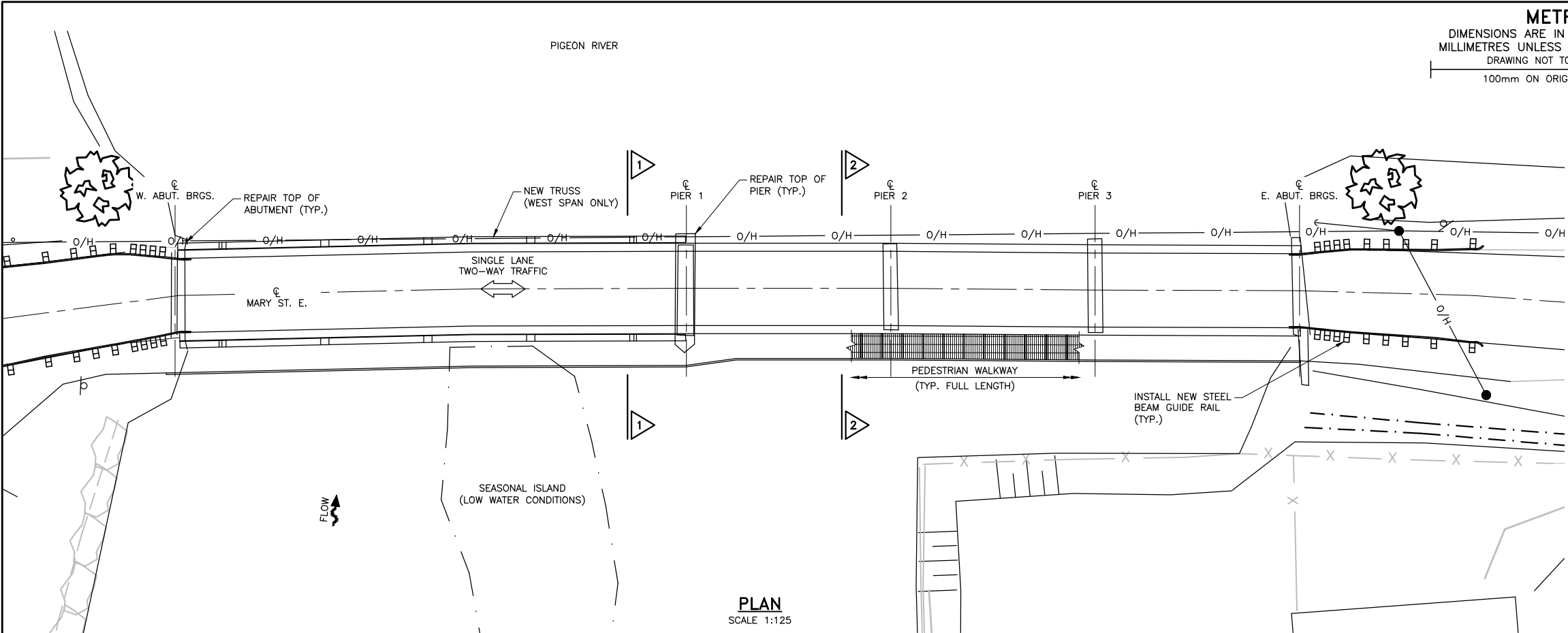


Appendix C

General Arrangement Drawing and Cost Estimate



METRIC
DIMENSIONS ARE IN METRES AND/OR
MILLIMETRES UNLESS OTHERWISE SHOWN
DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING

CONT
WP



**MILL POND BRIDGE
REHABILITATION
GENERAL ARRANGEMENT**

**SHEET
01**



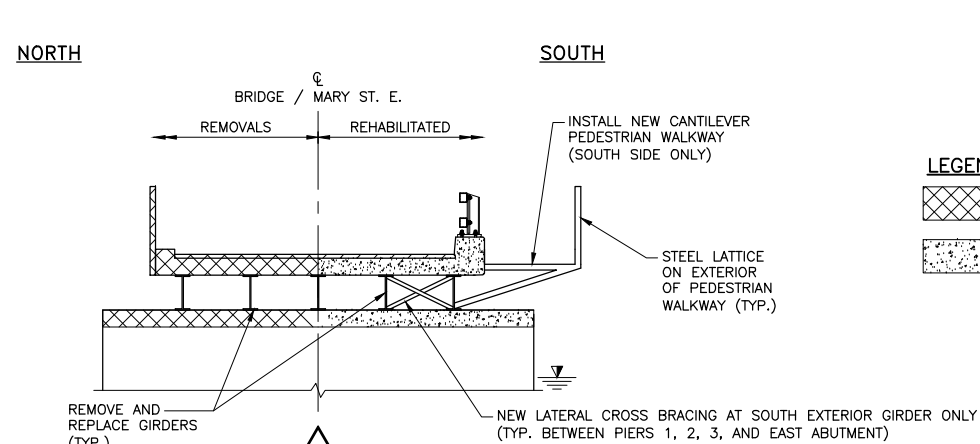
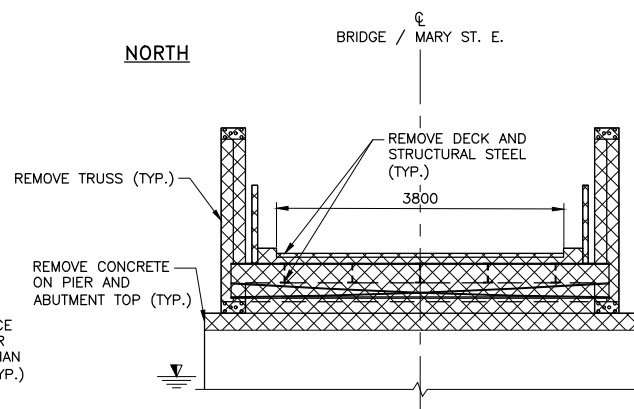
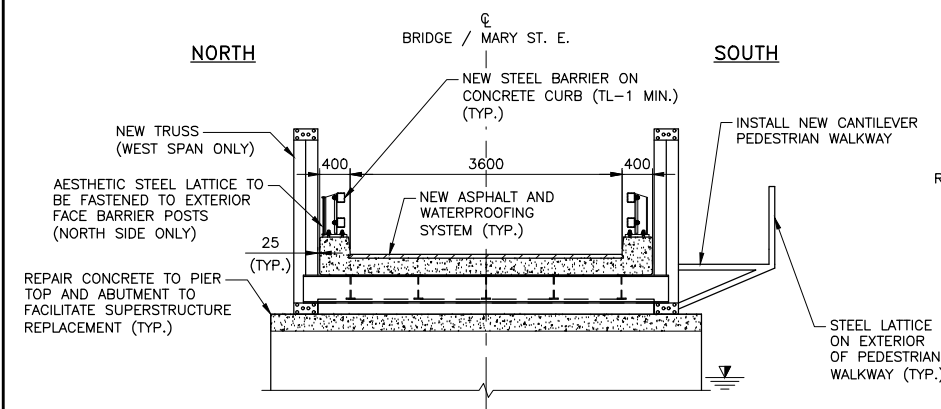
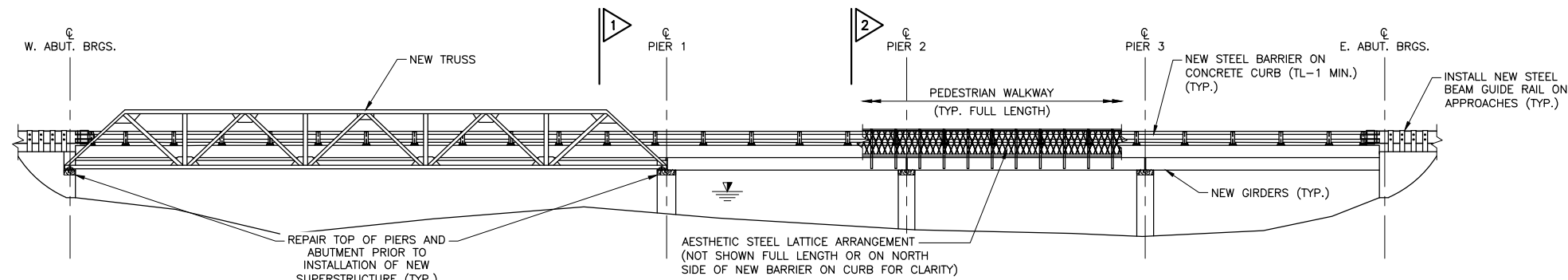
D.M. Wills Associates Limited
150 Jameson Drive
Pelee Island, Ontario
Canada, K9J 0B9
P: 705.742.2297
F: 705.748.9944
E: wills@dmwills.com

GENERAL NOTES

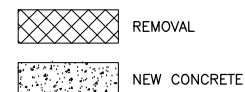
- ALL CONCRETE TO BE 35MPa; CSA A23.1 EXPOSURE CLASS C-1
- CLEAR COVER TO REINFORCING STEEL:
ALL: 50 ±10 UNLESS OTHERWISE NOTED
- REINFORCING STEEL SHALL BE GRADE 400W UNLESS OTHERWISE SPECIFIED.
- UNLESS OTHERWISE SHOWN, TENSION LAP FOR REINFORCING STEEL BARS SHALL BE CLASS B.
- ALL EXPOSED CONCRETE EDGES SHALL HAVE 20mm CHAMFER.
- CONTRACTOR TO COMPLY WITH ENVIRONMENTAL PROTECTION REQUIREMENTS AND ALL ENVIRONMENTAL CONSTRAINTS TO PREVENT CONTAMINATION OF THE WATERCOURSE.
- BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS; WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1, UNLESS INDICATED OTHERWISE.

CONSTRUCTION NOTES

- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS, AND ELEVATIONS OF THE EXISTING STRUCTURE THAT ARE RELEVANT TO THE WORK SHOWN ON THE DRAWING PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR AND THE PROPOSED ADJUSTMENT OF THE WORK REQUIRED TO MATCH THE EXISTING STRUCTURE SHALL BE SUBMITTED FOR APPROVAL.
- ANY DAMAGE DONE TO THE EXISTING STRUCTURE DURING REMOVALS OR RECONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND AT NO COST TO THE OWNER.



LEGEND



REVISIONS		DATE	BY	DESCRIPTION
DESIGN	D.B.	CHK	G.Z.	CODE
DRAWN	T.R.	CHK	D.B.	SITE
CHBDC-14		LOAD CL-625-ONT		DATE MAY 2019
100018				DWG R01

Preliminary Cost Estimate - Mill Pond Bridge Rehabilitation

Item No.	Description	Unit	Est. Qty.	Est. Unit Price	Extension
1	Mobilization and Demobilization	L.S.	1	\$20,000.00	\$20,000.00
2	Contract Bond and Insurance	L.S.	1	\$5,000.00	\$5,000.00
3	Construction Layout	L.S.	1	\$4,500.00	\$4,500.00
4	Bird Nesting Preventative Measures	L.S.	1	\$2,500.00	\$2,500.00
5	Traffic Control	L.S.	1	\$10,000.00	\$10,000.00
6	Environmental / Watercourse Protection	L.S.	1	\$15,000.00	\$15,000.00
7	Hot Mix HL-3	t	46	\$275.00	\$12,739.00
8	Removal of Asphalt Pavement, Full Depth	m ²	51	\$50.00	\$2,550.00
9	Removal of Bridge Structure	L.S.	1	\$90,000.00	\$90,000.00
10	Removal of Steel Beam Guide Rail	m	79	\$20.00	\$1,580.00
11	Single Rail Steel Beam Guide Rail	m	79	\$180.00	\$14,220.00
12	Metal Traffic Barrier	m	109	\$650.00	\$70,850.00
13	Steel Beam Guide Rail Structure Connections	Each	4	\$1,000.00	\$4,000.00
14	Concrete in Deck	m ³	66	\$2,300.00	\$151,800.00
15	Reinforcing Steel Bar	t	8.0	\$7,400.00	\$59,200.00
16	Prefabricated Truss Structure	L.S.	1	\$300,000.00	\$300,000.00
17	Cantilever Pedestrian Walkway	m	55	\$2,500.00	\$137,500.00
18	Fabrication of Structural Steel	t	13	\$6,500.00	\$84,500.00
19	Delivery of Structural Steel	t	13	\$300.00	\$3,900.00
20	Erection of Structural Steel	t	13	\$1,500.00	\$19,500.00
22	Bridge Deck Waterproofing	m ²	198	\$80.00	\$15,840.00
23	Bearings	Each	34	\$400.00	\$13,600.00
24	Pier and Abutment Renewal	L.S.	1.0	\$200,000.00	\$200,000.00
Subtotal:					<u>\$1,238,779.00</u>
10% Contingency					\$125,000.00
10% Design and Construction					\$125,000.00
Total Estimated Project Cost					<u>\$1,488,779.00</u>