

SHEET NUMBER	CITY OF WIN DRAWING N
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01	D-16016	COVER PAGE
02	D-16017	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
03	D-16018	PORTAGE AVENUE - LIPTON ST TO 15.9 E OF RUBY ST
04	D-16019	PORTAGE AVENUE - 15.9 E OF RUBY ST TO 32.6 E OF LENORE ST
05	D-16020	PORTAGE AVENUE - 32.6 E OF LENORE ST TO 8.0 W OF ARLINGTON ST
06	D-16021	PORTAGE AVENUE - 8.0 W OF ARLINGTON ST TO 3.5 W OF HOME ST
07	D-16022	PORTAGE AVENUE - 3.5 W OF HOME ST TO 52.0 W OF CANORA ST
08	D-16023	PORTAGE AVENUE - 52.0 W OF CANORA ST TO 50.0 W OF BROADWAY
09	D-16024	PORTAGE AVENUE - 50.0 W OF BROADWAY TO BROADWAY
10	D-16025	EVANSON STREET - 7.2 S OF S L PORTAGE AVE TO 6.8 S OF N L PORTAGE AVE
11	D-16026	ARLINGTON STREET - 6.7 S OF S L PORTAGE AVE TO 8.2 N OF N L PORTAGE AVE
12	D-16027	HOME STREET - 4.5 S OF S L PORTAGE AVE TO 4.1 N OF N L PORTAGE AVE





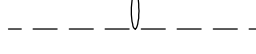
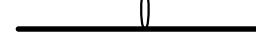
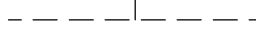

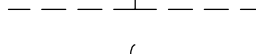
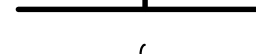
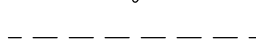
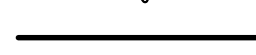




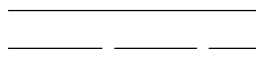









WWS
CS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ℙ	PROPERTY LINE
℄	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
MH	MANHOLE
CB	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
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















DESC

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT		
VALVE		
CURB STOP		
REDUCER		
COUPLING OR SLIDDER		
CROSS		
BEND - 11.25°, 22.5°, 45°, 90°		
TEE		
VERTICAL BEND		
ANODE		
REPAIR MARKER		
PLUG		
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., SHAW, OR VIDEO		
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		
PARKING METER		
TEST HOLE		
TREE LINE OR BUSH		



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WATER PIPE		
HYDRANT TOP		
VALVE		
TEE OR CROSS		
COUPLING OR BEND		
REDUCER		
END OF PIPE		
SEWER PIPE		
UNPAVED GROUND SURFACE (SOUTH)		
UNPAVED GROUND SURFACE (NORTH)		
PAVED GROUND SURFACE - 6" PIPE (NORTH)		
PAVED GROUND SURFACE - 6" PIPE (SOUTH)		
GUTTER (NORTH AND WEST)		
GUTTER (SOUTH AND EAST)		
STRUCTURE		
MANHOLE OR CATCH BASIN		

EXISTING	PROPOSED
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		EARTH OR GROUND ABOVE PIPE
		SAND OR OTHER FINE MATERIAL
		CONCRETE
		WASHED STONE OR GRANULAR MATERIAL
		INTERLOCKING STONE
		METAL
		GRAVEL OR STONE

1. EXPOSE EXISTING WATERMAIN & CONFIRMED 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 R.
8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. IRON BAR AT NE BLVD OF WATT ST/MUNROE AVE INTERSECTION ELEV. 230.270		 WSP Canada Inc. Suite 111 - 93 Lombard Ave Winnipeg, MB R3B 3B1 t. 204.943.3178 f. 204.943.4948 www.wsp.com		ENGINEER'S SEAL <div style="border: 1px solid black; padding: 10px; text-align: center;"> NOT FOR CONSTRUCTION </div>		 <div style="text-align: center;"> THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION </div>	
SUPV. U/G STRUCTURES COMMITTEE		DATE		DESIGNED BY R.H.		CHECKED BY S.M.		2021 WATER MAIN RENEWAL—CONTRACT 07	
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.		DRAWN BY R.H.		APPROVED BY S.M.		SHEET 02 OF 13	
				SCALE: HORIZONTAL 1:250 VERTICAL 1:50		RELEASED FOR CONSTRUCTION		CITY DRAWING NUMBER <div style="font-size: 24pt; font-weight: bold;">D-16017</div>	
		2 RE—ISSUED FOR TENDER 2021/04/29 R.H.							
		1 ISSUED FOR TENDER 2021/04/28 R.H.							
		0 ISSUED FOR DESIGN REVIEW 2021/04/27 R.H.							
		NO. REVISIONS DATE BY		DATE 2021 04 29		DATE			
								CONSULTANT DRAWING NUMBER <div style="font-size: 18pt; font-weight: bold;">211-00299-00-02</div>	