

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
27	11722	OAKENWALD AVENUE - MH AT RUTTAN BAY (W-LEG) TO MH AT WICKLOW STREET
28	11723	OTTER STREET - MH AT BUFFALO PLACE (N-LEG) TO 1ST MH N OF BUFFALO PLACE
29	11724	PACIFIC AVENUE - 1ST MH E OF LILY STREET TO MH AT LILY STREET
30	11725	PEMBINA HIGHWAY - MH AT WATERFORD AVENUE TO MH AT SOUTHWOOD AVENUE
31	11823	PLINQUET STREET - MH AT ARCHIBALD STREET TO MH AT MCTAVISH STREET
32	11726	RAVELSTON AVENUE WEST - 1ST MH W OF WINONA STREET TO MH AT WINONA STREET
33	11727	RAVELSTON AVENUE WEST - 1ST MH E OF BOND STREET TO MH AT BOND STREET
34	11728	RILEY CRESCENT - 2ND MH N OF DOWKER AVENUE TO MH AT RILEY CRESCENT (N-LEG)
35	11729	RIVERSIDE DRIVE - MH AT WINDERMERE AVENUE TO MH AT SOMMERVILLE AVENUE
36	11730	ROBERTA AVENUE - 1ST MH E OF WOODVALE STREET TO MH AT WOODVALE STREET
37	11731	RUPERT AVENUE - MH AT AMY STREET TO 1ST MH W OF MARTHA STREET
38	11732	SALTER STREET - 1ST MH S OF INKSTER AVENUE TO MH AT INKSTER AVENUE
39	11733	SOUTH DRIVE - 1ST MH W OF DOWKER AVENUE TO MH AT DOWKER AVENUE
40	11734	SOUTH DRIVE - 2ND MH E OF POINT ROAD TO 3RD MH E OF POINT ROAD
41	11735	SOUTHWOOD AVENUE - 1ST MH W OF DANIEL STREET TO 2ND MH E OF DANIEL STREET
42	11736	SOUTHWOOD AVENUE - 2ND MH E OF PEMBINA HIGHWAY TO MH AT PEMBINA HIGHWAY
43	11737	SPARROW ROAD - 2ND MH S OF ROBLIN BOULEVARD TO 3RD MH S OF ROBLIN BOULEVARD
44	11738	THOMPSON DRIVE - 1ST MH S OF LODGE STREET TO MH AT LODGE STREET
45	11739	TUXEDO AVENUE - 1ST MH W OF DONCASTER STREET TO MH AT DONCASTER STREET
46	11740	VICTORIA AVENUE EAST - 1ST MH W OF REDONDA STREET TO MH AT REDONDA STREET
47	11741	VISCOUNT PLACE - 2ND MH E OF POINT ROAD TO MH AT POINT ROAD
48	11742	WATERFORD AVENUE - 2ND MH E OF LYON STREET TO 1ST MH E OF LYON STREET
49	11743	WATERFORD AVENUE - 1ST MH E OF WICKLOW STREET TO MH AT WICKLOW STREET
50	11744	WILDWOOD F PARK (W-LEG) - MH AT WILDWOOD F PARK (S-LEG) TO MH AT OAKENWALD AVENUE
51	11745	WILDWOOD C PARK (S-LEG) - 1ST MH W NORTH DRIVE TO MH AT NORTH DRIVE
52	11746	WILDWOOD B PARK (S-LEG) - MH AT WILDWOOD B PARK (W-LEG) TO 1ST MH W NORTH DRIVE
53	11747	WINCHESTER STREET - 1ST MH N OF NESS AVENUE TO 1ST MH S OF NESS AVENUE

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

LEGEND

PLAN VIEW

DESCRIPTION	ABANDONED	EXISTING	PROPOSED
WATER PIPE	---	---	---
FIRE HYDRANT	⊗	⊗	⊗
VALVE	⊙	⊙	⊙
CURB STOP	⊙	⊙	⊙
REDUCER	△	△	△
COUPLING OR SLIDER	X	X	X
CROSS	⊕	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	⌒	⌒	⌒
TEE	⊕	⊕	⊕
VERTICAL BEND	H	H	H
ANODE	⊕	⊕	⊕
REPAIR MARKER	J	J	J
PLUG	J	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	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	---	---	---


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 ℓ.
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... 

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. <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																																																	ENGINEER'S SEAL ORIGINAL SIGNED BY S.R.J COURNOYER 18/05/14 CONSULTANT DRAWING NUMBER _____	 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2017 SEWER MAIN RENEWALS CONTRACT 2 INDEX PAGE	SHEET 3 OF 53 CITY DRAWING NUMBER
DESIGNED BY SC CHECKED BY SC DRAWN BY RS APPROVED BY KZ SCALE: HORIZONTAL VERTICAL DATE 2018 05 16 PLOT DATE: 2018 05 16	RELEASED FOR CONSTRUCTION K.ZUREK DATE 2018 05 14	11697																																																		