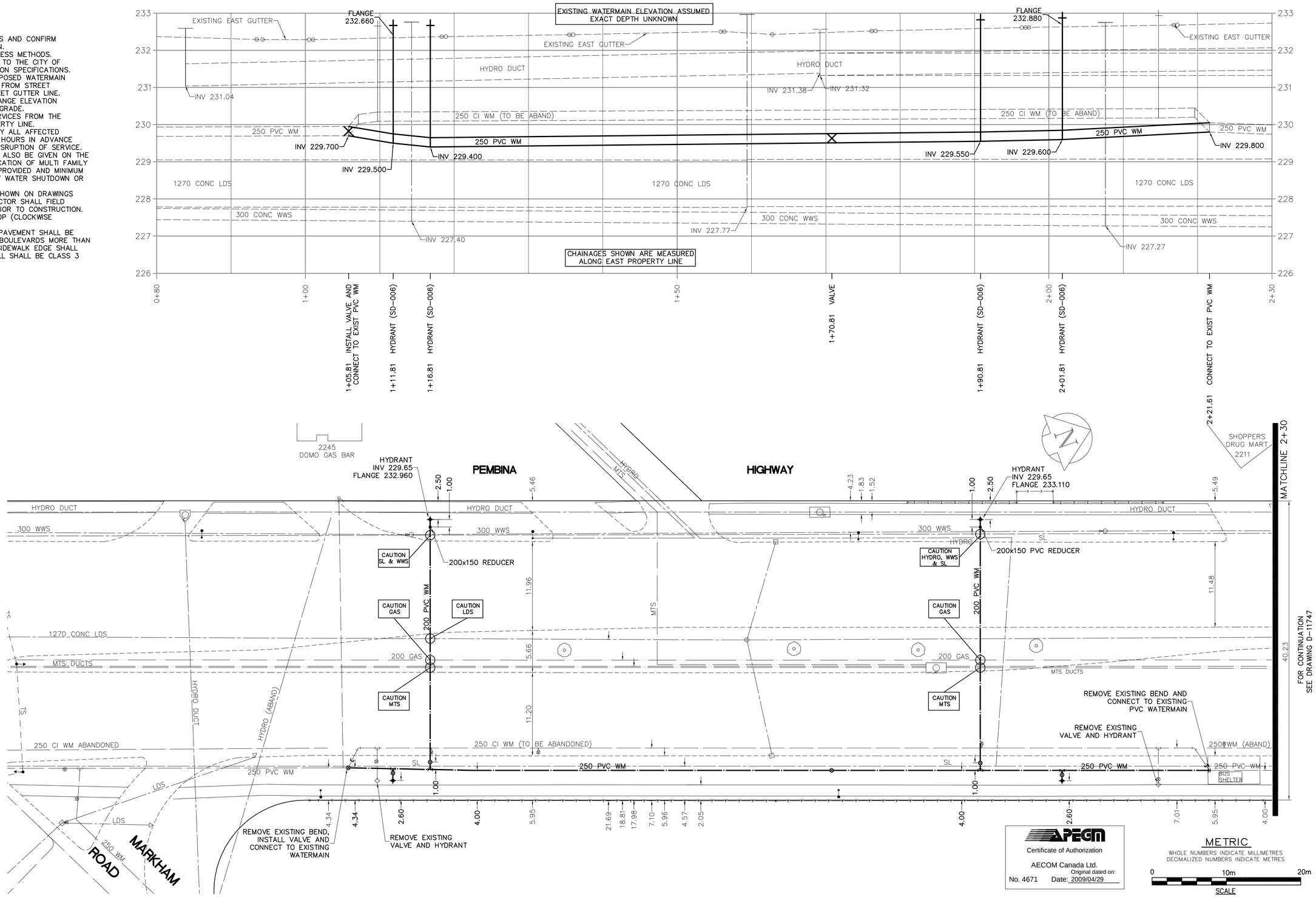
CONSTRUCTION NOTES

1. EXPOSE WATERMAIN CONNECTIONS AND CONFIRM INVERTS PRIOR TO CONSTRUCTION.
2. INSTALL WATERMAIN BY TRENCHLESS METHODS.
3. ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
4. MINIMUM COVER TO TOP OF PROPOSED WATERMAIN SHALL BE THE DEEPER OF 2.5m FROM STREET CENTERLINE OR 2.5m FROM STREET GUTTER LINE.
5. INSTALL ALL HYDRANTS WITH FLANGE ELEVATION 50mm–150mm ABOVE FINISHED GRADE.
6. REPLACE ALL EXISTING LEAD SERVICES FROM THE PROPOSED WATERMAIN TO PROPERTY LINE.
7. EXCEPT AS NOTED BELOW, NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWN OR DISRUPTION OF SERVICE. NOTIFICATION TO BUSINESSES TO ALSO BE GIVEN ON THE PREVIOUS BUSINESS DAY. NOTIFICATION OF MULTI FAMILY RESIDENTIAL COMPLEXES TO BE PROVIDED AND MINIMUM 2 BUSINESS DAYS PRIOR TO ANY WATER SHUTDOWN OR DISRUPTION OF SERVICE.
8. LOCATION OF WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL WATER SERVICES PRIOR TO CONSTRUCTION.
9. ALL VALVES SHALL BE BLACK TOP (CLOCKWISE TO CLOSE).
10. BACKFILL UNDER PEMBINA HWY PAVEMENT SHALL BE CLASS 1 BACKFILL. BACKFILL IN BOULEVARDS MORE THAN 1.0m FROM ANY PAVEMENT OR SIDEWALK EDGE SHALL BE CLASS 5. ALL OTHER BACKFILL SHALL BE CLASS 3 BACKFILL.



APEGM
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: Original dated on: 2009/04/29

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES
0 10m 20m
SCALE

EXISTING	LEGEND – PLAN	PROPOSED	EXISTING	LEGEND – PLAN	PROPOSED	EXISTING	LEGEND – PROFILE	PROPOSED
150 mm W.M.	WATERMAIN	150 mm W.M.		HYDRO		150 mm W.M.	WATERMAIN	
	HYDRANT			TELEPHONE			HYDRANT	
	VALVE			CONCRETE			VALVE	
300mm L.D.S.	LAND DRAINAGE SEWER	300mm L.D.S.		ASPHALT		300mm L.D.S.	LAND DRAINAGE SEWER	300mm L.D.S.
250mm W.W.S.	WASTEWATER SEWER	250mm W.W.S.		PROPERTY LINE		250mm W.W.S.	WASTE WATER SEWER	250mm W.W.S.
	MANHOLE			SURVEY BAR			℄ PROFILE	
	CATCH BASIN			CURB STOP				
	CURB INLET		500ø	TREE				
	JUNCTIONS			ANODE				
	CULVERT			CONCRETE SIDEWALK				
	GAS			FENCE				

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE 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.

B.M. 76–023. S.E Cor. Pembina Hwy. & Markham Rd.; Tbit in E. Conc. foundation of Montcalm Motor Hotel, No. 2280 Pembina hwy., 1.5 m S. & ELEV. 0.3 m below Conc. blocks of N.E. Cor. of Bldg. El. 232.806

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	2009/04/29	GSK
A	ISSUED FOR REVIEW	2009/04/03	GSK

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DESIGNED BY	ABD	CHECKED BY	GSK
DRAWN BY	GDL	APPROVED BY	KWF
HOR. SCALE:	1:250	RELEASED FOR CONSTRUCTION BY:	K. ZUREK
VERTICAL:	1:50		
DATE	2009/03/20	DATE	09/04/29

ENGINEER'S SEAL
PROVINCE OF MANITOBA
ORIGINAL SIGNED BY K.W. FITCHETT 09/04/29
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
111272–C04

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2009 WATERMAIN RENEWALS
CONTRACT 7

SHEET 4 OF 9

PEMBINA HIGHWAY
MARKHAM ROAD TO THATCHER DRIVE
MARKHAM ROAD TO STA 2+30

CITY DRAWING NUMBER
D-11746