## **DRAWING INDEX**

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02	D-16229	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
03	D-16230	HARTFORD AVENUE – SALTER STREET TO 85.0M EEL OF SALTER STREET
04	D-16231	HARTFORD AVENUE - 85.0M EEL OF SALTER STREET TO 6.0M EEL OF AIKINS STREET
05	D-16232	HARTFORD AVENUE - 6.0M EEL OF AIKINS STREET TO 80.0M WWL OF MAIN STREET
06	D-16233	HARTFORD AVENUE – 80.0 WWL OF MAIN STREET TO MAIN STREET
07	D-16234	MAIN STREET – ABERDEEN AVENUE TO 9.5M SSL OF REDWOOD AVENUE
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09	D-16236	REDWOOD AVENUE - CHARLES STREET TO 12.9M WWL OF MAIN STREET
10	D-16237	REDWOOD AVENUE - 12.9M WWL OF MAIN STREET TO 4.6M EEL MAIN STREET
11	D-16238	TEAKWOOD AVENUE - 76.3 WWL OF TEAKWOOD AVENUE TO E LEG OF TEAKWOOD AVENUE
12	D-16239	TEAKWOOD AVENUE - S LEG OF TEAKWOOD AVENUE TO JEFFERSON AVENUE

# HATCH PATTERNS

EXISTING	PROPOSED
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DESCRIPTION
EARTH OR GROUND ABOVE PIPE
SAND OR OTHER FINE MATERIAL
CONCRETE
WASHED STONE OR GRANULAR MATERIAL
INTERLOCKING STONE
METAL

GRAVEL OR STONE

LOCATI UNDERGR SUPV. U/G STRUCT COMMITTEE NOTE:

LOCATION OF U LOCATION OF UN SHOWN ARE BASE AVAILABLE BUT NO EXISTING UTILITIES A LOCATIONS ARE EXISTENCE AND SERVICES MUST BE UTILITIES BEFORE PI

### **ABBREVIATIONS**

WWS	WASTE WATER SEWER					
CS	COMBINED SEWER					
LDS	LAND DRAINAGE SEWER					
ዊ	PROPERTY LINE					
_ و	CENTER LINE					
 G.I.S.	GEOGRAPHIC INFORMATION SYSTEM					
В.М.	BENCH MARK					
ТН	TEST HOLE					
ELEV	ELEVATION					
INV	INVERT					
MIN	MINIMUM					
МАХ	ΜΑΧΙΜυΜ					
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					
МН	MANHOLE					
СВ	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					
Ν	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					

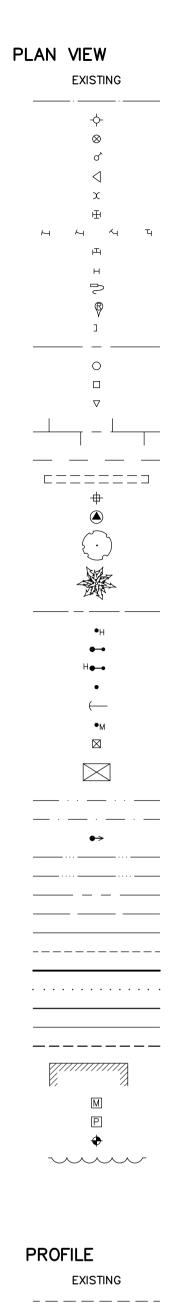
### **CONSTRUCTION NOTES**

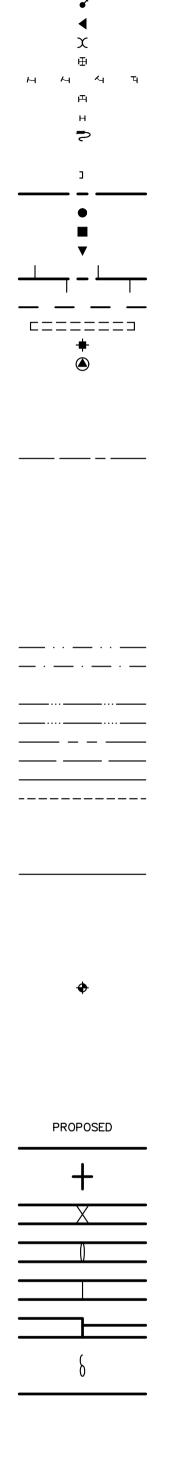
- 1. EXPOSE EXISTING WATERMAIN & CONFIRMED INVERTS PRIOR TO CONSTRUCTION.
- 2. LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
- 3. INSTALL WATERMAIN BY TRENCHLESS METHODS.
- 4. TRENCHES AND EXCAVATIONS WITHIN 1 METRE OF A PAVED AREA INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL.
- 5. ALL MATERIALS 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 P.
- 8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF WATER SHUTDOWNS OR DISRUPTION OF SERVICE.
- 9. CONTRACTOR TO MAINTAIN MINIMUM 1.0m CLEARANCE FROM TRAFFIC SIGNAL POLES AND CONTROLLERS WHERE POSSIBLE

ON APPROVED ROUND STRUCTURES	B.M. ELEV.					<b>\\</b>  )	1600 Buffalo Place Winnipeg, Manitoba R3T 6B8 Canada Phone: 204-477-6650 wsp.com		ENGINEER'S SEAL
IURES DATE					DESIGNED BY	K.G.	CHECKED BY	S.M.	REC S.C. MINTY MEMBER 23073
NDERGROUND STRUCTURES AS SED ON THE BEST INFORMATION					DRAWN BY	K.G.	APPROVED BY	S.M.	PROFESSION
O GUARANTEE IS GIVEN THAT ALL	С	ISSUED FOR TENDER	11/04/22	KG	SCALE:		RELEASED FOR		2022-04-12
ARE SHOWN OR THAT THE GIVEN RE EXACT. CONFIRMATION OF	В	DETAILED DESIGN SUBMISSION	25/03/22	KG	HORIZONTAL	1:250	CONSTRUCTION		CONSULTANT DRAWING NUMBER
ID EXACT LOCATION OF ALL OBTAINED FROM THE INDIVIDUAL	А	PRELIMINARY DESIGN SUBMISSION	01/03/22	KG	VERTICAL	1:50			
PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	ΒY	DATE 2022 04 11		DATE		221-00922-00-
					PLOT DATE:	2022 04 11			BID OPPORTUNITY: 228-2022

# **LEGEND**

DESCRIPTION
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
SURVET BAR
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
ካር PROJECTED ዊ
LOT LINE
SIDEWALK - PATHWAY
EASEMENT
EDGE OF BUILDING
MAILBOX
PARKING METER
TEST HOLE
TREE LINE OR BUSH





PROPOSED

DESCRIPTION WATER PIPE HYDRANT TOP

VALVE

TEE OR CROSS COUPLING OR BEND

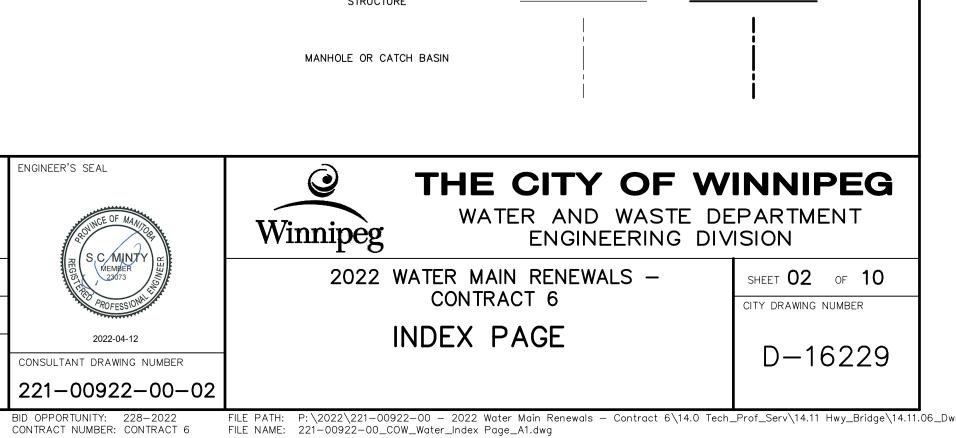
REDUCER

END OF PIPE

SEWER PIPE

UNPAVED GROUND SURFACE

PAVED GROUND SURFACE – 🤤 PIPE GUTTER (NORTH AND WEST) GUTTER (SOUTH AND EAST) € DITCH (NORTH AND WEST) STRUCTURE



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