

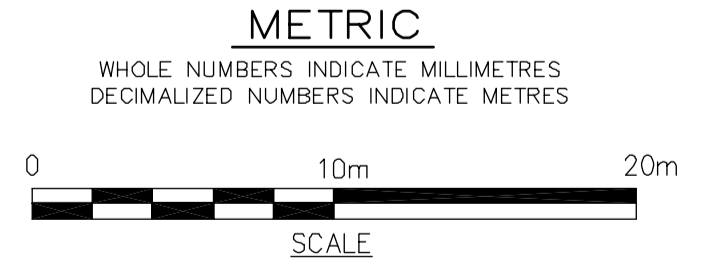
- CONSTRUCTION NOTES**
1. EXPOSE WATERMAIN CONNECTIONS AND CONFIRM INVERTS PRIOR TO CONSTRUCTION.
  2. INSTALL WATERMAIN BY TRENCHLESS METHODS.
  3. ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
  4. MINIMUM COVER TO TOP OF PROPOSED WATERMAIN SHALL BE 2.5m 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 PREVIOUS WATERMAIN BREAKS SHOWN THUS ⊗ IS APPROXIMATE AND FOR INFORMATION ONLY. NO GUARANTEE IS GIVEN TO THE COMPLETENESS OR ACCURACY OF THIS INFORMATION.
  9. LOCATION OF WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL WATER SERVICES PRIOR TO CONSTRUCTION.
  10. ALL VALVES SHALL BE RED TOP (COUNTER CLOCKWISE TO CLOSE).
  11. 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.
  12. BACKFILL ALL EXCAVATIONS WITHIN PAVEMENTS ON REGIONAL STREETS WITH CLASS 1 BACKFILL.

ADDRESS/NATURE OF SERVICES	MATERIAL	PROP.	POSITION OF S.C. (curb stop)	POSITION OF C.C. (corp)	COMMENTS:
343 MUNROE AV COMMERCIAL	COPPER 38 mm	14.3 m	Long: 35.7 m W OF HYD. Short: 6.1 m E of WL SCHOOL	Long: 35.7 m W OF HYD. Short:	ST ALPHONSE SCHOOL
348 MUNROE AV RESIDENTIAL	COPPER 19 mm	5.5 m	Long: 1.5 m E of WL HOUSE Short:	Long: 0.6m E of WL HSE Short:	NEW 19mm 1996
350 MUNROE AV RESIDENTIAL	COPPER 13 mm	0.3 m	Long: 4.6 m E of WL HOUSE Short:	Long: 2.1 m E of HYD Short:	
354 MUNROE AV RESIDENTIAL	COPPER 13 mm	0.3 m	Long: 1.8 m E of WL HOUSE Short:	Long: 35.7 m W of HYD Short:	
358 MUNROE AV RESIDENTIAL	COPPER 19 mm	0.5 m	Long: 8.8 m E of WL HOUSE Short: 2.7 m E of WL HOUSE	Long: 2.4 m W of HYD Short:	

ADDRESS/NATURE OF SERVICES	SIZE/MATERIAL	DIST. TO PROP.	POSITION OF S.C. (curb stop)	POSITION OF C.C. (corp)	COMMENTS:
362 MUNROE AV RESIDENTIAL	COPPER 13 mm	0.3 m	Long: 10.4 m Short: 4.1 m W of EL HOUSE	Long: 7.3 m W of HYD Short:	
368 MUNROE AV RESIDENTIAL	COPPER 16 mm	0.3 m	Long: 5.5 m Short: 1.2 m E of EL HOUSE	Long: 18.5 m E of HYD Short:	
372 MUNROE AV RESIDENTIAL	COPPER 13 mm	0.3 m	Long: 7.8 m Short: 1.8 m W of EL HOUSE	Long: 19.2 m E of HYD Short:	
376 MUNROE AV RESIDENTIAL	COPPER 13 mm	0.3 m	Long: 8.7 m Short: 4.3 m E of WL HOUSE	Long: 30.8 m E of HYD Short:	

ADDRESS/NATURE OF SERVICES	SIZE/MATERIAL	DIST. TO PROP.	POSITION OF S.C. (curb stop)	POSITION OF C.C. (corp)	COMMENTS:
380 MUNROE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 3.0 m W of EL HOUSE Short:	Long: 45.4 m E of HYD Short:	
384 MUNROE AV RESIDENTIAL	COPPER 13 mm	0.3 m	Long: 7.9 m Short: 4.6 m W of EL HOUSE	Long: 57.9 m W of VALVE BDX Short:	
388 MUNROE AV RESIDENTIAL	COPPER 13 mm	0.3 m	Long: 8.8 m Short: 4.4 m W of EL HOUSE	Long: 74.4 m E of HYD Short:	
392 MUNROE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 10.2 m Short: 2.4 m E of WL HOUSE	Long: 0.9 m E of SC Short:	
402 MUNROE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 5.0 m E of WL P/L Short:	Long: 4.6 m E of HYD Short:	

**APEGM**  
 Certificate of Authorization  
 Earth Tech Canada Inc.  
 No. 730 Expiry: April 30, 2004



150 mm W.M.		300 mm W.M.		HYDRO		150 mm W.M.		WATERMAIN	
⊕	WATERMAIN HYDRANT	⊕	WATERMAIN VALVE	---	CONCRETE	---	WATERMAIN HYDRANT	---	WATERMAIN VALVE
⊕	VALVE	⊕	VALVE	---	ASPHALT	---	VALVE	---	VALVE
---	LAND DRAINAGE SEWER	---	LAND DRAINAGE SEWER	---	PROPERTY LINE	---	LAND DRAINAGE SEWER	---	LAND DRAINAGE SEWER
---	WASTEWATER SEWER	---	WASTEWATER SEWER	---	SURVEY BAR	---	WASTEWATER SEWER	---	WASTEWATER SEWER
○	MANHOLE	○	MANHOLE	---	CURB STOP	---	MANHOLE	---	MANHOLE
□	CATCH BASIN	□	CATCH BASIN	---	TREE	---	CATCH BASIN	---	CATCH BASIN
▽	CURB INLET	▽	CURB INLET	---	ANODE	---	CURB INLET	---	CURB INLET
---	JUNCTIONS	---	JUNCTIONS	---	CONCRETE SIDEWALK	---	JUNCTIONS	---	JUNCTIONS
---	CULVERT	---	CULVERT	---	FENCE	---	CULVERT	---	CULVERT
---	GAS	---	GAS	---		---	GAS	---	GAS

**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 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. 27-002 NORTHERLY PROJECTING WALL OF THE HOLY EUCHARISTIC CHURCH, 0.5m E. & 1.2m BELOW CORNER OF THE SW COR. OF THE PROJECTING WALL. ELEV. 231.093.

NO.	ISSUED FOR TENDER	DATE	BY
0	ISSUED FOR TENDER	2004/4/27	GSK

**EARTH TECH**  
 A tyco INTERNATIONAL LTD. COMPANY  
 Earth Tech (Canada) Inc. Winnipeg, Manitoba 204.477.5381

DESIGNED BY	GSK	CHECKED BY	GSK
DRAWN BY	GDL	APPROVED BY	
HOR. SCALE: 1:250		RELEASED FOR CONSTRUCTION BY:	
VERTICAL SCALE: 1:50		K.R. ZUREK	
DATE 2004/03/01		DATE APRIL 27, 2004	

ENGINEER'S SEAL  
 ORIGINAL SIGNED BY  
 J. E. HUTCHISON  
 2004/04/27

CONSULTANT DRAWING NO.  
 76531-C16

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

**WATERMAIN RENEWALS**  
 CONTRACT No. 5

MUNROE AVENUE  
 160m WEST OF ROCH STREET  
 TO ROCH STREET

SHEET OF  
 16 OF 19

CITY DRAWING NUMBER  
 D-8541