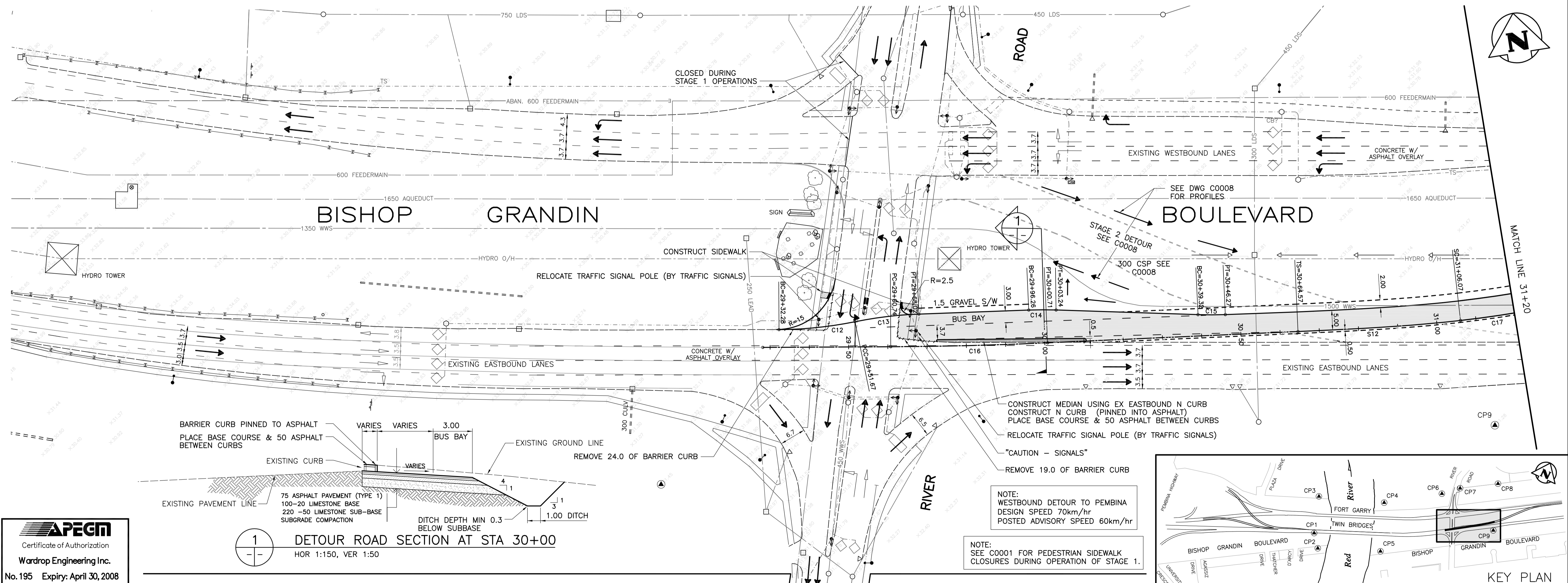
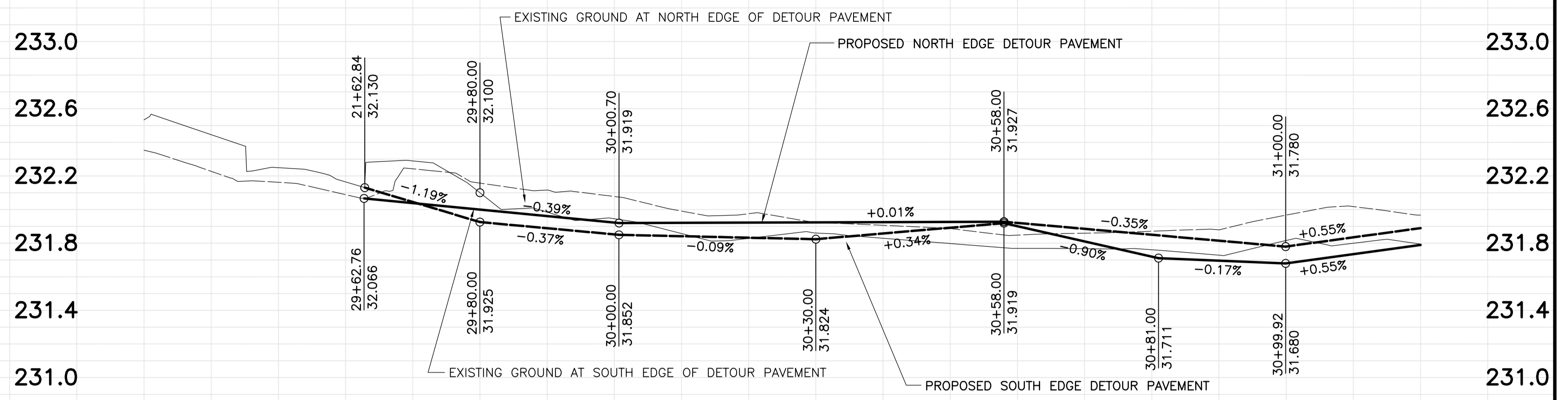
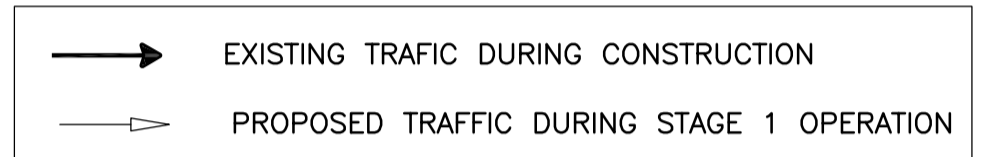


STAGE 1 PROPOSED DETOUR East of Red River Detour Road Control Line = S Edge of Lane							
Control Point	Station	Coordinate		Parameter	Curve Data		
		Northing	Easting		C12	C13	C14
BC	29+32.28	156.369	2932.300	R	100.00	100.00	100.00
PCC	29+51.67	156.379	2951.679	Δ	11°10'50"	9°24'09"	3°59'15"
PC	29+60.74	158.379	2951.679	Tan	9.79	8.22	3.48
PT	29+68.02	160.323	2967.956	L	19.51	16.41	6.96
BC	29+96.26	161.354	2995.937	Parameter	C16	C17	
PT	30+00.71	153.001	3000.738	R	1000.00	300.00	
PT	30+03.24	161.368	3002.894	Δ	2°17'26"	5°45'28"	
BC	30+39.32	160.182	3039.055	Tan	19.99	15.09	
PT	30+46.27	160.196	3046.013	L	39.98	30.15	
TS	30+64.57	155.861	3064.529	Spiral Data			
SC	31+06.07	158.698	3105.924	Parameter	S9		
				R	300.00		
				L	41.50		
				Theta	3°57'47"		
				P	0.24		
				K	20.75		
				A	111.58		

Coordinate Control Survey Monuments					
No.	Wardrop Coordinate		Nad 83 Grid Coordinate		Description
	Northing	EASTING	Northing	Easting	
CP4	287.536	2722.262	5520597.040	633666.924	BRASS CAP
CP5	101.988	2689.707	5520419.522	633729.948	BRASS CAP
CP6	289.255	2935.557	5520703.567	633851.726	BRASS CAP
CP7	300.00	3000.00	5520744.652	633902.526	IRON BAR
CP8	300.00	3145.08	5520816.061	634028.767	IRON BAR
CP9	132.00	3114.69	5520654.917	634085.078	HCM

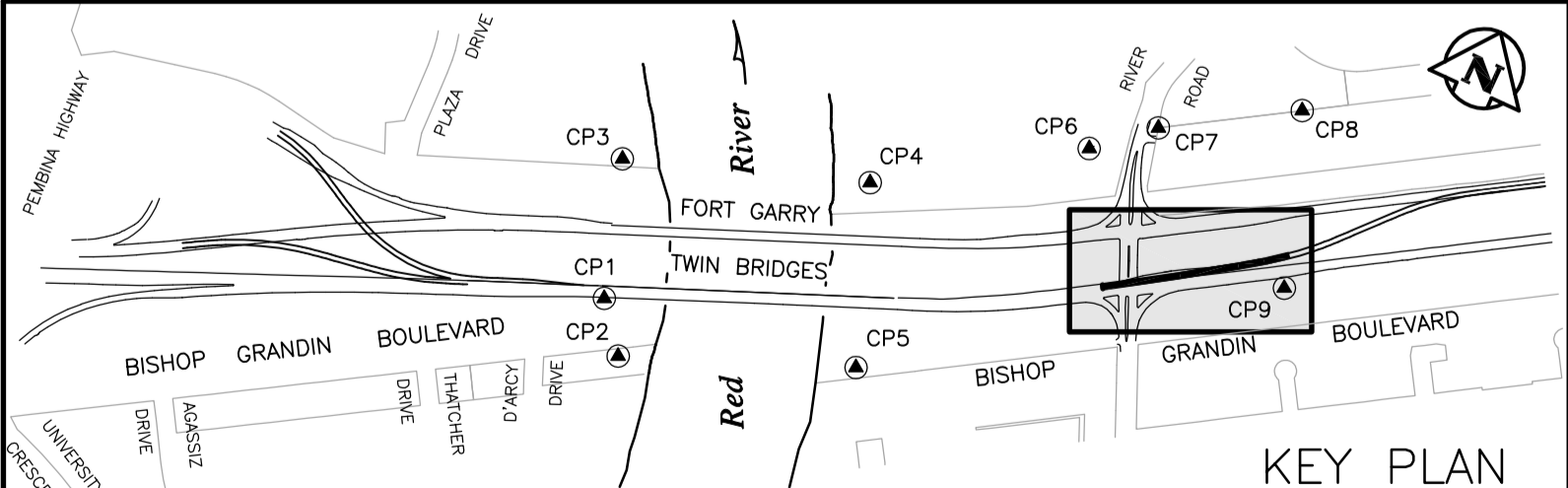


**1**  
DETOUR ROAD SECTION AT STA 30+00  
HOR 1:150, VER 1:50

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

NOTE:  
WESTBOUND DETOUR TO PEMBINA  
DESIGN SPEED 70km/hr  
POSTED ADVISORY SPEED 60km/hr

NOTE:  
SEE C0001 FOR PEDESTRIAN SIDEWALK  
CLOSURES DURING OPERATION OF STAGE 1.



150 WM	WATERMAIN	150 WM	○	MANHOLE	●	---	GAS
400 FM	FEEDERMAIN	400 FM	□	CATCHBASIN	■	---	HYDRO
300 LDS	LAND DRAINAGE SEWER	300 LDS	▽	CURB INLET	▼	---	MTS
250 WWS	WASTEWATER SEWER	250 WWS	•	HYDRO POLE	○	---	SIGNALS MANHOLE
300 CS	COMBINED SEWER	300 CS	••	LIGHT STANDARD	×	31.175	ELEVATION (32.000)
200 FCM	FORCEMAIN	200 FCM	←	ANCHOR	---	---	SIDEWALK
---	JUNCTIONS	---	⊕	TREE	---	---	CURB
---	HYDRANT	---	⊕	LEGAL DIMENSION	---	---	ASPHALT
---	VALVE	---	⊕	SURVEY BAR	---	---	CONCRETE
---	CURB STOP	---	⊕	TRAFFIC SIGNAL	---	---	MILLING/PATCHING
EXISTING	LEGEND-PLAN	PROPOSED	---	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN

LOCATION APPROVED UNDERGROUND STRUCTURES	
SUPV. U/G STRUCTURES COMMITTEE	DATE

B.M. ELEV.	

**WARDROP** Engineering Inc.

DESIGNED BY: DAL	CHECKED BY: <i>Uga</i>
DRAWN BY: GMD	APPROVED BY: <i>Uga</i>
HOR. SCALE: 1 : 500	RELEASED FOR CONSTRUCTION
VERTICAL: 1 : 20	

00 ISSUED FOR TENDER 07.08.08 *Uga*  
NO. REVISIONS DATE BY

**PRELIMINARY DRAWING**  
NOT TO BE USED FOR CONSTRUCTION  
CONSULTANT DRAWING NO. 0600070700-C1005-00

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

FORT GARRY BRIDGE REHABILITATION  
STAGE 1 DETOUR FOR 2008 OPERATIONS  
DETOUR LANES EAST OF RED RIVER

CITY DRAWING NUMBER  
SHEET 5 OF 9  
C0005