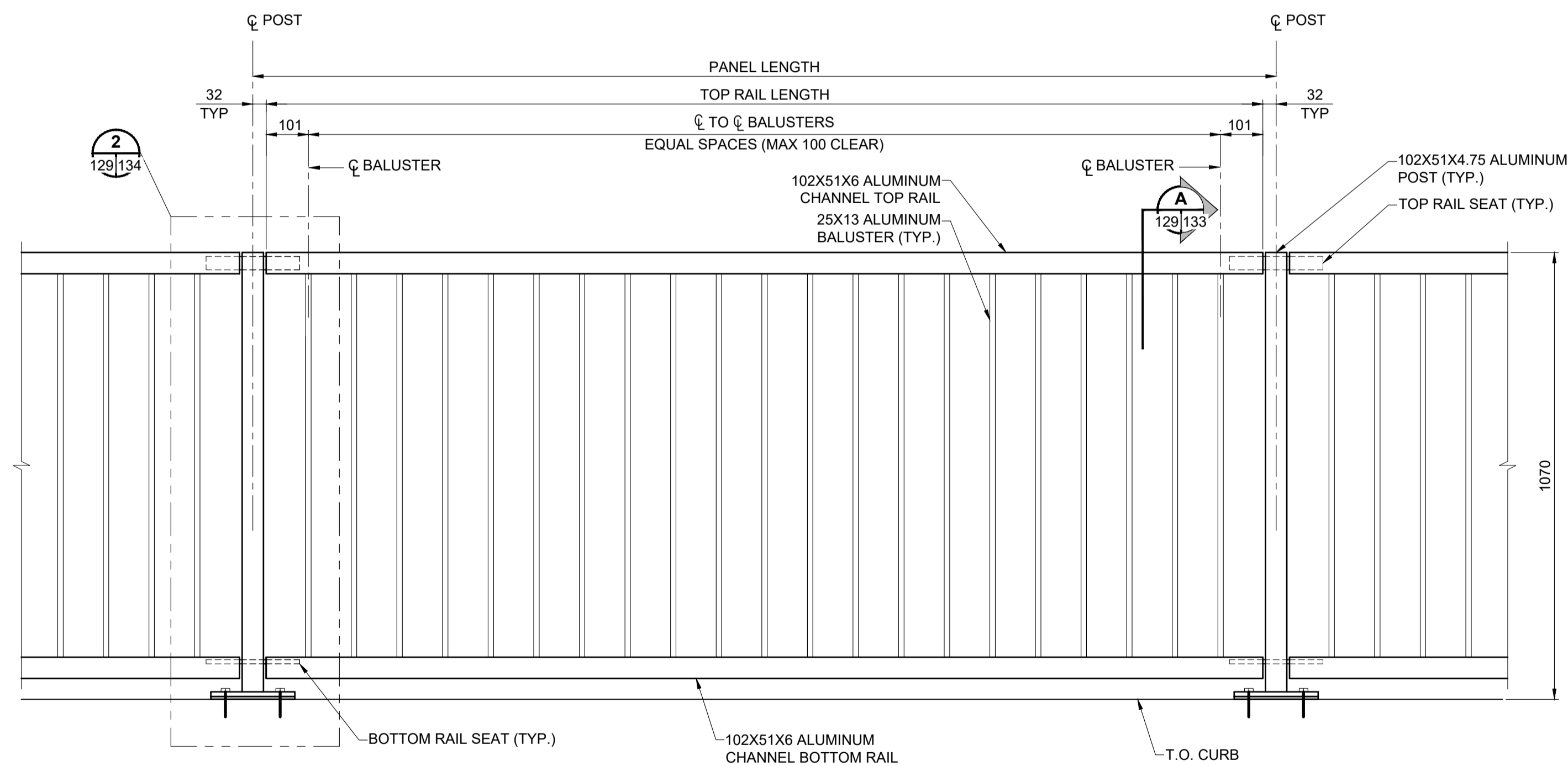


INTERMEDIATE PANEL (SLOPED 5%) ELEVATION

SCALE: 1:10
SEE TABLE FOR DETAILS



INTERMEDIATE PANEL (LEVELED) ELEVATION

SCALE: 1:10
SEE TABLE FOR DETAILS

ALUMINUM PEDESTRIAN HANDRAIL INTERMEDIATE PANEL DIMENSIONS (SLOPED 5%)

PANEL Mk.	PANEL LENGTH	TOP RAIL LENGTH	CL TO CL BALUSTERS	EQUAL SPACES BETWEEN BALUSTERS	POST Mk.
A	2600	2536	2334	22	P2
B	2500	2436	2234	22	P2, P9, P10, P19, P20, & P21
J	1370	1306	1104	11	P9 & P11
K	874	810	608	6	P10 & P12
L	1706	1642	1440	14	P11 & P13
M	1209	1145	943	9	P12 & P14
N	2250	2186	1984	19	P13, P14, P15, & P16
O	1454	1390	1188	11	P16, P18, & P20
P	1030	966	764	7	P15, P17, P19
Q	2096	2032	1830	18	P2 & P21

ALUMINUM PEDESTRIAN HANDRAIL INTERMEDIATE PANEL DIMENSIONS (LEVELED)

PANEL Mk.	PANEL LENGTH	TOP RAIL LENGTH	CL TO CL BALUSTERS	EQUAL SPACES BETWEEN BALUSTERS	POST Mk.
C	2500	2436	2234	22	P3 & P26
E	2190	2126	1924	19	P6, P7, & P8
F	1220	1156	954	9	P3 & P4
G1	2488	2424	2222	22	P3 & P4
R2	2685	2621	2419	23	P22
S	800	736	534	5	P21 & P22
U	3000	2936	2734	27	P3 & P24
V	1442	1378	1176	11	P24, P25, & P26
Y	2753±	2689±	2487±	24±	P5 & EXISTING

- NOTES:**
- ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM B221 ALLOY 6351-T6.
 - THE M.I.G. PROCESS OF WELDING SHALL BE USED.
 - RAIL POSTS AND BALUSTERS SHALL BE SET PLUMB.
 - PLACE NEOPRENE PAD UNDER EACH POST BETWEEN BASE PLATE OR SHIM AND CONCRETE SURFACE. ALUMINUM SHIMS MAY BE REQUIRED FOR VERTICAL ALIGNMENT.
 - 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
B	ISSUED FOR TENDER	18/09/04	BAP
A	ISSUED FOR 95% DESIGN REVIEW	18/08/07	BAP

MORRISON HERSHFIELD

DESIGNED BY: YM
CHECKED BY: BAP
DRAWN BY: ALP
APPROVED BY: BE

HOR SCALE: AS SHOWN
VERT SCALE: AS SHOWN

RELEASED FOR CONSTRUCTION: N/A

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

CONSULTANT FILE NAME
W160034 - DD SR HANDRAIL.DWG

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

EMPRESS STREET PROJECT
PEDESTRIAN ACCESSIBILITY RAMPS
SOUTH RAMP
PEDESTRIAN HANDRAIL DETAILS 1

CITY DRAWING NUMBER: P-3494-129
SHEET 129 OF 168
DRAWING No. REV 129 B