



- NOTE:**
- SITE PLAN BASED ON 1998 DIGITAL ORTHOGRAPHIC MAPPING AND 2004/2005 KGS GROUP TOPOGRAPHIC SURVEY. RIVERBOTTOM BASED ON KGS SURVEY, OCTOBER 2005.
 - NO TREES SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF THE CONTRACT ADMINISTRATOR.
 - CONSTRUCTION OF THE ROCKFILL COLUMNS SHALL BE COMPLETED PRIOR TO REPLACEMENT OF THE OUTFALL PIPE OUTLET.
 - SURVEY CONTROL WILL BE PROVIDED BY THE CONTRACT ADMINISTRATOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE WORK AND ANY ONGOING SURVEY DURING CONSTRUCTION.
 - CONTRACTOR SHALL REMOVE AND RECONSTRUCT EXISTING PATIO IN ACCORDANCE WITH SPECIFICATIONS.
 - WITHIN LIMITS OF BANK WORKS, REMOVE EXISTING CHAIN LINK FENCE AND PROVIDE NEW FENCE IN ACCORDANCE WITH SPECIFICATIONS.
 - LOCALLY REVISE RIPRAP TOP ELEVATION TO SUIT BASE OF TREES. CARE SHALL BE TAKEN WHEN PLACING RIPRAP ALONG SHORELINE TO AVOID DAMAGE TO EXISTING TREES LOCATED ALONG TOP OF BANK.
 - BLENDED NEW RIPRAP WITH EXISTING CONCRETE PAD TO PROVIDE A SMOOTH UNIFORM GRADE.
 - CONTRACTOR SHALL PROVIDE TEMPORARY SHORING WITHIN LIMITS OF PIPE REPLACEMENT IN ACCORDANCE WITH CW 2030.
 - RIVERBANK AT 1180 KILDONAN DRIVE SHALL BE REVEGETATED WITH TOPSOIL AND SOD. RIVERBANK AT RIGHT-OF-WAY AND 1178 KILDONAN DRIVE SHALL BE REVEGETATED WITH TOPSOIL AND SOD ABOVE THE EXISTING HEAD SCARP AND REVEGETATED WITH TOPSOIL AND SEED BELOW.



APEGM
 Certificate of Authorization
 KGS Group
 No. 245 Expiry: April 30, 2008

150 WM	WATERMAIN	150 WM	HYDRO M.T.S.	230	GROUND CONTOUR
300 LGS	LAND DRAINAGE SEWER	300 LGS	PROPERTY LINE	SI-5	SLOPE INCLINOMETER
250 WWS	WASTE WATER SEWER	250 WWS	SURVEY BAR	PN-5	PNEUMATIC PIEZOMETER
	MANHOLE		LIGHT STANDARD	SP-3	STANDPIPE PIEZOMETER
	CATCH BASIN		HYDRO POLE		GUY WIRE
	CURB INLET		SIGN		EXISTING BUILDING
	JUNCTIONS		BUSH LINE		TREE
	CULVERT		FENCE		TREE TO BE REMOVED
	GAS		ELEVATION		TIMBER PILE
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. XX-XXX	ELEV. XXX.XXX				
0	ISSUED FOR CONSTRUCTION	05/12/07	CWC		
NO.	REVISIONS	DATE	BY	DATE	05/11/18

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

DESIGNED BY CWC
 CHECKED BY CWC
 DRAWN BY EC/ESM
 APPROVED BY

HOR. SCALE: 1:200
 VERTICAL: --

RELEASED FOR CONSTRUCTION: DATE

CONSULTANT DRAWING NO.
05-0107-13.14_G11

THE CITY OF WINNIPEG
 WATER & WASTE DEPARTMENT

HAWTHORNE FLOOD PUMPING STATION UPGRADE

SHORELINE PROTECTION PLAN

DETAILED SITE PLAN

SHEET	05	OF	24
CAD FILE DRAWING NUMBER	05-0107-13.14_G11		
CITY DRAWING NUMBER	LD-3242		

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