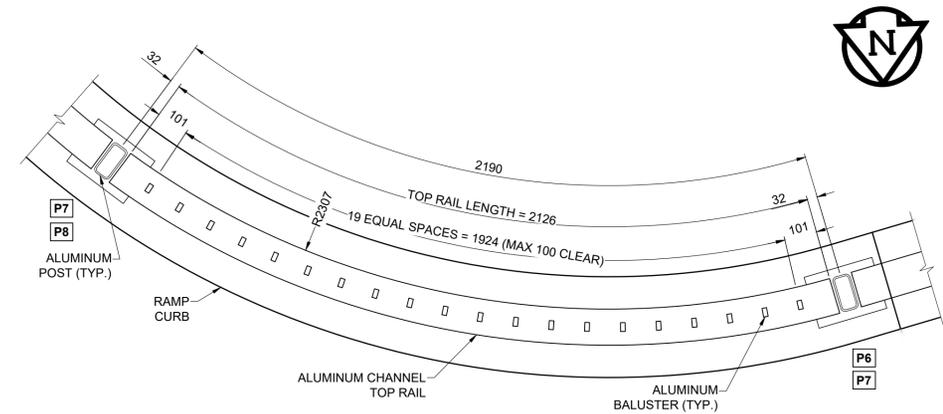
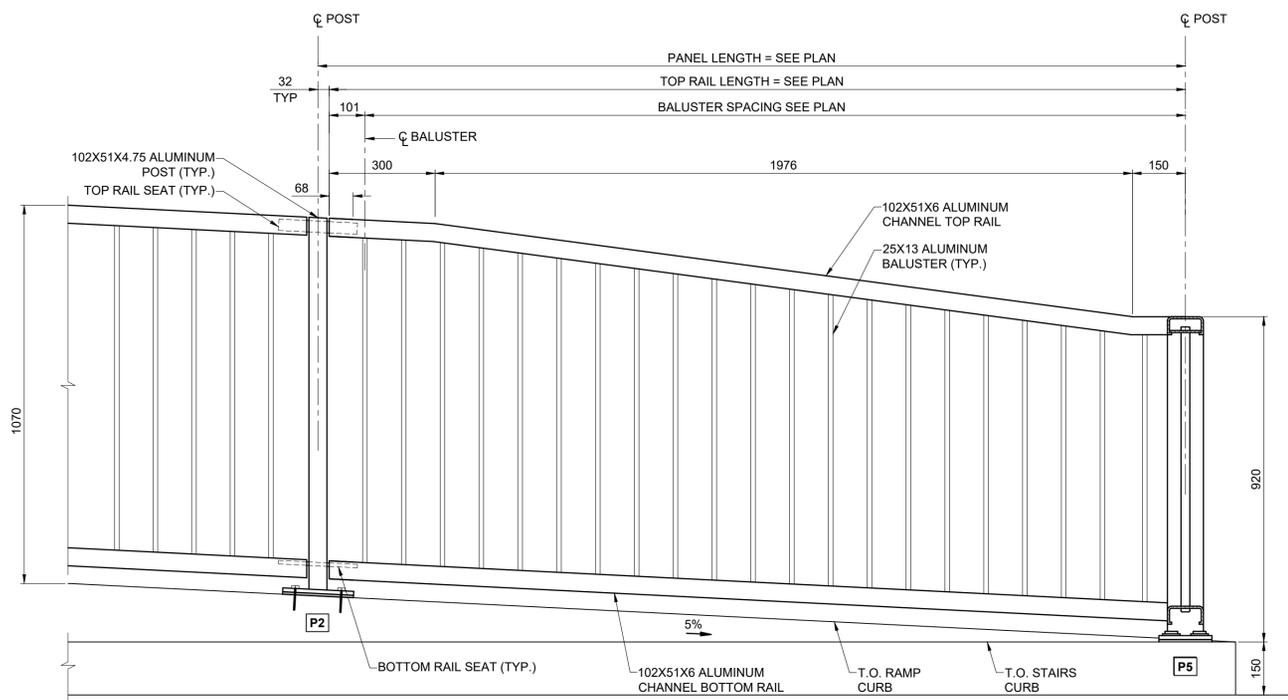


PANEL Mk. H2 PLAN
SCALE 1:10



PANEL Mk. E PLAN
SCALE 1:10



ELEVATION
END PANEL Mk. H2
SCALE: 1:10

DETAIL REMOVED

- NOTES:**
1. ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM B221 ALLOY 6351-T6.
 2. THE M.I.G. PROCESS OF WELDING SHALL BE USED.
 3. RAIL POSTS AND BALUSTERS SHALL BE SET PLUMB.
 4. EXCEPT WHERE INDICATED, HANDRAIL TOP AND BOTTOM RAILS SHALL BE AT A CONSTANT OFFSET FROM THE TOP OF CURB TAKING INTO ACCOUNT ALL GRADE BREAKS ALONG THE RAMP LENGTH. SEE DRAWING 120 FOR GRADING PLAN.
 5. PLACE NEOPRENE PAD UNDER EACH POST BETWEEN BASE PLATE OR SHIM AND CONCRETE SURFACE. ALUMINUM SHIMS MAY BE REQUIRED FOR VERTICAL ALIGNMENT.
 6. HANDRAIL ANCHOR INSERTS SHALL BE ACROW-RICHMOND TYPE DGRS-1.

ENGINEERS & GEOSCIENTISTS
MANITOBA
Certificate of Authorization
MORRISON HERSHFELD
No. 1736

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES DATE
COMMITTEE

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

MORRISON HERSHFELD

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA
B.A.F. PHILLIPS
Member
32723
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT FILE NAME
W160034 - DD SR
HANDRAIL.DWG

BID OPPORTUNITY No. 602-2018

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

EMPRESS STREET PROJECT
PEDESTRIAN ACCESSIBILITY RAMPS
SOUTH RAMP
PEDESTRIAN HANDRAIL DETAILS 4

CITY DRAWING NUMBER	P-3494-132
SHEET	132 OF 169
DRAWING No.	132
REV	C