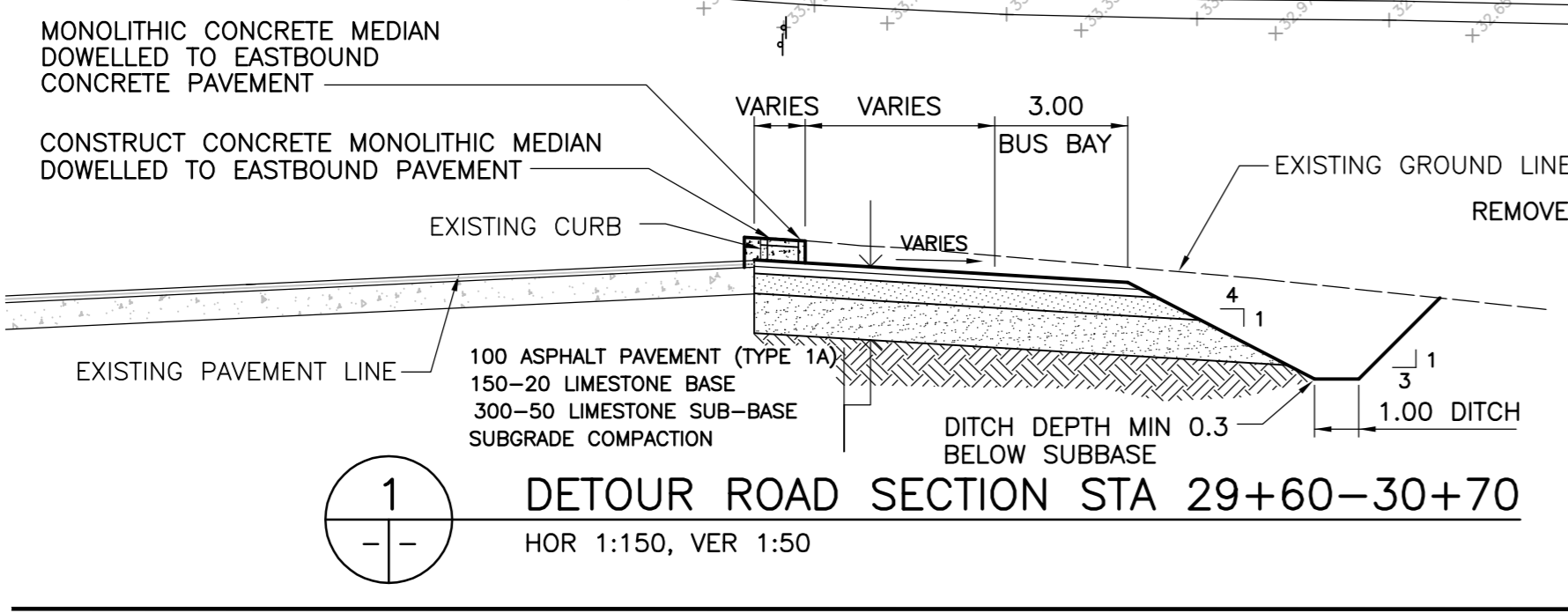
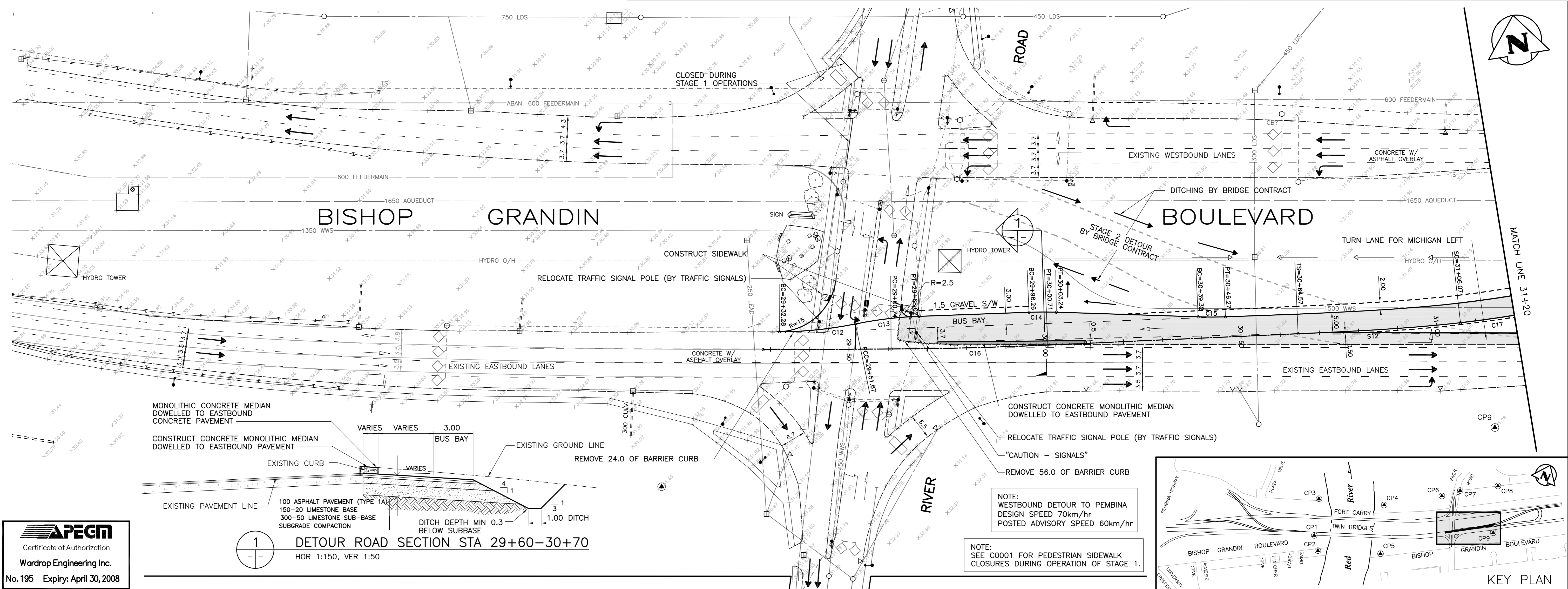
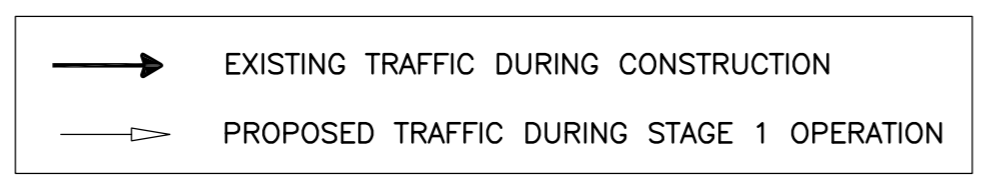
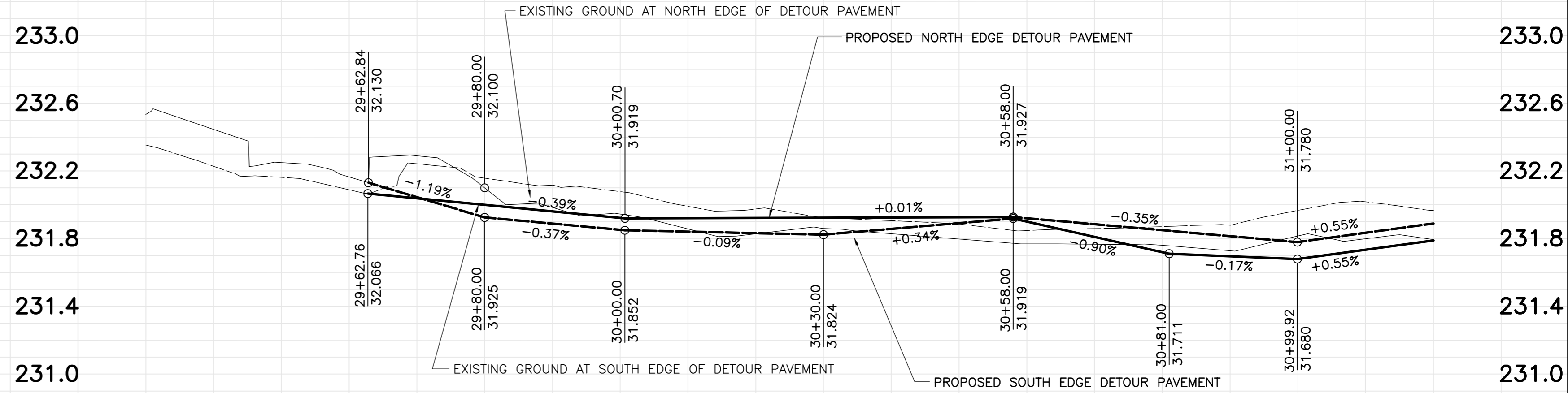


**STAGE 1 PROPOSED DETOUR**  
East of Red River  
Detour Road Control Line = S Edge of Lane

Control Point	Station	Coordinate		Parameter	Curve Data			
		Northing	Easting		C12	C13	C14	C15
BC	29+32.28	158.369	2932.300	R	100.00	100.00	100.00	100.00
PCC	29+51.67	158.379	2951.679	Δ	11°10'50"	9°24'09"	3°59'15"	3°59'15"
PC	29+60.74	158.379	2951.679	Tan	9.79	8.22	3.48	3.48
PT	29+68.02	160.323	2967.956	L	19.51	16.41	6.96	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		
BC	30+03.24	161.368	3002.894	Δ	2°17'28"	5°45'28"		
PT	30+39.32	160.182	3039.055	Tan	19.99	15.09		
TS	30+46.27	160.196	3046.013	L	39.98	30.15		
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	5520697.040	633666.924	BRASS CAP
CP5	101.988	2689.707	5520419.522	633729.948	BRASS CAP
CP6	289.255	2935.557	5520703.567	633851.728	BRASS CAP
CP7	300.00	3000.00	5520744.652	633902.528	IRON BAR
CP8	300.00	3145.08	5520816.061	634028.767	IRON BAR
CP9	132.00	3114.69	5520854.917	634085.078	HCM



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

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

**LOCATION APPROVED UNDERGROUND STRUCTURES**

NO.	REVISIONS	DATE	BY
01	ISSUED FOR ADDENDUM 2	07.08.16	WJF
00	ISSUED FOR TENDER	07.08.08	WJF

**WARDROP Engineering Inc.**

DESIGNED BY: DAL	CHECKED BY: [Signature]
DRAWN BY: GMD	APPROVED BY: [Signature]
DATE: 07.07.06	RELEASED FOR CONSTRUCTION: [Signature]

**PRELIMINARY DRAWING**  
NOT TO BE USED FOR CONSTRUCTION  
CONSULTANT DRAWING NO. 0600070700-DWG-C1005-01

**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