

DRAWING INDEX

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ABBREVIATIONS

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

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 - Ø PIPE		
GUTTER (NORTH AND WEST)		
GUTTER (SOUTH AND EAST)		
Ø DITCH (NORTH AND WEST)		
Ø DITCH (SOUTH AND EAST)		
STRUCTURE		
MANHOLE OR CATCH BASIN		

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

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.
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.		
NO.	REVISIONS	DATE BY
1	REISSUED FOR TENDER	2019 11 25
0	ISSUED FOR TENDER	2019 11 15

DESIGNED BY	NGV	CHECKED BY	RBO
DRAWN BY	GEL	APPROVED BY	RBO
SCALE:		RELEASED FOR CONSTRUCTION	KZ
HORIZONTAL	NA	DATE	2019 11 14
VERTICAL	NA	DATE	2019 11 14

ENGINEER'S SEAL

 CONSULTANT DRAWING NUMBER
 LD-9566

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENGINEERING DIVISION

LODGE AVENUE OUTFALL
 RENEWAL AND REHABILITATION

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