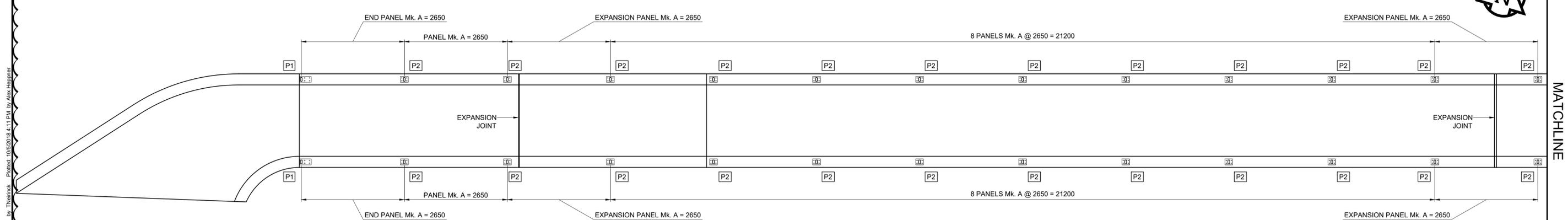
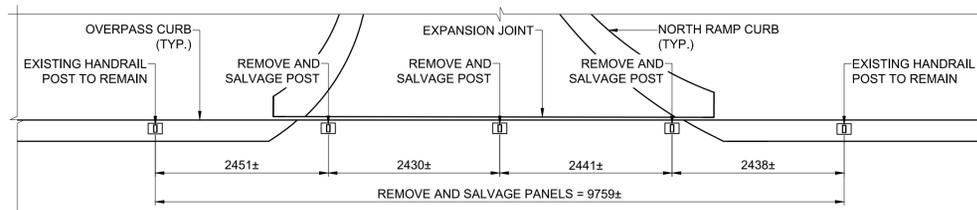


HANDRAIL PLAN
SCALE: 1:50



HANDRAIL PLAN
SCALE: 1:50



HANDRAIL REMOVAL PLAN
SCALE: 1:50

ALUMINUM PEDESTRIAN HANDRAIL QUANTITIES	
PANEL Mk.	NO.
A	30
END A	2
EXPANSION A	4
B	10
C	1
D	1
E	1
F	1
G	1
H	1
J	2
O1	1
O2	1
TOTAL NUMBER OF PANELS = 56	

ALUMINUM POST QUANTITIES		
POST Mk.	QTY	REMARK
P1	2	END POST
P2	50	INTERMEDIATE POST
P3	1	INTERMEDIATE POST
P4	1	CANTILEVER PANEL POST
P5	2	CANTILEVER PANEL POST
P6	1	INTERMEDIATE POST
P7	1	CANTILEVER PANEL POST
TOTAL NUMBER OF POSTS = 58		

- NOTES:**
1. ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM B221 ALLLOY 6351-T6.
 2. THE M.I.G. PROCESS OF WELDING SHALL BE USED.
 3. RAIL POSTS AND BALUSTERS SHALL BE SET PLUMB.
 4. PLACE NEOPRENE PAD UNDER EACH POST BETWEEN BASE PLATE OR SHIM AND CONCRETE SURFACE. ALUMINUM SHIMS MAY BE REQUIRED FOR VERTICAL ALIGNMENT.
 5. HANDRAIL ANCHOR INSERTS SHALL BE ACROW-RICHMOND TYPE DGRS-1.



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

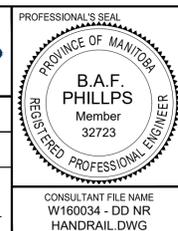
LOCATION APPROVED
UNDERGROUND STRUCTURES

DATE: _____

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY
C	ISSUED FOR ADDENDUM 1	18/10/05	BAP
B	ISSUED FOR TENDER	18/09/04	BAP
A	ISSUED FOR 95% DESIGN REVIEW	18/08/07	BAP

DESIGNED BY	ALP	CHECKED BY	BAP
DRAWN BY	ALP	APPROVED BY	BE
HOR SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	N/A
VERT SCALE	AS SHOWN	DATE	



THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

EMPRESS STREET PROJECT
PEDESTRIAN ACCESSIBILITY RAMPS
NORTH RAMP
PEDESTRIAN HANDRAIL PLAN

CITY DRAWING NUMBER: P-3494-154
SHEET 154 OF 169
DRAWING NO. 154
REV C

BID OPPORTUNITY No. 602-2018