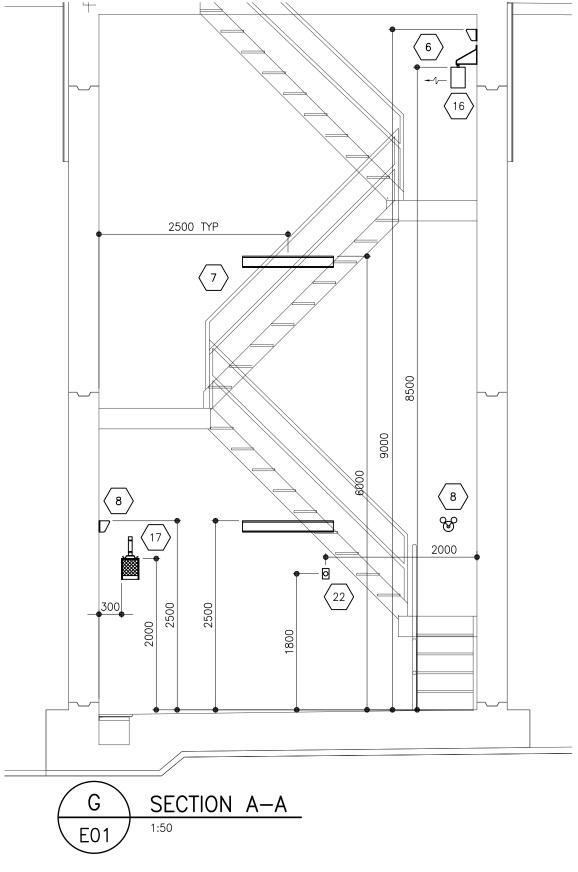


E01



NEW CONSTRUCTION NOTES:

- (1.) NEW 42 CCT, 100A-120/208V/3Ø/4W PANEL "A" FED FROM MCC THROUGH A 30kVA 600-120/208V TRANSFORMER.
- (3.) FOR (6) INTERIOR LIGHTING FIXTURES, USE LITHONIA FIXTURE CAT. BE CEILING OR WALL MOUNTED.
- HOUSEKEEPING PAD FOR THE MCC SHALL BE 100 LARGER THAN THE PERIMETER OF THE UNIT AND TO BE 100 THICK.
- (5.) TO LOWER LEVEL LIGHTING FIXTURES.
- $\langle 7. \rangle$ LOWER LEVEL (1) LIGHTING FIXTURES TO BE MOUNTED AT APPROX.
- (8.) LOWER LEVEL (2) LIGHTING FIXTURES AND EMERGENCY LIGHTING TO BE MOUNTED AT APPROX. 2500 AFF.
- 9. LOWER LEVEL RECEPTACLES TO BE MOUNTED AT APPROX. 1200
- AFF. (5 PLACES) RECEPTACLE OUTLET FOR THE LIFTING HOIST TO BE MOUNTED AT
- 150 ABOVE THE SUPPORTING BEAM FOR THE HOIST.
- TO COVER HOLE AFTER ALL CONDUIT HAVE BEEN INSTALLED.
- SPACE. BREAKER TO BE A 600V-3P60.

SHALL BE EQUAL TO.

ISSUED FOR TENDER

ISSUE FOR 100% REVIEW

ISSUE FOR 99% REVIEW

ISSUE FOR 75% REVIEW

ISSUE FOR 50% REVIEW

NO. REVISIONS

- (19.) INSTALL A UNISTRUT METAL SUPPORT FRAME ON THE OUTER EDGE OF THE SEWAGE PUMPS FOR THE CABLING. 20. INSTALL A NEMA (2) U/F DISCONNECT FOR PUMP MOTOR. SUPPLY
- 21) REFER TO DRAWING 7507 FOR THE SPECIFICATION OF THE 33kW DUCTWORK HEATER. FAN (F-2) IS INSTALLED BELOW HEATER COIL

INDICATED IN THE DRY WELL.

- (2.) FOR (4) EXTERIOR LIGHTING FIXTURES, USE LITHONIA FIXTURE CAT. NO. TWP70M-120-CR-LPI-WG-CSA c/w 70W METAL HALIDE AND
- NO. VDS232-120-GEB-CSA c/w 2-32W T8 LAMPS. FIXTURE WILL
- 6. LOWER LEVEL (1) LIGHTING FIXTURES AND EMERGENCY LIGHTING TO BE MOUNTED AT APPROX. 9000 AFF.

- 400 x 150 HOLE THRU FLOOR FOR ELECTRICAL CONDUIT. HOLE TO BE LOCATED AT 100 FROM HOUSEKEEPING PAD AND ALIGNED WITH THE CENTER OF HOUSEKEEPING PAD. USE UNI-STRUT BRACING

FOR ELECTRICAL CONDUIT. SUPPLY A CHECKERPLATE COVER PLATE

- 12. INSTALL WELDER BREAKER IN MCC BELOW THE MAIN BREAKER
- (13.) WELDER RECEPTACLE SHALL BE A HEAVY DUTY, NON-HAZARDOUS, NEMA 4, WATERTIGHT, 600V-60A, 3-WIRE/4-POLE c/w BACKBOX, MANUFACTURED BY CROUSE-HINDS CAT. NO. ARE6425 OR SHALL
- (14.) INSTALL (4) 4.8kW PORTABLE UNIT HEATERS AT LOCATIONS INDICATED ON DRAWING. UNIT HEATER TO BE PLUG IN STYLE. UNIT HEATER MANUFACTURED BY OUELLET CAT. NO. OCH4800WB* OR
- (15.) UPPER LEVEL UNIT HEATER 1 & 2 TO BE MOUNTED FROM TOP OF
- UNIT HEATER AT 2460 AFF AND 1200 FROM WALL.
- LOWER LEVEL UNIT HEATER 3 TO BE MOUNTED FROM TOP OF UNIT HEATER AT 8500 AFF AND 900 FROM WALL.
- (17.) LOWER LEVEL UNIT HEATER 4 TO BE MOUNTED FROM TOP OF UNIT HEATER AT 2000 AFF AND 300 FROM WALL.
- (18.) UNIT HEATER RECEPTACLE SHALL BE A 6-30R, 30A/10/208V. INSTALL RECEPTACLE AT SAME HEIGHT AS THE UNIT HEATER.
- A TECK 3/C#10 FROM THE U/F DISCONNECT SWITCH TO THE
- 22) INSTALL THE THERMOSTAT FOR THE 33kW DUCTWORK HEATER AS

INSTALLATION OF CONDUIT.

MECHANICAL NOTES:

THE JB TO THE FAN.

THE JB TO THE FAN.

HEATING COIL.

AS SHOWN

DESIGNED

DRAWN

HOR. SCALE

DATE **FEB 11 2008**

VERTICAL

JAN 25 08 JH

DEC 14 07 JH

DATE BY

EQUIPMENT CONTROL NOTES:

- SUPPLY AND INSTALLATION OF ALARM & CONTROL PANEL TO BE DONE BY THE CITY OF WINNIPEG.
- ELECTRICAL CONTRACTOR TO INSTALL (2) 25-12#14 CONDUIT FROM ALARM & CONTROL PANEL TO MCC. ENSURE TO LEAVE 1500 OF EXTRA CABLE ROLLED-UP IN THE ALARM & CONTROL PANEL FOR THE CITY OF WINNIPEG TO MAKE FINAL CONNECTIONS. VERIFY LOCATION OF ALARM & CONTROL PANEL PRIOR TO INSTALLATION OF
- PROVIDE AND INSTALL TRANSMITTER CONTROL PANEL ADJACENT TO ALARM & CONTROL PANEL. INSTALL 25 CONDUIT c/w 24V CABLE + 1PR TWSA FROM TRANSMITTER TO HIGH LEVEL FLOAT SWITCH. VERIFY INSTALLATION OF HIGH LEVEL FLOAT SWITCH PRIOR TO
- SUPPLY AND INSTALLATION OF HIGH LEVEL FLOAT SWITCH TO BE DONE BY THE CITY OF WINNIPEG.

INSTALL A EXHUAST FAN (F-1) AT LOCATIONS INDICATED ON

EXHAUST FAN TO BE WIRED WITH 2#12-16C FROM PANEL "A" TO

DRAWING, REFER TO MECHANICAL DWG FOR SPECIFICATION. SUPPLY

A JUNCTION BOX ON ADJACENT WALL AND A TECK 2/C#12 FROM

DRAWING, REFER TO MECHANICAL DWG FOR SPECIFICATION.

INSTALL A SUPPLY FAN (F-2) AT LOCATIONS INDICATED ON

FAN TO BE WIRED WITH 2#12-16C FROM PANEL "A" TO A

JUNCTION BOX ON ADJACENT WALL AND A TECK 2/C#12 FROM

INSTALL A DUCT HEATING COIL (HC-1) AT LOCATIONS INDICATED ON

BE WIRED WITH 4#6-27C FROM MCC TO A JUNCTION BOX ON

ADJACENT WALL AND A TECK 4/C#6 FROM THE JB TO THE

Accutech Engineering Inc.

Tomorrow's Technology Today

CHECKED

APPROVED

RELEASED FOR

CONSTRUCTION

DATE **08/02/13**

K. ZUREK

605-287 Broadway, Winnipeg, Manitoba Canada R3C-0R9 Phone (204) 944-1555 Fax (204) 944-1444

DRAWING, REFER TO MECHANICAL DWG FOR SPECIFICATION. COIL TO

ENGINEER'S SEAL

ORIGINAL SIGNED

J.D.P. HRABLIUK

08/02/07

BID OPPORTUNITY 892-2007

PLOT DATE: 08 02 13

* DENOTES A GFI BREAKER

SITE PLAN

PANEL #: A MOUNTING:

FED FROM: MCC

FEEDER:

WATTS

500W 4

150W

300W 4

25W

300W

1.2kW

1.2kW

2.4kW

2.4kW

2.4kW

2.4kW

500W

NOTES:

TOTAL LOAD: EST. 28.5 kW

A. VERIFY ALL DIMENSIONS, ELEVATIONS AND LOCATIONS FOR ALL ELECTRICAL EQUIPMENT & WIRING ON SITE.

PANEL SCHEDULE

No. | C/B | C/B | No.

RECEPTACLE 17 30 2P 18 PORTABLE UNIT HEATER #3

PORTABLE UNIT HEATER #2 19 2P 30 20 RECEPTACLE

SPARE 25 | 15 | 15 | 26 | SPARE

 SPARE
 27
 15
 15
 28
 SPARE

 SPARE
 31
 15
 15
 32
 SPARE

SPARE 33 | 15 | 15 | 34 | SPARE

LIFTING HOIST MAIN FLOOR RECEPTACLE 11 15 15 12 EXHAUST FAN (F-1)

PORTABLE UNIT HEATER #1 15 2P 15 16 SPARE

SPACE 35

SPACE 39

SPACE 41

SPACE 3

LIFTING HOIST DRYWELL RECEPTACLE 13 | 15 | 15 | 14 | SUPPLY FAN (F-2)

SUMP PUMP RECEPTACLE 23 15 30 24 RECEPTACLE

PANEL TYPE: 42CCT c/w BOLT-IN C.B.

AMPERE: 100A

VOLTAGE: 120/208V

PHASE: 3ø/4W

MAIN BREAKER:

EXTERIOR LIGHTS 1 15 15 * 2 RECEPTACLE, EXTERIOR - WP

LOWER LEVEL LIGHTS 5 | 15 | 15 | 6 | RECEPTACLE, TELE/DATA - TVSS

EBB RECEPTACLE 9 15 15 * 10 RECEPTACLE, LOWER LEVEL - WP

RECEPTACLE 21 30 2P 22 PORTABLE UNIT HEATER #4

36 SPACE 38 SPACE

40 SPACE

42 SPACE

EXIT SIGN 7 | 15 | 15 * | 8 | RECEPTACLE, LOWER LEVEL - WP

MAIN FLOOR LIGHTS 3 | 15 | 15 | 4 | RECEPTACLE, MAIN FLOOR

GENERAL NOTES:

EMERGENCY EQUIPMENT NOTES:

- 1. CONNECT 120V LIGHTING CIRCUITS TO VOLTAGE SENSING RELAYS IN EMERGENCY BATTERY BANK. USE LUMACELL EBB 200W CAT. No. RG24S200-2MT18W-TMBB C/W 2-18W MT LAMPS. VERIFY CIRCUITS ON SITE & MARK ON AS-BUILT DRAWINGS. PROVIDE A DUPLEX RECEPTACLE ADJACENT TO NEW EBB@2100 AFF. CONNECT TO PANEL "A" ON CCT "A9". CONNECT NEW EXIT LIGHTS TO SEPARATE CIRCUIT "A7". NEW 1P15 CB WITH 2#12-18C. CONNECT 3RD SOCKET TO EMERGENCY LIGHTING CCT AS INDICATED.
- 2. USE LUMACELL REMOTE LAMP CAT. No. MT2-24V18W C/W 2-18W MT LAMPS. TWIN REMOTE HEADS SHALL BE WIRED WITH A MIN. 2#10-18C.
- 3. USE LUMACELL EXIT SIGN CAT. No. LCME-UN.
- 4. ENSURE PROPER WIRE SIZE TO THE FURTHEREST UNIT TO HAVE A

V.D. NOT MORE THAN 5%.

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

DUGALD RD

— TO EXISTING HYDRO POLE w/ POLE MOUNT TRANSFORMER

UNDERGROUND CABLE SUPPLIED BY MH

> WATTS 300W

> > 500W

300W

1.0kW

1.0kW

500W

500W

2.4kW

2.4kW

2.4kW

2.4kW

SYMBOL LEGEND

3 PHASE MOTOR

1 PHASE MOTOR

TRANSFORMER

☐ U/F DISCONNECT

\$ SINGLE SWITCH

TELEPHONE OUTLET

▼ EXIT SIGN

TELE/DATA BACKBOARD

EMERGENCY BATTERY BANK

REMOTE LAMPS, 2 HEADS

'WP' DENOTES WEATHER PROOF

UNIT HEATER

ALARM & CONTROL PANEL

STANDARD RECEPTACLE

FLUORESCENT — CEILING MOUNTED

FLUORESCENT - WALL MOUNTED

INCANDESCENT LIGHT FIXTURE

	CONSULTANT DRAWING NUMBER
	_
DUGALD ROAD WASTEWATER PUMPING STATION	SHEET 6 OF 14
WASIEWAIER PUMPING STATION	CITY DRAWING NUMBER
ELECTRICAL LAYOUT AND NOTES	7505