dd)
drawn / dessiné	E.PILON	
date		(yyyy/mm/dd)
reviewed / examiné	A.CHEUNG	
date		(yyyy/mm/dd)
approved / approuvé	A. CHEUNG	
date		(yyyy/mm/dd)
Tender / Soumission		
PC Project Manager / Gestionnaire de projets PC		
project number / No. du projet	R.061064.002	
parks canada / parcs canada		
drawing no. / No. du dessin	S100	

PWGSC A1 (841x594)

0 10 20mm 40 60 80 100 120 140 160 180 200mm