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24	11719	NIAKWA ROAD EAST (WEST ℞) – 1ST MH N OF NIAKWA ROAD EAST (S-LEG) TO MH AT NIAKWA ROAD
25	11720	NORTH DRIVE – 3RD MH E OF PEMBINA HIGHWAY TO TO MH AT WICKLOW STREET
26	11721	NORTH DRIVE – MH AT RIVERSIDE DRIVE TO TO MH AT LYON STREET

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
SL	STREET LIGHTING
TS	TRAFFIC SIGNALS
ABAND	ABANDONED
BLDG	BUILDING
HSE	HOUSE
C/S	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
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

CONSTRUCTION NOTES

1. ALL PIPE SHALL HAVE CLASS B – TYPE 2 BEDDING
2. INSTALL SEWER BY TRENCHLESS METHODS.
3. CONFIRM THE LOCATION OF ALL SEWER SERVICES.
4. BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT TO BE CLASS 3.
5. BACKFILL IN BOULEVARD TO BE CLASS 5.
6. RENEW SEWER SERVICES TO ℞.
7. INSTALL SEWER SERVICE RISERS TO ELEVATION WHERE MINIMUM SLOPE OF 1% IS MAINTAINED FOR ALL SERVICES.

HATCH PATTERNS

AREA OF REPAIR ON PIPE

LEGEND

PLAN VIEW

DESCRIPTION	ABANDONED	EXISTING	PROPOSED
WATER PIPE			
FIRE HYDRANT			
VALVE			
CURB STOP			
REDUCER			
COUPLING OR SLIDDER			
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.			
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			
TEST HOLE			
TREE LINE OR BUSH			

52.0 MEASUREMENT TO REPAIR FROM REFERENCE MH SHOWN THUS... 0.0 MH

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

DESIGNED BY	SC	CHECKED BY	SC
DRAWN BY	RS	APPROVED BY	KZ
SCALE: HORIZONTAL VERTICAL		RELEASED FOR CONSTRUCTION	K.ZUREK
DATE	2018 05 16	DATE	2018 05 14

PLOT DATE: 2018 05 16

ENGINEER'S SEAL

ORIGINAL SIGNED BY S.R.J. COURNOYER 18/05/14

CONSULTANT DRAWING NUMBER

–

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2017 SEWER MAIN RENEWALS
CONTRACT 2

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CITY DRAWING NUMBER

11696

BID OPPORTUNITY: 112-2018
CONTRACT NUMBER: 2

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