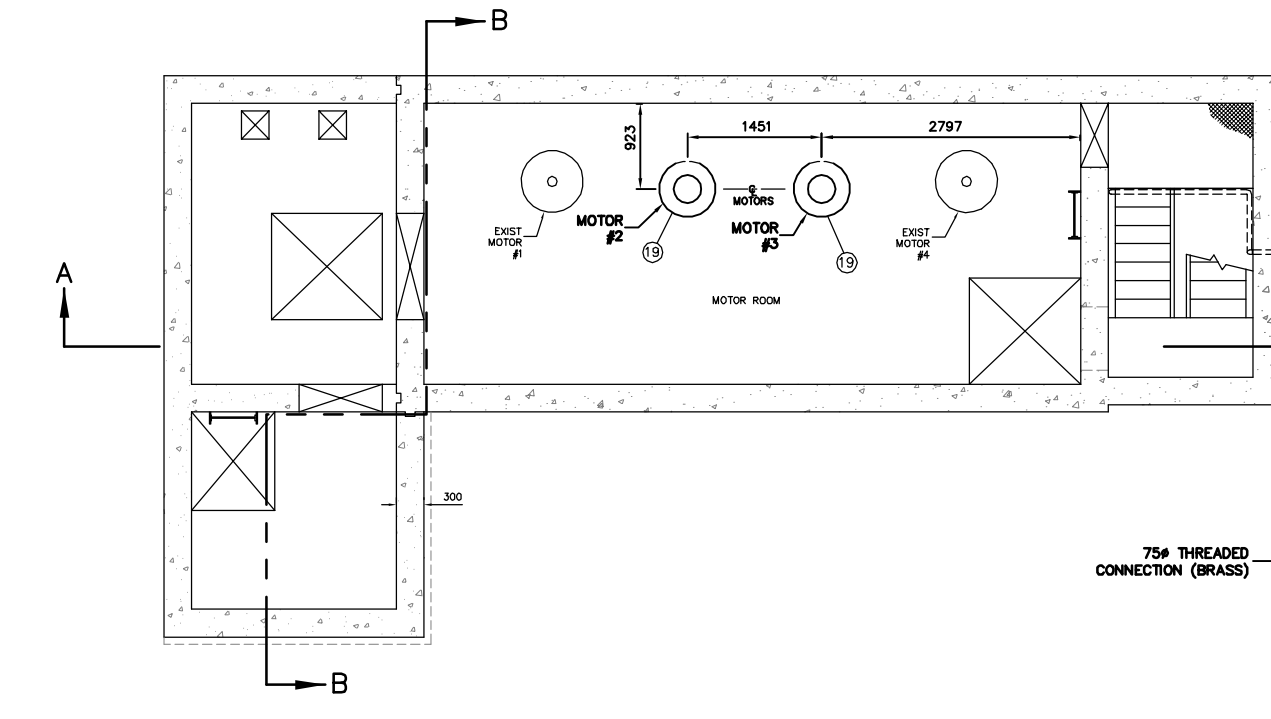


**PUMP ROOM  
PLAN VIEW - ELEV 222.100**  
SCALE 1:40



**MOTOR ROOM & COMMUNICATOR ROOM  
PLAN VIEW - ELEV 225.150**  
SCALE 1:40

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETERS  
DECIMALIZED NUMBERS INDICATE METERS

200 WM	WATERMAIN	200 WM	SL, HYDRO	150 WM	WATERMAIN	150 WM
+	HYDRANT	+	MTS	+	HYDRANT	+
o	VALVE	o	TRAFFIC SIGNALS	o	VALVE	o
525 LDS	LAND DRAINAGE SEWER	525 LDS	GAS	50 GAS	300 LDS	LAND DRAINAGE SEWER
375 WWS	WASTEWATER SEWER	375 WWS	SURVEY BAR	250 WWS	WASTEWATER SEWER	250 WWS
o	MANHOLE	o	FENCE	x	o	PROFILE
□	CATCH BASIN	□	POLE - HYDRO, MTS	□	GROUND ABOVE PIPE	□
▽	CURB INLET	▽	CURB STOP	▽	DITCH (NORTH & WEST)	▽
+	JUNCTIONS	+	GUY ANCHOR	+	DITCH (SOUTH & EAST)	+
—	CULVERT	—	LIGHT STANDARD	—	GUTTER (NORTH & WEST)	—
⊕	ANODE	⊕	TREE	⊕	GUTTER (SOUTH & EAST)	⊕
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING
---	LEGEND-PROFILE	---	---	LEGEND-PROFILE	---	---

**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 LIS:	
DESIGNED BY	DEB
CHECKED BY	DEB
DRAWN BY	CJH
APPROVED BY	KZ
HOR. SCALE	1:250
VERTICAL SCALE	1:50
RELEASED FOR CONSTRUCTION	K.R. ZUREK
DATE	2012 02 21
DATE	2012 02 22
NO. REVISIONS	DATE BY

**CITY OF WINNIPEG  
WATER AND WASTE  
ENGINEERING DIVISION**

DESIGNED BY: DEB  
CHECKED BY: DEB  
DRAWN BY: CJH  
APPROVED BY: KZ  
HOR. SCALE: 1:250  
VERTICAL SCALE: 1:50  
RELEASED FOR CONSTRUCTION: K.R. ZUREK  
DATE: 2012 02 21

ENGINEER'S SEAL

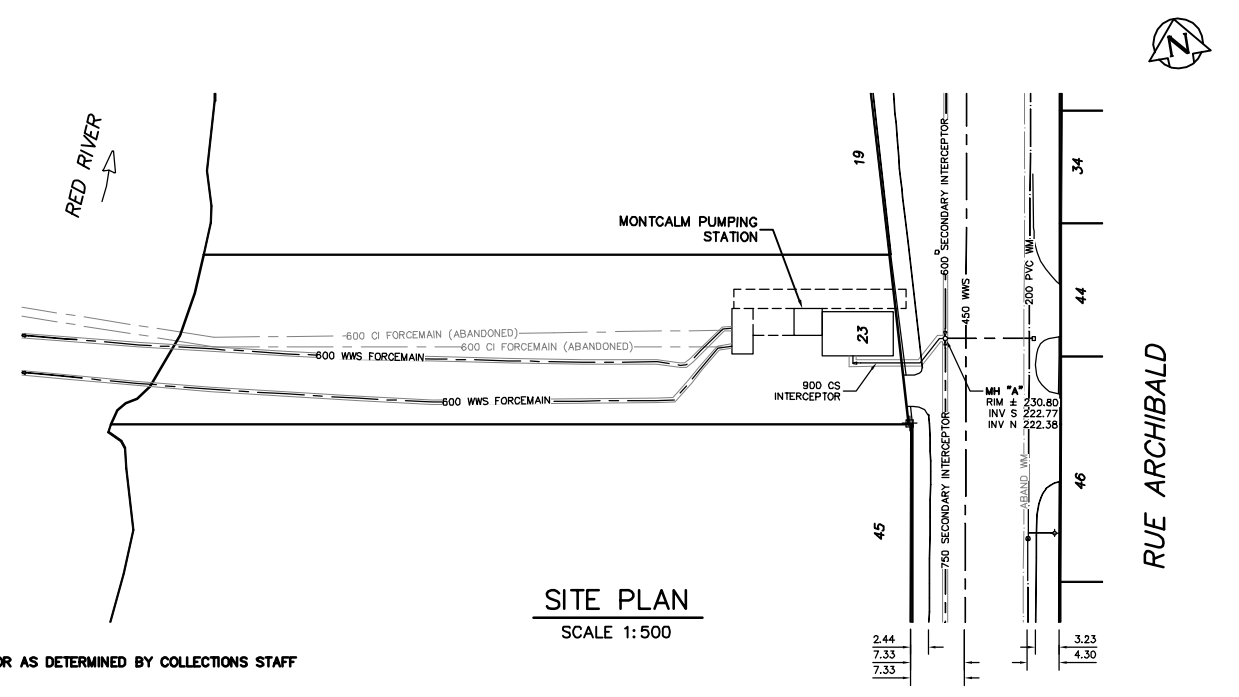
ORIGINAL SIGNED BY K.R. ZUREK  
2012 02 22

BID OPPORTUNITY: 907-2011  
FILENAME: Montcalm-new.dwg  
PLOT DATE: 2012 02 23

**THE CITY OF WINNIPEG  
WATER AND WASTE DEPARTMENT**

2011 INSTALLATION OF NEW PUMPING UNITS AND MODIFICATIONS TO THE MONTCALM WASTEWATER PUMPING STATION UPGRADES  
STATION PLAN VIEWS

SHEET 1 OF 3  
CITY DRAWING NUMBER  
1-0164L-M0006



**SITE PLAN**  
SCALE 1:500

**CONSTRUCTION NOTES:**

- ALLOWABLE SHUTDOWN TIME: MAX. 4.0 HRS OR AS DETERMINED BY COLLECTIONS STAFF
- CRITICAL BASEMENT ELEVATION: 225.552
- REMOVE EXISTING PUMPS #2 & #3, MOTORS, DRIVESHAFTS, PIPING, VALVES, FITTINGS, AND OTHER MATERIALS AS REQUIRED. INSTALL NEW PUMPS, MOTORS, PIPING, VALVES AND FITTINGS AS SHOWN.
- PROVIDE TEMPORARY BY-PASS PUMPING OF WASTEWATER DURING CONSTRUCTION.
- INSTALL MECHANICAL & ELECTRICAL WORKS AS INDICATED AND ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- EXCAVATIONS TO BE BACKFILLED WITH CLASS 3 OR CLASS 5 BACKFILL IN ACCORDANCE WITH CW 2030 AND SD-002.
- FLANGE NUTS & BOLTS TO BE ASTM A307.
- GASKETS TO BE FULL FACED, 3 THICK RED RUBBER.
- CONTRACTOR TO CONFIRM ALL DIMENSIONS BEFORE ASSEMBLING PIPE.
- ALL ANCHOR BOLTS TO BE ASTM A276 TYPE 316 SS.

**MATERIALS LIST**

ITEM	DESCRIPTION	ENDS	LENGTH	QUANTITY
1	300# PIPE	FL X PE	300±	2
2	300# GATE VALVE	FL	355±	2
3	FLOWSERVE PUMP - MODEL 10MFV-16	FL	940±	2
4	250# CHECK VALVE WITH RUBBER FLAP	FL	622±	2
5	250# PIPE	FL	150±	1
6	250# UNI-FLANGE	-	-	1
7	250# CAST IRON 45° BEND	FL	-	1
8	250# GATE VALVE	FL	330±	2
9	400 X 250 CAST IRON REDUCER	FL	457±	1
10	400# SPECIAL SPOOL (TO MATCH H. & V. ALIGNMENT)	FL	322±	1
11	250# CAST IRON 90° BEND	FL	-	1
12	400 X 250 SPECIAL REDUCER (TO MATCH H. & V. ALIGNMENT)	FL	457±	1
13	600# STYLE 44 VC COUPLING W/GASKET	-	-	2
14	600# PIPE	FL X PE	200±	2
15	600# UNI-FLANGE	-	-	3
16	600# NON RISING STEM GATE VALVES W/PEDESTAL OPERATORS	FL	508±	3
17	600# TRANSITION COUPLING	FL X PE	-	2
18	600# PIPE	FL X FL	200±	1
19	PUMP MOTOR - 100 HP	-	-	2
20	750# NON RISING STEM GATE VALVES W/PEDESTAL OPERATORS	FL	610±	2
21	750# CAST IRON 11.25° BEND	FL	-	1
22	750# PIPE	FL	178±	1
23	750# CAST IRON 22.5° BEND	FL	-	2
24	750# PIPE	FL X PE	620±	1
25	750# CAST IRON 90° BEND	FL	-	2
26	750# DI FLANGED WALL THIMBLE	-	-	3
27	750# DI BLIND FLANGE	-	-	1
28	750# UNI-FLANGE	-	-	2
29	300# PIPE	FL X PE	175±	2
30	300# UNI-FLANGE	-	-	2
31	300# PIPE	FL X PE	150±	2
32	110V, MIN 1/3 HP, SUMP PUMP W/FLOAT SWITCH	-	-	3
33	38# GATE VALVE	-	-	5
34	38# CHECK VALVE	-	-	4
35	50# GATE VALVE	-	-	2
36	50# CHECK VALVE	-	-	1
37	75# GATE VALVE	-	-	2
38	75# TYPE 316 SS PIPE	-	-	2
39	75# ONE WAY AIR VALVE	-	-	2

**NOTE:**  
LENGTHS & DIMENSIONS SHOWN AS ± TO BE FIELD CONFIRMED BY CONTRACTOR  
- ITEMS SUPPLIED BY CITY  
- CONTRACTOR TO SUPPLY AND INSTALL POWER CABLES AND CONDUIT FROM PUMP MOTORS TO ELECTRICAL CONTROL PANEL IN STATION  
- CONTRACTOR TO SUPPLY CABLES & CONDUIT FROM SUMP PUMPS TO ELECTRICAL OUTLETS IN COMMUNICATOR ROOM  
- VALVE PEDESTAL OPERATORS TO HAVE POSITION INDICATORS.