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ABBREVIATIONS

WWS	WASTE WATER SEWER		
CS	COMBINED SEWER		
LDS	LAND DRAINAGE SEWER		
PL	PROPERTY LINE		
Ę.	CENTER LINE		
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM		
B.M.	BENCH MARK		
TH	TEST HOLE		
ELEV	ELEVATION		
INV	INVERT		
MIN	MINIMUM		
MAX	MAXIMUM		
SL	STREET LIGHTING		
TS	TRAFFIC SIGNALS		
ABAND	ABANDONED		
BLDG	BUILDING		
HSE	HOUSE		
CRN	CORNER		
OPP	OPPOSITE		
C/S OR S/C	CURB STOP		
MTS	MANITOBA TELEPHONE SYSTEM		
R.O.W.	RIGHT-OF-WAY		
WM	WATERMAIN		
CULV	CULVERT		
мн	MANHOLE		
СВ	CATCH BASIN		
CI	CURB INLET		
VERT.	VERTICAL		
HORZ.	HORIZONTAL		
I.B.	IRON BAR		
FIBRE	FIBRE OPTIC		
TYP	TYPICAL		
X-ING	CROSSING		
HYD	HYDRANT		
EXIST	EXISTING		
N	NORTH		
Е	EAST		
S	SOUTH		
W	WEST		
W/	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		
. 551	THE THEOSED CONSIDER FIFE		

LEGEND

	PLAN VIEW	
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT	- \(-	+
VALVE	\otimes	⊗
CURB STOP	o`	•
REDUCER	\triangleleft	•
COUPLING OR SLIDDER	χ	χ
CROSS	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H H H T	H H H T
TEE	д	H
VERTICAL BEND	п	н
ANODE		₹
REPAIR MARKER	8	_
PLUG]	3
SEWER PIPE		
MANHOLE	0	_
CATCH BASIN	_	_
CURB INLET	∇	▼ .
JUNCTION		
€ DITCH		***************************************
CULVERT		
SURVEY BAR	#	+
SURVEY MONUMENT		(A)
TREE - DECIDUOUS		
	h.d	
TREE - CONIFEROUS		
HYDRO		
HYDRO POLE	<u> </u>	
HYDRO POLE LAMP STANDARD	•H	
HYDRO POLE W/STREET LIGHTING	H a_a	
POLE POLE W/STREET LIGHTING	·· ·	
GUY ANCHOR	↓ <u></u>	
M.T.S. POLE	•M ⊠	
PEDESTAL OR BOX		
CABINET		
M.T.S., SHAW, OR VIDEON		
TRAFFIC SIGNALS		
TRAFFIC LIGHT STANDARD	•→	
GAS		
STEAM		
FIBRE OPTIC		
FENCE		
EDGE OF PAVEMENT OR GUTTER		
EDGE UNPAVED OR GRAVEL ROAD		
면		
PROJECTED PL		
LOT LINE		
SIDEWALK - PATHWAY		
EASEMENT		
EDGE OF BUILDING		
MAILBOX	M	
PARKING METER	M P	
TEST HOLE	₽	A
TREE LINE OR BUSH	V	₩
THE LINE ON BOOM		
	PROFILE	
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
		1
HYDRANT TOP	+	+
VALVE		<u> </u>
**		
TEE OR CROSS		

CONSTRUCTION NOTES

- 1. EXPOSE EXISTING WATERMAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
- 2. LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
- 3. INSTALL WATERMAIN BY TRENCHLESS METHODS.
- 4. TRENCHES AND EXCAVATIONS WITHIN 1 METRE OF A PAVED AREA INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL.
- 5. ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- 6. MINIMUM COVER TO TOP OF WATERMAIN SHALL BE 2.4 m.
- 7. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATERMAIN TO P.
- 8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

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

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

ENGINEER'S SEAL LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE DESIGNED CHECKED TS SC APPROVED DRAWN ΚZ LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL SCALE: RELEASED FOR 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 CONSTRUCTION HORIZONTAL 1: 250 CONSULTANT DRAWING NUMBER KAS ZUREK 1:50 VERTICAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. DATE 2017 05 18 DATE 2017 05 18

Winnipeg

ORIGINAL SIGNED

BY S.J.R.

COURNOYER

17/05/18

THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

2017 WATER MAIN RENEWALS CONTRACT 4

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