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HATCH PATTERNS

PROPOSED

EXISTING

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.

ABBREVIATIONS

CS

LDS

G.I.S.

B.M.

ELEV

INV

TS

ABAND

BLDG

HSE

CRN

OPP

C/S OR S/C

MTS

R.O.W.

CULV

CB

CI

VERT.

HORZ.

I.B.

FIBRE

TYP

X-ING

HYD

EXIST

C/W

CONC

AC

VC OR CLAY

CI

PVC

HDPE

PCCP

WASTE WATER SEWER

COMBINED SEWER

LAND DRAINAGE SEWER

PROPERTY LINE

CENTER LINE

GEOGRAPHIC INFORMATION SYSTEM

BENCH MARK

TEST HOLE

ELEVATION

INVERT

MINIMUM

MAXIMUM

STREET LIGHTING

TRAFFIC SIGNALS

ABANDONED

BUILDING

HOUSE

CORNER

OPPOSITE

CURB STOP

MANITOBA TELEPHONE SYSTEM

RIGHT-OF-WAY WATERMAIN

CULVERT

MANHOLE

CATCH BASIN

CURB INLET

VERTICAL

HORIZONTAL

IRON BAR

FIBRE OPTIC

TYPICAL

CROSSING

HYDRANT

EXISTING

NORTH

EAST

SOUTH

WEST

WITH

CONSTRUCTED WITH

CONCRETE

ASBESTOS CEMENT

VITRIFIED CLAY

CAST IRON

DUCTILE IRON

POLYVINYL CHLORIDE

HIGH DENSITY POLYETHYLENE

PRESTRESSED CONCRETE CYLINDER PIPE

- 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 P.
- 8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

~~~~~ TREE LINE OR BUSH **PROFILE EXISTING** ABANDONED PROPOSED DESCRIPTION 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) Δ Δ € DITCH (SOUTH AND EAST) STRUCTURE MANHOLE OR CATCH BASIN

CONCRETE
WASHED STONE OR GRANULAR MATERIAL
INTERLOCKING STONE
METAL
GRAVEL OR STONE

DESCRIPTION

EARTH OR GROUND ABOVE PIPE

SAND OR OTHER FINE MATERIAL

LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE DESIGNED CHECKED SC DRAWN APPROVED LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL SCALE: RELEASED FOR EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN CONSTRUCTION 1: 250 LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL HORIZONTAL K.ZUREK 1:50 VERTICAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

DATE

2019 04 12

DATE

2019-04-12

Winnipeg

LEGEND

DESCRIPTION WATER PIPE

FIRE HYDRANT VALVE CURB STOP

REDUCER

COUPLING OR SLIDDER

CROSS

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

PROJECTED PL

LOT LINE

SIDEWALK - PATHWAY

EASEMENT

EDGE OF BUILDING

MAILBOX PARKING METER TEST HOLE

BEND - 11.25°, 22.5°, 45°, 90°

PLAN VIEW

ABANDONED

EXISTING

 \longrightarrow \longrightarrow \longrightarrow \longrightarrow

.

PROPOSED

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

ENGINEERING DIVISION

2019 WATER MAIN RENEWALS CONTRACT 2

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ENGINEER'S SEAL

ORIGINAL

SIGNED BY

S.R.J.

COURNOYER

19/04/12

CONSULTANT DRAWING NUMBER