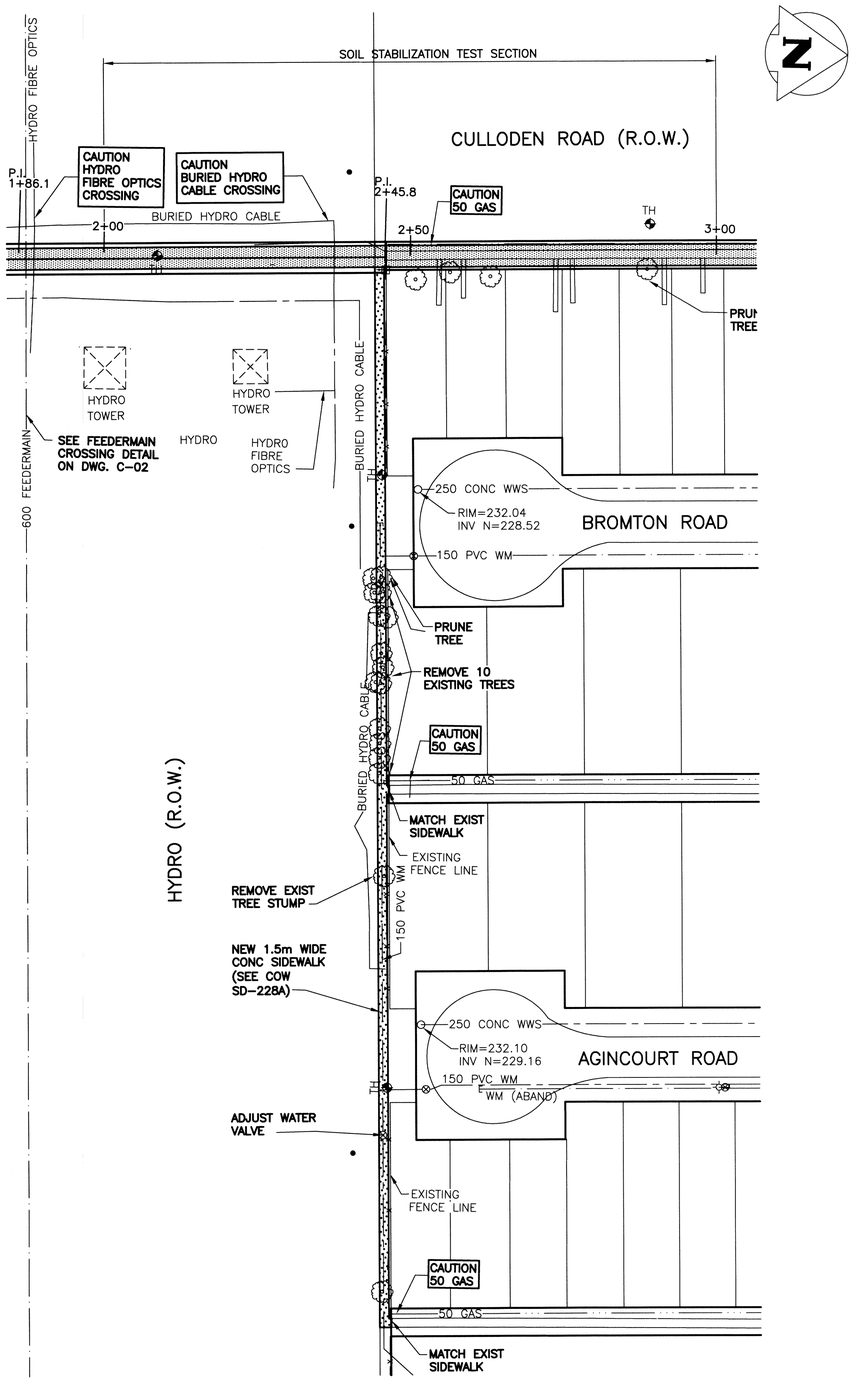
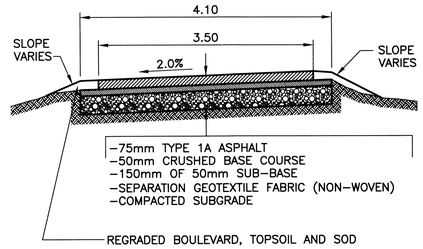
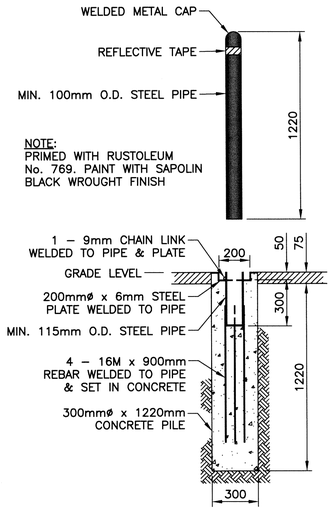


CONCRETE SIDEWALK PLAN
SCALE 1:500



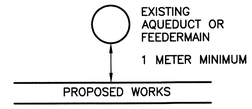
TYPICAL PATH SECTION
SCALE: NTS



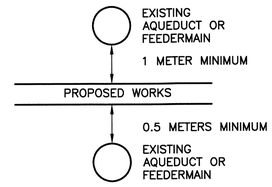
REMOVABLE BOLLARD DETAIL
SCALE: 1:20

- CONTACT THE WATER AND WASTE DEPARTMENT'S CONSTRUCTION SERVICES COORDINATOR AT 204-986-4289, 7 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR AN INSPECTION.
- PRIOR TO ANY CONSTRUCTION, THE AQUEDUCT OR FEEDERMAIN MUST BE EXPOSED BY A SOFT DIG METHOD SO AS TO CONFIRM DEPTH AND LOCATION.
- A MINIMUM CLEARANCE OF 1.0 METER MUST BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING AQUEDUCT OR FEEDERMAIN AND THE TOP OF THE PROPOSED WORKS. THIS INSTALLATION BY TRENCHLESS METHOD ONLY.

A MINIMUM CLEARANCE OF 1.0 METER MUST BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING AQUEDUCT OR FEEDERMAIN AND THE TOP OF THE PROPOSED WORKS. THIS INSTALLATION BY TRENCHLESS METHOD ONLY.



A MINIMUM CLEARANCE OF 0.5 METERS MUST BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING AQUEDUCT OR FEEDERMAIN BY TRENCHLESS OR OPEN TRENCH.



- A SHAFT MUST BE EXCAVATED BY SOFT DIG METHODS 4.0 METERS FROM THE CENTRELINE OF THE AQUEDUCT AND/OR FEEDERMAIN TO CONFIRM THE ALIGNMENT AND ELEVATION OF THE DRILLING ROD BEFORE IT CROSSES OVER OR UNDER THE AQUEDUCT AND/OR FEEDERMAIN. THIS CONFIRMATION MUST BE WITNESSED BY A CITY REPRESENTATIVE.

AQUEDUCT & FEEDERMAIN CROSSING DETAIL
SCALE: NTS

NOTES:

1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR TO VERIFY DEPTH OF UTILITIES PRIOR TO CONSTRUCTION.
3. 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 GIVEN LOCATIONS ARE EXACT. CONFORMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR COSTS ACQUIRED BY HYDRO SAFETY WATCH.
5. EXCAVATED MATERIAL TO BE USED AS BACKFILL WHERE REQUIRED.
6. ALL SURFACES TO BE MAINTAINED OR RESTORED TO PREVIOUS CONDITION OR BETTER.
7. REFER TO CITY OF WINNIPEG E-SPEC FOR INSTALLATION OF DETECTABLE WARNING SURFACE TILES

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

0 10 20 30 40 50m
SCALE: 1:500 METRIC A1
1:1000 METRIC A3

APEGM
Certificate of Authorization
KGS Group
No. 245

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.

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 WM	WATERMAIN	150 WM		HYDRO		150 WM	WATERMAIN	150 WM
	HYDRANT			M.T.S.		±, X	HYDRANT, VALVE	±, X
⊗	VALVE	⊗		CONCRETE		300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT		250 WWS	WASTE WATER SEWER	250 WWS
250 WWS	WASTE WATER SEWER	250 WWS		SIDEWALK		X	℄ PROFILE	
○	MANHOLE	●		KGS TEST HOLE		□	NORTH/WEST GUTTER	
□	CATCH BASIN	■		PROPERTY LINE		○	SOUTH/EAST GUTTER	
▽	CURB INLET	▼		SURVEY BAR		◇, ○	N/W, S/E R'S	
	JUNCTIONS			DITCH		□, ○	N/W, S/E TOP/CURB	
	CULVERT		231.334	ELEVATION	32.231	△	NORTH/WEST DITCH	
	GAS					▽	SOUTH/EAST DITCH	

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. 55-056
81R904 - N.W. COR. BEAVERHILL BLVD. & C.P.R. EMERSON LINE, TBLT. ON TOP OF 0.05m DIA. x 2.4m IRON PIPE, 10.68m W. OF W. RAIL OF RAILWAY TRACKS & 8.78m N. OF C.L. CONC. PAV'T. BEAVERHILL BLVD., OR 3.8m E. OF W.L. OF C.P.R. EMERSON R.O.W. & 6.4m S. OF N.L. OF BEAVERHILL BLVD.
ELEV. 232.913m

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	13/01/23	CR

KGS GROUP CONSULTING ENGINEERS
SCATLIFF + MILLER + MURRAY Inc.
TEL 204 927-3444 FAX 204 927-3443
II - 138 MARKET AVENUE WINNIPEG, MB, CANADA

DESIGNED BY AKW	CHECKED BY CR
DRAWN BY DMW	APPROVED BY RJH
HOR. SCALE: 1:500 VERTICAL: 1:20	RELEASED FOR CONSTRUCTION:
DATE 12/06/11	DATE

ENGINEER'S SEAL
PROVINCE OF MANITOBA
M.C. ROWBOTHAM
Member 22679
REGISTERED PROFESSIONAL ENGINEER
JANUARY 24, 2013

CONSULTANT DRAWING NO.
12-0107-005

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

PROJECT TITLE
MULTI-USE PATH AND NAVIN DRAIN
C.I.P. CONCRETE CULVERT
BISHOP GRADIN BLVD/SHOREHILL DR
TO BEAVERHILL BLVD
MISCELLANEOUS DETAILS

SHEET	OF
02	09

COMPUTER FILE NAME
12-0107-005

CITY DRAWING NUMBER
C-02

P:\Projects\2012\12-0107-005\Doc Control\Tabsissued\DWG\12-0107-005_C02-Rev 0.dwg - Tab: C02 Plotted By: DDeroche 01/24/2013 [Thu 8:27am]
COWLEGEND