

DRAWING INDEX

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ABBREVIATIONS

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

LEGEND

DESCRIPTION	ABANDONED	EXISTING	PROPOSED
WATER PIPE			
FIRE HYDRANT		⊕	⊕
VALVE	⊗	⊗	⊗
CURB STOP	⊙	⊙	⊙
REDUCER	△	△	△
COUPLING OR SLIDDER		X	X
CROSS	⊕	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H A A A A	H A A A A	H A A A A
TEE	H	H	H
VERTICAL BEND	H	H	H
ANODE		⤵	⤵
REPAIR MARKER		⊕	⊕
PLUG	J	J	J
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.			
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			
TEST HOLE			
TREE LINE OR BUSH			

CONSTRUCTION NOTES

- ALL PIPE SHALL HAVE CLASS B - TYPE 2 BEDDING
- INSTALL SEWER BY TRENCHLESS METHODS.
- CONFIRM THE LOCATION OF ALL SEWER SERVICES.
- BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT TO BE CLASS 3.
- BACKFILL IN BOULEVARD TO BE CLASS 5.
- RENEW SEWER SERVICES TO ℄.
- INSTALL SEWER SERVICE RISERS TO ELEVATION WHERE MINIMUM SLOPE OF 1% IS MAINTAINED FOR ALL SERVICES.

HATCH PATTERNS

AREA OF REPAIR ON PIPE

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.	REVISIONS	DATE	BY

DESIGNED BY	SC	CHECKED BY	SC
DRAWN BY	RS	APPROVED BY	KZ
SCALE: HORIZONTAL VERTICAL		RELEASED FOR CONSTRUCTION	S. COURNOYER
DATE	2019 07 12	DATE	2019 07 12

ENGINEER'S SEAL
ORIGINAL SIGNED BY S.R.J. COURNOYER 19/07/12
 CONSULTANT DRAWING NUMBER

THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

2018 SEWER MAIN RENEWALS
CONTRACT 5

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