

**DRAWING INDEX**

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	LD-9553	COVER SHEET
2	LD-9554	INDEX PAGE
3	LD-9555	HAMILTON AVENUE BRIDGE OUTFALLS - PLAN AND PROFILE - S-MA70138632 AND S-MA70138633
4	LD-9556	HAMILTON AVENUE BRIDGE OUTFALLS - GEOTECHNICAL WORKS
5	LD-9557	HAMILTON AVENUE BRIDGE OUTFALLS - PATHWAY RECONSTRUCTION
6	LD-9558	MISCELLANEOUS DETAILS

**ABBREVIATIONS**

ABAND	ABANDONED
AC	ASBESTOS CEMENT
BLDG	BUILDING
B.M.	BENCH MARK
CB	CATCH BASIN
CI	CURB INLET
CI	CAST IRON
CL	CENTER LINE
CONC	CONCRETE
CRN	CORNER
CS	COMBINED SEWER
C/S OR S/C	CURB STOP
CULV	CULVERT
C/W	CONSTRUCTED WITH
DI	DUCTILE IRON
E	EAST
ELEV	ELEVATION
EXIST	EXISTING
FIBRE	FIBRE OPTIC
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM
HDPE	HIGH DENSITY POLYETHYLENE
HORZ.	HORIZONTAL
HSE	HOUSE
HYD	HYDRANT
I.B.	IRON BAR
INV	INVERT
LDS	LAND DRAINAGE SEWER
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MTS	MANITOBA TELEPHONE SYSTEM
N	NORTH
OPP	OPPOSITE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
R.O.W.	RIGHT-OF-WAY
S	SOUTH
SL	STREET LIGHTING
TH	TEST HOLE
TS	TRAFFIC SIGNALS
TYP	TYPICAL
VC OR CLAY	VITRIFIED CLAY
VERT.	VERTICAL
W	WEST
W/	WITH
WM	WATER MAIN
WWS	WASTE WATER SEWER
X-ING	CROSSING

**LEGEND**

DESCRIPTION	PLAN VIEW	
	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT		
VALVE		
CURB STOP		
REDUCER		
COUPLING OR SLIDER		
CROSS		
BEND - 11.25', 22.5', 45', 90'		
TEE		
VERTICAL BEND		
ANODE		
REPAIR MARKER		
PLUG		
SEWER PIPE		
MANHOLE		
CATCH BASIN		
CURB INLET		
JUNCTION		
∅ DITCH		
CULVERT		
SURVEY BAR		
SURVEY MONUMENT		
TREE - DECIDUOUS		
TREE - CONIFEROUS		
HYDRO		
HYDRO POLE		
LAMP STANDARD		
HYDRO POLE W/STREET LIGHTING		
POLE		
GUY ANCHOR		
M.T.S. POLE		
PEDESTAL OR BOX		
CABINET		
M.T.S., SHAW, OR VIDEO		
TRAFFIC SIGNALS		
TRAFFIC LIGHT STANDARD		
GAS		
STEAM		
FIBRE OPTIC		
FENCE		
EDGE OF PAVEMENT OR GUTTER		
EDGE UNPAVED OR GRAVEL ROAD		
∅		
PROJECTED ∅		
LOT LINE		
SIDEWALK - PATHWAY		
EASEMENT		
EDGE OF BUILDING		
MAILBOX		
PARKING METER		
TEST HOLE		
TREE LINE OR BUSH		
ROCK COLUMN		

**HATCH PATTERNS**

EXISTING	PROPOSED	DESCRIPTION
		EARTH OR GROUND ABOVE PIPE
		SAND OR OTHER FINE MATERIAL
		CONCRETE
		WASHED STONE OR GRANULAR MATERIAL
		INTERLOCKING STONE
		METAL
		GRAVEL OR STONE
		RIPRAP

**PROFILE**

DESCRIPTION	PROFILE	
	EXISTING	PROPOSED
WATER PIPE		
HYDRANT TOP		
VALVE		
TEE OR CROSS		
COUPLING OR BEND		
REDUCER		
END OF PIPE		
SEWER PIPE		
UNPAVED GROUND SURFACE		
PAVED GROUND SURFACE - ∅ PIPE		
GUTTER (NORTH AND WEST)		
GUTTER (SOUTH AND EAST)		
∅ DITCH (NORTH AND WEST)		
∅ DITCH (SOUTH AND EAST)		
STRUCTURE		
MANHOLE OR CATCH BASIN		

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

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	REVISIONS
		2019 11 26		RBO	

DESIGNED BY	NGV	CHECKED BY	RBO
DRAWN BY	GEL	APPROVED BY	
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL	NA		
VERTICAL	NA		
DATE	2019 11 26	DATE	

ENGINEER'S SEAL

**PROVINCE OF MANITOBA**  
**R.B. OFFMAN**  
 Member  
 24701  
 REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER  
 LD-9554

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT  
 ENGINEERING DIVISION

**Winnipeg**

HAMILTON AVENUE BRDGE OUTFALLS  
 RENEWAL AND REHABILITATION

INDEX PAGE

SHEET 2 OF 6  
 CITY DRAWING NUMBER  
 LD-9554