

DRAWING INDEX

| SHEET NUMBER | CITY OF WINNIPEG DRAWING NUMBER | DRAWING TITLE |
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| 3 | 10902 | ALFRED AVENUE - 1ST MH W OF SINCLAIR STREET TO MH AT ARTILLERY STREET |
| 4 | 10903 | ANDREWS STREET - MH AT CHURCH AVENUE (N PL) TO MH AT MACHRAY AVENUE (CL) |
| 5 | 10904 | ARLINGTON STREET - 2ND MH S OF CHURCH AVENUE TO MH AT MOUNTAIN AVENUE (CL) |
| 6 | 10905 | ARTILLERY STREET - 1ST NODE S OF MAGNUS AVENUE TO MH AT MAGNUS AVENUE (CL) |
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| 14 | 10913 | CARRUTHERS AVENUE - 1ST MH E OF MCGREGOR STREET TO MH AT COPP STREET |
| 15 | 10914 | COLLEGE AVENUE - MH AT SALTER STREET (CL) TO 1ST MH E OF SALTER STREET |
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| 18 | 10917 | GUILBAULT STREET - 2ND MH W OF ARCHIBALD STREET TO 1ST MH W OF ARCHIBALD STREET |
| 19 | 10918 | HASTINGS BOULEVARD - 1ST MH E OF DUNKIRK DRIVE TO MH AT DUNKIRK DRIVE (EPL) |
| 20 | 10919 | LANSDOWNE AVENUE - 1ST MH E OF ANDREWS STREET TO MH AT POWERS STREET (W OF CL) |
| 21 | 10920 | MAIN STREET - MH AT COLLEGE AVENUE TO MH AT MOUNTAIN AVENUE |
| 22 | 10921 | MATHESON AVENUE EAST - MH AT ST CROSS STREET TO 2ND MH W OF ST CROSS STREET |
| 23 | 10922 | MCKENZIE STREET - 1ST MH N OF CHURCH AVENUE TO MH AT CHURCH AVENUE |
| 24 | 10923 | MONACO BAY (S-LEG) - MH AT MONACO BAY (W-LEG) TO MH AT MONACO BAY (E-LEG) |
| 25 | 10924 | MONCTON AVENUE - 1ST MH W OF LONDON STREET TO 2ND MH W OF LONDON STREET |
| 26 | 10925 | ROW EAST OF KING EDWARD STREET - 1ST MH N OF LOGAN AVENUE TO MH AT LOGAN AVENUE |
| 27 | 10926 | SALTER STREET - MH AT ABERDEEN AVENUE (N PL) TO MH AT REDWOOD AVENUE (CL) |
| 28 | 10927 | ST CATHERINE STREET - MH AT EVANS STREET TO 1ST MH E OF EVANS STREET |
| 29 | 10928 | WEBSTER AVENUE - 1ST MH N OF PITRE STREET TO MH AT TAGGART STREET |

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/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 | 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 H H | H H 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 | *H | *H |
| LAMP STANDARD | ⊕ | ⊕ |
| HYDRO POLE W/STREET LIGHTING | H | H |
| POLE | • | • |
| GUY ANCHOR | ← | ← |
| M.T.S. POLE | *M | *M |
| 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 | — | — |

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... 0.0
MH

| 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: YYYY MM DD | ENGINEER'S SEAL ORIGINAL SIGNED BY S.R.J. COURNOYER 14/12/10 | | THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2014 SEWER RENEWALS AND REPAIRS INDEX PAGE | SHEET 1 OF 29 CITY DRAWING NUMBER | | | | | |
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