

DRAWING INDEX

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ABBREVIATIONS

| | |
|------------|------------------------------------|
| WWS | WASTE WATER SEWER |
| CS | COMBINED SEWER |
| LDS | LAND DRAINAGE SEWER |
| ℄ | 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 |

LEGEND

| DESCRIPTION | PLAN VIEW | |
|--------------------------------|-----------|----------|
| | 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 VIDEON | | |
| TRAFFIC SIGNALS | | |
| TRAFFIC LIGHT STANDARD | | |
| GAS | | |
| STEAM | | |
| FIBRE OPTIC | | |
| FENCE | | |
| EDGE OF PAVEMENT OR GUTTER | | |
| EDGE UNPAVED OR GRAVEL ROAD | | |
| PROJECTED R | | |
| LOT LINE | | |
| SIDEWALK - PATHWAY | | |
| EASEMENT | | |
| EDGE OF BUILDING | | |
| MAILBOX | | |
| PARKING METER | | |
| TEST HOLE | | |
| TREE LINE OR BUSH | | |

CONSTRUCTION NOTES

1. EXPOSE EXISTING WATERMAIN & CONFIRM 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 ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

HATCH PATTERNS

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

| | | | | | | | | | |
|--|--|---|--|---|--|--|--|--------------------------------------|--|
| LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE _____ DATE _____ | | B.M. ELEV. _____ CONSTRUCTION COMPLETION DATE: YYYY MM DD _____ | | ENGINEER'S SEAL ORIGINAL SIGNED BY S.J.R. COURNOYER 15/03/13 | | THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2015 WATERMAIN RENEWALS | | SHEET 1 OF 11 CITY DRAWING NUMBER | |
| 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. | | DESIGNED BY TS CHECKED BY SC DRAWN BY RS/MA APPROVED BY KZ | | SCALE: HORIZONTAL 1:250 VERTICAL 1:50 | | RELEASED FOR CONSTRUCTION DATE _____ | | CONSULTANT DRAWING NUMBER _____ | |
| NO. _____ REVISIONS _____ DATE _____ BY _____ | | PLOT DATE: 2015 03 13 | | BID OPPORTUNITY: 258-2015 CONTRACT NUMBER: 11 | | FILE PATH: R:\DRAWINGS\WATER\RENEWAL\2015 RENEWAL\CONTRACT 11\ FILE NAME: CONTRACT 11 - INDEX.dwg | | INDEX PAGE D-13738 | |