

# DRAWING INDEX

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# ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
R	PROPERTY LINE
E	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
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

# LEGEND

DESCRIPTION	ABANDONED	EXISTING	PROPOSED
WATER PIPE	---	---	---
FIRE HYDRANT		⊕	⊕
VALVE	⊗	⊗	⊗
CURB STOP	⊙	⊙	⊙
REDUCER	∇	∇	∇
COUPLING OR SLIDDER	X	X	X
CROSS	⊕	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H	H	H
TEE	H	H	H
VERTICAL BEND	H	H	H
ANODE		⊕	⊕
REPAIR MARKER		⊕	⊕
PLUG	J	J	J
SEWER PIPE	---	---	---
MANHOLE	○	○	○
CATCH BASIN	□	□	□
CURB INLET	∇	∇	∇
JUNCTION	---	---	---
E 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		X	X
EDGE OF PAVEMENT OR GUTTER		---	---
EDGE UNPAVED OR GRAVEL ROAD		---	---
E		---	---
PROJECTED R		---	---
LOT LINE		---	---
SIDEWALK - PATHWAY		---	---
EASEMENT		---	---
EDGE OF BUILDING		---	---
MAILBOX		⊕	⊕
TEST HOLE		⊕	⊕
TREE LINE OR BUSH		---	---

# 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 R.
7. INSTALL SEWER SERVICE RISERS TO ELEVATION WHERE MINIMUM SLOPE OF 1% IS MAINTAINED FOR ALL SERVICES.

# HATCH PATTERNS

AREA OF REPAIR ON PIPE

52.0 | MEASUREMENT TO REPAIR FROM REFERENCE MH SHOWN THUS... MH 0.0

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. CONSTRUCTION COMPLETION DATE: --	DESIGNED BY SC CHECKED BY SC DRAWN BY AJ APPROVED BY KZ SCALE: HORIZONTAL VERTICAL RELEASED FOR CONSTRUCTION <b>K. ZUREK</b> DATE 2020-04-22		ENGINEER'S SEAL  ORIGINAL SIGNED BY <b>S.R.J. COURNOYER</b> 2020/04/17  CONSULTANT DRAWING NUMBER --	<b>THE CITY OF WINNIPEG</b> WATER AND WASTE DEPARTMENT ENGINEERING DIVISION  2020 SEWER RENEWALS BY EXTERNAL POINT REPAIR CONTRACT #6  <b>INDEX</b>	SHEET 2 OF 60 CITY DRAWING NUMBER <b>12443</b>
	NO. REVISIONS DATE BY	PLOT DATE: 2020 04 23	BID OPPORTUNITY: 197-2020 CONTRACT NUMBER: 6	FILE PATH: R:\DRAWINGS\SEWER\2019 RENEWALS\RENEWALS & ASSOCIATED WORKS\2019 supplementals\CONTRACT #6\Construction Dwg\SIGNED CONSTRUCTION DRAWINGS\ FILE NAME: 197-2020_Drawing_D-12443-R0.dwg		