DRAWING INDEX

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2	D–15939	DRAWING INDEX – DESIGN NOTES, LEGEND AND ABBREVIATIONS
3	D–15940	CORYDON AVENUE – CORYDON AVENUE AT PARK BOULEVARD NORTH – STA 0+82 TO 1+25
4	D–15941	PARK BOULEVARD NORTH – CORYDON AVENUE TO NANTON BOULEVARD – STA 0+89 TO 2+25
5	D–15942	PARK BOULEVARD NORTH – CORYDON AVENUE TO NANTON BOULEVARD – STA 2+25 TO 3+75
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7	D–15944	PARK BOULEVARD NORTH – NANTON BOULEVARD TO WELLINGTON CRESCENT – STA 6+00 TO 7+25
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13	D–15950	NANTON BOULEVARD – LAMONT BOULEVARD TO HANDSART BOULEVARD – STA 2+25 TO 3+50
14	D–15951	HANDSART BOULEVARD – AT NANTON BOULEVARD – STA 0+90 TO 1+50
15	D–15952	BRAEMAR AVENUE – CATON STREET TO NIVERVILLE AVENUE – STA 1+50 TO 3+00
16	D–15953	BRAEMAR AVENUE – NIVERVILLE AVENUE TO DUBUC STREET – STA 3+00 TO 4+25
17	D–15954	BRAEMAR AVENUE – NIVERVILLE AVENUE TO DUBUC STREET – STA 4+25 TO 5+50
18	D–15955	DUBUC STREET – CHAMPLAIN STREET TO BRAEMAR AVENUE – STA 0+75 TO 2+00

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
₽	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

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. EXPOSE EXISTING WATER MAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
2. LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
3. INSTALL WATER MAIN BY TRENCHLESS METHODS.
4. TRENCHES AND EXCAVATIONS WITHIN 1 METER 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 WATER MAIN SHALL BE 2.4m.
7. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO ₽.
8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

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	*H	
LAMP STANDARD		
HYDRO POLE W/STREET LIGHTING	H	
POLE		
GUY ANCHOR		
M.T.S. POLE	*M	
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	M	
PARKING METER	P	
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		

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.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	2021 04 01	

KGS GROUP

DESIGNED BY	TLE	CHECKED BY	MAT
DRAWN BY	GEL	APPROVED BY	
SCALE: HORIZONTAL	NA	RELEASED FOR CONSTRUCTION	
VERTICAL	NA		
DATE	2021 03 31	DATE	

PLOT DATE: 2021 03 31

ENGINEER'S SEAL
PROVINCE OF MANITOBA — M.A. TURKO — Licence No. 30633 — REGISTERED ENGINEERING LICENCE

CONSULTANT DRAWING NUMBER
D–15939

BID OPPORTUNITY: 183–2021
CONTRACT NUMBER:

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2021 WATER MAIN RENEWALS
CONTRACT 11

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FILE NAME: 21–0107–002_COV–IND–DET.dwg