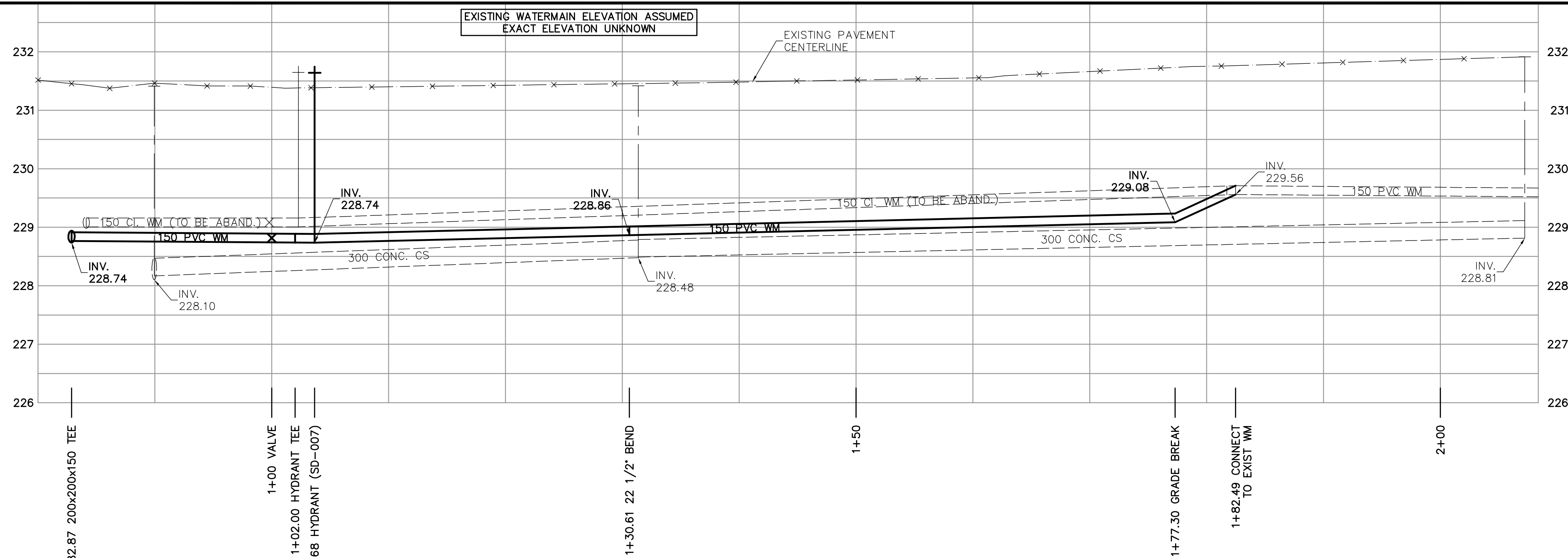


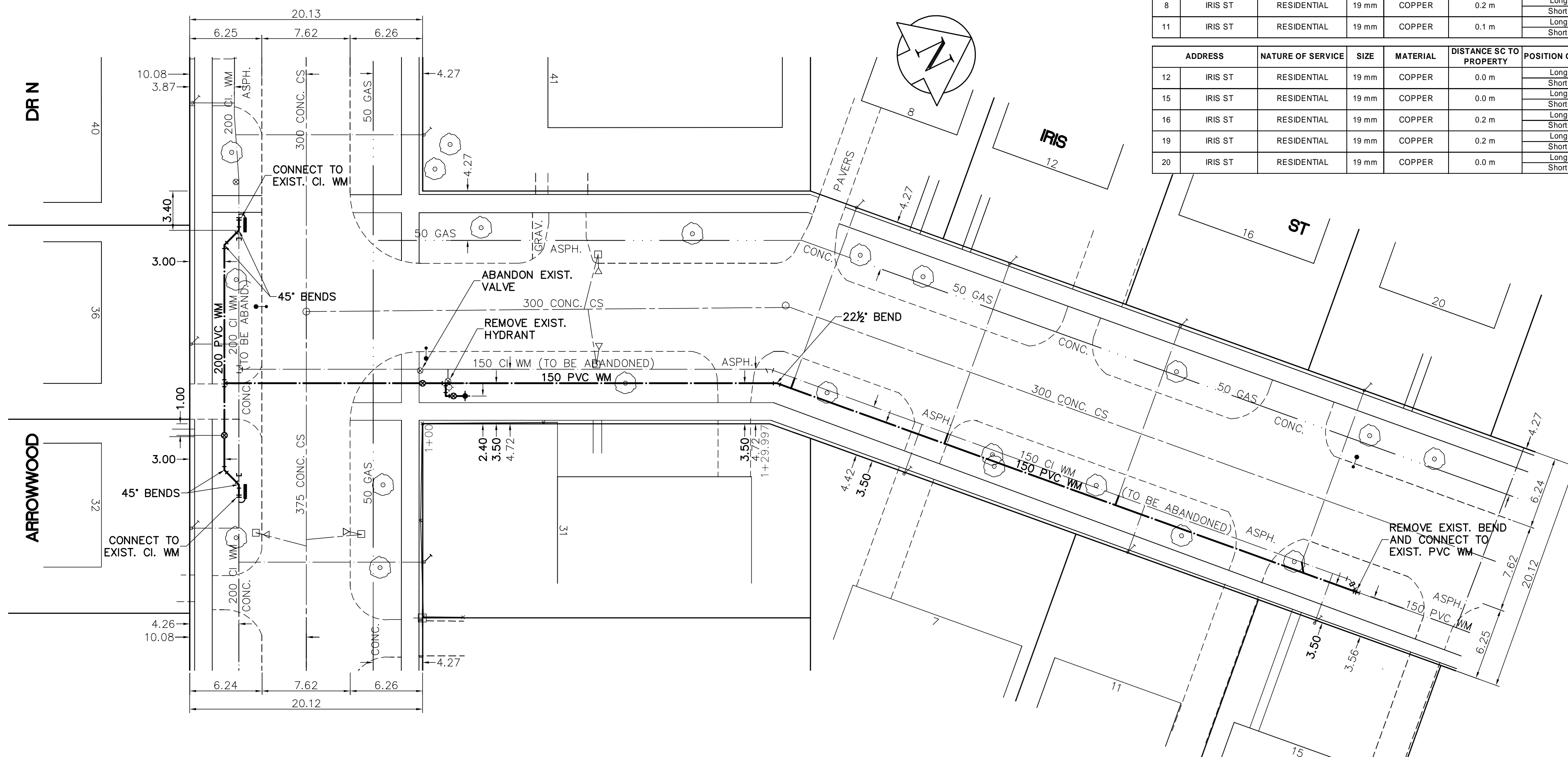
SHEET: COW-WM-A1 (11/2002) FILE NAME: L:\work\10000\92736\02a-cad\plan\csm\92736-c22.dwg PLOTTED BY: michael.beronette LAYOUT NAME: 92736-c22 Jun 16, 2006 - 4:49pm



- 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 2.5m FROM STREET CENTERLINE.
 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. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF 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 OR WITHIN 1.0m OF PAVEMENTS, INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL EXCEPT AS NOTED. BACKFILL IN BOULEVARDS SHALL BE CLASS 5 BACKFILL.
 11. CHAINAGE MEASURED ALONG EAST PROPERTY LINE.

ADDRESS	NATURE OF SERVICE	SIZE	MATERIAL	DISTANCE SC TO PROPERTY	POSITION OF SC (curb stop)	POSITION OF CC (corp)	COMMENTS:
32 ARROWWOOD DR	RESIDENTIAL	19 mm	COPPER	0.3 m	Long: 25.6 m W of W L ARROWWOOD Short: 2.9 m W of EL BLDG	Long: of Short: of S/C	
36 ARROWWOOD DR	RESIDENTIAL	19 mm	COPPER	0.0 m	Long: 41.8 m W of W L ARROWWOOD Short: 3.3 m W of EL BLDG	Long: of Short: of S/C	
40 ARROWWOOD DR	RESIDENTIAL	19 mm	COPPER	0.2 m	Long: 62.6 m W of W L ARROWWOOD Short: 4.5 m E of W L BLDG	Long: of Short: of S/C	
7 IRIS ST	RESIDENTIAL	19 mm	COPPER	0.0 m	Long: 42.8 m N of N L ARROWWOOD Short: 1.3 m N of SL BLDG	Long: of Short: of S/C	
8 IRIS ST	RESIDENTIAL	19 mm	COPPER	0.2 m	Long: 37.8 m N of N L ARROWWOOD Short: 6.3 m S of N L BLDG	Long: of Short: of S/C	
11 IRIS ST	RESIDENTIAL	19 mm	COPPER	0.1 m	Long: 158.2 m S of S L BUTTERCUP Short: 3.1 m N of SL BLDG	Long: of Short: of S/C	

ADDRESS	NATURE OF SERVICE	SIZE	MATERIAL	DISTANCE SC TO PROPERTY	POSITION OF SC (curb stop)	POSITION OF CC (corp)	COMMENTS:
12 IRIS ST	RESIDENTIAL	19 mm	COPPER	0.0 m	Long: 51.8 m N of N L ARROWWOOD Short: 4.7 m N of SL BLDG	Long: of Short: of S/C	
15 IRIS ST	RESIDENTIAL	19 mm	COPPER	0.0 m	Long: 27.7 m S of ST HYDRANT ARROWWOOD Short: 3.3 m N of SL BLDG	Long: of Short: of S/C	
16 IRIS ST	RESIDENTIAL	19 mm	COPPER	0.2 m	Long: 47.4 m S of ST HYDRANT ARROWWOOD Short: 3.5 m N of SL BLDG	Long: of Short: of S/C	
19 IRIS ST	RESIDENTIAL	19 mm	COPPER	0.2 m	Long: 128.6 m S of SL BUTTERCUP Short: 3.3 m N of SL BLDG	Long: 0.8 m S of Short: of S/C	
20 IRIS ST	RESIDENTIAL	19 mm	COPPER	0.0 m	Long: 144.1 m S of SL BUTTERCUP Short: 10.1 m S of N L BLDG	Long: of Short: of S/C	

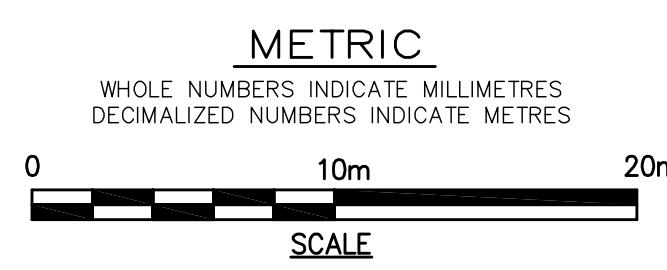


APEGM

 Certificate of Authorization

 Earth Tech Canada Inc.

 No. 730 Expiry: April 30, 2007



EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED
	WATERMAIN			WATERMAIN			HYDRANT	
	VALVE			TELEPHONE			CONCRETE	
	ASPHALT			PROPERTY LINE			SURVEY BAR	
	CATCH BASIN			CURB STOP			TREE	
	JUNCTIONS			ANODE			CONCRETE SIDEWALK	
	GAS			FENCE				

LOCATION APPROVED UNDERGROUND STRUCTURES

 SUPV. U/G STRUCTURES DATE COMMITTEE

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
0	ISSUED FOR TENDER	16/06/2004	GSK
A	ISSUED FOR REVIEW	14/06/2006	GSK

EARTH TECH

 A tyco INTERNATIONAL LTD. COMPANY

 Earth Tech (Canada) Inc. Winnipeg, Manitoba 204.477.5381

DESIGNED BY: GDL, GSK	CHECKED BY: GSK
DRAWN BY: MAF	APPROVED BY: KWF
HOR. SCALE: 1:250	RELEASED FOR CONSTRUCTION BY: K. ZUREK
VERTICAL SCALE: 1:50	DATE: 04/05/2006
	DATE: 19/06/2006

ENGINEER'S SEAL

 CONSULTANT DRAWING NO. 92736-C22

THE CITY OF WINNIPEG

 Winnipeg WATER AND WASTE DEPARTMENT

2006 WATERMAIN RENEWALS CONTRACT 19

IRIS STREET

 ARROWWOOD DRIVE NORTH

 TO 82.5m NORTH OF ARROWWOOD

SHEET OF 14 14

 CITY DRAWING NUMBER D-9050