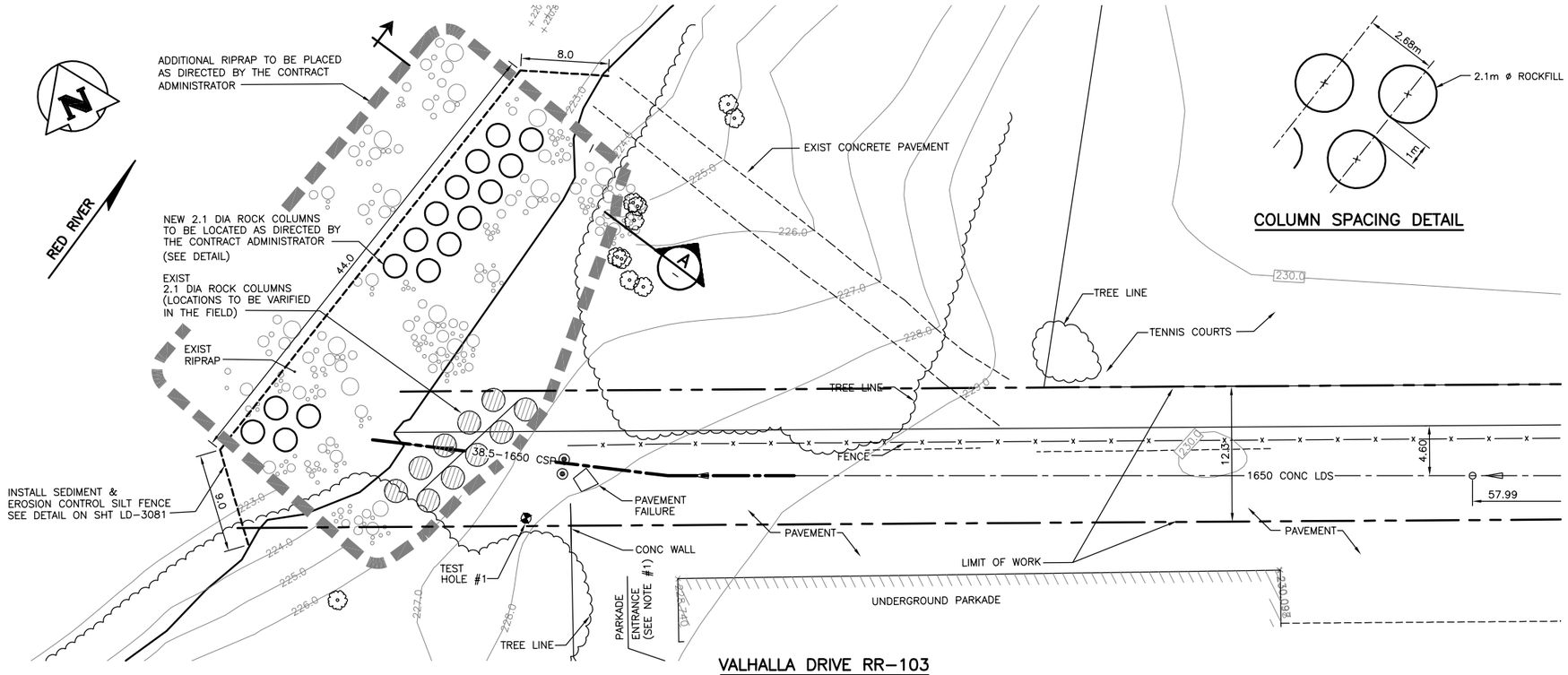
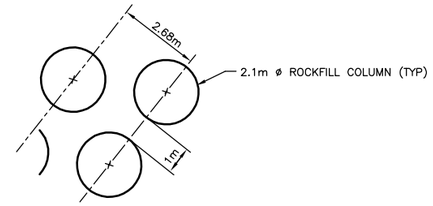
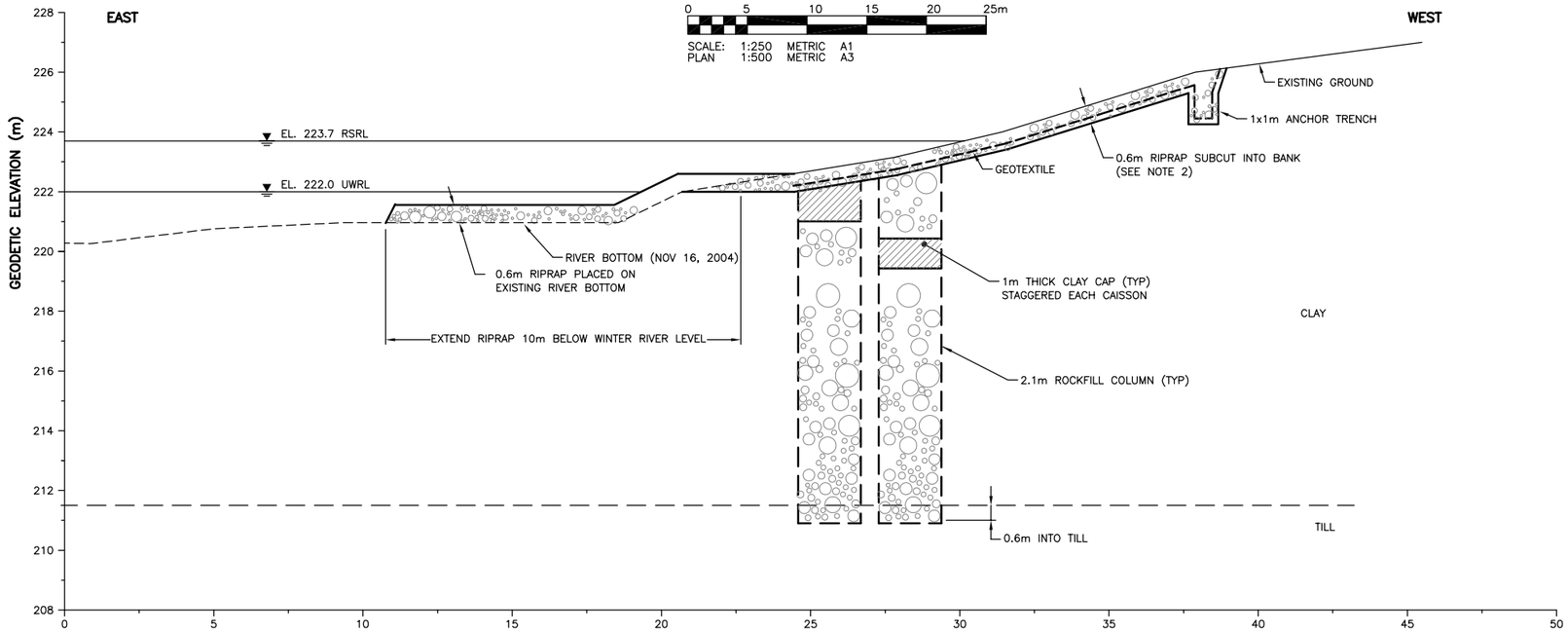


VALHALLA DRIVE RR-103



COLUMN SPACING DETAIL

SCALE: 1:250 METRIC A1
PLAN 1:500 METRIC A3



A SECTION

SCALE: 1:100 METRIC A1
SECTION 1:200 METRIC A3

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 210/72 FOR DETAILS.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LEGEND

RSRL	REGULATED SUMMER RIVER LEVEL
UWRL	UNREGULATED WINTER RIVER LEVEL (SEE NOTE 3)
+ 220.86	SURVEY SPOT ELEVATION

NOTES:

1. PLAN BASED ON 1998 ORTHO MAPPING AND KGS GROUP GROUND AND SOUNDINGS SURVEY 2004.
2. NEW RIPRAP ABOVE THE WINTER ICE ELEVATION SHALL BE SUB-CUT INTO THE BANK AND PLACED FLUSH WITH ORIGINAL GROUND SURFACE. ALL EXCAVATED MATERIAL SHALL BE REMOVED OFF SITE.
3. UNREGULATED WATER RIVER LEVEL REFERS TO WINTER OPERATION OF ST. ANDREWS LOCK AND DAM AND ASSUMES WINTER RIVER LEVELS AT Oft. JAMES AVENUE PUMP STATION DATUM. ACTUAL WINTER RIVER LEVELS VARY DEPENDING ON ACTUAL FLOWS.

APEGM
Certificate of Authorization
KGS Group
No. 245 Expiry: April 30, 2005

COWLEGEND

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 WM	WATERMAIN	150 WM		HYDRO				
	HYDRANT			M.T.S.				
	VALVE			PROPERTY LINE				
300 LDS	LAND DRAINAGE SEWER	300 LDS		SURVEY BAR				
250 WWS	WASTE WATER SEWER	250 WWS		LIGHT STANDARD				
	MANHOLE			HYDRO POLE				
	CATCH BASIN			GUY WIRE				
	CURB INLET			SIGN				
	JUNCTIONS			BUSH LINE				
	CULVERT			FENCE				
	GAS		231.334	ELEVATION	32.231			

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. 07-016
ELEV. 230.606m
N.W. COR. HENDERSON HWY. & VALHALLA DR., TBLT. IN S. CONC. FOUNDATION OF RIVER EAST HOUSE APTS., NO. 5 VALHALLA DR., 0.5m W. OF S.E. COR. OF BLDG. & 0.3m A.G.L.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	25/11/04	RKe

DATE 24/11/04

KGS GROUP
CONSULTING ENGINEERS & PROJECT MANAGERS
WINNIPEG (204) 896-1209
THUNDER BAY (807) 345-2233

DESIGNED BY	RKe	CHECKED BY	RKe
DRAWN BY	PD	APPROVED BY	
HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION:	
VERTICAL:	AS NOTED		
		DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
R.M. KENYON
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
04-0107-13_07R0

Winnipeg

THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT

VALHALLA DRIVE OUTFALL
RIVERBANK STABILITY IMPROVEMENTS

PLAN AND SECTION A

SHEET 07 OF 09
CAD FILE DRAWING NUMBER 04-0107-13
CITY DRAWING NUMBER LD-3079