

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1		DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
2	D-13678	ALFRED AVENUE - SINCLAIR STREET TO 75 E OF SINCLAIR STREET
3	D-13679	ALFRED AVENUE - 75 E OF SINCLAIR STREET TO ARLINGTON STREET
4	D-13680	BOYD AVENUE - ARTILLERY STREET TO 100 E OF ARTILLERY STREET
5	D-13681	BOYD AVENUE - 100 E OF ARTILLERY STREET TO 37 E OF SINCLAIR STREET
6	D-13682	BOYD AVENUE - 37 E OF SINCLAIR STREET TO ARLINGTON STREET
7	D-13683	ARTILLERY STREET - REDWOOD AVENUE TO BOYD AVENUE

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
℄	PROPERTY LINE
℄	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	WATERMAIN
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 SLIDDER	X	X
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 VIDEO	⋈	⋈
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	⋈	⋈

PROFILE

DESCRIPTION	PROFILE	
	EXISTING	PROPOSED
WATER PIPE	—	—
HYDRANT TOP	+	+
VALVE	X	X
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	⋈	⋈

CONSTRUCTION NOTES

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

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

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.		ENGINEER'S SEAL		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION	
SUPV. U/G STRUCTURES COMMITTEE		CONSTRUCTION COMPLETION DATE: YYYY MM DD		DESIGNED BY MK/TS		2014 WATER RENEWALS	
DATE				CHECKED BY SC		SHEET 1 OF 7	
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.				DRAWN BY RS/MA/SM		CITY DRAWING NUMBER	
				APPROVED BY KZ			
				RELEASED FOR CONSTRUCTION			
				DATE 2014 09 12			
				DATE			
				PLOT DATE: 2014 09 12			
				CONTRACT NUMBER: 5		FILE PATH: R:\DRAWINGS\WATER\RENEWAL\2014_RENEWALS\CONTRACT 5\	
				CONTRACT NUMBER: 5		FILE NAME: CONTRACT 5- INDEX.dwg	