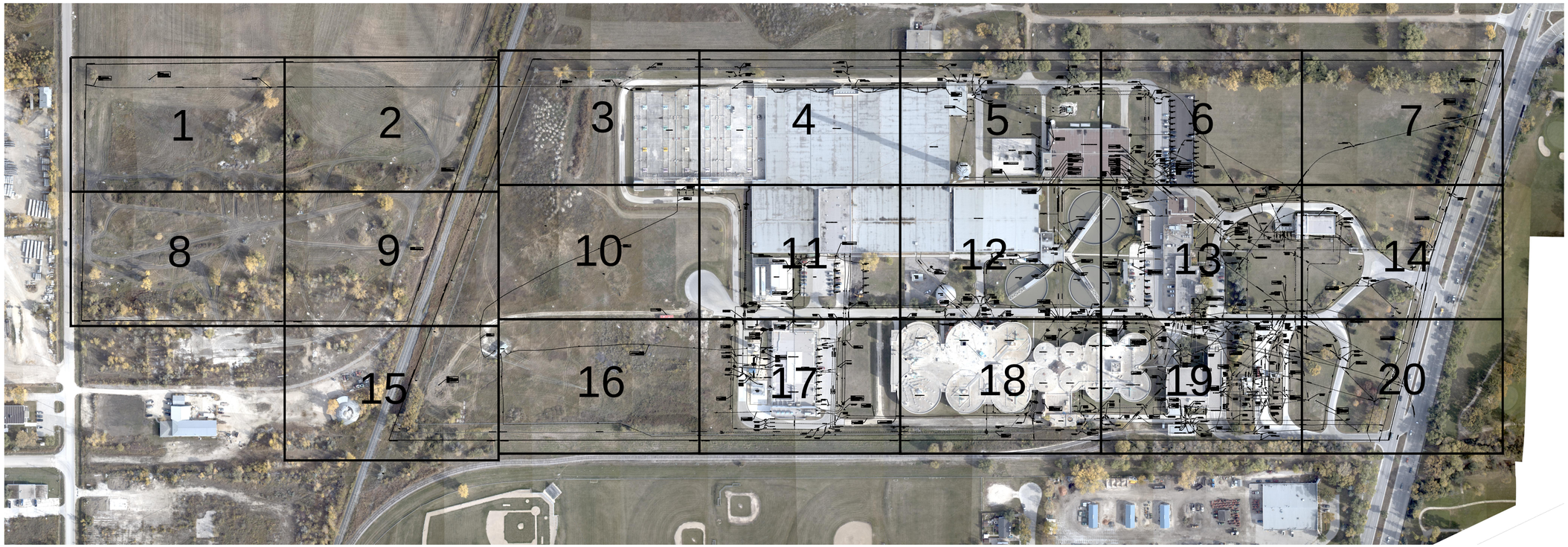

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

GENERAL NOTES

1. LIMIT OF INVESTIGATION: SEE DRAWING.

2. EMPTY CONDUITS, SERVICES, LATERALS TO BUILDINGS, ABANDONED FACILITIES SUCH AS STREET LIGHT CABLES, WITHIN THE INVESTIGATION AREA MAY NOT BE SHOWN ON THE DRAWING.

3. T2UE USED AVAILABLE MEANS IN AN ATTEMPT TO DETERMINE THE LOCATION OF UNDOCUMENTED UTILITIES HOWEVER CANNOT BE RESPONSIBLE FOR FINDING ALL UNDOCUMENTED UTILITIES.

4. THE BASEPLAN WAS PROVIDED BY THE CLIENT, THEREFORE T2UE IS NOT RESPONSIBLE FOR ITS ACCURACY.

5. UTILITY OWNERSHIP, MATERIAL, SIZES AND FLOW SHOWN ON DRAWING ARE BASED ON RECORDS INFORMATION RECEIVED, FIELD INVESTIGATION AND PROFESSIONAL JUDGEMENT.

6. UTILITY WIDTHS ON DRAWING ARE BASED ON RECORDS RECEIVED AND TEST HOLE DATA WHERE AVAILABLE.

7. BASE COORDINATES BEING USED FOR THE PREPARATION OF THESE PLANS ARE UTM ZONE 14 JUNE 90 (LBIS).

8. REFER TO COVER PAGE (CITY DRAWING NUMBER 1-0101A-G0001-001) FOR TEST HOLE DETAILS.

ASCE QUALITY LEVELS

THE UTILITY INFORMATION SHOWN ON THIS DRAWING WAS COLLECTED IN ACCORDANCE TO ASCE STANDARD 38-02. THE INFORMATION IS SHOWN BY QUALITY LEVEL WHICH INDICATES THE LEVEL OF EFFORT USED TO DETERMINE THE LOCATION OF THE DATA

INCREASED QUALITY

QUALITY LEVEL "D" - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

QUALITY LEVEL "C" - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO THE QUALITY LEVEL "D" INFORMATION.

QUALITY LEVEL "B" - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF THE UTILITIES.

QUALITY LEVEL "A" - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES.

U/G UTILITY LEGEND

GAS	GAS
G.S.	GAS SERVICE
WM	WATERMAIN
W.S.	WATER SERVICE
WWS	WASTE WATER SEWER
WWS LAT.	WASTE WATER SEWER LATERAL
LDS	LAND DRAINAGE SEWER
LDS LAT.	LAND DRAINAGE SEWER LATERAL
BE	BURIED ELECTRIC
BE-SL	BURIED ELECTRIC STREET LIGHT
GRD	GROUND WIRE
UNK	UNKNOWN
FOC	FIBRE OPTIC CABLE
TV	CABLE TV
BT	BURIED TELECOMMUNICATIONS
o/h	OVERHEAD WIRE
	QUALITY LEVEL "B"
	QUALITY LEVEL "C"
	QUALITY LEVEL "D"
	TEST HOLE (QL-A)
	CONTINUATION ARROW
	FLOW ARROW
	END CAP
*	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
#	NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION

BID OPPORTUNITY NO. 607-2013

TEST HOLE INFORMATION

Utility Type			
BE	Buried Electric	CATV	Cable Television
G	Gas	FM	Force Main
BT	Buried Telecom	RW	Reclaimed Water
FOC	Fibre Optic Cable	SL	Street Light
W	Water	TS	Traffic Signal
SAN	Sanitary	EXP	Exploratory
STM	Storm	UNK	Unknown

Utility Material			
DBC	Direct Buried Cable	CNP	Concrete Pipe
UNK	Unknown	CMP	Corrugated Metal Pipe
MET	Metallic	CC	Concrete/Clay Clap
CP	Clay Pipe	PL	Plastic
AC	Asbestos Cement (Transite)	CD	Concrete Duct
CP	Copper Pipe		

Surface Type			
A	Asphalt	C	Concrete
I	Interlock	NG	Natural Ground

TH #	TH Date (YYYY-)	Drawing #	Utility Type	Utility Material	Utility Width (Nom)	Rim Elev.	Top of Utility Elev.	Manual Depth From Grade Bottom	Manual Depth From Grade Top	Bottom of Utility Elev.	Cross Sectional View	ID'D By	Surface Type	Pavement Thickness
					mm	m	m	m	m	m				mm
1	6/24/14	18	W	PL	200	231.47	-	229.20	-	2.27		Rod & Cap	NG	-
2	6/24/14	18	W	PL	200	231.36	-	229.12	-	2.24		Rod & Cap	NG	-
3	6/24/14	18	FM	MET	300	231.50	-	227.70	-	3.80		Rod & Cap	NG	-
4	6/24/14	18	FM	MET	300	231.00	-	227.51	-	3.49		Rod & Cap	NG	-
5	6/24/14	18	FOC	PL	50	230.91	-	230.06	-	0.85		Rod & Cap	NG	-
6	6/24/14	17	FM	MET	300	231.32	-	227.56	-	3.76		Rod & Cap	NG	-
7*	6/24/14	17	BE	CON	1180	231.48	-	229.88	-	1.60		Rod & Cap	NG	-
			BT	CC	1200		-	230.12	-	1.36				
8*	6/25/14	17	W	UNK	-	231.33	-	227.86	-	3.47		Rod & Cap	NG	-
9	6/25/14	17	W	PL	200	232.20	-	227.70	-	4.50		Rod & Cap	NG	-
10	6/25/14	17	SAN	PL	100	232.12	-	229.62	-	2.50		Rod & Cap	NG	-
11	6/25/14	17	W	CP	45	232.13	-	229.46	-	2.67		Rod & Cap	NG	-
12*	6/25/14	17	EXP	-	-	231.00	229.10	-	1.90	-	-	-	Rod & Cap	NG	-
13	6/25/14	17	W	MET	50	231.01	-	228.21	-	2.80		Rod & Cap	NG	-
14	6/25/14	17	RAS	PL	250	231.02	-	228.32	-	2.70		Rod & Cap	NG	-
15	6/25/14	17	WAS	PL	200	231.01	-	228.24	-	2.77		Rod & Cap	NG	-
16	6/25/14	17	FM	MET	300	231.11	-	227.80	-	3.31		Rod & Cap	NG	-
17*	6/25/14	17	EXP	-	-	231.74	229.48	-	2.26	-	-	-	Rod & Cap	NG	-
18*	6/25/14	11	W	-	200	230.89	-	227.68	-	3.21		Rod & Cap	NG	-

* IMPORTANT ADDITIONAL INFORMATION PLEASE SEE NOTES PAGE.

TEST HOLE INFORMATION

19*	6/25/14	11	W	MET	50	231.20	-	228.09	-	3.11		Rod & Cap	NG	-
20*	6/25/14	11	RAS	PL	250	231.20	-	228.42	-	2.78		Rod & Cap	NG	-
21*	6/25/14	11	WAS	PL	200	230.98	-	227.65	-	3.33		Rod & Cap	NG	-
22	6/25/14	11	SL	DBC	40	230.95	-	229.75	-	1.20		Rod & Cap	NG	-
23	6/26/14	11	RAS	PL	250	230.94	-	227.76	-	3.18		Rod & Cap	NG	-
24	6/26/14	11	WAS	PL	200	230.93	-	227.69	-	3.24		Rod & Cap	NG	-
25*	6/26/14	17	EXP	-	-	231.19	228.19	-	3.00	-	-	-	NG	-
26	6/26/14	17	BE/BT	CC	1200	231.41	-	229.73	-	1.68		Rod & Cap	NG	-
27	6/26/14	11	BE/BT	CON	2100	NOT SURVEYED			-	1.09		Rod & Cap	NG	-
28	6/26/14	11	BT	DBC	25	231.10	-	230.50	-	0.60		Rod & Cap	NG	-
29*	6/26/14	12	TUN	CON	-	231.07	-	230.49	-	0.58		Rod & Cap	NG	-
30*	6/26/14	12	TUN	CON	-	231.12	227.12	230.51	4.00	0.61		Rod & Cap	NG	-
31	6/27/14	13	BT	DBC	30x1 40x1	231.33	-	230.93	-	0.40		Rod & Cap	NG	-
32	6/27/14	13	BT	DBC	60x1	NOT SURVEYED			-	0.27		Rod & Cap	NG	-
					30x1				-	0.53				
33	6/26/14	12	BT	DBC	30x1		-	230.68	-	0.53		Rod & Cap	NG	-
					40x1	231.21	-	230.51	-	0.70	SEE PHOTO			
					60x1		-	230.78	-	0.43				
34	6/27/14	18	STM	MET	350	231.44	-	229.18	-	2.26		Rod & Cap	NG	-
35	6/27/14	18	FM	MET	200	231.40	-	229.08	-	2.32		Rod & Cap	NG	-
36*	6/27/14	18	TUN	CON	-	231.42	226.97	230.22	4.45	1.20		Rod & Cap	NG	-
37	6/27/14	18	LDS	-	375	231.38	-	229.28	-	2.10		Rod & Cap	NG	-
38	6/27/14	12	CEN	-	350	231.23	-	229.43	-	1.80		Rod & Cap	NG	-
39*	6/27/14	12	TUN	CON	1800	231.16	-	230.16	-	1.00		Rod & Cap	NG	-
40*	6/27/14	12	TUN	CON	1800	231.17	-	230.17	-	1.00		Rod & Cap	NG	-
41	7/2/14	19	TUN	CON	3750	231.42	-	230.47	-	0.95		Rod & Cap	NG	-
42	7/2/14	19	TUN	CON	3750	231.42	-	230.47	-	0.95		Rod & Cap	NG	-
43*	7/2/14	19	EXP	-	-	231.41	225.41	-	6.00	-	-	-	NG	-

* IMPORTANT ADDITIONAL INFORMATION PLEASE SEE NOTES PAGE.

TEST HOLE INFORMATION

44*	7/2/14	19	EXP	-	-	NOT SURVEYED			6.00	-	-	-	Rod & Cap	NG	-
45	7/4/14	13	W	PL	150	231.40	-	229.20	-	2.20		Rod & Cap	NG	-
46	7/4/14	13	BT	PL	50x2	231.48	-	230.28	-	1.20		Rod & Cap	NG	-
47	7/4/14	20	W	PL	150	231.12	-	228.17	-	2.95		Rod & Cap	NG	-
48*	7/4/14	13	FOC	CC	-	231.00	-	230.30	-	0.70		Rod & Cap	NG	-
49	7/7/14	14	W	MET	38	231.32	-	228.74	-	2.58		Rod & Cap	NG	-
50	7/7/14	5	BE	CD	2750	231.43	230.18	230.97	1.25	0.46		Rod & Cap	NG	-
51	7/7/14	5	BE	CC	1100	231.22	-	230.14	-	1.08		Rod & Cap	NG	-
52	7/7/14	5	BE	MET	50	231.22	-	230.36	-	0.86		Rod & Cap	NG	-
53	7/7/14	6	BE	DBC	40	231.16	-	230.48	-	0.68		Rod & Cap	NG	-
54	7/7/14	19	FM	MET	350	231.55	-	229.31	-	2.24		Rod & Cap	NG	-
55*	7/7/14	19	EXP	-	-	231.55	225.45	-	6.10	-	-	-	NG	-
56	7/7/14	19	FM	MET	200	231.49	-	228.91	-	2.58		Rod & Cap	NG	-
57*	7/8/14	19	EXP	-	-	231.45	227.20	-	4.25	-	-	-	NG	-
58*	7/8/14	6	EFFL	CD	-	231.10	-	227.80	-	3.30		Rod & Cap	NG	-
59*	7/8/14	6	EFFL	CD	-	231.12	-	227.80	-	3.32		Rod & Cap	NG	-
60*	7/8/14	6	EFFL	CD	-	231.08	225.28	227.78	5.80	3.30		Rod & Cap	NG	-
61*	7/8/14	6	EFFL	CD	-	231.08	-	227.80	-	3.28		Rod & Cap	NG	-
62*	7/8/14	6	S.EFF	CD	-	231.10	228.20	230.33	2.90	0.77		Rod & Cap	NG	-
63*	7/8/14	6	S.EFF	CD	-	231.12	-	230.37	-	0.75		Rod & Cap	NG	-
64*	7/9/14	6	TUN	CC	-	231.20	227.80	230.83	3.40	0.37		Rod & Cap	NG	-
65	7/9/14	19	FM	MET	200	NOT SURVEYED			-	5.22		Rod & Cap	NG	-
66	7/9/14	19	FM	MET	200	231.45	-	225.75	-	5.70		Rod & Cap	NG	-
67	7/9/14	19	FM	MET	200	231.46	-	226.36	-	5.10		Rod & Cap	NG	-
68*	7/9/14	13	S.EFF	CD	3200	231.01	-	228.66	-	2.35		Rod & Cap	NG	-
69*	7/9/14	13	S.EFF	CD	3200	230.94	-	228.69	-	2.25		Rod & Cap	NG	-
70*	7/10/14	13	S.EFF	CD	-	231.25	-	228.68	-	2.57		Rod & Cap	NG	-
71A*	7/10/14	-	S.EFF	CD	-	NOT SURVEYED			-	2.50		Rod & Cap	NG	-
71B*	7/10/14	13	S.EFF	CD	-	230.94	-	228.44	-	2.50		Rod & Cap	NG	-

* IMPORTANT ADDITIONAL INFORMATION PLEASE SEE NOTES PAGE.

150 WM	WATERMAIN	150 WM	CURB STOP	INF	INFLUENT		
	HYDRANT		REDUCER	EFF	EFFLUENT		
	VALVE		COUPLING	PS	PRIMARY SLUDGE		
300 LDS	LAND DRAINAGE SEWER	300 LDS	ANODE	RS	RAW SEWAGE		
250 WWS	WASTE WATER SEWER	250 WWS	LAMP STANDARD				
	MANHOLE		TREE				
	CATCH BASIN		HYDRO POLE				
	CURB INLET		BENCH MARK				
	CULVERT		INVERT				
	PIPE ABANDONMENTS		OBVERT				
	SURVEY BAR						
EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW

LOCATION APPROVED

UNDERGROUND STRUCTURES

SUPR. 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.

NO.	REVISIONS	YY/MM/DD	BY
5	ISSUED FOR CITY OF WINNIPEG USE	15/01/19	AJW
4	FINAL REVIEW	14/08/25	AJW
3	REVISED TENDER	14/06/13	AJW
2	ISSUED FOR TENDER	14/04/03	AJW
1	PRELIMINARY REVIEW	14/03/04	AJW

T2 utility engineers — 1-855-222-T2UE | WWW.T2UE.COM

AECOM

DESIGNED BY		CHECKED BY	RG , JB
DRAWN BY	AJW	APPROVED BY	LEA
HOR. SCALE	NTS	RELEASED FOR CONSTRUCTION	
VERT. SCALE			
DATE	28-OCT-14	DATE	

PROFESSIONAL'S SEAL

PROVINCE OF MANITOBA — L. E. FRCANO — Wed 15 Jan 2014 — REGISTERED PROFESSIONAL ENGINEER — Permit # 6160277

CONSULTANT DRAWING NO. 60311768

T2UE DRAWING NO. 61000277

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

WINNIPEG NORTH END WATER POLLUTION CONTROL CENTRE

COMPOSITE SITE PLAN

SHEET

CITY DRAWING NUMBER

1-0101A-G0001-001

DRFT CHK

T2ue REVIEW

T2ue FILE NAME: Y:\PROJECTS\BSTI\61000277 - ACL - Winnipeg North End TP\Drawings\SUE\1-0101A-G0002-001.dwg Saved By: PLOT: 1/22/2015 5:18:45 PM

D SIZE 22" x 34" (559mm x 864mm)