## **DRAWING INDEX**

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## **LEGEND**

PLAN VIEW

		DESCRIPTION	ABANDONED	EXISTING	PROPOSED
		WATER PIPE	·	·	
<b>ABBREVIATIONS</b>		FIRE HYDRANT		<b>-</b>	+
		VALVE	$\otimes$	$\otimes$	8
wws	WASTE WATER SEWER	CURB STOP	ď	o^	<b>€</b>
CS	COMBINED SEWER	REDUCER	$\triangleleft$	$\triangleleft$	◀
LDS	LAND DRAINAGE SEWER	COUPLING OR SLIDDER		X	χ
P.	PROPERTY LINE	CROSS	<b>±</b>	垂	<b>⊕</b>
Ę.	CENTER LINE	BEND - 11.25°, 22.5°, 45°, 90°	H H 4 4	н ч ч ч	н ч ч
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM	TEE	凸	西	宀
В.М.	BENCH MARK	VERTICAL BEND	Н	н	н
TH	TEST HOLE	ANODE		P	₹
ELEV	ELEVATION	REPAIR MARKER		♥	
INV	INVERT	PLUG	]	ت ت	3
MIN	MINIMUM	SEWER PIPE			
MAX	MAXIMUM	MANHOLE	0	0	•
		CATCH BASIN			
SL	STREET LIGHTING	CURB INLET	$\nabla$	$\nabla$	_ ▼
TS	TRAFFIC SIGNALS	OOND INCE			I I
ABAND	ABANDONED	JUNCTION			<del></del>
BLDG	BUILDING	€ DITCH		<b>→ → → →</b>	$\rightarrow$ $\rightarrow$ $\rightarrow$ -
HSE	HOUSE	CULVERT			r
CRN	CORNER	SURVEY BAR		<del>+</del>	±
OPP	OPPOSITE			<b>(A)</b>	<b>*</b>
c/s or s/c	CURB STOP	SURVEY MONUMENT			9
MTS	MANITOBA TELEPHONE SYSTEM	TREE - DECIDUOUS		( · )	
R.O.W.	RIGHT-OF-WAY				
WM	WATERMAIN	TREE - CONIFEROUS			
CULV	CULVERT	LIVERA			
мн	MANHOLE	HYDRO		•	
СВ	CATCH BASIN	HYDRO POLE		•H ••	
CI	CURB INLET	LAMP STANDARD		Н●	
VERT.	VERTICAL	HYDRO POLE W/STREET LIGHTING		•	
HORZ.	HORIZONTAL	POLE		<u></u>	
I.B.	IRON BAR	GUY ANCHOR			
FIBRE	FIBRE OPTIC	M.T.S. POLE		•M ⊠	
TYP	TYPICAL	PEDESTAL OR BOX			
X-ING	CROSSING	CABINET			
HYD	HYDRANT	W.T.O. O. W. O. W.T.O.			
EXIST	EXISTING	M.T.S., SHAW, OR VIDEON			
N	NORTH	TRAFFIC SIGNALS			
Е	EAST	TRAFFIC LIGHT STANDARD			
S	SOUTH	GAS			
W	WEST	STEAM			
W/	WITH	FIBRE OPTIC			
C/W	CONSTRUCTED WITH	FENCE		xx	xx
CONC	CONCRETE	EDGE OF PAVEMENT OR GUTTER			
AC	ASBESTOS CEMENT	EDGE UNPAVED OR GRAVEL ROAD			
VC OR CLAY	VITRIFIED CLAY	₽			
CI	CAST IRON	PROJECTED PL			
DI	DUCTILE IRON	LOT LINE			
PVC	POLYVINYL CHLORIDE	SIDEWALK - PATHWAY			
HDPE	HIGH DENSITY POLYETHYLENE	EASEMENT			
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE	EDGE OF BUILDING			
		MAILBOX		M	
		PARKING METER		P	
		TEST HOLE		<b>•</b>	<b>*</b>
		TREE LINE OR BUSH		~~~~~	

## **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

## **CONSTRUCTION NOTES**

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

DESCRIPTION	ABANDONED	EXISTING	PROPOSED
WATER PIPE			1
HYDRANT TOP		+	+
VALVE			X
TEE OR CROSS	0	0	
COUPLING OR BEND			
REDUCER			
END OF PIPE		8	8
SEWER PIPE			
UNPAVED GROUND SURFACE			
PAVED GROUND SURFACE - & PIPE		xx	
GUTTER (NORTH AND WEST)		<del></del>	
GUTTER (SOUTH AND EAST)		<del></del>	
© DITCH (NORTH AND WEST)		<u>\\</u>	
© DITCH (SOUTH AND EAST) STRUCTURE			
			!
MANHOLE OR CATCH BASIN			

**PROFILE** 

LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.							ENGINEER'S SEAL
SUPV. U/G STRUCTURES DATE						_		ORIGINAL SIGNED BY
NOTE:					DESIGNED TP	CHECKED BY	SC	S.R.J. COURNOYER
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION					DRAWN BY RS	APPROVED BY	KZ	18/02/21
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					SCALE: HORIZONTAL 1: 250 VERTICAL 1: 50	RELEASED FOR CONSTRUCTION KAS	ZUREK	CONSULTANT DRAWING NUMBER
UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	NO	DEVICIONS	DATE	DV	DATE 2019 02 27		0018 02 27	_

Winnipeg

THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

2017 SEWER MAIN RENEWALS CONTRACT 6

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