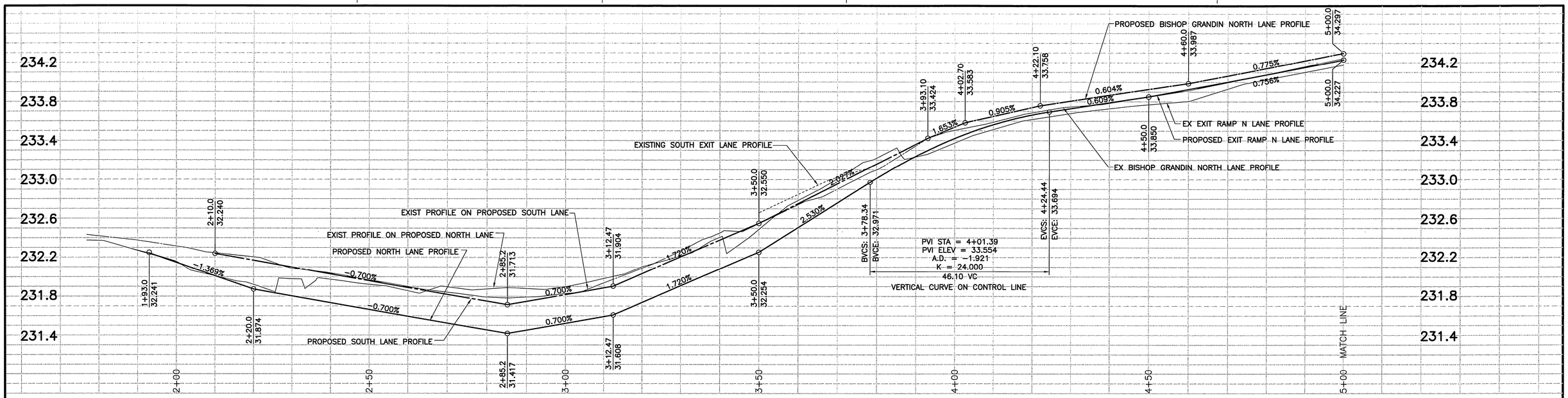
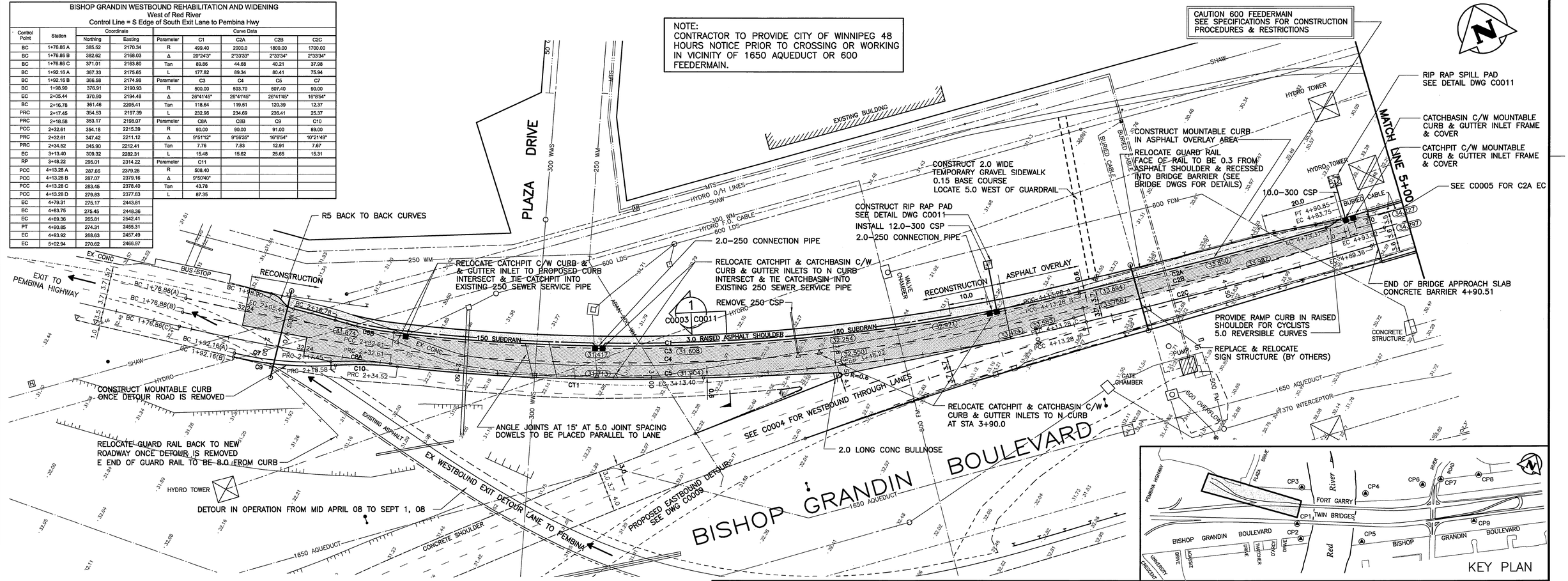


BISHOP GRANDIN WESTBOUND REHABILITATION AND WIDENING
West of Red River
Control Line = S Edge of South Exit Lane to Pembina Hwy

Control Point	Station	Coordinate		Curve Data			
		Northing	Easting	Parameter	C1	C2A	C2B	C2C
BC	1+76.86 A	385.52	2170.34	R	499.40	2000.0	1800.00	1700.00
BC	1+76.86 B	382.62	2168.03	Δ	20°24'3"	2°33'33"	2°33'34"	2°33'34"
BC	1+76.86 C	371.01	2163.80	Tan	89.86	44.68	40.21	37.98
BC	1+92.16 A	367.33	2175.65	L	177.82	89.34	80.41	75.94
BC	1+92.16 B	366.58	2174.98	Parameter	C3	C4	C5	C7
BC	1+98.90	376.91	2190.93	R	500.00	503.70	507.40	90.00
EC	2+05.44	370.90	2194.48	Δ	26°41'45"	26°41'45"	26°41'45"	16°8'54"
BC	2+16.78	361.46	2205.41	Tan	118.64	119.51	120.39	12.37
PRC	2+17.45	354.53	2197.39	L	232.96	234.69	236.41	25.37
PRC	2+18.58	353.17	2198.07	Parameter	C8A	C8B	C9	C10
PCC	2+32.61	354.18	2215.39	R	90.00	90.00	91.00	89.00
PRC	2+32.61	347.42	2211.12	Δ	9°51'12"	9°56'35"	16°8'54"	10°21'49"
PRC	2+34.52	345.90	2212.41	Tan	7.76	7.83	12.91	7.67
EC	3+13.40	309.32	2282.31	L	15.48	15.62	25.65	15.31
RP	3+48.22	295.01	2314.22	Parameter	C11			
PCC	4+13.28 A	287.66	2379.28	R	506.40			
PCC	4+13.28 B	287.07	2379.16	Δ	9°50'40"			
PCC	4+13.28 C	283.45	2378.40	Tan	43.78			
PCC	4+13.28 D	279.83	2377.63	L	87.35			
EC	4+79.31	275.17	2443.81					
EC	4+83.75	275.45	2448.36					
EC	4+89.36	265.81	2542.41					
PT	4+90.85	274.31	2455.31					
EC	4+93.92	268.63	2457.49					
EC	5+02.94	270.62	2466.97					

NOTE:
CONTRACTOR TO PROVIDE CITY OF WINNIPEG 48 HOURS NOTICE PRIOR TO CROSSING OR WORKING IN VICINITY OF 1650 AQUEDUCT OR 600 FEEDERMAIN.



Coordinate Control Survey Monuments					
No.	Wardrop Coordinate		NAD 83 Grid Coordinate		Description
	Northing	Easting	Northing	Easting	
CP1	200.457	2451.508	5520387.945	633474.139	GBM 76-026
CP2	143.191	2457.394	5520340.999	633507.459	BRASS CAP
CP3	324.616	2489.426	5520514.681	633446.010	BRASS CAP
CP6	289.245	2935.557	5520703.561	633851.730	BRASS CAP
CP7	300.000	3000.000	5520744.652	633902.526	IRON BAR
CP9	132.015	3114.711	5520654.917	634085.078	HCM

APEGM
Certificate of Authorization
Wardrop Engineering Inc.
No. 195 Expiry: April 30, 2008

B.M. ELEV.		F.B.	
00	ISSUED FOR TENDER	08.02.04	WJF
NO.	REVISIONS	DATE	BY

WARDROP | Engineering Inc.

DESIGNED BY DAL	CHECKED BY
DRAWN BY GMD	APPROVED BY
HOR. SCALE: 1 : 500	ACCEPTED BY DATE 08-02-05
VERTICAL: 1 : 20	RANDY FIGGAS, P. ENG BRIDGES PROJECTS ENGINEER
DATE 07.09.19	CONSULTANT DRAWING NO. 0600070700-DWG-C1010-00

PROVINCE OF MANITOBA
W.J. FUNK
REGISTERED ENGINEER

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION ENGINEERING DIVISION

FORT GARRY BRIDGE REHABILITATION

PAVEMENT RECONSTRUCTION & WIDENING
BISHOP GRANDIN BOULEVARD
WESTBOUND EXIT LANES TO PEMBINA HIGHWAY

CITY DRAWING NUMBER B173-08-046W
SHEET 46 OF 54
C0003