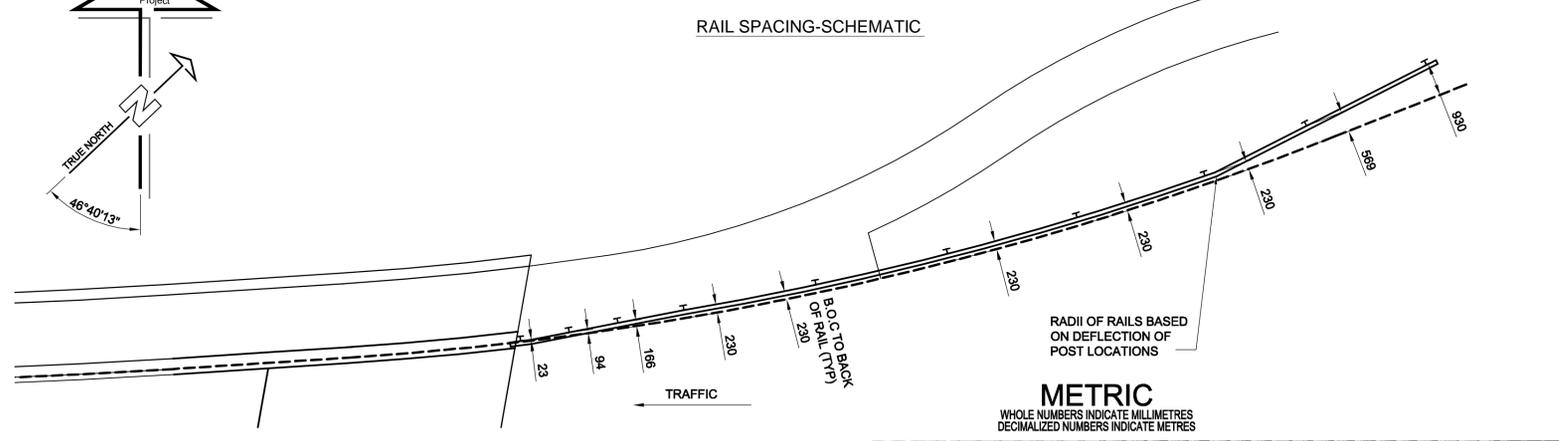
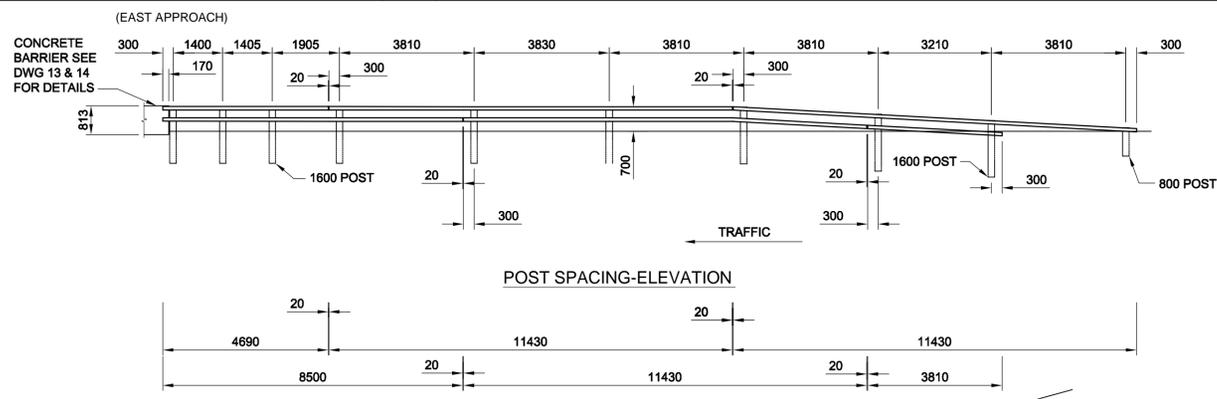
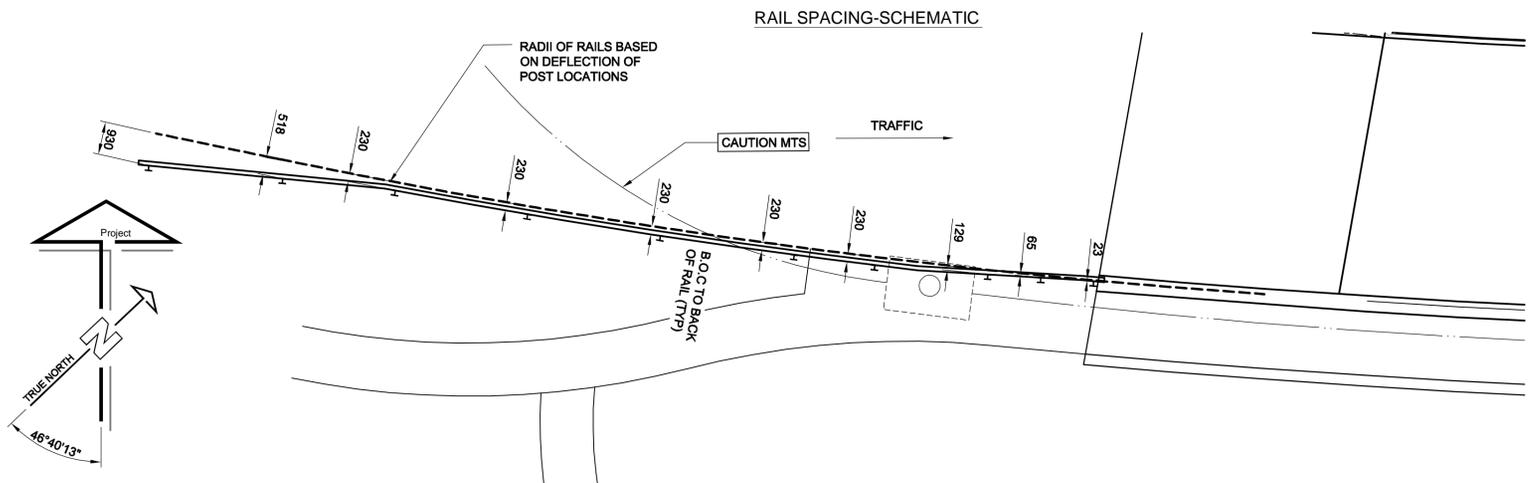
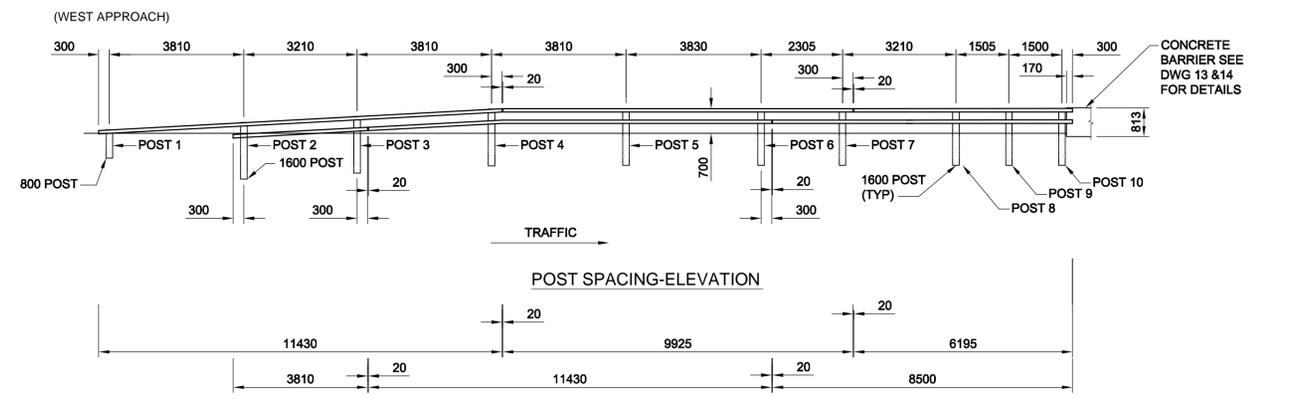


A1 SIZE 23.4" x 33.1" (594mm x 841mm)

PLOT: 07/05/10 1:16:45 PM

UMA FILE NAME: 0265-397-00_01-S-0703_RX.dwg, Saved By: mayyugae

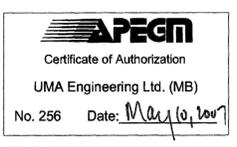


METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

BILL OF MATERIALS	
ALL APPROACH GUARDRAILS	
ITEMS	NEW
BARRIER RAIL 11430	6
BARRIER RAIL 9925	1
BARRIER RAIL 8500	2
BARRIER RAIL 6195	1
BARRIER RAIL 4690	1
BARRIER RAIL 3810	2
STANDARD SPLICE BAR	8
BARRIER POST-1600 LONG	18
BARRIER POST-800 LONG	2
RAIL CLAMP BAR	76
13-13x25 SS HEX HEAD CAP SCREWS	184
27 ODx14 IDx2 TH. SS WASHERS	184
RAIL END CAPS	4
ALUMINUM SHIMS	AS REQ'D.

NOTES
1. POST OFFSETS ARE MEASURED PERPENDICULAR TO FACE OF CURB.
2. POST SPACINGS INCLUDE ARC LENGTHS.
3. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

NOTE
POSTS 5 THRU 10 SHALL BE LOCATED BY HYDROVAC TO CONFIRM LOCATION OF MTS DUCTS, INCIDENTAL TO POST INSTALLATION



BM 40-012 ELEV 238.149m	UMA AECOM <small>© 2007 UMA ENGINEERING LTD. ALL RIGHTS RESERVED.</small>	
DESIGNED BY JGK	CHECKED BY SBB	
DRAWN BY CPK	APPROVED BY BUB	
HOR. SCALE AS NOTED	RELEASED FOR CONSTRUCTION	CONSULTANT DRAWING NO. 0265-397-00_01-S-0703_RX.dwg
VERT. SCALE AS NOTED	DATE 07/03/23	
NO. REVISIONS	YYMMDD	BY

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION ENGINEERING DIVISION

HAMILTON AVENUE BRIDGE REHABILITATION
ALUMINIUM BALANCED BARRIER APPROACH GUARDRAIL DETAILS I

CITY DRAWING NUMBER
B133-07-19

SHEET 19 OF 30

DRAWING No. 19
REV 0

BID OPPORTUNITY NO. 349-2007