

DRAWING INDEX

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10	D-16853	INKSTER BOULEVARD – 54m E OF AIKINS STREET TO 7m W OF CHARLES STREET
11	D-16854	INKSTER BOULEVARD – 7m W OF CHARLES STREET TO MAIN STREET
12	D-16855	POWERS STREET – 10m S OF INKSTER BLVD TO 10m N OF INKSTER BLVD

LEGEND

DESCRIPTION	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			
ε 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			
ε			
PROJECTED ε			
LOT LINE			
SIDEWALK – PATHWAY			
EASEMENT			
EDGE OF BUILDING			
MAILBOX			
PARKING METER			
TEST HOLE			
TREE LINE OR BUSH			

ABBREVIATIONS

WWS	WASTEWATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
FRM	FORCE MAIN
ε	PROPERTY LINE
ε	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	WATER MAIN
FM	FEEDER MAIN
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
O/C	ON CENTER

TRAFFIC NOTES

1. COMPLETE DIRECTIONAL CLOSURE OF EASTBOUND INKSTER BLVD. IS PERMITTED.
2. MAINTAIN TWO LANES OF WESTBOUND TRAFFIC ON INKSTER BLVD. WHENEVER POSSIBLE.
3. COORDINATE HANDOVER OF COMPLETED WORK AREAS AND LANE CLOSURES WITH CONTRACT ADMINISTRATOR AND ROAD RENEWAL CONTRACTOR (155-2024).

RESTORATION NOTES

1. FOR ALL LOCATIONS SOUTH OF MEDIAN CENTERLINE, COMPLETE TEMPORARY RESTORATION WITH COMPACTED GRANULAR BACKFILL TO GRADE IN ACCORDANCE WITH CW 2030, SD-002, AND THESE SPECIFICATIONS. PERMANENT RESTORATION TO BE COMPLETED BY OTHERS.
2. FOR ALL LOCATIONS NORTH OF MEDIAN CENTERLINE, PERMANENT RESTORATION IS REQUIRED.

CONSTRUCTION NOTES

1. EXPOSE ALL WATER MAIN TIE IN LOCATIONS TO CONFIRM ELEVATION, MATERIAL TYPE AND LOCATION PRIOR TO COMMENCEMENT OF THE WATER MAIN INSTALLATION.
2. EXPOSE ALL SERVICES 100 mm AND LARGER AT THE TIE IN LOCATIONS TO CONFIRM ELEVATION, MATERIAL TYPE AND LOCATION PRIOR TO COMMENCEMENT OF THE WATER MAIN INSTALLATION.
3. INSTALL WATER MAIN BY TRENCHLESS METHODS.
4. TRENCHES AND EXCAVATIONS WITHIN 1 METRE OF A PAVED AREA INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL.
5. ALL MATERIALS TO CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
6. MINIMUM COVER TO TOP OF WATER MAIN SHALL BE 2.4 m.
7. MINIMUM CLEARANCE OF ALL FEEDER MAIN CROSSINGS SHALL BE 1.0 m UNDER OR 0.5 m OVER FEEDER MAIN.
8. EXPOSE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM DEPTH AND LOCATION. ANY CONFLICTS WITH PROPOSED WATER MAINS AND EXISTING UNDERGROUND UTILITIES SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.
9. CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS AND DIRECTIONS BY 3RD PARTY UTILITIES FOR CROSSING CRITICAL INFRASTRUCTURE.
10. THE CONTRACTOR SHALL CONSULT WITH MANITOBA HYDRO FOR HIGH PRESSURE GAS MAIN CROSSING REQUIREMENTS. FULL TIME SAFETY WATCH AND HYDROVAC EXCAVATION TO CONFIRM DEPTHS PRIOR TO CROSSING IS REQUIRED.
11. EXCAVATIONS WITHIN 3.0m OF THE OUTSIDE EDGE OF A FEEDER MAIN (EXCLUDING HYDROVAC HOLES) AND WHICH EXTEND BELOW THE OBVERT OF THE FEEDER MAIN SHALL UTILIZE SHORING METHODS THAT PRECLUDE THE MOVEMENT OF NATIVE IN-SITU SOILS AND PIPE BEDDING (i.e. TIGHT SHORING SYSTEMS).
12. EXISTING FEEDER MAIN SHALL BE EXPOSED USING HYDROVAC EXCAVATION TO CONFIRM DEPTH PRIOR TO CROSSINGS OF NEW WATER MAINS OR WATER SERVICES.
13. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO ε.
14. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.
15. COMPLETE WATER MAIN RENEWAL WORK IN COORDINATION WITH STREETS RENEWAL TENDER 155-2024.
16. WATER MAIN RENEWAL WORKS SHALL GENERALLY BE SCHEDULED TO PROCEED FROM WEST TO EAST. COORDINATE HANDOVER OF COMPLETED WORK AREAS WITH CONTRACT ADMINISTRATOR AND ROAD RENEWAL CONTRACTOR (155-2024) WHEN AVAILABLE.

HATCH PATTERNS

	EARTH OR GROUND ABOVE PIPE
	SAND OR OTHER FINE MATERIAL
	CONCRETE
	WASHED STONE OR GRANULAR MATERIAL
	INTERLOCKING STONE
	METAL
	GRAVEL OR STONE

DESCRIPTION	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 – ε PIPE			
GUTTER (NORTH AND WEST)			
GUTTER (SOUTH AND EAST)			
ε DITCH (NORTH AND WEST)			
ε DITCH (SOUTH AND EAST)			
STRUCTURE			
MANHOLE OR CATCH BASIN			



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES
UNLESS OTHERWISE NOTED

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.	VERTICAL DATUM: CGVD28 (HT2.0 Geoid) HORIZONTAL DATUM: NAD83 (June 1990), Zone 14		ENGINEER'S SEAL	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING SERVICES DIVISION</p>
	DESIGNED BY: JKH CHECKED BY: NJK DRAWN BY: DML APPROVED BY: ADB SCALE: HORIZONTAL RELEASED FOR CONSTRUCTION: RYAN LUCKY VERTICAL DATE: MARCH 12, 2024 DATE: MARCH 11, 2024		CONSULTANT DRAWING NUMBER	
TENDER NUMBER: 162-2024 CONTRACT NUMBER: 6		FILE PATH: X:\Proj\2023\230367B00-2023-2025 McGregor-Inkster Renewals\09. CAD\Water Main Renewal\07 Sheets\ FILE NAME: 230367B-Index-02.dwg		