

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	D-15306	COVER PAGE
2	D-15307	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
3	D-15308	BICKERTON STREET - MISSION AVENUE TO 90 E OF MISSION AVENUE
4	D-15309	BICKERTON STREET - CN RAIL CROSSING

LEGEND

DESCRIPTION	PLAN VIEW		
	ABANDONED	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 €			
LOT LINE			
SIDEWALK - PATHWAY			
EASEMENT			
EDGE OF BUILDING			
MAILBOX			
PARKING METER			
TEST HOLE			
TREE LINE OR BUSH			

DESCRIPTION	PROFILE		
	ABANDONED	EXISTING	PROPOSED
WATER PIPE			
HYDRANT TOP			
VALVE			
TEE OR CROSS			
COUPLING OR BEND			
REDUCER			
END OF PIPE			
SEWER PIPE			
UNPAVED GROUND SURFACE			
PAVED GROUND SURFACE - € PIPE			
GUTTER (NORTH AND WEST)			
GUTTER (SOUTH AND EAST)			
€ DITCH (NORTH AND WEST)			
€ DITCH (SOUTH AND EAST)			
STRUCTURE			
MANHOLE OR CATCH BASIN			

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

CONSTRUCTION NOTES

1. EXPOSED EXISTING WATER MAIN & CONFIRMED INVERTS PRIOR TO CONSTRUCTION.
2. LOCATION OF ALL SERVICES CONFIRMED IN THE FIELD.
3. INSTALLED WATER MAIN BY TRENCHLESS METHODS.
4. TRENCHES AND EXCAVATIONS WITHIN 1 METER OF A PAVED AREA INCLUDING SIDEWALKS ARE CLASS 3 BACKFILL.
5. ALL MATERIALS CONFORMED TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
6. MINIMUM COVER TO TOP OF WATER MAIN SHALL BE 2.4 m.
7. REPLACED ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO €.€
8. NOTIFIED 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

<p align="center">WARNING</p> <p>IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:</p> <p>1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.</p> <p>2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.</p> <p>SEE PROVINCIAL REGULATION 210/72 FOR DETAILS</p>	<p align="center">LOCATION APPROVED</p> <p align="center">UNDERGROUND STRUCTURES</p> <p>SUPV. U/G STRUCTURES COMMITTEE _____ DATE _____</p> <p>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.</p>	<p>B.M. ELEV.</p> <table border="1" style="width:100%; height: 100px;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>																									<table border="1" style="width:100%;"> <tr> <td>DESIGNED BY</td> <td>TP</td> <td>CHECKED BY</td> <td>SC</td> </tr> <tr> <td>DRAWN BY</td> <td>RS</td> <td>APPROVED BY</td> <td>KZ</td> </tr> <tr> <td>SCALE:</td> <td colspan="3"></td> </tr> <tr> <td>HORIZONTAL</td> <td colspan="3">1:250</td> </tr> <tr> <td>VERTICAL</td> <td colspan="3">1:50</td> </tr> <tr> <td>DATE</td> <td>2019 08 08</td> <td>RELEASED FOR CONSTRUCTION</td> <td>KAS ZUREK</td> </tr> <tr> <td>DATE</td> <td>2019 08 08</td> <td>DATE</td> <td>2018 08 21</td> </tr> </table>	DESIGNED BY	TP	CHECKED BY	SC	DRAWN BY	RS	APPROVED BY	KZ	SCALE:				HORIZONTAL	1:250			VERTICAL	1:50			DATE	2019 08 08	RELEASED FOR CONSTRUCTION	KAS ZUREK	DATE	2019 08 08	DATE	2018 08 21	<p>ENGINEER'S SEAL</p> <p align="center">ORIGINAL SIGNED</p> <p align="center">BY S.R.J. COURNOYER</p> <p align="center">18/08/21</p> <p>CONSULTANT DRAWING NUMBER _____</p>	<p></p> <p>THE CITY OF WINNIPEG</p> <p>WATER AND WASTE DEPARTMENT</p> <p>ENGINEERING DIVISION</p> <p>2019 BICKERTON LOCAL IMPROVEMENTS</p> <p align="center">INDEX PAGE</p>	<p>SHEET 2 OF 4</p> <p>CITY DRAWING NUMBER</p> <p align="center">D-15307</p>
DESIGNED BY	TP	CHECKED BY	SC																																																							
DRAWN BY	RS	APPROVED BY	KZ																																																							
SCALE:																																																										
HORIZONTAL	1:250																																																									
VERTICAL	1:50																																																									
DATE	2019 08 08	RELEASED FOR CONSTRUCTION	KAS ZUREK																																																							
DATE	2019 08 08	DATE	2018 08 21																																																							