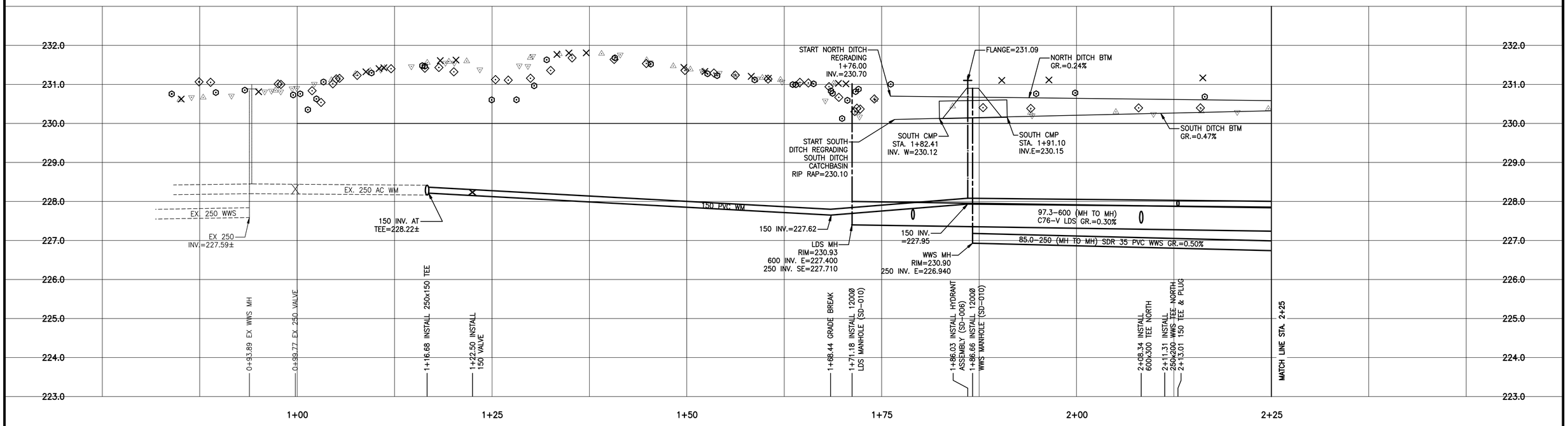

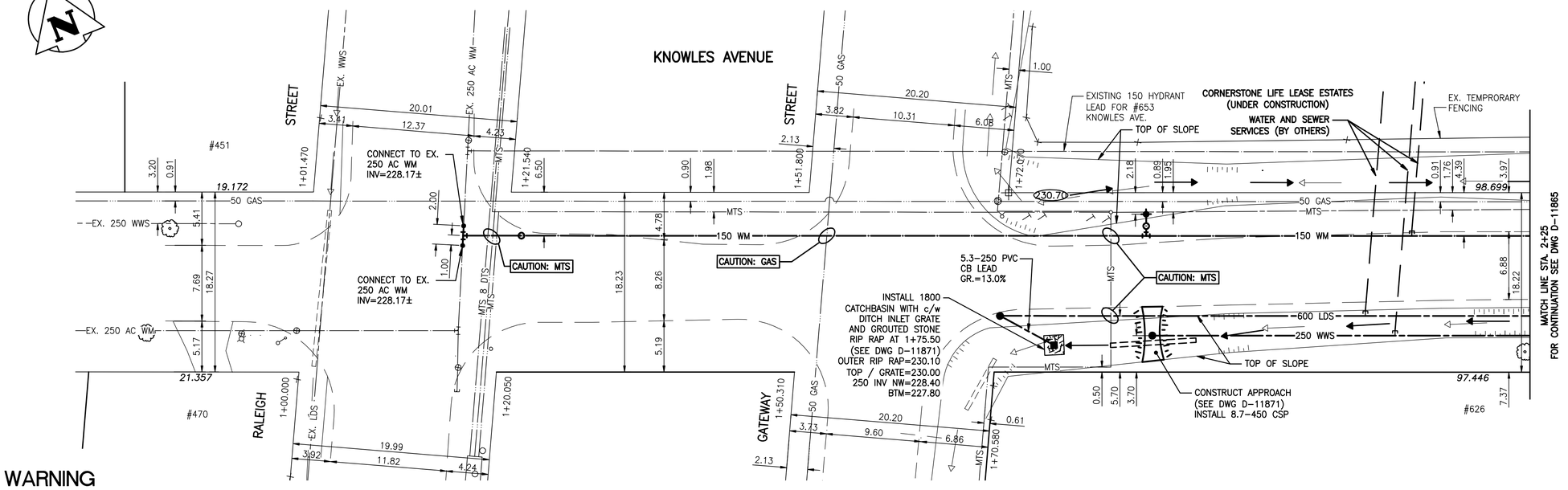

WARNING

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

1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.

2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 140/92 FOR DETAILS

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

EXISTING	LEGEND–PLAN	PROPOSED	EXISTING	LEGEND–PLAN	PROPOSED	EXISTING	LEGEND–PROFILE	PROPOSED
150 WM	WATERMAIN	150 WM		HYDRO		150 WM	WATERMAIN	150 WM
	HYDRANT			M.T.S.			HYDRANT, VALVE	
	VALVE			CONCRETE		300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT		250 WWS	WASTE WATER SEWER	250 WWS
250 WWS	WASTE WATER SEWER	250 WWS		SIDEWALK			℄ PROFILE	
	MANHOLE			PROPERTY LINE			NORTH OR WEST GUTTER	
	CATCH BASIN			SURVEY BAR			SOUTH OR EAST GUTTER	
	CURB INLET			DITCH			NORTH OR WEST ℙ	
	JUNCTIONS		31.334	ELEVATION	32.231		SOUTH OR EAST ℙ	
	CULVERT			DITCH ELEVATION	230.75		NORTH OR WEST DITCH	
	GAS			DITCH SLOPE			SOUTH OR EAST DITCH	

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.

BENCH MARK: 86R347 – N.E. Knowles Ave. & Gateway Rd. Tblt. on top of 0.05m dia. x 2.4 ron pipe, 8m S. of S. wall No.451 Knowles Ave. & 33.4m E. of most Ely. rail of railway tracks on C.P.R. Lac Du Bonnet Subd. R.O.W. or 1.1m W. of E.L. Gateway Rd. & 0.9m S. of N.L. of Knowles. Ave.

B.M. 08–17
ELEV. 230.627 m

NO.	REVISIONS	DATE	BY

NOTE:
STATIONING IS ALONG S. P/L OF KNOWLES AVE.

BID OPPORTUNITY 678–2009

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301 Expiry: April 30, 2010

Stantec Consulting Ltd.
905 Waverley Street, Winnipeg, Manitoba
Tel 204–489–5900 Fax 204–453–9012

DESIGNED BY	J.K.H.	CHECKED BY	H.A.K.
DRAWN BY	B.K.W.	APPROVED BY	H.A.K.
HOR. SCALE:	1:250	RELEASED FOR CONSTRUCTION:	
VERTICAL:	1:50		
DATE	09.08.07	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NO. C-201

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

KNOWLES AVENUE LOCAL IMPROVEMENT
RALEIGH STREET TO DE VRIES AVENUE
RALEIGH ST. TO 105.0m E OF EL OF RALEIGH ST.
WATERMAIN, LAND DRAINAGE AND WASTEWATER SEWER

SHEET I OF 8
CAD FILE DRAWING NUMBER 11730c-201-712.dwg
CITY DRAWING NUMBER D-11864

CONSTRUCTION NOTES:

1. ALL SEWERS TO BE INSTALLED BY TRENCHLESS METHODS.
2. INSTALLATION OF WWS TEES AND RISERS AT LOCATIONS NOTED, NO WASTEWATER SEWER SERVICES TO BE INSTALLED.
3. WWS TEE LOCATIONS TO BE VERIFIED IN THE FIELD BY CONTRACT ADMINISTRATOR BASED ON EXISTING SEPTIC TANK LOCATIONS AND FUTURE SEWER CONNECTIONS FROM CORNERSTONE ESTATES (BY OTHERS).
4. NO WATER SERVICES OR CORPORATION STOPS TO BE INSTALLED UNDER THIS CONTRACT.
5. EXCAVATIONS WITHIN 1.0m OF PAVEMENT OR DRIVEWAYS TO BE BACKFILLED WITH CLASS 3 MATERIAL.
6. SEE DWG. D–11871 FOR TYPICAL HYDRANT / MANHOLE APPROACH DETAIL. ALL PROPOSED CSP's TO 450 mm Ø.
7. SEE DWG. D–11871 FOR DITCH CATCH BASIN DETAIL.
8. CONTRACTOR TO RESTORE DITCHES TO PRECONSTRUCTION CONDITION AND AS PER SPECIFICATION.

V:\1170\active\11121730\drawing\402_design\sheet_files\11730c-201-712.dwg
2010-02-16 08:48AM By: jhines