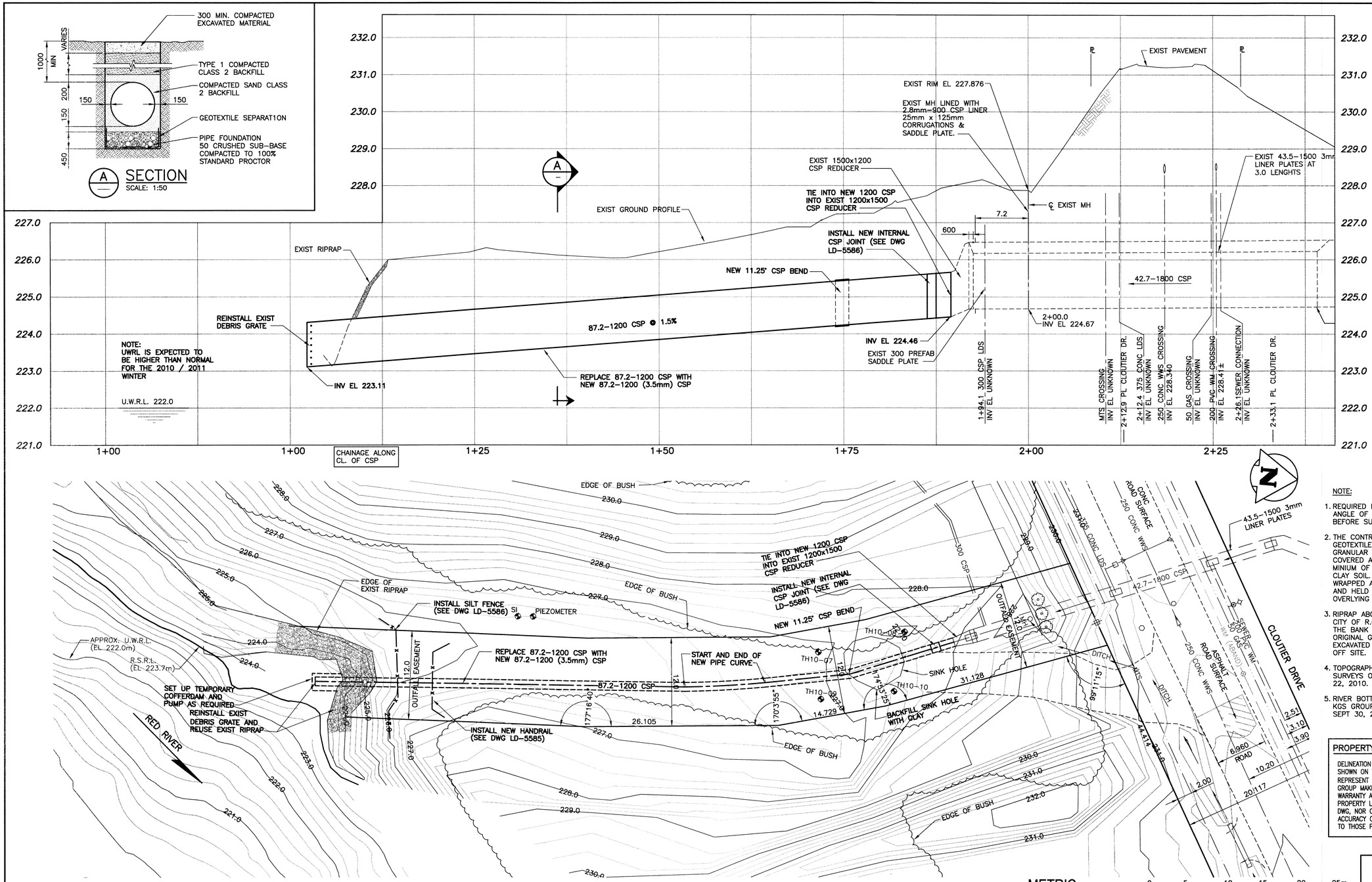

NOTE:

1. REQUIRED LENGTH, LOCATION AND ANGLE OF BEND TO BE FIELD VERIFIED BEFORE SUBMITTAL OF SHOP DRAWINGS
2. THE CONTRACTOR SHALL PLACE GEOTEXTILE SUCH THAT THE PIPE GRANULAR BACKFILL IS COMPETELY COVERED AND THE FABRIC EXTENDS A MINIUM OF 1.0m ONTO THE ADJACENT CLAY SOIL. THE FABRIC SHALL BE WRAPPED AROUND THE OUTFALL PIPE AND HELD IN PLACE WITH THE OVERLYING RIPRAP.
3. RIPRAP ABOVE THE UWRL WITHIN THE CITY OF R.O.W. TO BE SUBCUT INTO THE BANK AND PLACED FLUSH WITH ORIGINAL GROUND SURFACE. ALL EXCAVATED MATERIAL TO BE REMOVED OFF SITE.
4. TOPOGRAPHY BASED ON KGS GROUP SURVEYS OF OCT 22, 2010 AND NOV 22, 2010.
5. RIVER BOTTOM CONTOURS BASED ON KGS GROUP BATHYMETRIC SURVEY OF SEPT 30, 2010.

PROPERTY LIMITS DELINEATION

DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

CLOUTIER DRIVE OUTFALL RR-7

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

0 5 10 15 20 25m
SCALE: 1:250 METRIC A1
1:500 METRIC A3

APEGM
Certificate of Authorization
KGS Group
No. 245 Date: Dec 6, 2010

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)			

COWLEGEND

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. KGS BASE ELEV.
DWGS BASED ON C.S.R.S. NAD 83 SYSTEM, UTM GRID

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	10/12/08	RBO

KGS GROUP CONSULTING ENGINEERS

DESIGNED BY: RBO
DRAWN BY: DMW
HOR. SCALE: 1:250
VERTICAL: 1:50
DATE: 10/10/12
CHECKED BY: RBO
APPROVED BY:
RELEASED FOR CONSTRUCTION:
DATE:

ENGINEER'S SEAL
PROVINCE OF MANITOBA
R.B. OFFMAN
Member 24701
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
10-0107-18_01

Winnipeg
THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT

2010 OUTFALL REPAIRS
CLOUTIER DRIVE RR-7

PROPOSED PLAN AND PROFILE

SHEET 01 OF 05
CAD FILE DRAWING NUMBER 05-0107-11
CITY DRAWING NUMBER LD-5581