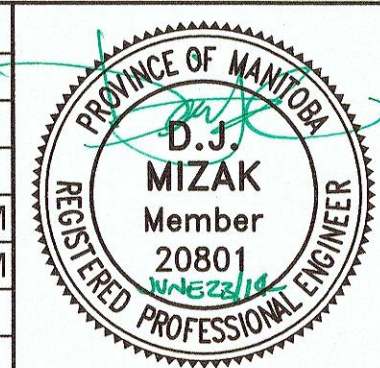


**GENERAL NOTES**

- DESIGN WIND LOAD = 30 PSF
- DO NOT SCALE DRAWINGS.
- ALL DIMENSIONS AND ELEVATIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH MANITOBA WORKPLACE SAFETY AND HEALTH ACT AND REGULATIONS.
- CONCRETE TO BE AS FOLLOWS:
  - PILES: 32 MPA MIN. AT 56 DAYS  
CLASS OF EXPOSURE: S-2  
ENTRAINED AIR/CATEGORY: 2 (4% TO 7%)  
CEMENT TYPE: H5  
AGGREGATE: MAX. 20 MM  
CURING TYPE: TYPE 2 - ADDITIONAL  
SLUMP: MIN. 120 MM
  - PILE CAP: 32 MPA MIN. AT 56 DAYS  
CLASS OF EXPOSURE: C-2  
ENTRAINED AIR/CATEGORY: 2 (5% TO 8%)  
AGGREGATE: MAX. 20 MM  
CURING TYPE: TYPE 2 - ADDITIONAL
- ALL REINFORCING STEEL TO BE CAN/CSA-G30.18M GRADE 400R DEFORMED BARS EXCEPT COLUMN TIES AND BEAM STIRRUPS WHICH SHALL BE GRADE 400W STEEL. ALL REINFORCING IS TO BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA - MANUAL OF STANDARD PRACTICE, EXCEPT OTHERWISE NOTED.
  - PILES/CAP: EXPOSURE CLASS: S-2 75 MM TO TIES.
  - EXTERIOR CAP: EXPOSURE CLASS: C-2 40 MM TOP 40 MM BOTTOM
- CONCRETE CURING TO CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1-09 AS FOLLOWS: TYPE 2 - ADDITIONAL; 7 DAYS > 10°C AND FOR A TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
- THE STRUCTURAL STEEL FABRICATOR'S ENGINEER SHALL BE RESPONSIBLE FOR LOCATING AND DESIGNING PROVISIONS FOR ALL TEMPORARY FALL PROTECTION SYSTEMS REQUIRED DURING CONSTRUCTION TO MEET MANITOBA WORKPLACE HEALTH AND SAFETY REGULATIONS.
- STRUCTURAL STEEL TO CONFORM TO CSA-G40.21, "STRUCTURAL QUALITY STEELS" AND CSA-G40.20 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL".
- ALL ANGLES, CHANNELS AND PLATES SHALL BE G40.21-44W.
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH CAN/CSA S16-09, "STEEL STRUCTURES FOR BUILDINGS".
- ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF CSA W59, "WELDED STEEL CONSTRUCTION". FABRICATORS SHALL BE PROPERLY CERTIFIED IN ACCORDANCE WITH CSA W47.1, "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES".
- ALL STRUCTURAL STEEL & ANCHOR BOLTS TO BE HOT DIPPED GALVANIZED.
- ANCHOR BOLTS TO BE GRADE ASTM A307 PROVIDED BY STEEL SUPPLIER AND SET BY THE CONTRACTOR.
- FABRICATOR TO NOTIFY THE PROJECT DESIGN ENGINEER BY WAY OF THE CONTRACT ADMINISTRATOR OF ANY PROPOSED MEMBER SUBSTITUTIONS AND CHANGED CONNECTION DETAILS.
- THE STRUCTURAL STEEL SUPPLIER SHALL PROVIDE AND BE RESPONSIBLE FOR ALL HOLES IN STEEL SECTIONS REQUIRED BY OTHER TRADES. SECTION SHALL BE STRENGTHENED WHERE REQUIRED TO GUARANTEE THE ORIGINAL STRENGTH OF THE BEAM. ANY CUTTING OF STEEL AT THE JOB SITE SHALL BE DONE ONLY AS DIRECTED AND APPROVED BY THE CONTRACT ADMINISTRATOR ACTING UPON INSTRUCTION OF THE PROJECT DESIGN ENGINEER.
- STRUCTURAL STEEL SUPPLIER IS TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA COVERING THE DESIGN OF CONNECTIONS, TO THE PROJECT DESIGN ENGINEER BY WAY OF THE CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO FABRICATION. CONNECTION DESIGN TO INCLUDE FOR ALL ADJUSTABLE CONNECTIONS REQUIRED TO SUITE FABRICATION AND ERECTION PROCEDURES AND TOLERANCES. STRUCTURAL STEEL WHICH SUPPORTS ARCHITECTURAL FINISHES MUST BE DESIGNED TO BE SUFFICIENTLY ADJUSTABLE TO MEET REQUIRED INSTALLATION TOLERANCES. SEE ARCHITECTURAL.



No.	Date	Issue/Revision	By
3	23/06/14	REVISION TO GENERAL NOTES	DJM
2	18/06/14	REVISION TO GENERAL NOTES	DJM
1	13/06/14	ISSUED FOR TENDER	



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**Crosier Kilgour & Partners Ltd.**  
CONSULTING STRUCTURAL ENGINEERS

The General Contractor shall check & verify all dimensions and report any errors or omissions to the designers.

Project		MILLENNIUM LIBRARY PARK REDEVELOPMENT PHASE 2 ST MARY & SMITH PARK ENTRANCE (BID OPPORTUNITY NO. 586-2014) WINNIPEG, MANITOBA			
Sheet Title		SIGNAGE FRAMING			
Sheet No.		S-1			
Design	Drawn	Checked	Scale	Date	File
ATO	MAH	ATO	AS NOTED	23 JUNE 2014	2014-0342