

DRAWING INDEX

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CONSTRUCTION NOTES:

- ALL UNDERGROUND AND SURFACE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- ALL EXISTING UNDERGROUND SERVICES SHOWN ON DRAWINGS ARE APPROXIMATELY ONLY.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SERVICES PRIOR TO START OF CONSTRUCTION, HYDROVAC OR OTHER APPROVED METHOD TO CONFIRM DEPTHS AND LOCATIONS OF ALL EXISTING UTILITIES, ALONG LDS ALIGNMENT.
- CONTRACTOR TO INSTALL PIPE BY TRENCHLESS METHODS UNLESS OTHERWISE APPROVED.
- BACKFILL UNDER PAVEMENT & WITHIN 1.0 m OF PAVEMENT ON ROADWAYS TO BE CLASS 3.
- BACKFILL IN BOULEVARDS TO BE CLASS 5.
- EXISTING SEWER AND WATER SERVICES TO BE REGRADED AS REQUIRED FOR CONSTRUCTION OF NEW LDS PIPING.
- EXISTING SERVICES OF THE COMBINED SEWER TO BE ABANDONED SHALL BE INSPECTED IN ADVANCE OF ABANDONING TO CONFIRM THAT NO REMAINING ACTIVE SERVICE CONNECTIONS EXIST.
- CONTRACTOR SHALL MITIGATE IMPACTS TO THE WORK AREA FROM SITE SURFACE RUNOFF.
- PEDESTRIAN ACCESS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION AT ALL TIMES UNLESS OTHERWISE STATED. ALTERNATE ACTIVE TRANSPORTATION PATHWAY ROUTING TO BE PROVIDED IN ACCORDANCE WITH CITY OF WINNIPEG REQUIREMENTS.
- RESTORE ALL EXISTING SURFACES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO PAVEMENT, CURBS, SIDEWALKS, SOD TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- MANHOLES AND RIMS TO BE ROTATED TO BE AS CLOSE TO THE CENTER LINE OF ANY TRAFFIC LANE AS POSSIBLE.

ABBREVIATIONS

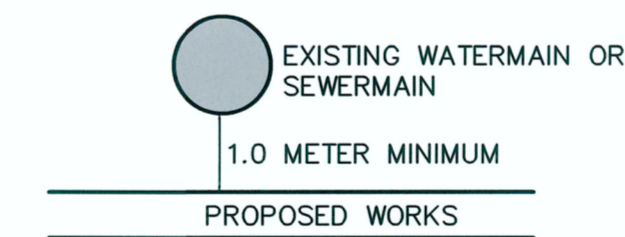
ABAND	ABANDONED
AC	ASBESTOS CEMENT
BLDG	BUILDING
B.M.	BENCH MARK
CB	CATCH BASIN
CI	CURB INLET
CI	CAST IRON
CL	CENTER LINE
CONC	CONCRETE
CRN	CORNER
CS	COMBINED SEWER
C/S OR S/C	CURB STOP
CULV	CULVERT
C/W	CONSTRUCTED WITH
DI	DUCTILE IRON
E	EAST
ELEV	ELEVATION
EXIST	EXISTING
FIBRE	FIBRE OPTIC
G.I.S.	GEOGRAPHIC 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
PL	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

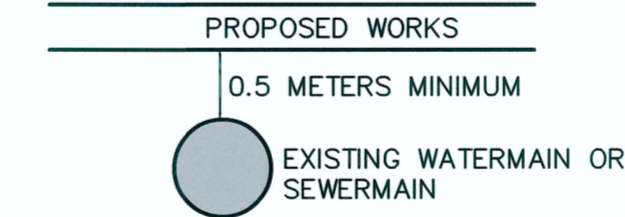
DESCRIPTION	PLAN VIEW	
	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT		
VALVE		
CURB STOP		
REDUCER		
COUPLING OR SLIDER		
CROSS		
BEND - 11.25', 22.5', 45', 90'		
TEE		
VERTICAL BEND		
ANGODE		
REPAIR MARKER		
PLUG		
SEWER PIPE		
MANHOLE		
CATCH BASIN		
CURB INLET		
JUNCTION		
DITCH		
CULVERT		
SURVEY 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		
ROCK COLUMN		

MINIMUM REQUIRED VERTICAL CLEARANCE DISTANCES BETWEEN EXISTING WATERMAIN/ SEWERMAIN AND PROPOSED WORKS

A MINIMUM CLEARANCE OF 1.0 m MUST BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING WATERMAIN OR SEWERMAIN AND THE TOP OF ANY EXISTING WORKS. THIS INSTALLATION BY TRENCHLESS METHOD ONLY.



A MINIMUM CLEARANCE OF 0.5 m MUST BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING WATERMAIN OR SEWERMAIN BY TRENCHLESS OR OPEN TRENCH UNLESS OTHERWISE SHOWN ON THE DRAWINGS.



A SHAFT MUST BE EXCAVATED BY SOFT DIG METHODS 4.0 m FROM THE CENTRELINE OF THE EXISTING WATERMAIN OR SEWERMAIN TO CONFIRM THE ALIGNMENT AND ELEVATION OF THE DRILLING ROD BEFORE IT CROSSES OVER OR UNDER THE EXISTING WATERMAIN OR SEWERMAIN. THIS CONFIRMATION MUST BE WITNESSED BY A CITY REPRESENTATIVE.

PROFILE

DESCRIPTION	PROFILE	
	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 EAST)		
DITCH (SOUTH AND EAST)		
STRUCTURE		
MANHOLE OR CATCH BASIN		



ISSUED FOR TENDER
NOT TO BE USED FOR CONSTRUCTION

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

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.	NO.	ISSUED FOR TENDER	DATE	BY
	A	ISSUED FOR TENDER	2023 05 10	ASD
	NO.	REVISIONS	DATE	BY

KGS GROUP

DESIGNED BY	GH	CHECKED BY	TLE
DRAWN BY	GH	APPROVED BY	RBO
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL	NA	DATE	2023 05 10
VERTICAL	NA	DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
G.T.
HEINRICHS
Member
138162
1991, 2022
REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

McLEOD CREEK DRAINAGE IMPROVEMENTS

INDEX PAGE AND KEYPLAN

SHEET 2 OF 16
CITY DRAWING NUMBER LD-12121