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ABBREVIATIONS

ABAND	ABANDONED
AC	ASBESTOS CEMENT
BLDG	BUILDING
B.M.	BENCH MARK
CB	CATCH BASIN
CI	CURB INLET
CI	CAST IRON
℄	CENTER LINE
CONC	CONCRETE
CRN	CORNER
CS	COMBINED SEWER
C/S OR S/C	CURB STOP
CULV	CULVERT
C/W	CONSTRUCTED WITH
DI	DUCTILE IRON
E	EAST
ELEV	ELEVATION
EXIST	EXISTING
FIBRE	FIBRE OPTIC
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM
HDPE	HIGH DENSITY POLYETHYLENE
HORZ.	HORIZONTAL
HSE	HOUSE
HYD	HYDRANT
I.B.	IRON BAR
INV	INVERT
LDS	LAND DRAINAGE SEWER
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MTS	MANITOBA TELEPHONE SYSTEM
N	NORTH
OPP	OPPOSITE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
ℙ	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
R.O.W.	RIGHT-OF-WAY
S	SOUTH
SL	STREET LIGHTING
TH	TEST HOLE
TS	TRAFFIC SIGNALS
TYP	TYPICAL
VC OR CLAY	VITRIFIED CLAY
VERT.	VERTICAL
W	WEST
W/	WITH
WM	WATER MAIN
WWS	WASTE WATER SEWER
X-ING	CROSSING

LEGEND

PLAN VIEW

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT		
VALVE		
CURB STOP		
REDUCER		
COUPLING OR SLIDER		
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		
ℙ		
PROJECTED ℙ		
LOT LINE		
SIDEWALK - PATHWAY		
EASEMENT		
EDGE OF BUILDING		
MAILBOX		
PARKING METER		
TEST HOLE		
TREE LINE OR BUSH		
ROCK COLUMN		

PROFILE

DESCRIPTION	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		

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
		RIPRAP

CONSTRUCTION NOTES

1. INSTALLED WATER MAIN BY TRENCHLESS METHODS.
2. TRENCHES AND EXCAVATIONS WITHIN 1.0 OF A PAVED AREA INCLUDING SIDEWALKS ARE CLASS 3 BACKFILL.
3. ALL MATERIALS CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
4. MINIMUM COVER TO TOP OF WATER MAIN IS 2.4.
5. REPLACED ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO ℙ.
6. INLINE WATERMAIN RENEWAL FROM 0+96.27 TO 1+02 ALONG ARMSTRONG AVENUE.
7. SERVICE RENEWAL FOR #479 SCOTIA STREET MUST BE COMPLETED USING 19mm COPPER. PEX WILL NOT BE ACCEPTED.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

PROPERTY LIMITS DELINEATION

DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.

2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

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

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	2025/04/15	TLE

KGS GROUP

DESIGNED BY	DB	CHECKED BY	TLE
DRAWN BY	KNS	APPROVED BY	MT
SCALE: HORIZONTAL	NA	RELEASED FOR CONSTRUCTION	
VERTICAL	NA		
DATE	2025 04 15	DATE	2021 05 03

PLOT DATE: 2025 04 15

ENGINEER'S SEAL
PROVINCE OF MANITOBA
M.A. TURKO
Licence No. 30633
2025-04-15
REGISTERED ENGINEERING LICENSEE

CONSULTANT DRAWING NUMBER
25-0107-001_D-17246

BID OPPORTUNITY: 286-2025
CONTRACT NUMBER: #2

FILE PATH: C:\Users\KSAWAT~1\AppData\Local\Temp\AcPublish_23172\
FILE NAME: 25-0107-001-SHEETS.dwg

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2025 WATER MAIN RENEWALS
CONTRACT #2

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DESIGN NOTES, LEGEND AND ABBREVIATIONS

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