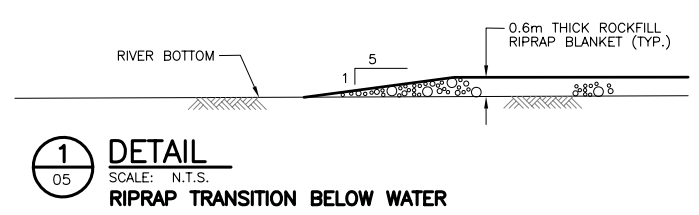
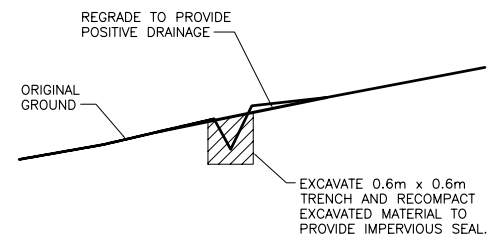


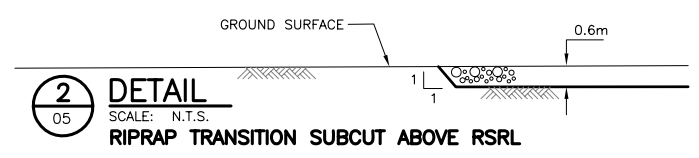
A SECTION
05



1 DETAIL
SCALE: N.T.S.
RIPRAP TRANSITION BELOW WATER



3 DETAIL
SCALE: N.T.S.
TENSION CRACK



2 DETAIL
SCALE: N.T.S.
RIPRAP TRANSITION SUBCUT ABOVE RSRL

LEGEND

UWRL	UNREGULATED WINTER RIVER LEVEL
RSRL	REGULATED SUMMER RIVER LEVEL
	PNEUMATIC PIEZOMETER WITH MEASURED GROUNDWATER LEVEL (SEPTEMBER, 2005)
	PIEZOMETER TIP LOCATION

- NOTES**
- REGULATED SUMMER RIVER LEVEL (RSRL) REFERS TO REGULATION OF THE RED RIVER LEVEL TO APPROXIMATE EL. 223.75 m. AT THE CITY OF WINNIPEG JAMES AVENUE PUMPING STATION BY OPERATION OF THE ST. ANDREWS LOCK AND DAM.
 - UNREGULATED WINTER RIVER LEVEL (UWRL) REFERS TO THE NATURAL UNREGULATED LEVEL OF THE RED RIVER WHEN THE ST. ANDREWS LOCK AND DAM IS NOT OPERATING. ACTUAL RIVER LEVELS AT THE SITE MAY VARY FROM THOSE SHOWN ON THE DRAWING.
 - RIPRAP ABOVE EL. 223.7 m SHALL BE SUB-CUT INTO THE BANK AND PLACED FLUSH WITH THE ORIGINAL GROUND SURFACE. ALL EXCAVATED SOIL SHALL BE REMOVED OFF SITE. EXISTING CONCRETE RUBBLE AND/OR LIMESTONE RIPRAP SHALL BE SALVAGED AND BLENDED INTO THE NEW RIPRAP TO FORM A SMOOTH UNIFORM GRADE.
 - INTERPRETATION OF THE STRATIGRAPHY BASED ON KGS GROUP TEST HOLE DRILLING, OCTOBER 2004.
 - REMOVE PIPE OUTLET TO ALLOW FOR ROCKFILL COLUMN INSTALLATION.
 - TEMPORARILY REMOVE AND STOCKPILE EXISTING RIPRAP WITHIN LIMITS OF ROCKFILL COLUMNS. REPLACE RIPRAP TO EXISTING GRADE FOLLOWING INSTALLATION OF ROCKFILL COLUMNS.
 - WHERE REQUIRED LOCALLY REVISE TOP OF RIPRAP ELEVATION TO BEST SUIT EXISTING TREES.
 - RIVERBANK ABOVE EL. 227.7m± SHALL BE REVEGETATED WITH TOPSOIL AND SOD TO MATCH EXISTING SOD AREA. BELOW EL. 227.7m± SHALL BE REVEGETATED WITH NATIVE GRASSES DOWN TO THE EXISTING VEGETATION ALONG THE SHORELINE.
 - GEOTEXTILE TO BE PLACED SUCH THAT THE PIPE GRANULAR BACKFILL AND TOP OF CLAY CAP ARE COMPLETELY COVERED AND THE FABRIC EXTEND A MINIMUM OF 1.0m ONTO THE ADJACENT NATIVE SOILS.

WARNING

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.

APEGM
Certificate of Authorization
KGS Group
No. 245 Date: 16/12/08

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

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. 34-013	ELEV. 230.472m	365 (043360) - E. SIDE TACHE AVE. N. OF RUE DESPINS, 180m IN 7.5m CONC. PIPE, 30.1m N. OF ALL. RUE DESPINS & 9.6m N. OF E.C. OF TACHE AVE., 015mm LB. ON N. SIDE OF PIPE TO LOCATE SAME.
NO.	REVISIONS	DATE BY
0	ISSUED FOR TENDER	16/12/08 R/g

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

DESIGNED BY: CWC/RD	CHECKED BY: CWC
DRAWN BY: PD	APPROVED BY:
HOR. SCALE: 1:250	RELEASED FOR CONSTRUCTION: DATE
VERTICAL:	

ENGINEER'S SEAL

ORIGINAL SIGNED BY
R.M. KEYON
16/12/08

CONSULTANT DRAWING NO.
08-0107-12_08

THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT

2008 OUTFALL REPAIRS RUE DESPINS

SECTIONS AND DETAILS

SHEET **06** OF **09**

CAD FILE DRAWING NUMBER
RR_54-55 DETAILS

CITY DRAWING NUMBER
LD-5243