

**DRAWING INDEX**

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
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2	D-14676	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
3	D-14677	DONALD STREET - PORTAGE AVENUE TO NOTRE DAME AVENUE - PORTAGE AVENUE TO STA 1+80
4	D-14678	DONALD STREET - PORTAGE AVENUE TO NOTRE DAME AVENUE - STA 1+80 TO STA 2+90
5	D-14679	DONALD STREET - PORTAGE AVENUE TO NOTRE DAME AVENUE - STA 2+90 TO NOTRE DAME AVENUE
6	D-14680	PRINCESS STREET - NOTRE DAME AVENUE TO McDERMOT AVENUE - NOTRE DAME AVENUE TO STA 1+70
7	D-14681	PRINCESS STREET - NOTRE DAME AVENUE TO McDERMOT AVENUE - STA 1+70 TO McDERMOT AVENUE
8	D-14682	SMITH STREET - ELLICE AVENUE TO NOTRE DAME AVENUE
9	D-14683	ARTHUR STREET - NOTRE DAME AVENUE TO McDERMOT AVENUE - NOTRE DAME AVENUE TO STA 1+70
10	D-14684	ARTHUR STREET - NOTRE DAME AVENUE TO McDERMOT AVENUE - STA 1+70 TO McDERMOT AVENUE
11	D-14685	ALBERT STREET - NOTRE DAME AVENUE TO McDERMOT AVENUE - NOTRE DAME AVENUE TO STA 1+70
12	D-14686	ALBERT STREET - NOTRE DAME AVENUE TO McDERMOT AVENUE - STA 1+70 TO McDERMOT AVENUE
13	D-14687	GARRY STREET - GRAHAM AVENUE TO PORTAGE AVENUE - GRAHAM AVENUE TO STA 1+90
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15	D-14689	BROADWAY - SMITH STREET TO GARRY STREET
16	D-14690	GARRY STREET - ASSINIBOINE AVENUE TO BROADWAY - ASSINIBOINE AVENUE TO STA 1+80
17	D-14691	GARRY STREET - ASSINIBOINE AVENUE TO BROADWAY - STA 1+80 TO BROADWAY
18	D-14692	H.P. WATER MAIN ABANDONMENTS - ARTHUR STREET, NOTRE DAME AVENUE AND PORTAGE AVENUE (HARGRAVE STREET TO DONALD STREET)
19	D-14693	H.P. WATER MAIN ABANDONMENTS - GARRY ST, MAIN ST (PORTAGE AV TO LOMBARD AV) AND PORTAGE AVE (GARRY ST TO MAIN ST)
20	D-14702	H.P. WATER MAIN ABANDONMENTS - GRAHAM AV (FORT ST TO MAIN ST) AND MAIN ST (GRAHAM AV TO PORTAGE AV)
21	D-14703	PIONEER AVENUE - MAIN STREET TO TIE-IN 20m± WEST OF WESTBROOK ST - MAIN STREET TO STA 1+70
22	D-14704	PIONEER AVENUE - MAIN STREET TO TIE-IN 20m± WEST OF WESTBROOK ST - STA 1+70 TO EAST TIE-IN

**ABBREVIATIONS**

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ℓ	PROPERTY LINE
ℓ	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
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

**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	⊥	⊥
ANODE	⊕	⊕
REPAIR MARKER	⊕	⊕
PLUG	⊕	⊕
SEWER PIPE	—	—
MANHOLE	⊕	⊕
CATCH BASIN	⊕	⊕
CURB INLET	⊕	⊕
JUNCTION	⊥	⊥
ℓ 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	—	—
ℓ	—	—
PROJECTED ℓ	—	—
LOT LINE	—	—
SIDEWALK - PATHWAY	—	—
EASEMENT	—	—
EDGE OF BUILDING	—	—
MAILBOX	⊕	⊕
PARKING METER	⊕	⊕
TEST HOLE	⊕	⊕
TREE LINE OR BUSH	⊕	⊕

**PROFILE**

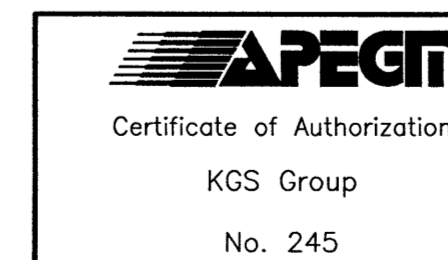
DESCRIPTION	PROFILE	
	EXISTING	PROPOSED
WATER PIPE	—	—
HYDRANT TOP	⊕	⊕
VALVE	⊗	⊗
TEE OR CROSS	⊥	⊥
COUPLING OR BEND	⊥	⊥
REDUCER	⊥	⊥
END OF PIPE	⊕	⊕
SEWER PIPE	—	—
UNPAVED GROUND SURFACE	—	—
PAVED GROUND SURFACE - ℓ PIPE	—	—
GUTTER (NORTH AND WEST)	—	—
GUTTER (SOUTH AND EAST)	—	—
ℓ DITCH (NORTH AND WEST)	—	—
ℓ 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

**CONSTRUCTION NOTES**

1. EXPOSE EXISTING WATER MAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
2. LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
3. ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
4. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO ℓ.
5. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.
6. INSTALL WATER MAIN BY TRENCHLESS METHODS.
7. MINIMUM COVER TO TOP OF PROPOSED WATER MAIN IS 2.5m FROM STREET CENTERLINE.
8. INSTALLED ALL HYDRANTS WITH FLANGE ELEVATION 50mm TO 150mm ABOVE FINISHED GRADE.
9. BACKFILL UNDER OR WITHIN 1.0m OF PAVEMENTS, (INCLUDING SIDEWALKS) IS CLASS 3 BACKFILL EXCEPT AS NOTED. BACKFILL IN BOULEVARDS IS CLASS 5 BACKFILL.
10. SERVICE CONNECTIONS MAY STILL EXIST ON THE 300 & 250 HP CI WM, VERIFY AND RELOCATE IF NECESSARY.



LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE		B.M. ELEV.				ENGINEER'S SEAL OFFMAN Member 24701	
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.		DESIGNED BY TLE CHECKED BY SH DRAWN BY GEL APPROVED BY RBO		SCALE: HORIZONTAL — VERTICAL —		RELEASED FOR CONSTRUCTION KZ	
1 REISSUED FOR CONSTRUCTION 17/05/04 0 ISSUED FOR CONSTRUCTION 17/04/27 RBO		DATE 2017 05 03		DATE 2017 04 27		CONSULTANT DRAWING NUMBER 17-0107-008_C01	

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT  
 ENGINEERING DIVISION  
 2017 WATER MAIN RENEWALS  
 CONTRACT 8  
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 CITY DRAWING NUMBER D-14676