

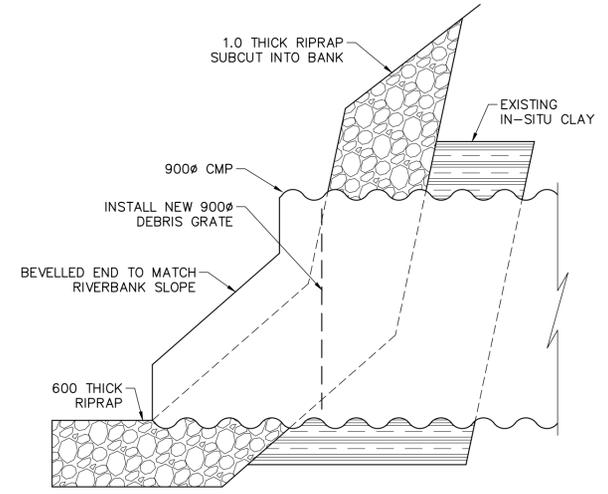
NOTE: CHAINAGES SHOWN ARE ALONG ϕ EXISTING OUTFALL

SUBSTRATE TYPES BELOW ICE SCOUR AFFECTED BY THE PROJECT		
EXISTING SUBSTRATE	PERMANENT AREA (m ²)	TEMPORARY AREA (m ²)
SAND WITH SILT ON TOP	0.0	0.0
TOTAL AREA AFFECTED	0.0	0.0

SUBSTRATE LEGEND	
	CLAY WITH SILT ON TOP



PIPE OUTLET
DATE 2020-09



CULVERT END DETAIL
SCALE: N.T.S.

- NOTES:
- ALL EXCAVATED MATERIAL WITHIN 107.0 OF THE ASRL MUST BE REMOVED FROM SITE (NO STOCKPILING).
 - CONSTRUCT CLAY COFFERDAM AT RIVER AS REQUIRED (SEE DWG 1-03030-C0063-001).
 - CONTRACTOR TO COMPLETE SEWER INSPECTION OF OUTFALL FOLLOWING COMPLETION OF CLEANING WORKS.
 - CONTRACTOR TO PROVIDE AND INSTALL PROPER WARNING SIGNS ALONG PEDESTRIAN PATHWAY CONCERNING WORK SITE.
 - CONTRACTOR TO PROVIDE ALTERNATE PEDESTRIAN ACCESS AS REQUIRED.
 - CONTRACTOR TO RESTORE SITE, INCLUDING ROAD, CURBS, PATHWAY, AND LANDSCAPING FEATURES, TO PRE-CONSTRUCTION CONDITION.
 - OUTFALL CLEANING TO USE HDD CLEANING METHOD AS PIPE IS MORE THAN 50% FULL OF SEDIMENT.
 - CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF GAS MAIN USING SOFT DIGGING METHODS PRIOR TO CONSTRUCTION. COORDINATION FOR HYDRO WATCH (AS REQUIRED) IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - PERMITS AS REQUIRED FOR CONSTRUCTION OF TEMPORARY ACCESS IS THE RESPONSIBILITY OF THE CONTRACTOR.



LOOKING EAST ALONG SHORELINE
DATE 2020-09



NOTE: SUITABLE ACCESS EXISTS FROM GLENWOOD CRESCENT. CONTRACTOR TO REMOVE AND REPLACE WOODEN BOLLARDS AS REQUIRED

PLAN
SCALE 1:250

ES ENGINEERS
GEOSCIENTISTS
MANITOBA
Certificate of Authorization
KGS Group
No. 245

FOR INDEX PAGE SEE DWG
1-03030-D0009-001

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

WARNING

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

- 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

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. ELEV.	NO.	ISSUED FOR TENDER	DATE	BY
	0	ISSUED FOR TENDER	2021 11 05	
		REVISIONS	DATE	BY

KGS GROUP

DESIGNED BY	NGV	CHECKED BY	
DRAWN BY	GEL	APPROVED BY	
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL	1:250	DATE	2021 11 04
VERTICAL	1:50	DATE	

PLOT DATE: 2021 11 04

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER
1-03030-C0059-001

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2020-2021 OUTFALL PROGRAM
EROSION PROTECTION
300 BREDIN DRIVE OUTFALL
PLAN AND PROFILE
S-MA40005212

SHEET 22 OF 26
CITY DRAWING NUMBER
1-03030-C00659-001