



- CONSTRUCTION NOTES:**
- SEWER INSTALLATION BY TRENCHLESS OR OPEN CUT METHODS EXCEPT WHERE TRENCHLESS INSTALLATION IS SPECIFICALLY INDICATED.
  - LOCATION OF EXISTING UTILITIES TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.
  - CONTRACTOR TO PLUG ALL CB LEAD JUNCTIONS AND TO RECORD COORDINATES OF THEIR LOCATIONS.
  - ALL ABANDONED BUILDING FOUNDATIONS IN THE PATH OF LDS CONSTRUCTION TO BE REMOVED BY CONTRACTOR.
  - CONTRACTOR TO PLUG ANY ABANDONED PIPES THAT ARE BROKEN DURING CONSTRUCTION.
  - FUTURE SWALE ALONG WEST SIDE OF PROPOSED BUSWAY TO BE CONSTRUCTED BY OTHERS.
  - OPEN-CUT EXCAVATIONS TO BE STRAIGHT WALLED SHAFTS SUPPORTED BY SHORING CAGES.
  - CONTRACTOR TO RESTORE CN SERVICE ROAD TO EQUAL OR BETTER THAN ORIGINAL CONDITION.

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES.

**WARNING**  
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

- NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS. SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

NOTE: CHAINAGES SHOWN ARE ALONG CL OF PIPE.

COORDINATES		RIM ELEV.	#	STATION	INVERT			
NORTHING	EASTING				N	S	E	W
5525208.842	633383.042	232.158	MH12	2+194.67	226.213	226.243		
5525307.841	633418.031	232.197	MH13	2+299.67	225.906	226.056		

NOTE: ALL COORDINATES SHOWN ON DRAWINGS ARE NAD 83 UTM COMBINED SCALE FACTOR TO OBTAIN GROUND DISTANCES 0.9997688

**APEGM**  
Certificate of Authorization  
**Dillon Consulting Limited (MB)**  
No. 1789 Date: 25/02/09

LOCATION APPROVED UNDERGROUND STRUCTURES  
B.M. 654265 (633392.694, 5525026.192) ELEV. 232.518  
DESIGNED BY C.L.P.  
DRAWN BY A.J.P.  
CHECKED BY ORIGINAL SIGNED BY SHANE COOPER  
APPROVED BY ORIGINAL SIGNED BY DAVE KRAHN  
HOR. SCALE 1 : 500  
VERTICAL 1 : 50  
RELEASED FOR CONSTRUCTION ORIGINAL SIGNED BY RANDY FINGAS  
DATE

NO.	REVISIONS	DATE	BY
2	ISSUED FOR TENDER	25/02/09	S.C.C.
1	ISSUED FOR 95% REVIEW	02/02/09	C.L.P.

ENGINEER'S SEAL  
PROVINCE OF MANITOBA  
D.P. KRAHN  
25/02/09  
Member 4226  
REGISTERED PROFESSIONAL ENGINEER

**DILLON CONSULTING**

CONSULTANT PROJECT NO.  
**088813**

**THE CITY OF WINNIPEG TRANSIT DEPARTMENT**  
SOUTHWEST RAPID TRANSIT CORRIDOR - STAGE 1  
LAND DRAINAGE CONSTRUCTION & ASSOCIATED WORKS  
FORT ROUGE YARDS - PLAN & PROFILE - STA. 2+090 TO 2+400

CITY DRAWING NUMBER  
**LD-5286**  
SHEET 9 OF 15  
CONSULTANT DRAWING NUMBER  
**C1-U4005**

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