

DRAWING INDEX

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26	D-10837	HORACE STREET - 1ST MH EAST OF DES MEURONS STREET TO MH AT DES MEURONS STREET
27	D-10838	LAIDLAW BOULEVARD - 1ST MH NORTH OF CUTHBERTSON AVENUE TO MH @ CUTHBERTSON AVENUE
28	D-10839	LAIDLAW BOULEVARD - MH AT MOUNTBATTEN AVENUE (CL) TO 2ND MH NORTH OF MOUNTBATTEN AVENUE
29	D-10840	LAKEVIEW DRIVE - 1ST MH NORTHWEST OF AUGUSTA DRIVE TO MH @ AUGUSTA DRIVE
30	D-10841	LAKE VILLAGE ROAD EASEMENT - 2ND MH NORTH OF LAKE VILLAGE ROAD TO MH @ BISHOP GRANDIN BOULEVARD
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32	D-10843	LANE NORTH OF PORTAGE AVENUE - MH @ KNOX STREET TO MH @ STEWART STREET
33	D-10844	CATWALK (BETWEEN HEMLOCK AND CEDAR) - MH AT HEMLOCK LANE TO 1ST MH NE OF MH AT HEMLOCK LANE
34	D-10845	LAVAL DRIVE (ELEG) - MH @ PASADENA AVENUE TO MH @ LAVAL DRIVE (NLEG)
35	D-10846	LAVAL DRIVE (N LEG) - MH AT LAVAL DRIVE (ELEG) TO MH AT LAVAL DRIVE (WLEG)
36	D-10847	LAVAL DRIVE - MH AT LAVAL DRIVE (N LEG) TO MH AT MCMASTERS ROAD
37	D-10848	LINDSAY STREET - MH AT GROSVENOR AVENUE (N PL) TO 1ST MH N OF GROSVENOR AVENUE
38	D-10849	LINDSAY STREET - 1ST MH NORTH OF GROSVENOR AVENUE TO 2ND MH NORTH OF GROSVENOR AVENUE
39	D-10850	MARION STREET - MH AT ST MARYS ROAD (E OF CL) TO 1ST MH WEST OF LILLIAN AVENUE
40	D-10851	PEMBINA HIGHWAY - 1ST MH NORTH OF THATCHER DRIVE TO 3RD MH NORTH OF SOUTHPARK DRIVE
41	D-10852	PINEDALE AVENUE - 1ST MH NORTH OF HIGHFIELD STREET TO 1ST MH NORTH OF KIRKDALE STREET
42	D-10853	PORTAGE AVENUE - MH AT RICHMOND STREET TO NODE AT TYLEHURST STREET (S OF CL)
43	D-10854	RICHMOND STREET - 2ND MH SOUTH OF PORTAGE AVENUE TO MH AT WOLSELEY AVENUE WEST
44	D-10855	ROW - MH AT LARCHWOOD PLACE TO MH AT CEDAR PLACE

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ℓ	PROPERTY LINE
ℓ	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

HATCH PATTERNS



AREA OF REPAIR ON PIPE

SHEET NUMBER

CITY OF WINNIPEG DRAWING NUMBER

45
46
47
48
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D-10856
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D-10860
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D-10870
D-10871
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D-10873
D-10874
D-10875
D-10876
D-10877

DRAWING TITLE

SPRUCE STREET - 1ST MH NORTH OF DAUPHIN AVENUE TO 2ND MH NORTH OF DAUPHIN AVENUE
SPRUCE STREET - 2ND MH NORTH OF DAUPHIN AVENUE TO MH AT SARGENT AVENUE
SPRUCE STREET - 1ST MH SOUTH OF WELLINGTON AVENUE TO 2ND MH SOUTH OF WELLINGTON AVENUE
SPRUCE STREET - 1ST MH NORTH OF WOLEVER AVENUE TO MH AT WOLEVER AVENUE
ST JAMES STREET - 3RD MH SOUTH OF ELLICE AVENUE TO 2ND MH SOUTH OF ELLICE AVENUE
ST JAMES STREET - 2ND MH SOUTH OF NESS AVENUE TO 1ST MH NORTH OF NESS AVENUE
ST MARYS ROAD - 2ND MH NORTH BURLAND AVENUE TO 1ST MH NORTH NORMAND PARK DRIVE
ST MARYS ROAD - 1ST MH NORTH NORMAND AVENUE TO 3RD MH NORTH NORMAND AVENUE
ST MARYS ROAD - MH AT WARDE AVENUE TO 2ND MH NORTH OF WARDE AVENUE
ST MARYS ROAD - 3RD MH NORTH NORMAND AVENUE TO TE IN EAST MH
ST MARYS ROAD - MH AT NPL NORMAND AVENUE TO 2ND MH NORTH OF WARDE AVENUE
ST MARYS ROAD - MH @ BURLAND AVENUE TO 2ND MH NORTH BURLAND AVENUE
ST MARYS ROAD - MH @ WARDE AVENUE TO 1ST MH NORTH NORMAND PARK DRIVE
SYRACUSE CRESCENT - 2ND MH EAST OF SYRACUSE CRESCENT (WLEG) TO 1ST MH EAST OF SYRACUSE CRESCENT (WLEG)
TAMWORTH BAY - MH AT SILVERSTONE AVENUE TO MH AT TAMWORTH BAY (NLEG)
THATCHER DRIVE - 1ST MH SOUTHWEST OF UNIVERSITY CRESCENT TO MH @ THATCHER DRIVE (ELEG)
THATCHER DRIVE - MH @ THATCHER DRIVE (SLEG) TO 1ST MH NORTH OF AGASSIZ DRIVE
TROTTER BAY - 1ST MH EAST OF TROTTER BAY (WLEG) TO 1ST MH WEST OF TROTTER BAY (SLEG)
TUNIS BAY - MH @ TUNIS BAY (SLEG) TO 1ST MH SOUTH OF SILVERSTONE AVENUE
WALMER STREET - MH AT BIRCHDALE AVENUE TO MH AT LAINDALE AVENUE (CL)
WOLEVER AVENUE - MH AT GARFIELD STREET TO 1ST MH WEST OF GARFIELD STREET
WOLSELEY AVENUE - MH AT STILES STREET TO MH AT TELFER STREET SOUTH

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE	—	—
FIRE HYDRANT	⊕	⊕
VALVE	⊗	⊗
CURB STOP	⊙	⊙
REDUCER	∠	∠
COUPLING OR SLIDER	X	X
CROSS	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H	H
TEE	⊕	⊕
VERTICAL BEND	H	H
ANODE	⊕	⊕
REPAIR MARKER	⊕	⊕
PLUG	J	J
SEWER PIPE	—	—
MANHOLE	○	●
CATCH BASIN	□	■
CURB INLET	∇	∇
JUNCTION	⊕	⊕
ℓ 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	—	—
ℓ	—	—
PROJECTED ℓ	—	—
LOT LINE	—	—
SIDEWALK - PATHWAY	—	—
EASEMENT	—	—
EDGE OF BUILDING	—	—
MAILBOX	⊕	⊕
TEST HOLE	⊕	⊕
TREE LINE OR BUSH	—	—

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

LOCATION APPROVED UNDERGROUND STRUCTURES

B.M. ELEV.
CONSTRUCTION COMPLETION DATE: YYYY MM DD

DESIGNED BY	SC	CHECKED BY	SC
DRAWN BY	CN	APPROVED BY	KZ
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL			
VERTICAL			
DATE	2014 10 09	DATE	
PLOT DATE:	2014 10 09		

ENGINEER'S SEAL
ORIGINAL SIGNED BY S.R.J. COURNOYER 14-10-07
CONSULTANT DRAWING NUMBER

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2014 SEWER RENEWALS
BY CIPP LINING - CONTRACT 12

SHEET 1 OF 66
CITY DRAWING NUMBER

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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.

NO.	REVISIONS	DATE	BY