

- CONSTRUCTION NOTES**
1. EXPOSE EXISTING WATERMAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
 2. CONFIRM LOCATION OF ALL SERVICES 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.

WATER SERVICE INFORMATION

ADDRESS	SIZE(mm)	SIZE(mm) & TYPE (STREET)	SHORT & LONG MEASUREMENT (PROP)	CORP. LOCATION	REMARKS
232 HARBISON AVE RESIDENTIAL	20	12	1.98 EWL HSE	0.05 W OF S/C	RECONNECT SERVICE
232 HARBISON AVE RESIDENTIAL	20	20	2.58 EEL BRAZIER	OPP S/C	RECONNECT SERVICE
232 HARBISON AVE RESIDENTIAL	20	20	10.97 EWL HSE	OPP S/C	RECONNECT SERVICE
233 HARBISON AVE RESIDENTIAL	20	20	1.59 EEL BRAZIER	0.1 W OF S/C	RECONNECT SERVICE
233 HARBISON AVE RESIDENTIAL	20	20	1.07 EWL HSE	0.1 W OF S/C	RECONNECT SERVICE
233 HARBISON AVE RESIDENTIAL	20	20	2.44 EEL BRAZIER	OPP S/C	RENEW TO R W/20 COPPER
235 HARBISON AVE RESIDENTIAL	12	12	2.47 EWL HSE	0.6 E OF S/C	RECONNECT SERVICE
235 HARBISON AVE RESIDENTIAL	12	12	13.63 EEL BRAZIER	0.6 E OF S/C	RECONNECT SERVICE
237 HARBISON AVE RESIDENTIAL	20	20	1.68 EEL HSE	0.6 E OF S/C	RECONNECT SERVICE
237 HARBISON AVE RESIDENTIAL	20	20	28.03 EEL BRAZIER	0.8 E OF S/C	RECONNECT SERVICE
238 HARBISON AVE RESIDENTIAL	20	20	1.67 EEL HSE	0.8 E OF S/C	RECONNECT SERVICE
238 HARBISON AVE RESIDENTIAL	20	20	26.21 EEL BRAZIER	0.7 E OF S/C	RECONNECT SERVICE
239 HARBISON AVE RESIDENTIAL	20	20	0.56 EWL HSE	1.3 E OF S/C	RECONNECT SERVICE
239 HARBISON AVE RESIDENTIAL	20	20	26.77 EEL BRAZIER	1.3 E OF S/C	RECONNECT SERVICE
240 HARBISON AVE RESIDENTIAL	12	12	OPP WL HSE	1.0 E OF S/C	RECONNECT SERVICE
240 HARBISON AVE RESIDENTIAL	12	12	26.52 EEL BRAZIER	1.0 E OF S/C	RENEW TO R W/20 COPPER
241 HARBISON AVE RESIDENTIAL	20	20	1.91 EWL HSE	0.3 E OF S/C	RECONNECT SERVICE
241 HARBISON AVE RESIDENTIAL	20	20	36.81 EEL BRAZIER	0.3 E OF S/C	RECONNECT SERVICE
242 HARBISON AVE RESIDENTIAL	20	12	0.89 EEL HSE	0.7 E OF S/C	RECONNECT SERVICE
242 HARBISON AVE RESIDENTIAL	20	12	40.33 EEL BRAZIER	0.7 E OF S/C	RECONNECT SERVICE
243 HARBISON AVE RESIDENTIAL	20	12	0.78 EEL HSE	0.7 E OF S/C	RECONNECT SERVICE
243 HARBISON AVE RESIDENTIAL	20	12	48.13 EEL BRAZIER	0.7 E OF S/C	RECONNECT SERVICE
244 HARBISON AVE RESIDENTIAL	20	12	0.90 WWL HSE	0.8 E OF S/C	RECONNECT SERVICE
244 HARBISON AVE RESIDENTIAL	20	12	40.56 EEL BRAZIER	0.8 E OF S/C	RECONNECT SERVICE
245 HARBISON AVE RESIDENTIAL	20	12	0.65 WWL HSE	0.6 E OF S/C	RECONNECT SERVICE
245 HARBISON AVE RESIDENTIAL	20	12	48.56 EEL BRAZIER	0.6 E OF S/C	RECONNECT SERVICE
247 HARBISON AVE RESIDENTIAL	12	12	2.70 EWL HSE	OPP S/C	RENEW TO R W/20 COPPER
247 HARBISON AVE RESIDENTIAL	12	12	59.68 EEL BRAZIER	OPP S/C	RECONNECT SERVICE
249 HARBISON AVE RESIDENTIAL	20	12	1.04 EEL HSE	1.2 E OF S/C	DBL SERV. W/251
249 HARBISON AVE RESIDENTIAL	20	12	71.28 EEL BRAZIER	1.2 E OF S/C	RECONNECT SERVICE
250 HARBISON AVE RESIDENTIAL	20	20	0.48 WEL HSE	0.6 E OF S/C	DBL SERV. W/252
250 HARBISON AVE RESIDENTIAL	20	20	69.28 EEL BRAZIER	0.6 E OF S/C	RECONNECT SERVICE
251 HARBISON AVE RESIDENTIAL	20	12	OPP WL HSE	0.8 E OF S/C	DBL SERV. W/249
251 HARBISON AVE RESIDENTIAL	20	12	71.67 EEL BRAZIER	0.8 E OF S/C	RECONNECT SERVICE
252 HARBISON AVE RESIDENTIAL	20	12	1.51 WWL HSE	0.2 E OF S/C	DBL SERV. W/250
252 HARBISON AVE RESIDENTIAL	20	12	69.68 EEL BRAZIER	0.2 E OF S/C	RECONNECT SERVICE
254 HARBISON AVE RESIDENTIAL	20	12	1.33 WEL HSE	0.3 E OF S/C	DBL SERV. W/256
254 HARBISON AVE RESIDENTIAL	20	12	84.10 EEL BRAZIER	0.3 E OF S/C	RECONNECT SERVICE
255 HARBISON AVE RESIDENTIAL	20	20	1.21 WWL HSE	1.8 E OF S/C	RECONNECT SERVICE
255 HARBISON AVE RESIDENTIAL	20	20	79.97 EEL BRAZIER	1.8 E OF S/C	RECONNECT SERVICE
256 HARBISON AVE RESIDENTIAL	20	12	3.15 WWL HSE	0.3 E OF S/C	DBL SERV. W/254
256 HARBISON AVE RESIDENTIAL	20	12	84.10 EEL BRAZIER	0.3 E OF S/C	RECONNECT SERVICE
258 HARBISON AVE RESIDENTIAL	20	20	1.98 EWL HSE	OPP S/C	RECONNECT SERVICE
258 HARBISON AVE RESIDENTIAL	20	20	96.17 EEL BRAZIER	OPP S/C	RECONNECT SERVICE
266 HARBISON AVE RESIDENTIAL	20	12	1.64 EWL HSE	0.3 W OF S/C	RECONNECT SERVICE
266 HARBISON AVE RESIDENTIAL	20	12	103.84 EEL BRAZIER	0.3 W OF S/C	RECONNECT SERVICE

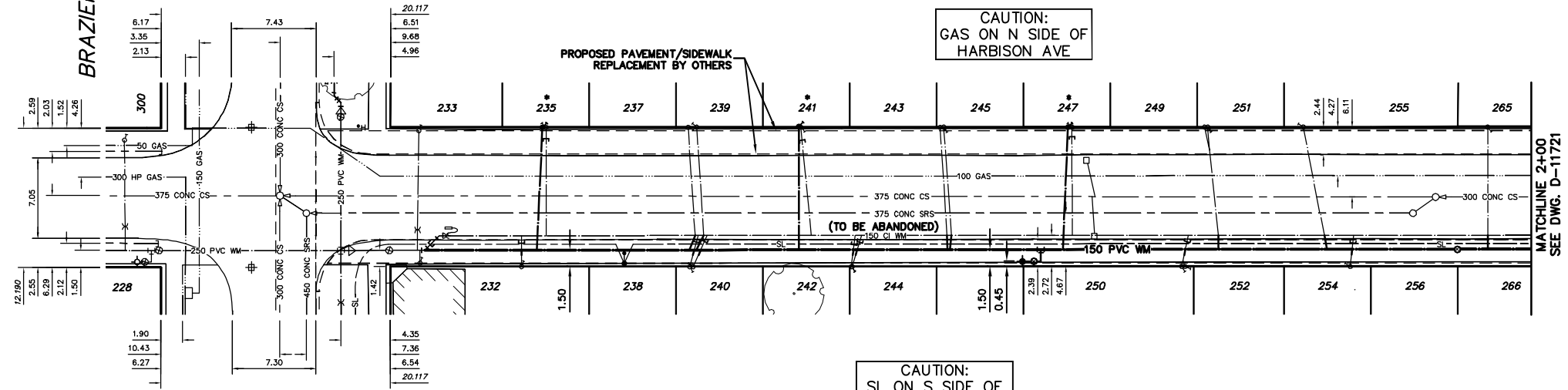
* SERVICES TO BE RENEWED TO R UPON CONFIRMATION BY THE CONTRACTOR OF EXISTING LEAD SERVICE. OBTAIN APPROVAL FROM CONTRACT ADMINISTRATOR PRIOR TO RENEWAL.

NOTE: CHAINAGES SHOWN ARE ALONG S R OF HARBISON AVE

HARBISON AVENUE (WEST)

CAUTION: GAS ON N SIDE OF HARBISON AVE

CAUTION: SL ON S SIDE OF HARBISON AVE



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
200 WM	WATERMAIN	200 WM	SL, HYDRO	MTS	150 WM	WATERMAIN	150 WM	
525 LDS	LAND DRAINAGE SEWER	525 LDS	TRAFFIC SIGNALS	GAS	50 GAS	300 LDS	LAND DRAINAGE SEWER	300 LDS
375 WWS	WASTEWATER SEWER	375 WWS	SURVEY BAR	FENCE	250 WWS	WASTEWATER SEWER	250 WWS	
○	MANHOLE	●	* * * *	POLE - HYDRO, MTS	△	€ PROFILE		
□	CATCH BASIN	■	* * H * T	CURB STOP	▽	€ DITCH (NORTH & WEST)		
▽	CURB INLET	▽	◀	GUY ANCHOR	▽	€ DITCH (SOUTH & EAST)		
∇	REDUCER	∇	⊕	LIGHT STANDARD	⊕	GUTTER (NORTH & EAST)		
X	COUPLER	X	○	TREE	○	GUTTER (SOUTH & EAST)		
⊕	ANODE	⊕						

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.	FIELD BOOK #:
POSTED TO LBS	
DESIGNED BY	NC
CHECKED BY	NC
DRAWN BY	CJH
APPROVED BY	KZ
HOR. SCALE	1:250
VERTICAL	1:50
RELEASED FOR CONSTRUCTION	
NO. REVISIONS	DATE BY
DATE	2009 03 12

CITY OF WINNIPEG WATER AND WASTE ENGINEERING DIVISION

DESIGNED BY: NC
CHECKED BY: NC
DRAWN BY: CJH
APPROVED BY: KZ
HOR. SCALE: 1:250
VERTICAL: 1:50
RELEASED FOR CONSTRUCTION: 2009 03 12

ENGINEER'S SEAL

ORIGINAL SIGNED BY K.R. ZUREK 09/03/12

BID OPPORTUNITY 196-2009
FILENAME: D-11720.dwg
PLOT DATE: 2009 03 13

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

2009 WATERMAIN RENEWALS CONTRACT 4
HARBISON AVENUE (WEST)
BRAZIER STREET TO 100 E OF BRAZIER STREET

SHEET 3 OF 10
CITY DRAWING NUMBER D-11720

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

NOTE: ALL VALVES TO BE INSTALLED COUNTERCLOCKWISE TO CLOSE

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

- 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS