

KEYNOTES:	
1	RE-USED EXISTING UNDERGROUND 3C#3 AWG, Cu TECK 90. WIRE AND CONNECT TO PANEL AA MAIN BREAKER AND BOND. PROVIDE ALL ACCESSORIES AND FITTING.
2	PROVIDE PHASE LOSS PROTECTION. WIRE AND CONNECT OUTPUT STATUS TO RTU CONTROLLER FOR ALARMS MONITORING.
3	PROVIDE SPD C/W CIRCUIT BREAKER. WIRING SHALL BE AS SHORT AS PRACTICABLE. MAXIMUM LENGTH IS 350mm. SPD SHALL BE 145KA PER PHASE.

			PANEL"	AA " SC	CHED	ULE					
		LOAD	BKR	CCT		CCT	BKR	LOAD			
LOAD DESCR.		Watt	SIZE	NO	PH	NO	SIZE	Watt	LOAD DESCR.		
SLUICE GATE ACTUATOR		2,176	20A	1	Α	2	20A	3750	TRANSFORMER TX-A		
8.75HP AC-01		2,175	20/	3	В	4	2P	3750	7.5kVA		
GATE CHAMBER		2,175	3P	- 5	С	6	15A		SPARE		
SUBMERSIBLE PUMP		7,460	60A	7	Α	8	20A		SPD		
30HP SP-01		7,460		9	В	10	25/				
PUMP CHAMBER		7,460	3P	11	С	12	3P				
PHASE LOSS PROTECTION			15A	13	Α	14	15A		SPARE		
				15	В	16					
			J3P	17	С	18	J3P				
DESIGNATION	'AA'	M	AIN BKR				-	100			
VOLT	347/600	M	MAINS					200			
PHASE	3	Co	Connected Load in kW, A								
WIRE	4	De	Demand Load in kW, A								
.C (kA)	LC	CATION					P&C PANEL				
NOTES: Panel to be CSA 1		M	OUNTING					surface			
NOTES: Fed from existing building. Bottom fe	ed										

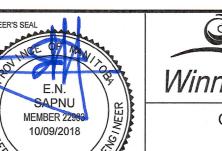
				PANEL	_"A " S	CHE	DULE					
	WIRE		LOAD	BKR	CCT		CCT	BKR	LOAD	WIRE		
LOAD DESCR.	AWG		Watt	SIZE	NO	PH	NO	SIZE	Watt	AWG		LOAD DESCR.
SPARE				15	1	Α	2	15				SPARE
SPARE				15	3	В	4	15	500	3C#12AW	G TECK 90	RTU PANEL
LTG - P&C PANEL	2C#12+G		35	15	5	Α	6	15				SPARE
SPARE		-		15	7	В	8	15				SPARE
SPARE				15	9	Α	10	20A		2C#12A	WG RW90	SPD
SPARE				15	11	В	12	2P				
											G - GFCI E	BREAKER
DESIGNATION		'A'								MLO	MAIN BKR	
VOLT		120/240								100	MAINS	
PHASE		1									Connected	Load in kW, A
WIRE		3									Demand Lo	oad in kW, A
I.C (kA)		10							LOC	CATION	P&C PANE	EL
NOTES: Panel to be CSA 1									МО	UNTING	surface	
NOTES: Fed from Panel AA via Tx.	A								NO	TES:		

ELE	CTRICAL LEGEND
SYMBOL	DISCRIPTION
	SWITCH
°)	CIRCUIT BREAKER
	FUSE AS SHOWN
<u></u>	TRANSFORMER
0 100A	FUSED SWITCH
E	E-STOP PB
M	PUMP MOTOR
LIT	LEVEL TRANSDUCER
	LEAK SEAL
	JUNCTION BOX
ST SP	START - STOP PUSH BUTTONS
R O L	REMOTE - OFF LOCAL SWITCH
0 8 C	OPEN-STOP-CLOSE SWITCH
E T M	ELAPSED TIME METER
T V S S S	TRANSIENT VOLTAGE SURGE SUPPRESSOR (SURGE PROTECTION DEVICE)

	EQUIPMENT SCHEDULE													
ITEM	DESCRIPTION	LOCATION	AMPS	VOLTS	Ø	BREAKER	CONDUCTOR	CIRCUIT	DIS.	UNIT SUPPLIED & INSTALLED BY	MOTOR STARTER SUPPLIED BY	CONTROL	CONTROL WIRED AND CONNECTED BY	NOTE
SP-01	SUBMERSIBLE PUMP	CHAMBER	32.0	600	3	60A-3P	FACTORY WIRED CABLE IN 53mmØC	AA-7,9,11		MECH'L	ELECTRICAL	FVNR	ELEC.	PUMP CABLE IS FACTORY WIRED AND INSTALLED. WIRE AND CONNECT INTERNAL MOTOR LEAF AND OVERTEMP DETECTOR. PROVIDE LOCKABLE LEVER SWITC ONTO STARTER.
AC-01	SLUICE GATE ACTUATOR	PUMP GATE	10.4	600	3	20A-3P	3C#12 AWG, Cu, TECK 90 IN 53mmØC	AA-1,3,5	30A	MECH'L	N/A	BUILT-IN	ELEC.	PROVIDE LOCKABLE DISCONNEC
RTU-1	CONTROL PANEL	WEATHER ENCLOSURE		120	1	15A-1P	2C#12AWG, Cu, RW90 IN 21mmØC	A-4		ELEC.	N/A		ELEC.	

ENGINEERS GEOSCIENTISTS MANITOBA Certificate of Authorization WSP Canada Inc. No. 5750

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				DESIGNED BY	AE	CHECKED BY	ES	MEMBI	PNU ER 22983 9/2018
				DRAWN BY	AE	APPROVED BY	ES	1/2	/ /
3	ISSUED FOR TENDER	14/09/18	ES		ACNOTED		Signed by KZ	~ROF	ESS IONAL
2	ISSUED FOR REVIEW	15/08/18	ES	HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	September	BID OPPORTUNITY:	005 0040
1	ISSUED FOR REVIEW	12/12/16	HP	VERTICAL	AS NOTED	CONSTRUCTION	14, 2018	BID OFFORTUNITY.	865-2018
NO.	REVISIONS	DATE	BY	DATE		DATE		PLOT DATE:	10/09/2018



Winnipeg WATER AND WASTE DEPARTMENT

THE CITY OF WINNIPEG

OUTFALL GATE CHAMBER UPGRADES **AUBREY STREET** SRS OUTFALL GATE CHAMBER ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULE

CONSULTANT DRAWING NUMBER 5516047 - E04 15 33 CITY DRAWING NUMBER

LD-8027

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