

# DRAWING INDEX

| SHEET NUMBER | CITY OF WINNIPEG DRAWING NUMBER | DRAWING TITLE  |
|--------------|---------------------------------|--|
| 45           | 11510                           | MARYLAND STREET - 3RD MH N SARGENT AVENUE TO 2ND MH N SARGENT AVENUE           |
| 46           | 11511                           | MCGEE STREET - 1ST MH N PORTAGE AVENUE TO MH AT PORTAGE AVENUE (N ④)           |
| 47           | 11512                           | MCPHAIL STREET - MH AT DEARBORN AVENUE TO 1ST MH N OF DEARBORN AVENUE          |
| 48           | 11513                           | MONCTON AVENUE - MH AT BESANT STREET TO 1ST MH W OF BESANT STREET              |
| 49           | 11514                           | OTTAWA AVENUE - 2ND MH W OF WATT STREET TO MH AT ROCH STREET (④)               |
| 50           | 11515                           | PICARDY PLACE - MH AT BROADWAY TO MH AT CHESTNUT STREET                        |
| 51           | 11516                           | PORTAGE AVENUE - 1ST MH W OF LANGSIDE STREET TO MH AT LANGSIDE STREET          |
| 52           | 11517                           | PORTAGE AVENUE - MH AT ST MARY AVENUE TO MH AT GOOD STREET                     |
| 53           | 11518                           | PORTAGE AVENUE - 3RD MH W OF CARLTON STREET TO MH AT EDMONTON STREET           |
| 54           | 11519                           | PRINCESS STREET - MH AT JAMES AVENUE TO MH AT ROSS AVENUE                      |
| 55           | 11520                           | RAVELSTON AVENUE EAST - 1ST MH E OF LEOLA STREET TO MH AT LEOLA STREET         |
| 56           | 11521                           | REGENT AVENUE - 1ST W OF WINONA STREET TO MH AT WINONA STREET                  |
| 57           | 11522                           | REGENT AVENUE WEST - 1ST MH W OF BOND STREET TO MH AT BOND AVENUE              |
| 58           | 11523                           | SANFORD FLEMING ROAD - MH AT WHITEWAY ROAD TO MH AT DEVONSHIRE DRIVE           |
| 59           | 11524                           | SARGENT AVENUE - MH AT VICTOR STREET TO MH AT TORONTO STREET                   |
| 60           | 11525                           | SEVEN OAKS AVENUE - 1ST MH W OF JONES STREET TO MH AT JONES STREET             |
| 61           | 11526                           | SHERBROOK STREET - 3RD MH N OF PORTAGE AVENUE TO 4TH MH N OF PORTAGE AVENUE    |
| 62           | 11527                           | SHERBROOK STREET - MH AT SARGENT AVENUE TO 1ST MH E OF SARGENT AVENUE          |
| 63           | 11528                           | SHERBROOK STREET - MH AT HENRY AVENUE TO MH AT LOGAN AVENUE                    |
| 64           | 11529                           | SHIP STREET - 1ST MH S OF BANNATYNE AVENUE TO MH AT BANNATYNE AVENUE           |
| 65           | 11530                           | SMITH STREET - 1ST MH N OF ELLICE AVENUE TO MH AT ELLICE AVENUE                |
| 66           | 11531                           | SPENCE STREET - MH AT ST MARY AVENUE (④) TO 1ST MH S ST MARY AVENUE            |
| 67           | 11532                           | SPENCE STREET - MH AT CUMBERLAND AVENUE TO MH AT NOTRE DAME AVENUE             |
| 68           | 11533                           | TALBOT AVENUE - MH AT RIVERTON AVENUE TO 1ST MH E OF RIVERTON AVENUE           |
| 69           | 11534                           | THAMES AVENUE (421) - MH E OF E ④ WATT STREET TO 1ST MH W OF W ④ WATT STREET   |
| 70           | 11535                           | TRENT AVENUE - MH AT HENDERSON HIGHWAY (E ④) TO 1ST MH E OF HENDERSON HIGHWAY  |
| 71           | 11536                           | TRENT AVENUE - 2ND MH E OF WATT STREET TO 1ST MH E OF WATT STREET              |
| 72           | 11537                           | WABASHA STREET - MH AT WHITTIER AVENUE EAST TO MH AT KILDARE AVENUE EAST       |
| 73           | 11538                           | WATT STREET - MH AT DESALABERRY AVENUE TO MH AT NAIRN AVENUE                   |
| 74           | 11539                           | WESTMINSTER AVENUE - MH AT SHERBROOK STREET TO MH AT FURBY STREET              |
| 75           | 11540                           | WHARTON BOULEVARD - 1ST MH S OF NESS AVENUE TO TIE-IN AT NESS AVENUE           |
| 76           | 11541                           | WHITEWAY ROAD - 1ST MH E OF SANFORD FLEMING ROAD TO MH AT CAMBIE ROAD          |
| 77           | 11542                           | WILLIAM STEPHENSON WAY - 1ST MH W OF WESTBROOK STREET TO MH AT MAIN STREET (④) |
| 78           | 11543                           | WINONA STREET - MH AT WHITTIER AVENUE WEST TO MH AT KILDARE AVENUE WEST        |
| 79           | 11544                           | WOLSELEY AVENUE - MH AT SHERBROOK STREET (W ④) TO MH AT FURBY STREET (E ④)     |
| 80           | 11545                           | YOUNG STREET - 1ST MH S OF CUMBERLAND AVENUE TO 1ST MH N OF CUMBERLAND AVENUE  |

## ABBREVIATIONS

|            |                                    |
|------------|------------------------------------|
| WWS        | WASTE WATER SEWER                  |
| CS         | COMBINED SEWER                     |
| LDS        | LAND DRAINAGE SEWER                |
| ℙ          | PROPERTY LINE                      |
| ℄          | CENTER LINE                        |
| G.L.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

## LEGEND

| DESCRIPTION                    | EXISTING | PROPOSED |
|--------------------------------|----------|----------|
| WATER PIPE                     | —        | —        |
| FIRE HYDRANT                   | ⊕        | ⊕        |
| VALVE                          | ⊗        | ⊗        |
| CURB STOP                      | ♂        | ♂        |
| REDUCER                        | △        | △        |
| COUPLING OR SLIDDER            | X        | X        |
| CROSS                          | ⊕        | ⊕        |
| BEND - 11.25', 22.5', 45', 90' | H H 4 4  | H H 4 4  |
| TEE                            | H        | H        |
| VERTICAL BEND                  | H        | H        |
| ANODE                          | ⊕        | ⊕        |
| REPAIR MARKER                  | ⊕        | ⊕        |
| PLUG                           | J        | J        |
| SEWER PIPE                     | —        | —        |
| MANHOLE                        | ○        | ●        |
| CATCH BASIN                    | □        | ■        |
| CURB INLET                     | ▽        | ▽        |
| JUNCTION                       | ⊕        | ⊕        |
| ℄ DITCH                        | →        | →        |
| CULVERT                        | ⊕        | ⊕        |
| SURVEY BAR                     | ⊕        | ⊕        |
| SURVEY MONUMENT                | ⊕        | ⊕        |
| TREE - DECIDUOUS               | ⊕        | ⊕        |
| TREE - CONIFEROUS              | ⊕        | ⊕        |
| HYDRO                          | —        | —        |
| HYDRO POLE                     | H        | H        |
| LAMP STANDARD                  | ⊕        | ⊕        |
| HYDRO POLE W/STREET LIGHTING   | H        | H        |
| 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    | —        | —        |
| ℄                              | —        | —        |
| PROJECTED ℄                    | —        | —        |
| 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<br>SUPV. U/G STRUCTURES COMMITTEE<br>DATE<br>NOTE:<br>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.        |           |                           | ENGINEER'S SEAL |   | <b>THE CITY OF WINNIPEG</b><br>WATER AND WASTE DEPARTMENT<br>ENGINEERING DIVISION<br>2016 SEWER MAIN RENEWALS<br>BY CIPP LINING<br>INDEX PAGE<br>SHEET 3 OF 80<br>CITY DRAWING NUMBER 11466 |  |
|  | DESIGNED BY SC    |           | CHECKED BY SC             |                 | ORIGINAL SIGNED BY<br>S.R.J. COURNOYER<br>17/02/10<br>CONSULTANT DRAWING NUMBER — |   |  |
|  | DRAWN BY RS       |           | APPROVED BY KZ            |                 |   |   |  |
|  | SCALE: HORIZONTAL |           | RELEASED FOR CONSTRUCTION |                 |   |   |  |
| NO.  |                   | REVISIONS |                           | DATE 2017 02 16 |   | DATE 2017 02 15   |  |

PLOT DATE: 2017 02 16

BID OPPORTUNITY: 71-2017  
CONTRACT NUMBER: 4

FILE PATH: R:\DRAWINGS\SEWER\2016 RENEWALS\Contract 4\Construction Dwg\New folder\corrections\  
FILE NAME: index\_cont14.dwg