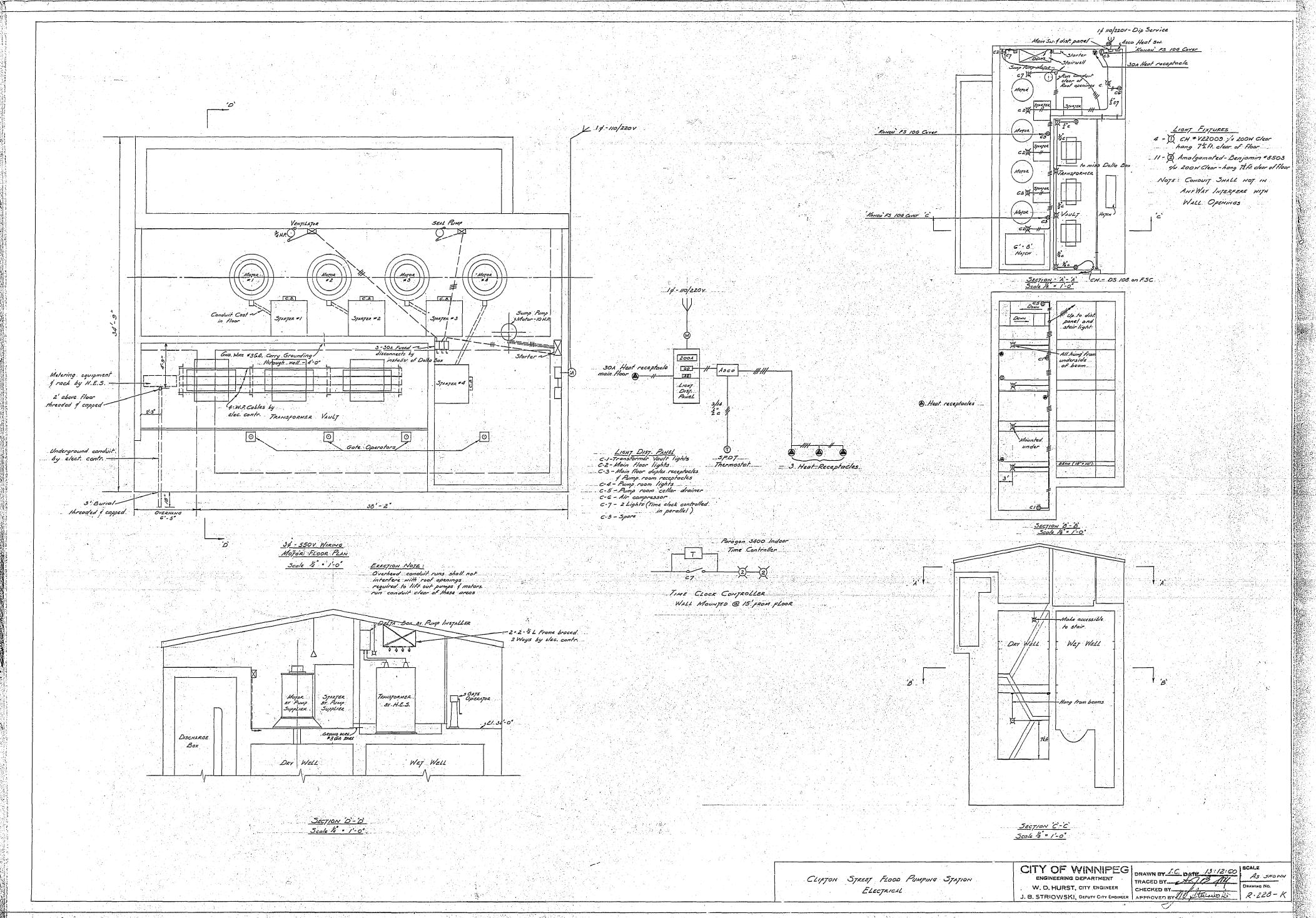
The City of Winnipeg RFP No. 1154-2018 Template Version: SrC120181015 - Consulting Services RFP

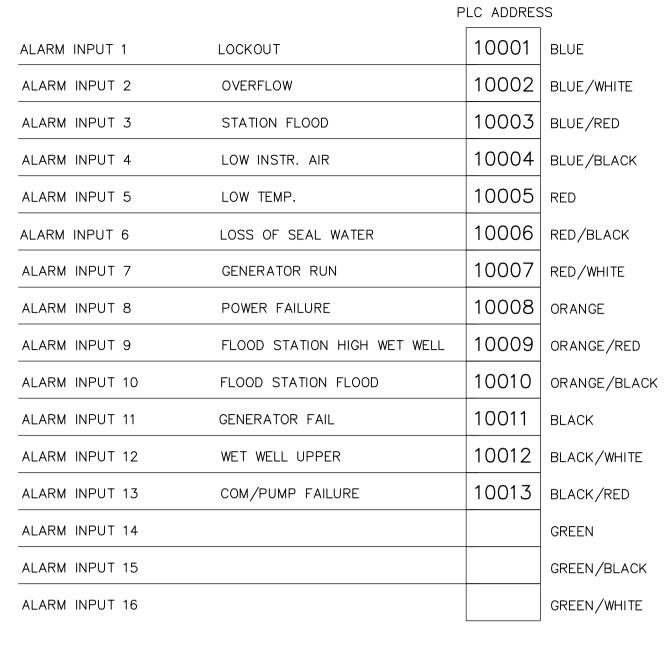
## APPENDIX A – CITY OF WINNIPEG CLIFTON FLOOD PUMPING AND WASTEWATER LIFT STATION HISTORICAL RECORD DRAWINGS

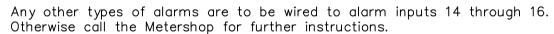




## BACK PANEL LAYOUT

## ELECTRICAL DISTRIBUTION LAYOUT





ANALOG	WIRING	PLC ADDRESS				
INPUT 1	LIFT LEVEL	30001				
INPUT 2	FLOOD LEVEL	30002				
INPUT 3	FLOW	30003				

FROM BLUE SWITCHED HOT

UNSWITCHED

HOT SWITCHED

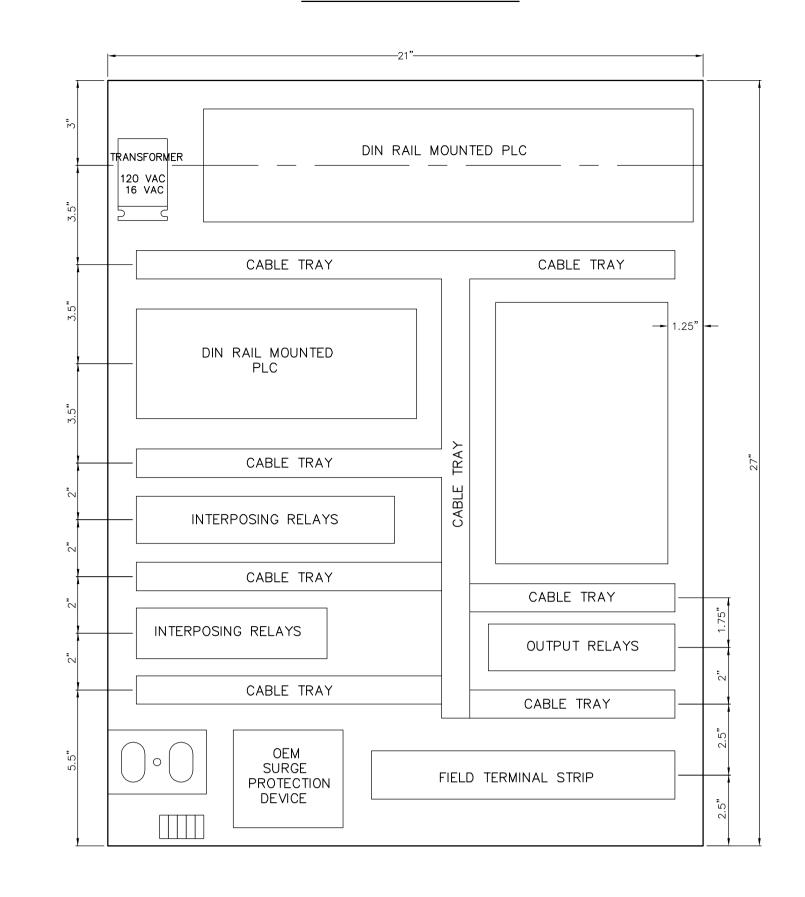
HEATER,
RECEPTACLE
HOT UNSWITE

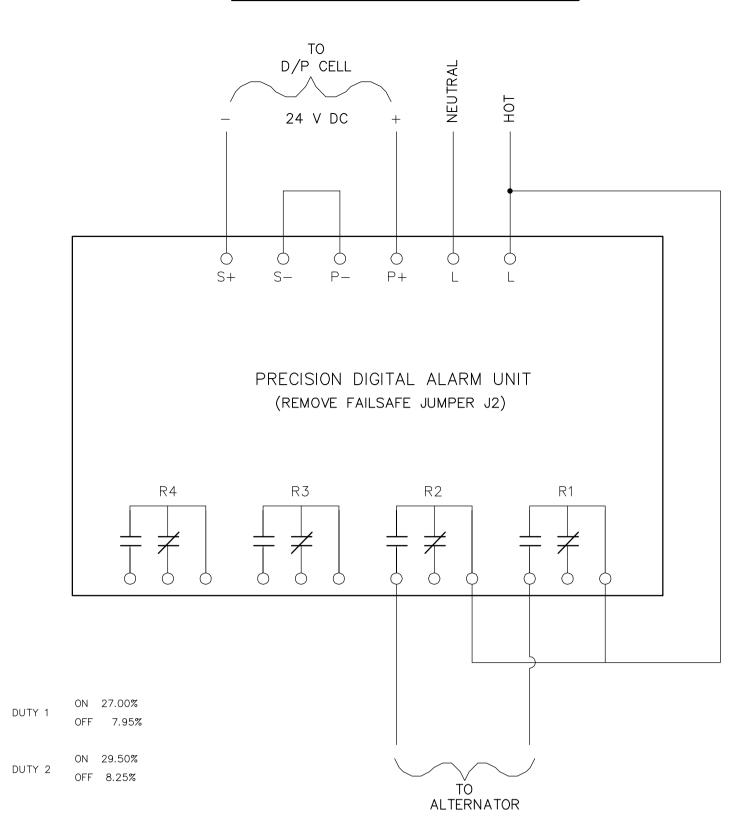
SURGE SUPPRESSOR

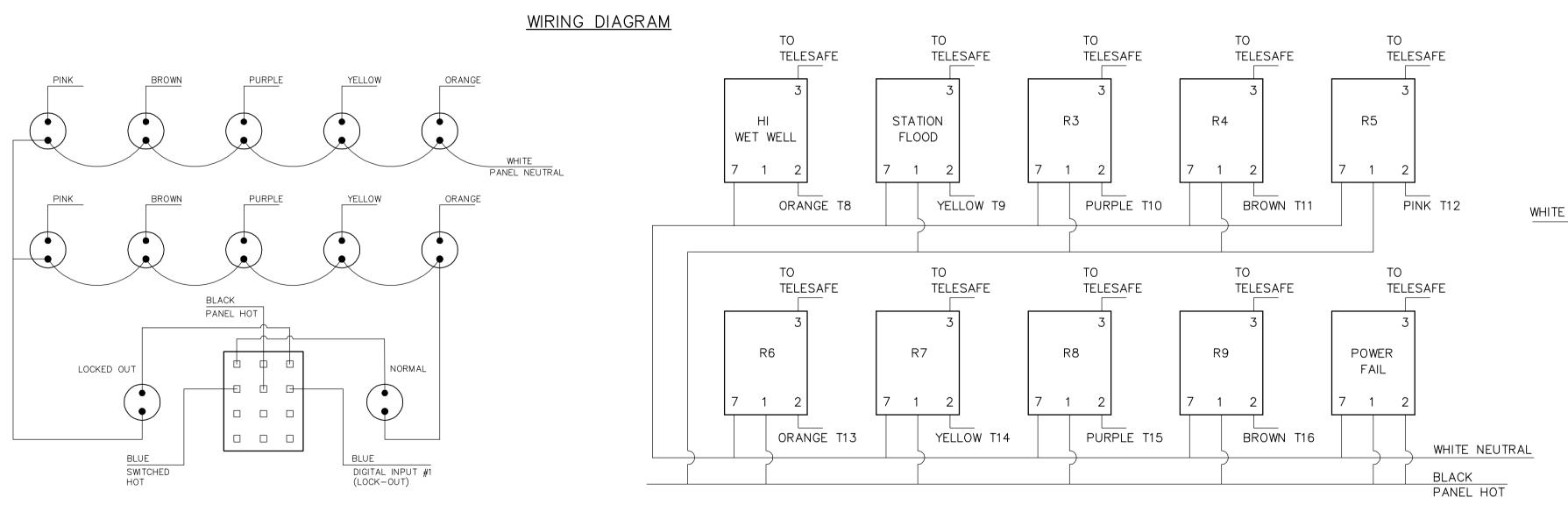
NEUTRAL FROM SURGE SUPPRESSOR

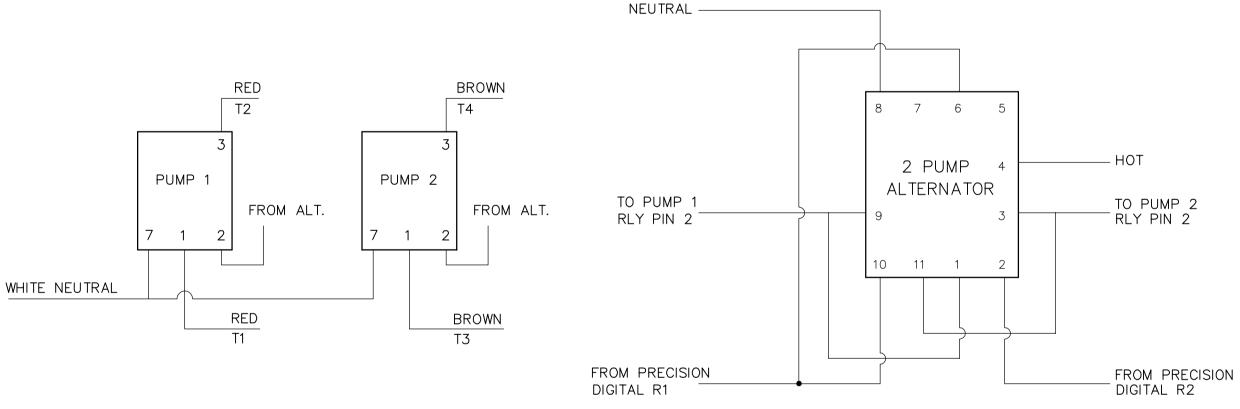
PANEL

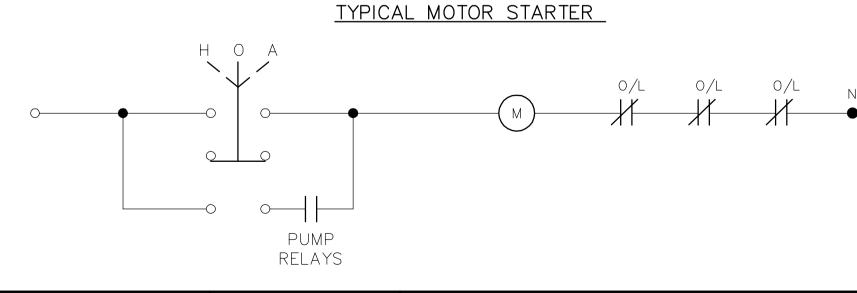
NEUTRAL

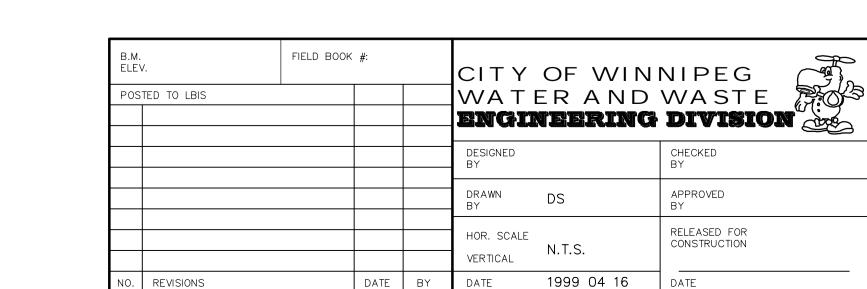










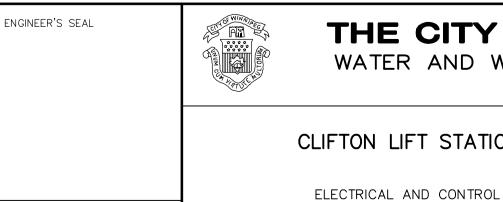


CHECKED BY

APPROVED BY

DATE

RELEASED FOR CONSTRUCTION

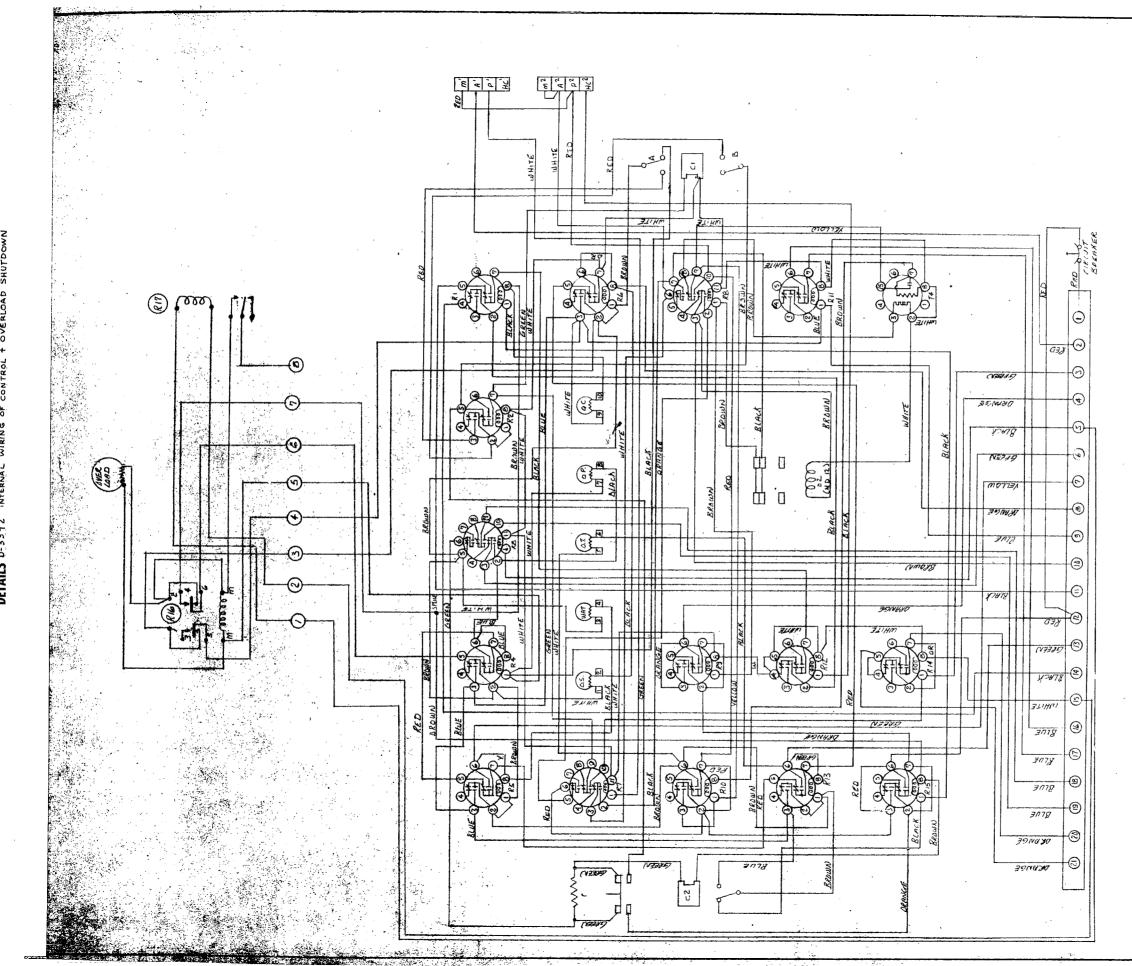


PLOT DATE: 1999 04 16

## THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

CLIFTON LIFT STATION

SHEET OF CITY DRAWING NUMBER 4592



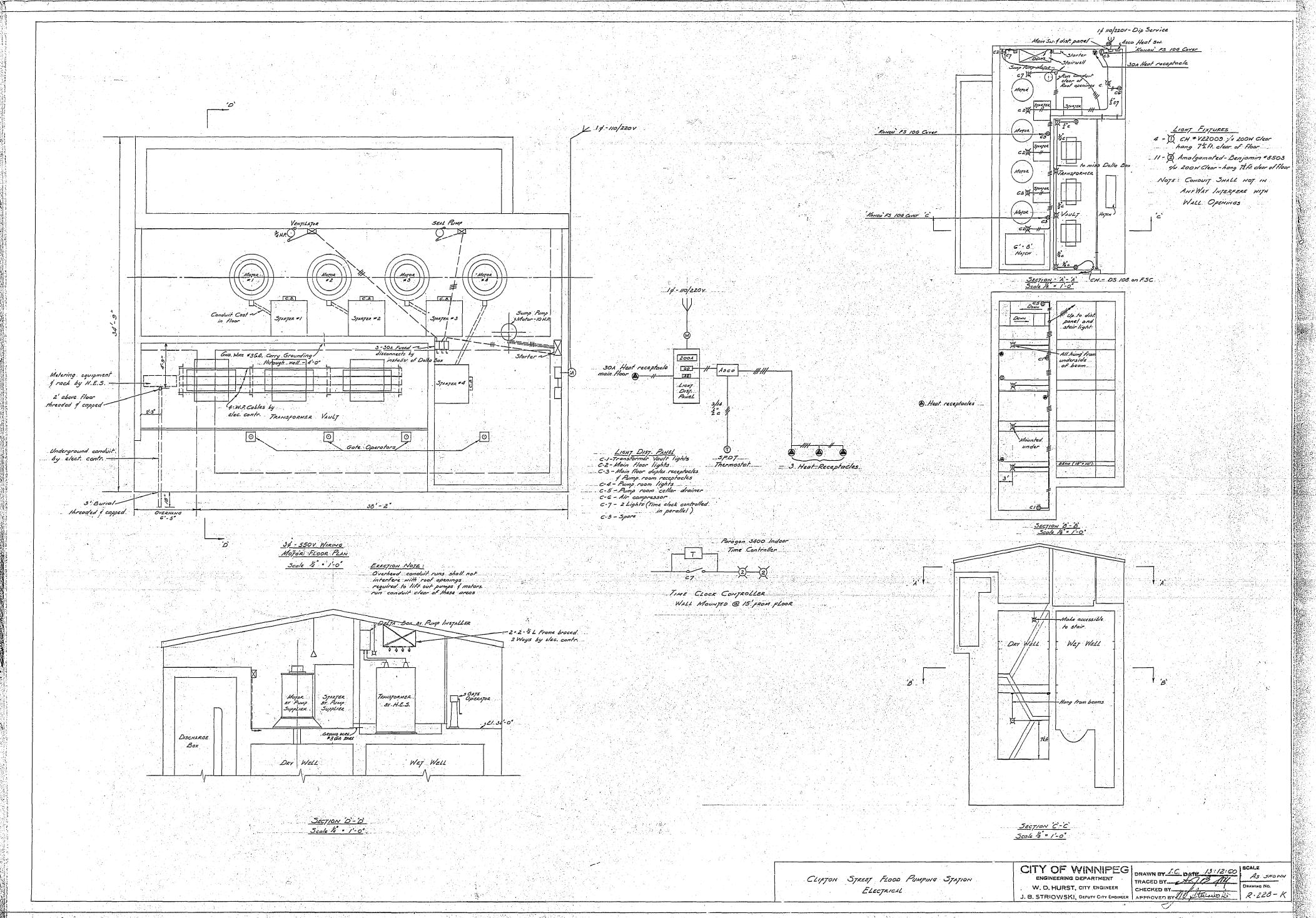
REFER SCHEMATIC DIDE.

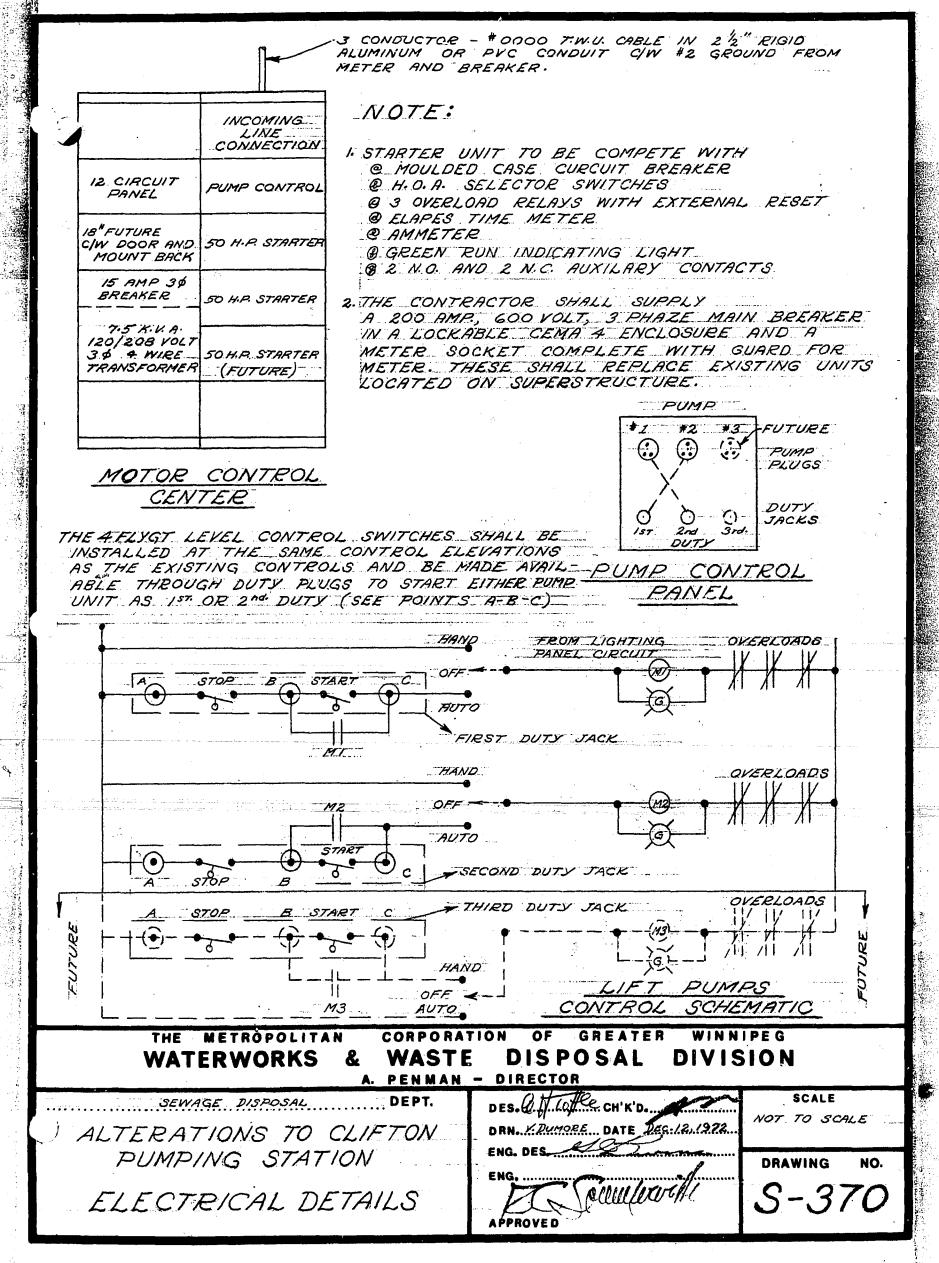
ATLAS BOY CO. LTD.

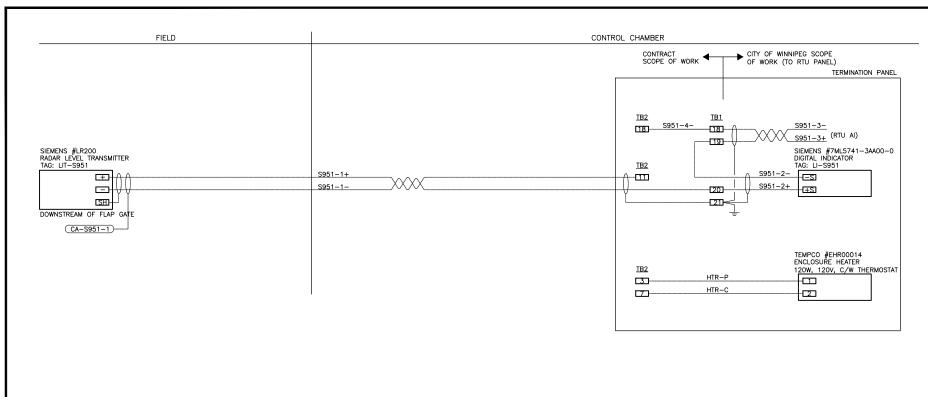
50 NORTHLINE RD. TORONTO 16. ONT.

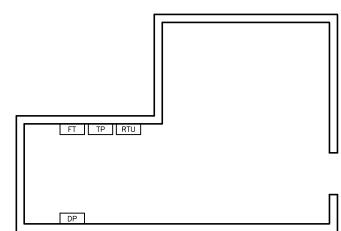
INTERNAL WIKING OF MODEL 3714M5 CONTENTS

FUS OUER LOAD SHUT DO UN W31958









#### ELECTRICAL ROOM FLOOR PLAN

#### **LEGEND**

RTU - NEW RTU PANEL

TP - NEW TERMINATION PANEL

DP - EXISTING DISTRIBUTION PANEL 120VAC

FT - NEW FLOW METER TRANSMITTER

#### NOTES

1) INSTALL TWO FULL SHEETS OF PLYWOOD AND MOUNT ON BACKBOARD RTU PANEL, TP PANEL AND FLOW METER TRANSMITTER.

2) GROUND INSTRUMENTATION CABLE SHIELDS ONLY AT TERMINATION PANEL.

### **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 140/92 FOR DETAILS

### **METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES



Certificate of Authorization

Stantec Consulting Ltd.

No. 1301

#### LOCATION APPROVED **Stantec Consulting Ltd.** UNDERGROUND STRUCTURES 905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012 SUPV. U/G STRUCTURES COMMITTEE DESIGNED CHECKED S.T. B.J. LOCATION OF UNDERGROUND STRUCTURES AS DRAWN SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN APPROVED S.T. B.J. THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. AS BUILT DRAWING 15.04.16 RELEASED FOR CONFIRMATION OF EXISTENCE AND EXACT HOR. SCALE: N.T.S. ISSUED FOR CONSTRUCTION 14.06.27 J.C. CONSTRUCTION: LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES CONSULTANT DRAWING NO. VERTICAL: ISSUED FOR CLIENT REVIEW 14.06.20 BEFORE PROCEEDING WITH CONSTRUCTION. NO. REVISIONS DATE DATE 2014.01.28 DATE BY

ENGINEER'S SEAL

E-0203

Winnipeg

## THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING

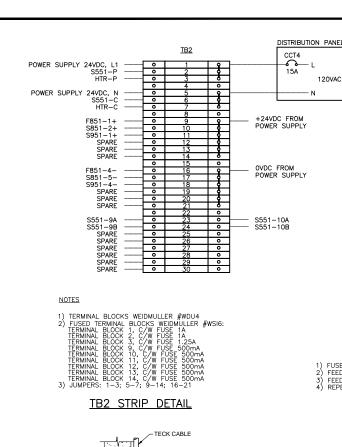
CLIFTON

ELECTRICAL ROOM LAYOUT LOOP WIRING DIAGRAMS

SHEET OF 2 2 CAD FILE DRAWING NUMBER 14720e-0203-cli.dwg

CITY DRAWING NUMBER

I-0I25-A-A0204-002-00



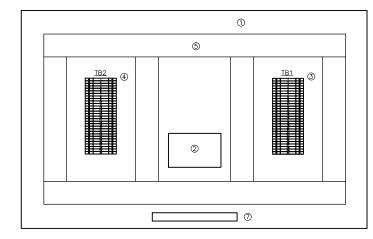
TECK CABLE

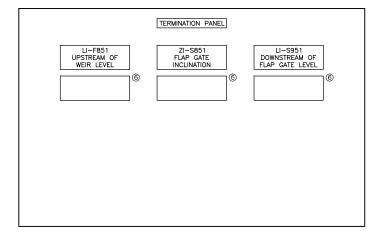
**ELEVATION VIEW** 

GENERAL NOTES

INCLINOMETER

4) EXPLOSION-PROOF CONNECTOR SHALL BE SEALED WITH EPOXY TO PREVENT GAS MIGRATION





#### TERMINATION PANEL DETAIL



#### POWER SUPPLY 24VDC WIRING DETAIL

#### LEGEND

- 1) HOFFMAN #CSD20248 TYPE 12 ENCLOSURE C/W PANEL #CP2024
- 2) WEIDMULLER #9927480024 POWER SUPPLY 24VDC, 2.3A
- 3) TB1 TERMINAL BLOCKS STRIP, SEE DETAIL.
- 4) TB2 TERMINAL BLOCKS STRIP. SEE DETAIL.
- 5) PANDUIT #E1X2LG6 WIRE DUCT C/W COVER #C1LG6
- 6) SIEMENS #7ML5741 DIGITAL INDICATOR
- 7) TEMPCO #EHRO0014 ENCLOSURE HEATER, 120W, 120V, C/W INTEGRAL (BUILT-IN) THERMOSTAT 40'F/60'F (CLOSE/OPEN)

No.	INSTRUMENT TAG	DESCRIPTION	MANUFACTURER	MODEL	PLC I/O TYPE	POWER SUPPLY	LOCATION
1	FIT-S551	ULTRASONIC FLOW METER	ADS FLOWSHARK	20A1E	3X AI, 1XDI	120VAC	UPSTREAM OF WEIR
2	LIT-F851	RADAR LEVEL TRANSMITTER	ENDRESS+HAUSER	FMR240	1X AI	24VDC	UPSTREAM OF WEIR
3	ZT-S851	INCLINATION TRANSMITTER	RST INSTRUMENTS	ICEX360A	1X AI	24VDC	FLAP GATE
4	LIT-S951	RADAR LEVEL TRANSMITTER	SIEMENS	LR200	1X AI	24VDC	DOWNSTREAM OF FLAP GATE

#### **INSTRUMENT LIST**

No.	CABLE TAG	FROM	то	DESCRIPTION	MANUFACTURER	CATALOG No.	NOTE
1	CA-S551-2	JBA-S551	FIT-S551	#16 AWG, 4-TRIAD, TWISTED, SHIELDED	TEXCAN	C3-9336-1604-19	SENSOR CABLE
2	CA-S551-3	FIT-S551	TERMINATION PANEL	#16 AWG, 4-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1604-19	3 AI TO RTU
3	CA-S551-4	FIT-S551	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	1 DI TO RTU
4	CA-S551-5	FIT-S551	TERMINATION PANEL	#14 AWG, 2C, TECK 90	TEXCAN	05001-01-010	POWER 120VAC
5	CA-F851-1	LIT-F851	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
6	CA-S851-1	ZT-S851	JBA-S851	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
7	CA-S851-2	JBA-S851	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
8	CA-S951-1	LIT-S951	TERMINATION PANEL	#16 AWG, 2-PAIR, TWISTED, SHIELDED	TEXCAN	C3-9326-1602-19	4-20mA
9	C-TP1	DISTRIBUTION PANEL	TERMINATION PANEL	#12 AWG, 2C, TECK 90	TEXCAN	05002-01-010	POWER 120VAC

#### CABLE LIST

### **WARNING**

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

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES



Certificate of Authorization

Stantec Consulting Ltd. No. 1301

#### RST INSTRUMENTS INCLINOMETER INSTALLATION DETAIL

1) CABLE SHALL BE SECURED ON THE FLAP GATE CHAMBER WALL AND FLAP GATE
2) EXTRA CABLE SHALL BE PROVIDED TO RELIEVE CABLE STRESS AT THE JUNCTION OF THE FLAP GATE AND THE CHAMBER WALL
3) INSTRUMENT AND JUNCTION BOX MOUNTING BRACKET NEED TO BE ADJUSTED ACCORDING TO FLAP GATE DESIGN

<u>RST INSTRUMEN</u>	<u> </u>	NCLINOMETER INSTALLATION DETAIL							
LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.			96	Stantec Consulting Ltd.			ENGINEER'S SEAL	
SUPV. U/G STRUCTURES DATE COMMITTEE					Stantec	905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012			
NOTE:					DESIGNED BY	S.T.	CHECKED BY	B.J.	
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN					DRAWN BY	S.T.	APPROVED BY	B.J.	
THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT.	С	AS BUILT DRAWING	15.04.16		1100 00415	N.T.S.	RELEASED FOR		
CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE	В	ISSUED FOR CONSTRUCTION	14.06.27		HOR. SCALE: VERTICAL:		CONSTRUCTION:		CONSULTANT DRAWING NO.
OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	Α	ISSUED FOR CLIENT REVIEW	14.06.20	J.C.	VERTICAL:				
BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	BY	DATE 2014.01	.28	DATE		E-0202

TB1

FLAP GATE REINFORCEMENT BAR

PLAN VIEW

EXPLOSION-PROOF AND

WATER-TIGHT CONNECTORS

Winnipeg

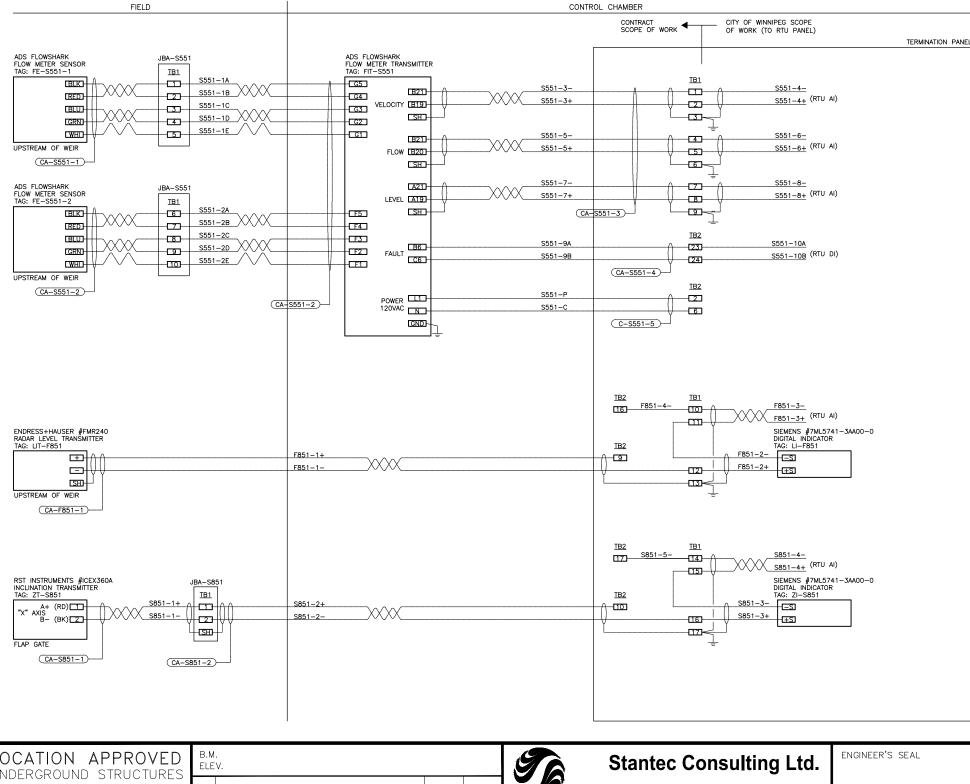
## THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

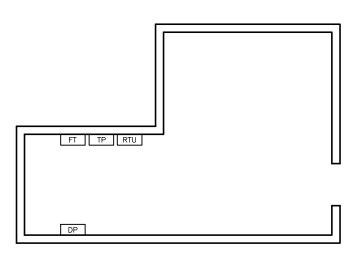
CSO OUTFALL MONITORING

CLIFTON

TERMINATION PANEL LAYOUT INSTRUMENT LIST, CABLE LIST SHEET OF CAD FILE DRAWING NUMBER 14720e-0202-cli.dwg CITY DRAWING NUMBER

I-0I25-A-A0203-00I-00





#### ELECTRICAL ROOM FLOOR PLAN

#### **LEGEND**

RTU - NEW RTU PANEL

TP - NEW TERMINATION PANEL

DP - EXISTING DISTRIBUTION PANEL 120VAC

FT - NEW FLOW METER TRANSMITTER

#### NOTES

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## **METRIC**

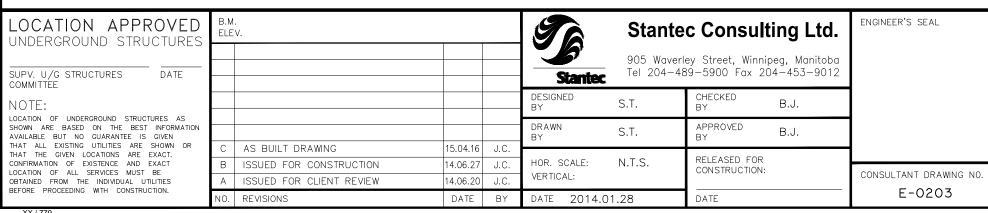
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Winnipeg

# THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT

CSO OUTFALL MONITORING

CLIFTON

ELECTRICAL ROOM LAYOUT LOOP WIRING DIAGRAMS

SHEET OF 2 CAD FILE DRAWING NUMBER 14720e-0203-cli.dwg

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