

Diagram illustrating the components of a tank symbol:

- MOTOR, (OR SOLENOID), OR GENERIC EQUIPMENT (E.G.):** Indicated by the letter 'M' in a circle.
- UNIT NUMBER:** Indicated by the number '123456' in a circle.
- INSTRUMENTATION:** Indicated by the number '12345' in a circle.

BOP - BOTTOM OF PIPE
 COP - CENTRE OF PIPE
 INV. - INVERT
 BOD - BOTTOM OF DUCT
 BODE - BOTTOM OF EQUIPMENT
 C/W - COMPLETE WITH
 NTS - NOT TO SCALE

 INDICATES TIE POINTS
WITH EXISTING PIPING
OR PACKAGED

	CEC BU
	CEC PU (IG)
	SAB BU

 MOTOR(M), OR SOLENOID(S),
OR GENERIC EQUIPMENT (EG).
UNIT NUMBER

CAL

714 2001
MOTOR (M)
SOLENOID (S)
GENERIC EQUIPMENT (EG)

TANKS

FORMAT 714-6010
MOTOR (M)
SOLENOID (S)
GENERIC EQUIPMENT (EG)

MECH. DEVICE IDENTIFIER
CE ID

Ⓜ TANK TYPE
Ⓢ TANK ID

PROCESS EQUIPMENT	
BL	BLOWER
BS	BIOPH. SCREEN
CL	CLAY CRACKER
CP	COMPRESSION
EXT	EXTENSIFUGUE
F	FILTER
HC	HEAT EXCHANGER
MX	MIXER
MC	MICROVALVE
P	PUMP
RDV	ROUNDER CONVEYER
SL	SLOPE / SLURGE GATE
SSA	SLURRY / SLURGE GATE (AUTOMATIC)
ST	STROP
SMP	SAMPLER
SC	SCHEMATIC REPRESENTATION / COMPARISON
UL	ULTRA-SOUND DEVICE
WH	WATER - WASHING - CHESTED
WNC	WATER - WASHING - CIRCULATOR
WDR	WATER - WASHING
VALVES	
VB	VALVE / BLOWING VALVE
VBE	VALVE / BLOWING PREVENTER
VBP	VALVE / BLOWING PREVENTER
VC	VALVE / CHECK
VF	VALVE / FLOW ISOLATION
VFC	VALVE / FLOW CONTROL
VPC	VALVE / PRESSURE / FLOW REGULATING VALVE
VPI	VALVE / PRESSURE RELIEF

	VACUUM RELIEF VALVE
	PRESSURE RELIEF VALVE
	CHECK VALVE
	FLOAT CONTROL SHUT-OFF VALVE
	CIRCUIT BALANCING VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	DOUBLE CHECK BACKFLOW PREVENTER
	SLUICE GATE
	HAND GATE
	HAND GATE (FRAME ONLY)

	PIPE TEE DOWN
	PIPE TEE UP
	ANCHOR, INTERMEDIATE
	ANCHOR, MAIN
	PIPE CAP
	DRAIN
	QUICK CONNECT COUPLING

S-XX-YY LINE NO.
 S-XX-YY EXISTING LINE NO.
 WHERE:
 S = NOMINAL SIZE
 XX = MATERIAL
 YY = SYSTEM IDENTIFIER

SYSTEM IDENTIFIERS
 AA AQUEOUS AMMONIA
 AL ALUMINUM SULFATE
 BW BACKWASH WATER
 BWR BACKWASH RESIDUAL WATER

COAD	CONDULANT
COAW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DR	DRAIN
DWV	DRAIN / WASTE / VENT
EA	EXHAUST AIR
ECND	EXHAUST CONDENSATE
EGL	EQUALIZATION
FCL	FERRIC CHLORIDE
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FS	FIRE STANDPIPE
FW	FILTERED WATER
GLR	GLYCOL RETURN
GLS	GLYCOL SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LME	LIME
MJA	MAKE UP AIR
MW	MUNICIPAL WATER
NG	NATURAL GAS
OA	OUTSIDE AIR

	ORIFICE PLATE
	MAGNETIC FLOW METER
	DENSITY METER
	PARSHALL FLUME
	WEIR, V-NOTCH
	WEIR
	VARIABLE AREA FLOW METER
	VENTURI

	FIRST FEATURE		DOCKABLE FEATURE		
LETTER	PROCESSOR OR MOVING FUNCTION	MODIFIER	HEAD OR INVERSE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	PROCESSOR (NAME)		ALARM	CONTROL	
B	PROCESS (NAME)			CONTROL	
C	PROCESS (NAME)			CONTROL	
D	PROCESS (NAME)			CONTROL	
E	PROCESS (NAME)			CONTROL	
F	PROCESS (NAME)			CONTROL	
G	PROCESS (NAME)			CONTROL	
H	PROCESS (NAME)			CONTROL	
I	PROCESS (NAME)			CONTROL	
J	PROCESS (NAME)			CONTROL	
K	PROCESS (NAME)			CONTROL	
L	PROCESS (NAME)			CONTROL	
M	PROCESS (NAME)			CONTROL	
N	PROCESS (NAME)			CONTROL	
O	PROCESS (NAME)			CONTROL	
P	PROCESS (NAME)			CONTROL	
Q	PROCESS (NAME)			CONTROL	
R	PROCESS (NAME)			CONTROL	
S	PROCESS (NAME)			CONTROL	
T	PROCESS (NAME)			CONTROL	
U	PROCESS (NAME)			CONTROL	
V	PROCESS (NAME)			CONTROL	
W	PROCESS (NAME)			CONTROL	
X	PROCESS (NAME)			CONTROL	
Y	PROCESS (NAME)			CONTROL	
Z	PROCESS (NAME)			CONTROL	
AA	PROCESS (NAME)			CONTROL	
AB	PROCESS (NAME)			CONTROL	
AC	PROCESS (NAME)			CONTROL	
AD	PROCESS (NAME)			CONTROL	
AE	PROCESS (NAME)			CONTROL	
AF	PROCESS (NAME)			CONTROL	
AG	PROCESS (NAME)			CONTROL	
AH	PROCESS (NAME)			CONTROL	
AI	PROCESS (NAME)			CONTROL	
AJ	PROCESS (NAME)			CONTROL	
AK	PROCESS (NAME)			CONTROL	
AL	PROCESS (NAME)			CONTROL	
AM	PROCESS (NAME)			CONTROL	
AN	PROCESS (NAME)			CONTROL	
AO	PROCESS (NAME)			CONTROL	
AP	PROCESS (NAME)			CONTROL	
AQ	PROCESS (NAME)			CONTROL	
AR	PROCESS (NAME)			CONTROL	
AS	PROCESS (NAME)			CONTROL	
AT	PROCESS (NAME)			CONTROL	
AU	PROCESS (NAME)			CONTROL	
AV	PROCESS (NAME)			CONTROL	
AW	PROCESS (NAME)			CONTROL	
AX	PROCESS (NAME)			CONTROL	
AY	PROCESS (NAME)			CONTROL	
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BP	PROCESS (NAME)			CONTROL	
BQ	PROCESS (NAME)			CONTROL	
BR	PROCESS (NAME)			CONTROL	
BS	PROCESS (NAME)			CONTROL	
BT	PROCESS (NAME)			CONTROL	
BU	PROCESS (NAME)			CONTROL	
BV	PROCESS (NAME)			CONTROL	
BW	PROCESS (NAME)			CONTROL	
BX	PROCESS (NAME)			CONTROL	
BY	PROCESS (NAME)			CONTROL	
BZ	PROCESS (NAME)			CONTROL	
CA	PROCESS (NAME)			CONTROL	
CB	PROCESS (NAME)			CONTROL	
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CH	PROCESS (NAME)			CONTROL	
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CK	PROCESS (NAME)			CONTROL	
CL	PROCESS (NAME)			CONTROL	
CM	PROCESS (NAME)			CONTROL	
CN	PROCESS (NAME)			CONTROL	
CO	PROCESS (NAME)			CONTROL	
CP	PROCESS (NAME)			CONTROL	
CQ	PROCESS (NAME)			CONTROL	
CR	PROCESS (NAME)			CONTROL	
CS	PROCESS (NAME)			CONTROL	
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CU	PROCESS (NAME)			CONTROL	
CV	PROCESS (NAME)			CONTROL	
CW	PROCESS (NAME)			CONTROL	
CX	PROCESS (NAME)			CONTROL	
CY	PROCESS (NAME)			CONTROL	
CZ	PROCESS (NAME)			CONTROL	
DA	PROCESS (NAME)			CONTROL	
DB	PROCESS (NAME)				

TYPE	FUNCTION	FUNCTION	FUNCTION
PROCESS (OFTN CHANNEL)			
ANALOG SIGNAL (e.g. 4-20mA, etc.)			
DISCRETE SIGNAL (e.g. ON/OFF, etc.)			
PULSE DURATION SIGNAL			
PULSE FREQUENCY SIGNAL			
PNEUMATIC SIGNAL			
PULSED SYSTEM SIGNAL			
HYDRAULIC SYSTEM SIGNAL			
NETWORK COMMUNICATION			
PRIMARY PROCESS			
SECONDARY / UTILITY PROCESS			
PACKAGE SYSTEM BOUNDARY			
PIPING LINE			
DATA INQUIRY			
DIAGNOSTIC FIELDSHED NETWORK			
GATE/ETHERNET NETWORK			
FIBRE OPTIC ETHERNET NETWORK			
MODBUS NETWORK			
RS-232 NETWORK			
RS-485 NETWORK			

LABEL LEGEND

XX XXX

BRANCH ITEM NUMBER

PROCESS BRANCH NUMBER

SERIES PROCESS NUMBER

D: DIGITAL CABLE

A: ANALOG CABLE

Pw: POWER CABLE

[illegible]

A	ANALOG	I	CURRENT
D	DIGITAL	P	PNEUMATIC
E	VOLTAGE	PP	PULSE FREQ
F	FREQUENCY	PD	PULSE DUR
H	HYDRAULIC	R	RESISTANCE

NO:

OL

CURRENT TO PNEUMATIC
TRANSDUCER
(PANEL MOUNTED)

CONNECTING LINES

NON CONNECTING LINES

Diagram illustrating the components of a 5-digit address code:

- 1st digit: ALARM / FUNCTION
- 2nd digit: CONNECTED PANEL
- 3rd digit: ISA FUNCTION
- 4th digit: Y8
- 5th digit: ANALOG OR DIGITAL

IF LOOP	XOV	XOV VOLT-AC	AS	AS
IF	XOV	ALTERNATING	DC	AC
OVER	ACK	ACKNOWLEDGE		
	ALKALY	ALKALINITY		
	AUTO	AUTO MANUAL		
(NS)	AUT	AUTO-ON-TEST		
	CC	CORPORATION		
	CL	CLARKING		
	CM	COMPUTER MAN		
	COO	CHEMICAL OXY		
	CON	CONTROL PANEL		
	CN	LOCATE ON CRY		
	DC	DIRECT CURRENT		
	DIS	DISCHARGED		
	DOZ	DECONTAMINAT		
	DPH	DRAWN TO PRO		
	FC	FAST-STOP FLOW		
NUMBER	FORA	FAST-STOP FLOW		
	FR	FAST-STOP FLOW		
(D)	FP-XY	FEED PUMP		
		DE-LIMIT PRO		
	FR	FORWARD RELO		
REAR OF PANEL	HOS	HYDROGEN SULF		
	HO	HAND-OFF		
	HOR	HAND-OFF REM		
		SAFETY RELAY		
	IR	IRREDIANT SAFE		
	LA	LIGHTNING AR		
	LCP	LOCAL CONTROL		
(MCC)	LHSA	LOW SPEED HIGH		
	LOC	LOCKOUT TEST		
	LR	LOCAL REMOTE		
	MA	MANUAL AUTO		
	MC	MEDIATE RATE		
	MCC-#	MANUAL CONTR		

PRESENT
 ELEGANTIC
 2.35 FREQUENCY
 1.56 DURATION
 1.56 DISTANCE

X
 A Y
 Z

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SEQUENTIAL NUMBER: 00 TO 99
 SUB PROCESS
 MAJOR PROCESS
 ALPHABETIC PORTION OF TAG
 EX: LP, FCP, CP, LCP, DP, JSA, JB, JE
 MAJOR PROCESS: REFER TO PID 01, USE 9 FOR
 SUB PROCESS: 0 FOR GENERAL PROCESS
 9 FOR BUILDING SERVICES

	AIR VENT, MANUAL
	AIR VENT, AUTOMATIC
	AIR VACUUM RELEASE
	WYE TYPE STRAINER
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	NATURAL GAS METER
	THERMOSTAT, ELECTRIC
	THERMOSTAT, PNEUMATIC
	FLUSHING CONNECTION
	FEED POINT
	DRAIN
	HOSE BIBB
	WALL HYDRANT

ATED	OC	OPEN CLOSE DIS
ATED	OP	OPEN CLOSE REMOTE
OC	OCA	OPEN CLOSE AUTO
OC	OC	OPEN CLOSE INTERFACE
	ON	ON-ON
	OFF	OFF-OFF
	OR	ON-OFF REMOTE
	OOR	ORING PHOSPHORUS
	OPN	OPEN STOP CLOSE
	PLC	HYDROGEN ION CONCENTRATION
	PL	PHYSICAL LOGIC
	RM#	REMOTE MULTIPLEXING
	TEL	TELEMETRY UNIT
	ST	START STOP
	TC	TOTAL CHLORINE RESEVER
	TCL	TOTAL CHLORINE DEMAND
	TURB	TURBIDITY
	VF	VARIABLE FREQUENCY DRIVE
	D	DIFFERENCE
	N	NUMBER
	X	MULTIPLY
	Y	YIELD
	Z	CHARACTERIZED
	Δ	RAISED
	Δ	RAISED TO THE Nth POWER
	□	SQUARE ROOT
	IN	INTENSITY
	↑	UP/ON BOOST
	↓	SELECT HIGHEST SIGNAL
	↑	SELECT LOWEST SIGNAL
	REL	RELATIVE
	PAR	GAIN OR ATTENUATE
	LOC	LOCATED ON AREA CONTROL PANEL
	LOC	LOCATED ON MCC

SYMBOLS

 A = CONNECTION I.D.
X = PROCESS ABBREVIATION
Y = DESTINATION/CONNECTION DRAWING
Z = DESCRIPTION

 BORETTE INPUT

 BORETTE OUTPUT

 VALVO INPUT

 VALVO OUTPUT

 LOG AND JACK

 INTERCONNECTION

 PROCESS SERVICES

 INTERFACE TO OR FROM
PROCESS EXTERNAL TO
FACT

 DEVICENTIC NODE

 GENERIC DEVICENTIC NODE

 TO EQUIPMENT CAN DEVICENTIC NODE

	UNIT HEATER
	CABINET UNIT HEATER
	BASEBOARD HEATER

 FLOOR DRAIN
 FUNNEL FLOOR DRAIN
 CLEANOUT

AIR MOVING EQUIPMENT

 FAN
 MOTORIZED DAMPER
 FIRE DAMPER
 BALANCING DAMPER
 BACK DRAFT CAPPER
 ROOFTOP FAN
 GENERIC GRILLE/DIFFUSER
 LOUVRE

 DIFFUSER TAG

DIFFUSER TAG	DIFFUSER TYPE
1	FLOW RATE
2	DIFFUSER SIZE
3	CONNECTION SIZE

TYPE
 1000 Lb — FLOW RATE
 2500 Lb — FLOW RATE
 4500 Lb — FLOW RATE

GIN
HOLLER
L.E. HAS ...

1	ISSUED FOR CONSTRUCTION	136623
2	ISSUED FOR TENDER	316323
No.	ISSUE / REVISION	COMMENTS
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	VERIFY SHEET SIZE AND SCALE TO THE FULL SIZE DRAWING.	
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CLIENT:

TOWNSHIP OF
North Dundas

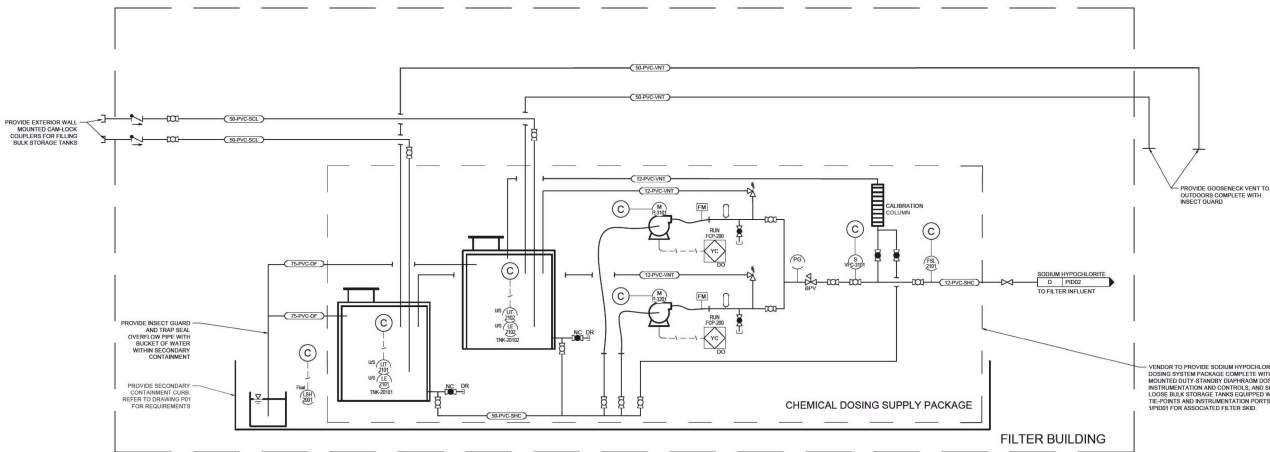
CONSULTANT:

J.L. Richards
ENGINEERS-ARCHITECTS-PLANNERS

www.jlrichards.ca

PROJECT NORTH	PROFESSIONAL STAMP

CHESTERTVILLE DRINKING WATER SUPPLY SYSTEM UPGRADES VILLAGE OF CHESTERTVILLE, ONTARIO	
DRAWING:	
P&ID LEGEND	
DESIGN: JW	DRAWING #: PID00
DRAWN: JV	
CHECKED: ADILO	
J.R.#: 31486-000	



1 SODIUM HYPOCHLORITE DOSING SYSTEM PID
REV

PUMP SCHEDULE															
I.D.	DESCRIPTION	MANUF. MODEL	TYPE	DUTY POINT		DISPLACEMENT DATA			FLUID	MOTOR			RPM	COMMENTS	
				FLOW L/S	TDH FT	HYD. EFF. %	STROKE RATE /MIN	SECTION 121 IN.		MAX. PRESSURE PSI	HP	VOLT			PH
P-2010 & P-2011	WASHDOWN PUMPS (DUTY & STANDBY)	PROGRESS SUMMIT PUMP FUSION SERIES OR APPROVED EQUIVALENT	CENTRIFUGAL END SUCTION	30.9	27.7	76.2	N/A	N/A	N/A	WATER	55	480	3	1000	
P-2010 & P-2011	CHEMICAL DOSING PUMPS (DUTY & STANDBY)	PROMINENT GAMMA X SERIES	SOLARIS/CLIPPER SERIES	N/A	N/A	N/A	0.11	2.1	230	1/4 IN. WACO SOLUTION	N/A	120	1	N/A	PUMPS SHALL BE EACH CAPABLE OF DELIVERING 0.4 L/S OF SOLUTION INTO THE SYSTEM

GENERAL NOTE:

- REFER TO DRAWING PID01 FOR CONTINUATION OF SIGNALS RELAYABLE TO TOP OF FILTER CONTROL PANEL.
- REFER TO NEW PANEL ID TABLES IN SPECIFICATION APPENDICES.

1	ISSUED FOR CONSTRUCTION	1/26/2021
2	ISSUED FOR TENDER	2/16/2021

NA	ISSUE PROVIDED	05/04/2021
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VERIFY ALL FIELD CONDITIONS AND THE ACTUALITY OF THE INFORMATION PROVIDED TO THE ENGINEER PRIOR TO CONSTRUCTION. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE INFORMATION PROVIDED TO HIM/HER BY THE CLIENT.

SCALE: 1" = 10'-0"

DATE: 05/04/2021

CLIENT: J.L. Richards & Associates Limited

CONSULTANT: J.L. Richards & Associates Limited

CONSULTANT: J.L. Richards & Associates Limited

PROJECT: CHESTERTON DRINKING WATER SUPPLY SYSTEM UPGRADES

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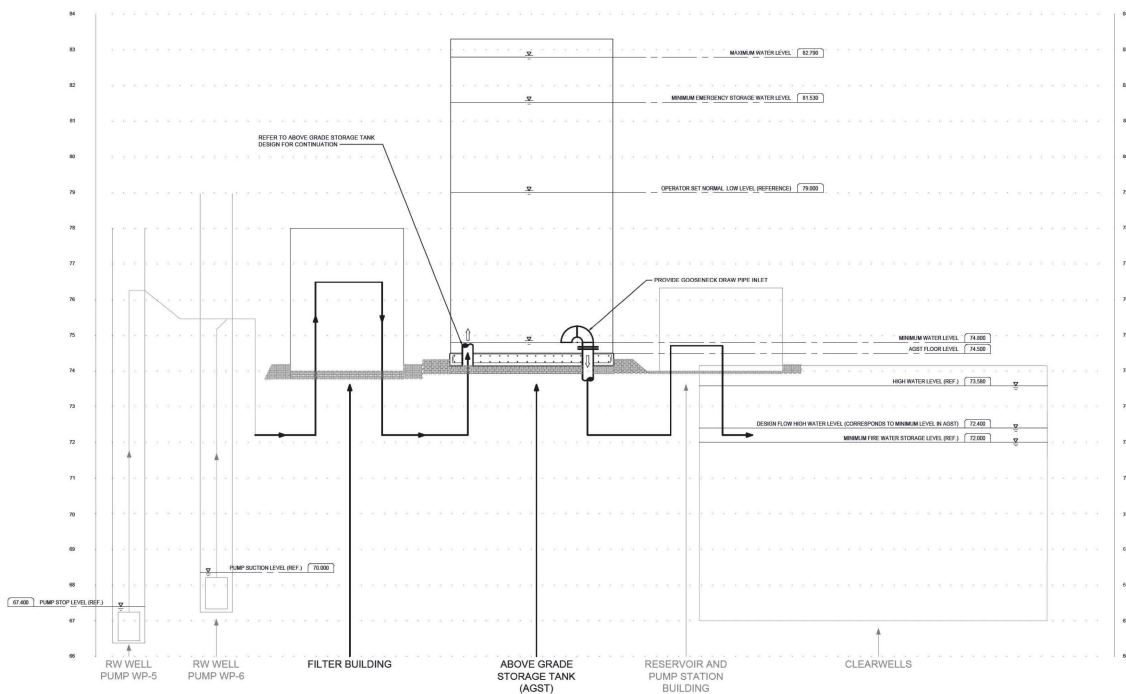
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1 HYDRAULIC PROFILE
SCALE: VERTICAL 1:50 HORIZONTAL 1:50

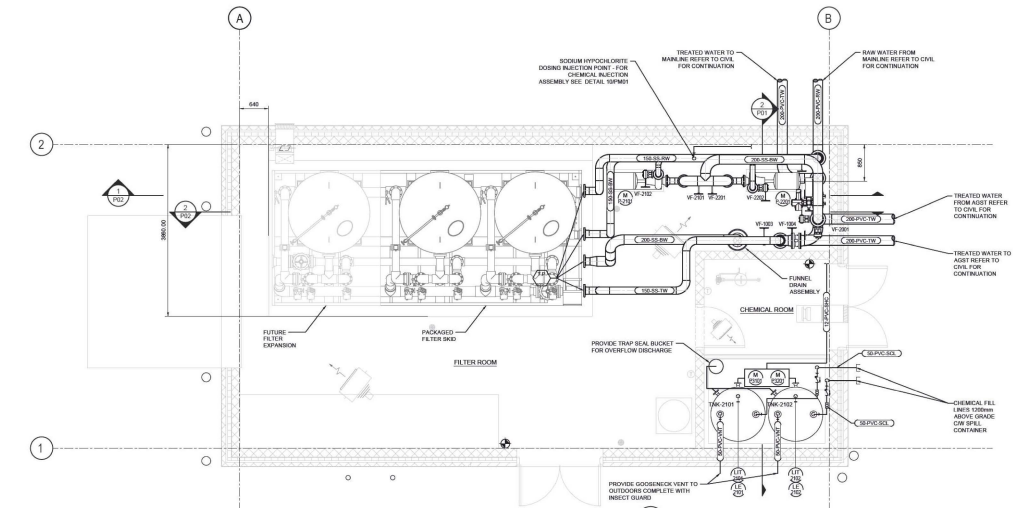
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99		ISSUED FOR PROVISION	20/04/23
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PROJECT: CHESTERVILLE DRINKING WATER SUPPLY SYSTEM UPGRADES
VILLAGE OF CHESTERVILLE, ONTARIO

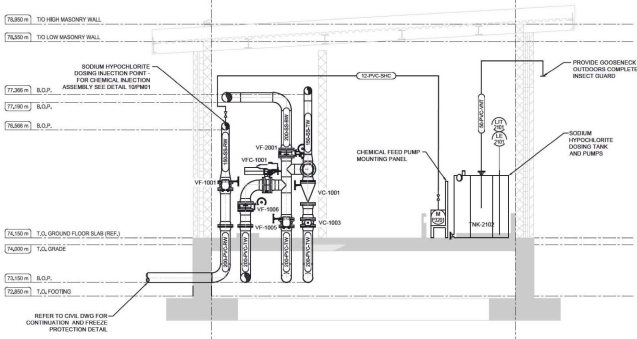
HYDRAULIC PROFILE

DATE: 20/04/23
DRAWN: BK
CHECKED: AD
JOB #: 31486-000

HP01

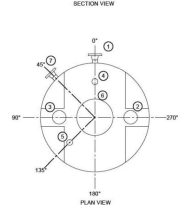
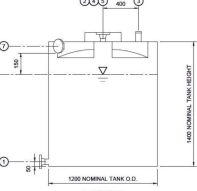


1 FILTER BUILDING PROCESS PIPING PLAN SCALE 1:100



2 FILTER BUILDING SECTION SCALE 1:40

SODIUM HYPOCHLORITE TANK NOZZLE SCHEDULE	
NO.	DESCRIPTION
1	500 SECTION
2	500 FILL
3	500 VENT
4	500 TRANSMITTING LEVEL INDICATOR
5	500 TRANSMITTING LEVEL INDICATOR
6	4000 LED WITH LOCKING STRAP OVERFLOW
7	750 OVERFLOW



3 SODIUM HYPOCHLORITE TANK DETAIL SCALE 1:20

NOTE:
1. SUPPORT PROCESS PIPING FROM WALLS AND FLOORS.

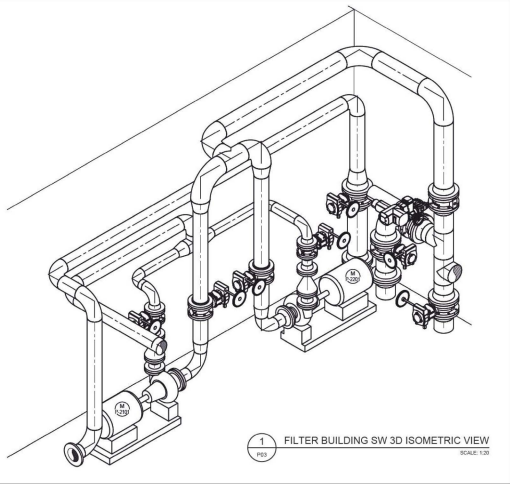
1	ISSUED FOR CONSTRUCTION	12/06/21
2	ISSUED FOR TENDER	2/05/22
3	ISSUE REVISION	20/06/22

1. J.L. Richards ENGINEERS ARCHITECTS PLANNERS
2. J.L. Richards ENGINEERS ARCHITECTS PLANNERS
3. J.L. Richards ENGINEERS ARCHITECTS PLANNERS

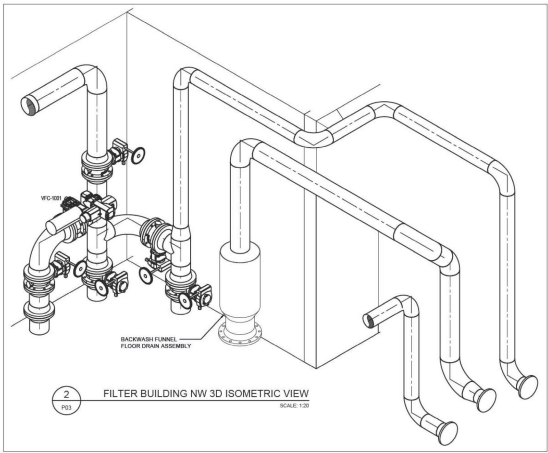
PROJECT: CHESTERVILLE DRINKING WATER SUPPLY SYSTEM UPGRADES
VILLAGE OF CHESTERVILLE, ONTARIO

DATE: 20/06/22
DRAWN: JLR
CHECKED: AD
DATE: 20/06/22

P01



1 FILTER BUILDING SW 3D ISOMETRIC VIEW
SCALE: 1/8"



2 FILTER BUILDING NW 3D ISOMETRIC VIEW
SCALE: 1/8"

DRAWING NOTES:

1. SHOWN FOR REPRESENTATION ONLY.

1	ISSUED FOR CONSTRUCTION	1/26/2021
2	ISSUED FOR TENDER	3/16/2021

NO.	REVISION	DATE
-----	----------	------

THIS DRAWING HAS BEEN PROVIDED BY J.L. RICHARDS & ASSOCIATES LIMITED AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE AGREEMENT BETWEEN THE CLIENT AND J.L. RICHARDS & ASSOCIATES LIMITED. THE CLIENT AGREES TO HOLD J.L. RICHARDS & ASSOCIATES LIMITED HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, THAT MAY BE ASSERTED AGAINST OR INCURRED BY J.L. RICHARDS & ASSOCIATES LIMITED OR ITS EMPLOYEES, AGENTS OR SUBCONTRACTORS IN CONNECTION WITH THE PERFORMANCE OF THE SERVICES PROVIDED BY J.L. RICHARDS & ASSOCIATES LIMITED TO THE CLIENT. THIS AGREEMENT SHALL BE GOVERNED BY THE LAW OF THE PROVINCE OF ONTARIO AND THE JURISDICTION OF THE COURTS OF THE PROVINCE OF ONTARIO SHALL BE EXCLUSIVE.

NOTES: 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED. 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED. 3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED. 4. ALL DIMENSIONS ARE TO OUTSIDE UNLESS OTHERWISE SPECIFIED. 5. ALL DIMENSIONS ARE TO INSIDE UNLESS OTHERWISE SPECIFIED. 6. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED. 7. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED. 8. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED. 9. ALL DIMENSIONS ARE TO OUTSIDE UNLESS OTHERWISE SPECIFIED. 10. ALL DIMENSIONS ARE TO INSIDE UNLESS OTHERWISE SPECIFIED.

SCALE: 1/8" = 1'-0"

DATE: 1/26/2021

PROJECT: CHESTERVILLE DRINKING WATER SUPPLY SYSTEM UPGRADES

CONSULTANT: J.L. Richards & Associates Limited

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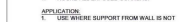
10



CM01



SCALE: NTS



SCALE: NTS

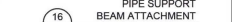


Page 15

 PURDUE UNIVERSITY
DRUCKED FILE PURDUE UNIVERSITY

GENERAL NOTES:

1. REFERENCE SPECIFICATIONS SECTIONS 10500 AND 10201
2. SUPPORTS AND ATTACHMENTS PROVIDED ARE INTERFERED BY THE EXISTING STRUCTURE AND EXIST SUPPORTS METHODS AVAILABLE TO THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE.
3. REFER TO SPECIFICATION FOR DESIGN AND SUBMISSION
4. PIPING SUPPORT SYSTEM DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE DRUMMERS TRAP BY A PROFESSIONAL ENGINEER.
5. MATERIALS
 - A. ALL SUPPORTS, RODS, ETC. INSTALLED IN PROCESS AREAS, PLUMB GALLERIES AND OUTDOOR AREAS ARE NOT TO BE PAINTED.
 - B. ALL SUPPORTS INSTALLED IN DOCKED TANKAGE ARE TO BE PAINTED.
 - C. ALL BURIED SUPPORTS TO BE 304 STAINLESS STEEL.
 - D. ALL BURIED PIPING SUPPORTS TO BE 304 STAINLESS STEEL.
6. VALVE SUPPORTS IN NATURAL DISASTERS AREAS
7. VALVE SUPPORTS PROVIDED INDEPENDENT SUPPORT FOR EACH VALVE 105mm and Larger
8. BULK EQUIPMENT PROVIDE INDEPENDENT SUPPORTS FOR EACH EQUIPMENT 105mm and Larger
9. PROVIDE IMPROVED SUPPORT TO VERTICAL COLUMNS AND HANGERS TO BE 105mm AND LARGER TO VERTICAL, MOVING, WITH SPRING HANGER OR SPRING HANGER WITH SHOCK ABSORBER
10. ALL HANGER RODS TO BE MINIMUM 12mm diameter
11. ALL VERTICAL SUPPORTS HANGERS TO BE CAPABLE OF 100% SHOCK LOAD
12. WHERE ANGLE SIZES AND DIMENSIONS ARE RECALCULATED THEY ARE TO BE CONFIRMED BY SUPPORT DESIGNER

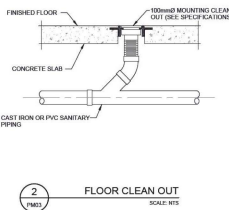












EXPANSION TANK SCHEDULE							
I.D.	DESCRIPTION	TANK VOLUME	ACCEPTANCE VOLUME	ORIENTATION	DIAMETER	OPERATING PRESSURE	COMMENTS
		L	L				
ET-0000	CRW PIPING EXPANSION TANK	50	5.5	VERT.	355	414	

[illegible]

GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS

GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS

- GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS**
A. ALL EXXX AND DXX SERIES DRAWINGS TO BE READ IN CONJUNCTION WITH THIS DRAWING. SYMBOLS AND NOTES SHOWN ON THIS DRAWING APPLIES TO THOSE DRAWINGS.

- B. NOT ALL SYMBOLS USED IN THE EDOCK AND DOCK SERIES DRAWINGS MAY BE SHOWN ON THIS LEGEND. IN SUCH CASES INDUSTRY STANDARD SYMBOLOLOGY WILL BE EMPLOYED AND A DESCRIPTION PROVIDED.

PROCESS IN AND

- A. REFER TO THE SINGLE LINE DIAGRAMS AND PANEL SCHEDULES FOR WIRING REQUIREMENTS.
- B. ALL MOUNTING BRACKETS (INCLUDING UNISTRUT) TO BE STAINLESS STEEL WITH STAINLESS STEEL HARDWARE.

- C. COORDINATE ALL CORING WITH STRUCTURAL X-RAY CONCRETE PRIOR TO CORING. ENSURE NO STRUCTURAL STEEL IS DAMAGED.

- D. ANY CHANGES REQUIRED TO THE CABLING IDENTIFIED IN THESE DOCUMENTS ARE TO BE SUBMITTED FOR REVIEW PRIOR TO ORDERING ANY MATERIALS. ADJUSTMENTS TO THE CONTRACT WILL BE MADE FOR THE INCREASED COST IN MATERIALS ONLY, WHEN COMPARED WITH WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS. NO CONSIDERATION WILL BE GIVEN FOR ADDITIONAL COMPENSATION ARISING FROM THE CONTRACTORS FAILURE TO PLAN HIS WORK PRIOR TO ORDERING AND INSTALLING ANY MATERIALS.

- E. UNLESS OTHERWISE INDICATED, SIZE ALL CONDUITS TO SLEET, IN ACCORDANCE WITH THE REQUIREMENTS OF THE OESB.

- F. PROVIDE A GROUND WIRE IN EACH CONDUIT CONTAINING POWER OR CONTROL CONDUCTORS. SIZE GROUND WIRES IN ACCORDANCE WITH THE REQUIREMENTS OF THE OESC.

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HOUSE SERVICES PLAN

- #### A. COORDINATE LIGHTING MOUNTING HEIGHTS WITH MECHANICAL EQUIPMENT.

- B. ALL RECEPTACLES IN THE PROCESS AREAS TO BE MOUNTED AT 1200mm A.F.F.

- C. REFER TO E32 FOR HOUSES SERVICES CONDUIT REQUIREMENTS.

- EXTERIOR WALL. AT LOCATION WHERE DEVICE IS TO BE MOUNTED, THERE SHOULD BE NO VISIBLE CABLING, CONDUITS OR CONDUIT FITTINGS ON

- E. REFER TO DRAWING E03 FOR FOR PANEL SCHEDULES.

- F. UNLESS OTHERWISE INDICATED, SIZE ALL CONDUITS TO SUIT, IN ACCORDANCE WITH THE REQUIREMENTS OF THE OESC.

- CONDUCTORS. SIZE GROUND WIRES IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC.

LINETYPE LEGEND

	NEW
	EXISTING
	DEMOLITION
	DISCRETE
	ANALOG
	INTEGRAL
	UNDERGROUND LINES

LIGHTING SYMBOLS	
	MOTOR-RATED SWITCH
	SWITCH (CIRCUIT AS INDICATED)
	DIMMY SWITCH (CIRCUIT AS INDICATED)
	EMERGENCY BATTERY BACKUP LIGHT
	CEILING-MOUNTED LIGHT FEATURE (TYPE AS INDICATED)
	WALL-MOUNTED LIGHT FEATURE (TYPE AS INDICATED)
	DOUBLE HEAD REMOTE EMERGENCY LIGHT

INSTRUMENTATION SYMBOLS	
	SIGNALIZING DEVICE
	MOTORIZED EQUIPMENT
	SOUNDING VALVE
	INSTRUMENTED DEVICE

CONTROLS SCHEMATICS SYMBOLS	
	FUSE
	GROUND, CHASSIS OR FRAME
	LIGHT-INDICATING
	MOTOR, THREE-PHASE, INDUCTION
	OVERLOAD RELAY, THERMAL
	RESISTOR, ADJUSTABLE (POTENTIOMETER)
	FLOAT SWITCH, CLOSING ON RISING LEVEL
	FLOAT SWITCH, OPENING ON RISING LEVEL
	PRESSURE SWITCH, CLOSED BY RISING PRESSURE
	MOMENTARY OR OPENING RETURN, NORMALLY OPEN CIRCUIT (NO)
	MOMENTARY OR OPENING RETURN, NORMALLY OPEN AND NORMALLY CLOSED (NO/NC)
	PUSH-BUTTON
	TEMPERATURE SWITCH, CLOSED BY RISING TEMPERATURE
	TEMPERATURE SWITCH, OPENED BY RISING TEMPERATURE
	SINGLE-POLE DOUBLE-THROW SWITCH

PICTOGRAM RUNNING MAN EGRESS LEGEND			
EGRESS SIGN TYPE	EGRESS SIGN PICTOGRAM RANGE SYMBOLS AND DESCRIPTION	LEGEND FACILITIES: R - RURAL ROAD D - DOUBLE ROAD	LEGEND MOUNTING TYPE W - WALL MOUNTED C - CEILING MOUNTED W/ CANOPY E - ELEVATOR MOUNTED U - UNIVERSAL MOUNTED W/ CANOPY ST - ITEM MOUNTED WITH STAIN PATTERN FITTING
x1	 RUNNING MAN PICTOGRAM		
x2	 RUNNING MAN WITH ARROW TO INDICATE DIRECTIONAL FLOW	LETTER DENOTES PASSAGE (BRAILLE SIDES)	W-14-19 LETTER DENOTES MOUNTING TYPE (WALL MOUNTED)
x3	 RUNNING MAN WITH ARROW TO INDICATE DIRECTIONAL FLOW	LETTER DENOTES PASSAGE (BRAILLE SIDES)	W-14-19 LETTER DENOTES MOUNTING TYPE (WALL MOUNTED)
		EXAMPLE 1	
		W-14-23A-C	
		LETTER DENOTES PASSAGE (BRAILLE SIDES)	D-14-19 LETTER DENOTES MOUNTING TYPE (CEILING MOUNTED WITH CANOPY)
		EXAMPLE 2	
		W-14-23A-C	
		LETTER DENOTES PASSAGE (BRAILLE SIDES)	D-14-19 LETTER DENOTES MOUNTING TYPE (CEILING MOUNTED WITH CANOPY)

1	ISSUED FOR CONSTRUCTION	12/992
0	ISSUED FOR TENDER	11/992
No.	ISSUE / PERMISSION	COMMITTEE

SCALE:

TOWNSHIP OF
North Dundas

J.L. Richards
ENGINEERS, ARCHITECTS, & ARTISTS

CONSULTANT:

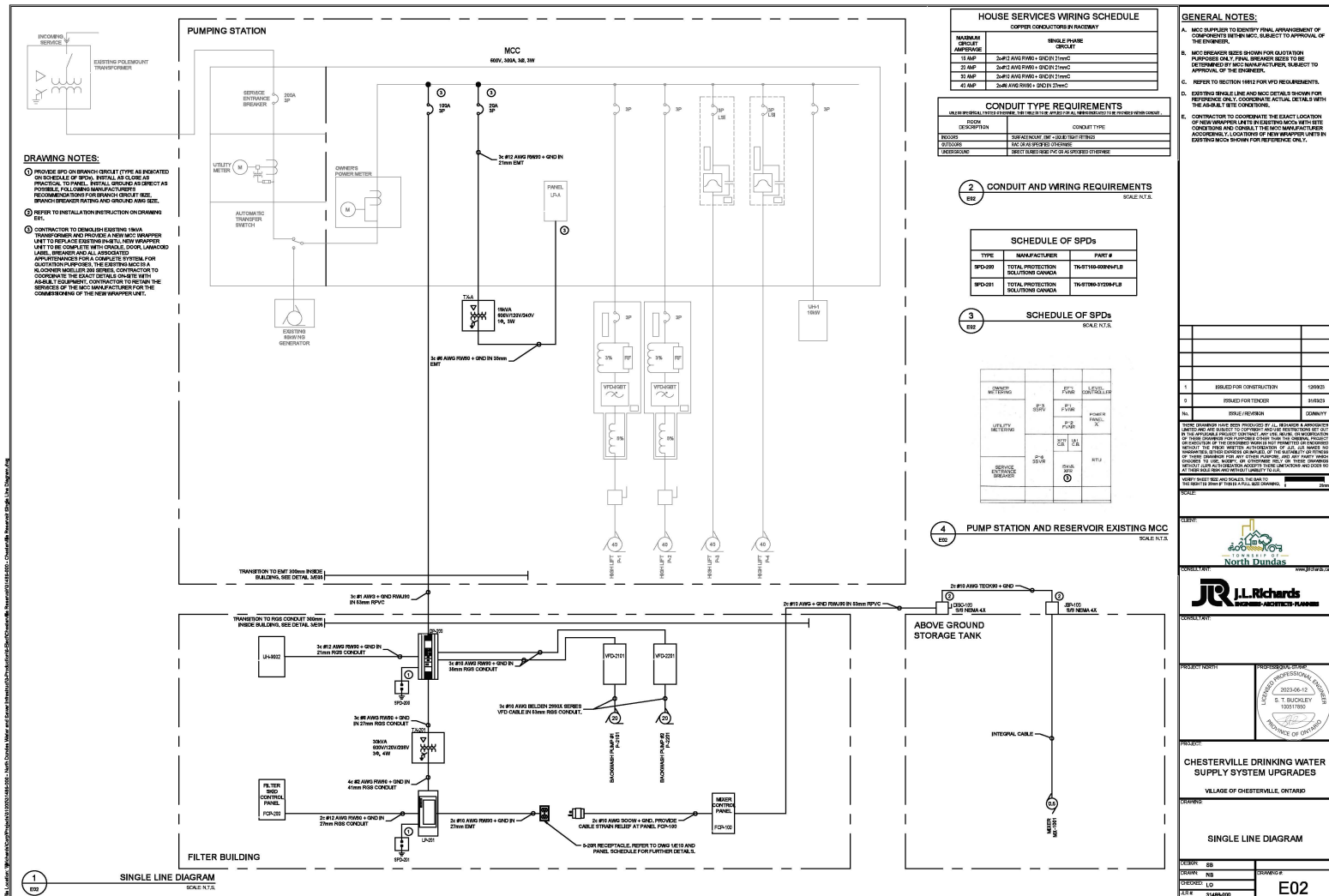
PROJECT NORTH	PROFESSIONAL STAMP
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**CHESTERVILLE DRINKING WATER
SUPPLY SYSTEM UPGRADES**

ELECTRICAL LEGEND

DESIGN	SB	DRAWING # E00
DRAWN	NB	
CHECKED	LO	
JLR #	31489-000	





EXISTING 'LP-A'
120/240 VOLT, 1Ø, 3W
SURFACE MOUNTED
14 KAIC
100A MAINS

LOAD	DESCRIPTION	BKR	CCCT	CCCT	BKR	DESCRIPTION	LOAD
QUART RECORDER RECEPTACLE	15A,1P	1	+		2	15A,1P RECEPTABLES	
TREATED WATER FLOWMETER	15A,1P	3	+		3	15A,1P RECEPTABLES	
RTU	15A,1P	5	+		4	15A,1P RECEPTABLES	
WATER HEATER	15A,1P	7	+		5	15A,1P CHEMICAL PUMPS	
CHLORINE ANALYZER	15A,1P	9	+		6	15A,1P BATTERY CHARGER	
NAVY RECEPTACLE	15A,1P	11	+		7	15A,1P VENTILATION	
TYMBER LEVEL CHART	15A,1P	13	+		8	15A,1P BLOOD HEATER	
BLANK	15A,1P	15	+		9	15A,1P GAS HEATER/EMERGENCY LIGHTS	
BLANK	15A,1P	17	+		10	15A,1P OUTPOST 3	
BLANK	15A,1P	19	+		11	15A,1P SPARE	
BLANK	15A,1P	21	+		12	15A,1P SPARE	
BLANK	15A,1P	23	+		13	15A,1P SPARE	

TOTAL CONNECTED LOAD: 9 KWatts

PHASE LOAD TO BE FILLED IN BY CONTRACTOR:

LOAD PHASE A: _____

LOAD PHASE B: _____

LOAD PHASE C: _____

REMARKS

1. ALL LOADS ARE IN KWatts, UNLESS OTHERWISE NOTED.
2. + DEDICATED NEUTRAL.
3. - GFI
4. ■ LOCKED
5. ▲ INDICATED CIRCUITS MUST BE ON THE SAME PHASE AS INDICATED

1
END

EXISTING PANEL LP-A SCHEDULE

SCALE N.T.S.

DP-200
600 VOLT, 3Ø-3W
SURFACE MOUNTED
16KAIC
100 AMP MAIN BREAKER

LOAD	DESCRIPTION	BKR	CCCT	CCCT	BKR	DESCRIPTION	LOAD
1	1X DP-201 (LP-201)	15A, 1P	+		1	15A, 3P 3Ø-3W-9002	
2	1X DP-201 (LP-201)	15A, 1P	+		2	15A, 3P 3Ø-3W-9002	
3	1X DP-201 (LP-201)	15A, 1P	+		3	15A, 3P 3Ø-3W-9002	
4	1X DP-201 (LP-201)	15A, 1P	+		4	15A, 3P 3Ø-3W-9002	
5	1X DP-201 (LP-201)	15A, 1P	+		5	15A, 3P 3Ø-3W-9002	
6	1X DP-201 (LP-201)	15A, 1P	+		6	15A, 3P 3Ø-3W-9002	
7	1X DP-201 (LP-201)	15A, 1P	+		7	15A, 3P 3Ø-3W-9002	
8	1X DP-201 (LP-201)	15A, 1P	+		8	15A, 3P 3Ø-3W-9002	
9	1X DP-201 (LP-201)	15A, 1P	+		9	15A, 3P 3Ø-3W-9002	
10	1X DP-201 (LP-201)	15A, 1P	+		10	15A, 3P 3Ø-3W-9002	
11	1X DP-201 (LP-201)	15A, 1P	+		11	15A, 3P 3Ø-3W-9002	
12	1X DP-201 (LP-201)	15A, 1P	+		12	15A, 3P 3Ø-3W-9002	
13	1X DP-201 (LP-201)	15A, 1P	+		13	15A, 3P 3Ø-3W-9002	
14	1X DP-201 (LP-201)	15A, 1P	+		14	15A, 3P 3Ø-3W-9002	
15	1X DP-201 (LP-201)	15A, 1P	+		15	15A, 3P 3Ø-3W-9002	
16	1X DP-201 (LP-201)	15A, 1P	+		16	15A, 3P 3Ø-3W-9002	
17	1X DP-201 (LP-201)	15A, 1P	+		17	15A, 3P 3Ø-3W-9002	
18	1X DP-201 (LP-201)	15A, 1P	+		18	15A, 3P 3Ø-3W-9002	
19	1X DP-201 (LP-201)	15A, 1P	+		19	15A, 3P 3Ø-3W-9002	
20	1X DP-201 (LP-201)	15A, 1P	+		20	15A, 3P 3Ø-3W-9002	
21	1X DP-201 (LP-201)	15A, 1P	+		21	15A, 3P 3Ø-3W-9002	
22	1X DP-201 (LP-201)	15A, 1P	+		22	15A, 3P 3Ø-3W-9002	
23	1X DP-201 (LP-201)	15A, 1P	+		23	15A, 3P 3Ø-3W-9002	
24	1X DP-201 (LP-201)	15A, 1P	+		24	15A, 3P 3Ø-3W-9002	
25	1X DP-201 (LP-201)	15A, 1P	+		25	15A, 3P 3Ø-3W-9002	
26	1X DP-201 (LP-201)	15A, 1P	+		26	15A, 3P 3Ø-3W-9002	
27	1X DP-201 (LP-201)	15A, 1P	+		27	15A, 3P 3Ø-3W-9002	
28	1X DP-201 (LP-201)	15A, 1P	+		28	15A, 3P 3Ø-3W-9002	
29	1X DP-201 (LP-201)	15A, 1P	+		29	15A, 3P 3Ø-3W-9002	
30	1X DP-201 (LP-201)	15A, 1P	+		30	15A, 3P 3Ø-3W-9002	
31	1X DP-201 (LP-201)	15A, 1P	+		31	15A, 3P 3Ø-3W-9002	
32	1X DP-201 (LP-201)	15A, 1P	+		32	15A, 3P 3Ø-3W-9002	
33	1X DP-201 (LP-201)	15A, 1P	+		33	15A, 3P 3Ø-3W-9002	
34	1X DP-201 (LP-201)	15A, 1P	+		34	15A, 3P 3Ø-3W-9002	
35	1X DP-201 (LP-201)	15A, 1P	+		35	15A, 3P 3Ø-3W-9002	
36	1X DP-201 (LP-201)	15A, 1P	+		36	15A, 3P 3Ø-3W-9002	
37	1X DP-201 (LP-201)	15A, 1P	+		37	15A, 3P 3Ø-3W-9002	
38	1X DP-201 (LP-201)	15A, 1P	+		38	15A, 3P 3Ø-3W-9002	
39	1X DP-201 (LP-201)	15A, 1P	+		39	15A, 3P 3Ø-3W-9002	
40	1X DP-201 (LP-201)	15A, 1P	+		40	15A, 3P 3Ø-3W-9002	
41	1X DP-201 (LP-201)	15A, 1P	+		41	15A, 3P 3Ø-3W-9002	
42	1X DP-201 (LP-201)	15A, 1P	+		42	15A, 3P 3Ø-3W-9002	
43	1X DP-201 (LP-201)	15A, 1P	+		43	15A, 3P 3Ø-3W-9002	
44	1X DP-201 (LP-201)	15A, 1P	+		44	15A, 3P 3Ø-3W-9002	
45	1X DP-201 (LP-201)	15A, 1P	+		45	15A, 3P 3Ø-3W-9002	
46	1X DP-201 (LP-201)	15A, 1P	+		46	15A, 3P 3Ø-3W-9002	
47	1X DP-201 (LP-201)	15A, 1P	+		47	15A, 3P 3Ø-3W-9002	
48	1X DP-201 (LP-201)	15A, 1P	+		48	15A, 3P 3Ø-3W-9002	
49	1X DP-201 (LP-201)	15A, 1P	+		49	15A, 3P 3Ø-3W-9002	
50	1X DP-201 (LP-201)	15A, 1P	+		50	15A, 3P 3Ø-3W-9002	
51	1X DP-201 (LP-201)	15A, 1P	+		51	15A, 3P 3Ø-3W-9002	
52	1X DP-201 (LP-201)	15A, 1P	+		52	15A, 3P 3Ø-3W-9002	
53	1X DP-201 (LP-201)	15A, 1P	+		53	15A, 3P 3Ø-3W-9002	
54	1X DP-201 (LP-201)	15A, 1P	+		54	15A, 3P 3Ø-3W-9002	
55	1X DP-201 (LP-201)	15A, 1P	+		55	15A, 3P 3Ø-3W-9002	
56	1X DP-201 (LP-201)	15A, 1P	+		56	15A, 3P 3Ø-3W-9002	
57	1X DP-201 (LP-201)	15A, 1P	+		57	15A, 3P 3Ø-3W-9002	
58	1X DP-201 (LP-201)	15A, 1P	+		58	15A, 3P 3Ø-3W-9002	
59	1X DP-201 (LP-201)	15A, 1P	+		59	15A, 3P 3Ø-3W-9002	
60	1X DP-201 (LP-201)	15A, 1P	+		60	15A, 3P 3Ø-3W-9002	
61	1X DP-201 (LP-201)	15A, 1P	+		61	15A, 3P 3Ø-3W-9002	
62	1X DP-201 (LP-201)	15A, 1P	+		62	15A, 3P 3Ø-3W-9002	
63	1X DP-201 (LP-201)	15A, 1P	+		63	15A, 3P 3Ø-3W-9002	
64	1X DP-201 (LP-201)	15A, 1P	+		64	15A, 3P 3Ø-3W-9002	
65	1X DP-201 (LP-201)	15A, 1P	+		65	15A, 3P 3Ø-3W-9002	
66	1X DP-201 (LP-201)	15A, 1P	+		66	15A, 3P 3Ø-3W-9002	
67	1X DP-201 (LP-201)	15A, 1P	+		67	15A, 3P 3Ø-3W-9002	
68	1X DP-201 (LP-201)	15A, 1P	+		68	15A, 3P 3Ø-3W-9002	
69	1X DP-201 (LP-201)	15A, 1P	+		69	15A, 3P 3Ø-3W-9002	
70	1X DP-201 (LP-201)	15A, 1P	+		70	15A, 3P 3Ø-3W-9002	
71	1X DP-201 (LP-201)	15A, 1P	+		71	15A, 3P 3Ø-3W-9002	
72	1X DP-201 (LP-201)	15A, 1P	+		72	15A, 3P 3Ø-3W-9002	
73	1X DP-201 (LP-201)	15A, 1P	+		73	15A, 3P 3Ø-3W-9002	
74	1X DP-201 (LP-201)	15A, 1P	+		74	15A, 3P 3Ø-3W-9002	
75	1X DP-201 (LP-201)	15A, 1P	+		75	15A, 3P 3Ø-3W-9002	
76	1X DP-201 (LP-201)	15A, 1P	+		76	15A, 3P 3Ø-3W-9002	
77	1X DP-201 (LP-201)	15A, 1P	+		77	15A, 3P 3Ø-3W-9002	
78	1X DP-201 (LP-201)	15A, 1P	+		78	15A, 3P 3Ø-3W-9002	
79	1X DP-201 (LP-201)	15A, 1P	+		79	15A, 3P 3Ø-3W-9002	
80	1X DP-201 (LP-201)	15A, 1P	+		80	15A, 3P 3Ø-3W-9002	
81	1X DP-201 (LP-201)	15A, 1P	+		81	15A, 3P 3Ø-3W-9002	
82	1X DP-201 (LP-201)	15A, 1P	+		82	15A, 3P 3Ø-3W-9002	
83	1X DP-201 (LP-201)	15A, 1P	+		83	15A, 3P 3Ø-3W-9002	
84	1X DP-201 (LP-201)	15A, 1P	+		84	15A, 3P 3Ø-3W-9002	
85	1X DP-201 (LP-201)	15A, 1P	+		85	15A, 3P 3Ø-3W-9002	
86	1X DP-201 (LP-201)	15A, 1P	+		86	15A, 3P 3Ø-3W-9002	
87	1X DP-201 (LP-201)	15A, 1P	+		87	15A, 3P 3Ø-3W-9002	
88	1X DP-201 (LP-201)	15A, 1P	+		88	15A, 3P 3Ø-3W-9002	
89	1X DP-201 (LP-201)	15A, 1P	+		89	15A, 3P 3Ø-3W-9002	
90	1X DP-201 (LP-201)	15A, 1P	+		90	15A, 3P 3Ø-3W-9002	
91	1X DP-201 (LP-201)	15A, 1P	+		91	15A, 3P 3Ø-3W-9002	
92	1X DP-201 (LP-201)	15A, 1P	+		92	15A, 3P 3Ø-3W-9002	
93	1X DP-201 (LP-201)	15A, 1P	+		93	15A, 3P 3Ø-3W-9002	
94	1X DP-201 (LP-201)	15A, 1P	+		94	15A, 3P 3Ø-3W-9002	
95	1X DP-201 (LP-201)	15A, 1P	+		95	15A, 3P 3Ø-3W-9002	
96	1X DP-201 (LP-201)	15A, 1P	+		96	15A, 3P 3Ø-3W-9002	
97	1X DP-201 (LP-201)	15A, 1P	+		97	15A, 3P 3Ø-3W-9002	
98	1X DP-201 (LP-201)	15A, 1P	+		98	15A, 3P 3Ø-3W-9002	
99	1X DP-201 (LP-201)	15A, 1P	+		99	15A, 3P 3Ø-3W-9002	
100	1X DP-201 (LP-201)	15A, 1P	+		100	15A, 3P 3Ø-3W-9002	

TOTAL CONNECTED LOAD:

PHASE LOAD TO BE FILLED IN BY CONTRACTOR:

LOAD PHASE A: _____

LOAD PHASE B: _____

LOAD PHASE C: _____

REMARKS

1. ALL LOADS ARE IN KWatts, UNLESS OTHERWISE NOTED.
 2. + DEDICATED NEUTRAL.
 3. - GFI
 4. ■ LOCKED
 5. ▲ ARC FAULT CIRCUIT INTERRUPTER
- NOTE: PROVIDE PADLOCKABLE CLASPS FOR ALL BREAKERS PROVIDED.

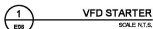
3
END

PANEL DP-200 SCHEDULE

SCALE N.T.S.

LP-201
120/208 VOLT, 3Ø, 4W
SURFACE MOUNTED
14 KAIC
225A MAINS

LOAD	DESCRIPTION	BKR	CCCT	CCCT	BKR	DESCRIPTION	LOAD
1	1X DP-201	15A, 1P	+		2	15A, 1P FILTER AND CONTROL PANEL (F&CP-200)	
2	1X DP-201	15A, 1P	+		3	15A, 1P EXTERIOR RECEPTABLES	
3	1X DP-201	15A, 1P	+		4	15A, 1P RECEPTABLES (INTERIOR)	
4	1X DP-201	15A, 1P	+		5	15A, 1P RECEPTABLES (INTERIOR)	
5	1X DP-201	15A, 1P	+		6	15A, 1P RECEPTABLES (INTERIOR)	
6	1X DP-201	15A, 1P	+		7	15A, 1P RECEPTABLES (INTERIOR)	
7	1X DP-201	15A, 1P	+		8	15A, 1P DRIVE-480	
8	1X DP-201	15A, 1P	+		9	15A, 1P DRIVE-480	
9	1X DP-201	15A, 1P	+		10	15A, 1P DRIVE-480	
10	1X DP-201	15A, 1P	+		11	15A, 1P DRIVE-480	
11	1X DP-201	15A, 1P	+		12	15A, 1P DRIVE-480	
12	1X DP-201	15A, 1P	+		13	15A, 1P DRIVE-480	
13	1X DP-201	15A, 1P	+		14	15A, 1P DRIVE-480	
14	1X DP-201	15A, 1P	+		15	15A, 1P DRIVE-480	
15	1X DP-201	15A, 1P	+		16	15A, 1P DRIVE-480	
16	1X DP-201	15A, 1P	+		17	15A, 1P DRIVE-480	
17	1X DP-201	15A, 1P	+		18	15A, 1P DRIVE-480	
18	1X DP-201	15A, 1P	+		19	15A, 1P DRIVE-480	
19	1X DP-201	15A, 1P	+		20	15A, 1P DRIVE-480	
20	1X DP-201	15A, 1P	+		21	15A, 1P DRIVE-480	
21	1X DP-201	15A, 1P	+		22	15A, 1P DRIVE-480	
22	1X DP-201	15A, 1P	+		23	15A, 1P DRIVE-480	
23	1X DP-201	15A, 1P	+		24	15A, 1P DRIVE-480	
24	1X DP-201	15A, 1P	+		25	15A, 1P DRIVE-480	
25	1X DP-201	15A, 1P	+		26	15A, 1P DRIVE-480	
26	1X DP-201	15A, 1P	+		27	15A, 1P DRIVE-480	
27	1X DP-201	15A, 1P	+		28	15A, 1P DRIVE-480	
28	1X DP-201	15A, 1P	+		29	15A, 1P DRIVE-480	
29	1X DP-201	15A, 1P	+		30	15A, 1P DRIVE-480	
30	1X DP-201	15A, 1P	+		31	15A, 1P DRIVE-480	
31	1X DP-201	15A, 1P	+		32	15A, 1P DRIVE-480	
32	1X DP-201	15A, 1P	+		33	15A, 1P DRIVE-480	
33	1X DP-201	15A, 1P	+		34	15A, 1P DRIVE-480	
34	1X DP-201	15A, 1P	+		35	15A, 1P DRIVE-480	
35	1X DP-201	15A, 1P	+		36	15A, 1P DRIVE-480	
36	1X DP-201	15A, 1P	+		37	15A, 1P DRIVE-480	
37	1X DP-201	15A, 1P	+		38	15A, 1P DRIVE-480	
38	1X DP-201	15A, 1P	+		39	15A, 1P DRIVE-480	
39	1X DP-201	15A, 1P	+		40	15A, 1P DRIVE-480	
40	1X DP-201	15A, 1P	+		41	15A, 1P DRIVE-480	
41	1X DP-201	15A, 1P	+		42	15A, 1P DRIVE-480	
42	1X DP-201	15A, 1P	+		43	15A, 1P DRIVE-480	
43	1X DP-201	15A, 1P	+		44	15A, 1P DRIVE-480	
44	1X DP-201	15A, 1P	+		45	15A, 1P DRIVE-480	
45	1X DP-201	15A, 1P	+		46	15A, 1P DRIVE-480	
46	1X DP-201	15A, 1P	+		47	15A, 1P DRIVE-480	
47	1X DP-201	15A, 1P	+		48	15A, 1P DRIVE-480	
48	1X DP-201	15A, 1P	+		49	15A, 1P DRIVE-480	
49	1X DP-201	15A, 1P	+		50	15A, 1P DRIVE-480	
50	1X DP-201	15A, 1P	+		51	15A, 1P DRIVE-480	
51	1X DP-201	15A, 1P	+		52	15A, 1P DRIVE-480	
52	1X DP-201	15A, 1P	+		53	15A, 1P DRIVE-480	
53	1X DP-201	15A, 1P	+		54	15A, 1P DRIVE-480	
54	1X DP-201	15A, 1P	+		55	15A, 1P DRIVE-480	
55	1X DP-201	15A, 1P	+		56	15A, 1P DRIVE-480	
56	1X DP-201	15A, 1P	+		57	15A, 1P DRIVE-480	
57	1X DP-201	15A, 1P	+		58	15A, 1P DRIVE-480	
58	1X DP-201	15A, 1P	+		59	15A, 1P DRIVE-480	
59	1X DP-201	15A, 1P	+		60	15A, 1P DRIVE-480	
60	1X DP-201	15A, 1P	+		61	15A, 1P DRIVE-480	
61	1X DP-201	15A, 1P	+		62	15A, 1P DRIVE-480	
62	1X DP-201	15A, 1P	+		63	15A, 1P DRIVE-480	
63	1X DP-201	15A, 1P	+		64	15A, 1P DRIVE-480	
64	1X DP-201	15A, 1P	+		65	15A, 1P DRIVE-480	
65	1X DP-201	15A, 1P	+		66	15A, 1P DRIVE-480	
66	1X DP-201	15A, 1P	+		67	15A, 1P DRIVE-480	
67	1X DP-201	15A, 1P	+		68	15A, 1P DRIVE-480	
68	1X DP-201	15A, 1P	+		69	15A, 1P DRIVE-480	
69	1X DP-201	15A, 1P	+		70	15A, 1P DRIVE-480	
70	1X DP-201	15A, 1P	+		71	15A, 1P DRIVE-480	
71	1X DP-201	15A, 1P	+		72	15A, 1P DRIVE-480	
72	1X DP-201	15A, 1P	+		73	15A, 1P DRIVE-480	
73	1X DP-201	15A, 1P	+		74	15A, 1P DRIVE-480	
74	1X DP-201	15A, 1P	+		75	15A, 1P DRIVE-480	
75	1X DP-201	15A, 1P	+		76	15A, 1P DRIVE-480	
76	1X DP-201	15A, 1P	+		77	15A, 1P DRIVE-480	
77	1X DP-201	15A, 1P	+		78	15A, 1P DRIVE-480	
78	1X DP-201	15A, 1P	+		79	15A, 1P DRIVE-480	
79	1X DP-201	15A, 1P	+		80	15A, 1P DRIVE-480	
80	1X DP-201	15A, 1P	+		81	15A, 1P DRIVE-480	
81	1X DP-201	15A, 1P	+		82	15A, 1P DRIVE-480	
82	1X DP-201	15A, 1P	+		83	15A, 1P DRIVE-480	
83	1X DP-201	15A, 1P	+		84	15A, 1P DRIVE-480	
84	1X DP-201	15A, 1P	+		85	15A, 1P DRIVE-480	
85	1X DP-201	15A, 1P	+		86	15A, 1P DRIVE-480	
86	1X DP-201	15A, 1P	+		87	15A, 1P DRIVE-480	
87	1X DP-201	15A, 1P	+		88	15A, 1P DRIVE-480	
88	1X DP-201	15A, 1P	+		89	15A, 1P DRIVE-480	
89	1X DP-201	15A, 1P	+		90	15A, 1P DRIVE-480	
90	1X DP-201	15A, 1P	+		91	15A, 1P DRIVE-480	
91	1X DP-201	15A, 1P	+		92	15A, 1P DRIVE-480	
92	1X DP-201	15A, 1P	+		93	15A, 1P DRIVE-480	
93	1X DP-201	15A, 1P	+		94	15A, 1P DRIVE-480	
94	1X DP-201	15A, 1P	+		95	15A, 1P DRIVE-480	
95	1X DP-201	15A, 1P	+		96	15A, 1P DRIVE-480	
96	1X DP-201	15A, 1P	+		97	15A, 1P DRIVE-480	
97	1X DP-201	15A, 1P	+		98	15A, 1P DRIVE-480	
98	1X DP-201	15A, 1P	+		99	15A, 1P DRIVE-480	
99	1X DP-201	15A, 1P	+		100	15A, 1P DRIVE-480	
100	1X DP-201	15A, 1P	+		101	15A, 1P DRIVE-480	
101	1X DP-201	15A, 1P	+		102	15A, 1P DRIVE-480	
102	1X DP-201	15A, 1P	+		103	15A, 1P DRIVE-480	
103	1X DP-201	15A, 1P	+		104	15A, 1P DRIVE-480	
104	1X DP-201	15A, 1P	+		105	15A, 1P DRIVE-480	
105	1X DP-201	15A, 1P	+		106	15A, 1P DRIVE-480	
106	1X DP-201	15A, 1P	+		107	15A, 1P DRIVE-480	
107	1X DP-201	15A, 1P	+		108	15A, 1P DRIVE-480	
108	1X DP-201	15A, 1P	+		109	15A, 1P DRIVE-480	
109	1X DP-201	15A, 1P	+		110	15A, 1P DRIVE-480	
110	1X DP-201	15A, 1P	+		111	15A, 1P DRIVE-480	
111	1X DP-201	15A, 1P	+		112	15A, 1P DRIVE-480	
112	1X DP-201	15A, 1P	+		113	15A, 1P DRIVE-480	
113	1X DP-201	15A, 1P	+		114	15A, 1P DRIVE-480	
114	1X DP-201	15A, 1P	+		115	15A, 1P DRIVE-480	
115	1X DP-201	15A, 1P	+		116	15A, 1P DRIVE-480	
116	1X DP-201	15A, 1P	+		117	15A, 1P DRIVE-480	
117	1X DP-201	15A, 1P	+		118	15A, 1P DRIVE-480	
118	1X DP-201	15A, 1P	+		119	15A, 1P DRIVE-480	
119	1X DP-201	15A, 1P	+		120	15A, 1P DRIVE-480	
120	1X DP-201	15A, 1P	+		121	15A, 1P DRIVE-480	
121	1X DP-201	15A, 1P	+		122	15A, 1P DRIVE-480	
122	1X DP-201	15A, 1P	+		123	15A, 1P DRIVE-480	
123	1X DP-201	15A, 1P	+		124	15A, 1P DRIVE-480	
124	1X DP-201	15A, 1P	+		125	15A, 1P DRIVE-480	
125	1X DP-201	15A, 1P	+		126	15A, 1P DRIVE-480	
126	1X DP-201	15A, 1P	+		127	15A, 1P DRIVE-480	
127	1X DP-201	15A, 1P	+		128	15A, 1P DRIVE-480	
128	1X DP-201	15A, 1P	+		129	15A, 1P DRIVE-480	
129	1X DP-201	15A, 1P	+		130	15A, 1P DRIVE-480	
130	1X DP-201	15A, 1P	+		131	15A, 1P DRIVE-480	
131	1X DP-201	15A, 1P	+		132	15A, 1P DRIVE-480	
132	1X DP-201	15A, 1P	+		133	15A, 1P DRIVE-480	
133	1X DP-201	15A, 1P	+		134	15A, 1P DRIVE-480	
134	1X DP-201	15A, 1P	+		135	15A, 1P DRIVE-480	
135	1X DP-201	15A, 1P	+		136	15A, 1P DRIVE-480	
136	1X DP-201	15A, 1P	+		137	15A, 1P DRIVE-480	
137	1X DP-201	15A, 1P	+		138	15A, 1P DRIVE-480	
138	1X DP-201	15A, 1P	+		139	15A, 1P DRIVE-480	
139	1X DP-201	15A, 1P	+		140	15A, 1P DRIVE-480	
140	1X DP-201	15A, 1P	+		141	15A, 1P DRIVE-480	
141	1X DP-201	15A, 1P	+		142	15A, 1P DRIVE-480	
142	1X DP-201	15A, 1P	+		143	15A, 1P DRIVE-480	
143	1X DP-201	15A, 1P	+		144	15A, 1P DRIVE-480	
144	1X DP-201	15A, 1P	+		145	15A, 1P DRIVE-480	
145	1X DP-201	15A, 1P	+		146	15A, 1P DRIVE-480	
146	1X DP-201	15A, 1P	+		147	15A, 1P DRIVE-480	
147	1X DP-201	15A, 1P	+		148	15A, 1P DRIVE-480	
148	1X DP-201	15A, 1P	+		149	15A, 1P DRIVE-480	
149	1X DP-201	15A, 1P	+		150	15A, 1P DRIVE-480	
150	1X DP-201	15A, 1P	+		151	15A, 1P DRIVE-480	
151	1X DP-201	15A, 1P	+		152	15A, 1P DRIVE-480	
152	1X DP-201	15A, 1P	+		153	15A, 1P DRIVE-480	
153	1X DP-201	15A, 1P	+		154	15A, 1P DRIVE-480	
154	1X DP-201	15A, 1P	+		155	15A, 1P DRIVE-480	
155	1X DP-201	15A, 1P	+		156	15A, 1P DRIVE-480	
156	1X DP-201	15A, 1P	+		157	15A, 1P DRIVE-480	
157	1X DP-201	15A, 1P	+		158	15A, 1P DRIVE-480	
158	1X DP-201	15A, 1P	+		159	15A, 1P DRIVE-480	
159	1X DP-201	15A, 1P	+		160	15A, 1P DRIVE-480	
160	1X DP-201	15A, 1P	+		161	15A, 1P DRIVE-480	
161	1X DP-201	15A, 1P	+		162	15A, 1P DRIVE-480	
162	1X DP-201	15A, 1P	+		163	15A, 1P DRIVE-480	
163	1X DP-201	15A, 1P	+		164	15A, 1P DRIVE-480	
164	1X DP-201	15A, 1P	+		165	15A, 1P DRIVE-480	
165	1X DP-201	15A, 1P	+		166	15A, 1P DRIVE-480	
166	1X DP-201	15A, 1P	+		167	15A, 1P DRIVE-480	
167	1X DP-201	15A, 1P	+		168	15A, 1P DRIVE-480	
168	1X DP-201	15A, 1P	+		169	15A, 1P DRIVE-480	
169	1X DP-201	15A, 1P	+		170	15A, 1P DRIVE-480	
170	1X DP-20						



9. FOR EACH STARTER, PROVIDE TERMINALS TO INTERLOCK THE STARTER VIA EXTERNAL, HARDWIRED INTERLOCK CONTRACTOR TO PROVIDE AMPERES IF THE INTERLOCKS ARE NOT USED. PROGRAM THE STARTERS TO IMMEDIATELY SHUTDOWN IF THE INTERLOCKS ARE EXCEEDED. NOTE: SUCH INTERLOCKS MAY INCLUDE A LOCAL, DISCONNECT IN WHICH CASE AN EARLY BREAK CIRCUIT SHOULD BE DESIGNED TO TRIP, TRIGGER SHUTDOWN OF THE STARTER AND THE STARTER SHOULD RESPOND ACCORDINGLY TO PREVENT EQUIPMENT DAMAGE.
10. RESERVED.
11. RESERVED.
12. ELECTRONIC VFD AS SPECIFIED IN SECTION 16011.
13. PROVIDE CT(S), NEMA AND OTHER APPURTENANCES TO R/LT.
14. RESERVED.
15. RESERVED.
16. RESERVED.

GENERAL NOTES:

A. REFER TO SECTION 17100 FOR DESCRIPTION OF COMPONENT CODE.

TABLE OF PANELS AND ELECTRICAL EQUIPMENT										
DEVICE TAG IDENTIFIER	SERVICE DESCRIPTION	LOCATION	DEVICE			FIELD WORK				
			DWG #	VOLTS	#	SUBST #	WKS #	COMPL #		
CU-50	DEFIBRATION PANEL	FILTER BUILDING	002	005	3	E	E	E	E	
EM-105	EMERGENCY	ABOVE SHACK STORMHOUSE TANK	002	100	3	E	E	E	E	
FM-100	MASTER CONTROL PANEL	FILTER BUILDING	010	105	1	N	E	E	E	
FM-100	MASTER CONTROL PANEL	FILTER BUILDING	010	105	1	YES	E	E	E	
FM-100	MASTER CONTROL PANEL	FILTER BUILDING	010	105	1	YES	E	E	E	
AN-10	ANALOG JUNCTION BOX	ABOVE SHACK STORMHOUSE TANK	001			YES	E	E	E	
AN-11	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-320	ANALOG JUNCTION BOX	EXISTING PAVINGE EJECTION	001			YES	E	E	E	
BA-321	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-322	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-323	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-324	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-325	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-326	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-327	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-328	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-329	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
BA-330	ANALOG JUNCTION BOX	FILTER BUILDING	001			YES	E	E	E	
CU-55	CHEMICAL WET/DRY CONTROL PANEL	FILTER BUILDING	002	005	3	E	E	E	E	
LA-1	LIFTING CONTROL PANEL	EXISTING PAVINGE EJECTION	003	240	1	EX	EX	E	E	
LA-21	LIFTING CONTROL PANEL	FILTER BUILDING	003	240	3	E	E	E	E	
MC-1	MATERIALS CONTROL CENTER	FILTER BUILDING	001	EX	EX	EX	EX	E	E	
DO-20	DOWN PANEL	EXISTING PAVINGE EJECTION	001			EX	EX	E	E	
IP-51	SLAM PROTECTIVE DEVICE	FILTER BUILDING	002	240	3	E	E	E	E	
TP-201	TRANSFORMER	002-800-26013	002			E	E	E	E	
TP-201	TRANSFORMER	EXISTING PAV P EJECTION	002			E	E	E	E	
VO-201	SHOWING PUMP P VFD	009	600	3	E	E	E	E	E	
VO-201	SHOWING PUMP P VFD	009	600	3	E	E	E	E	E	

3

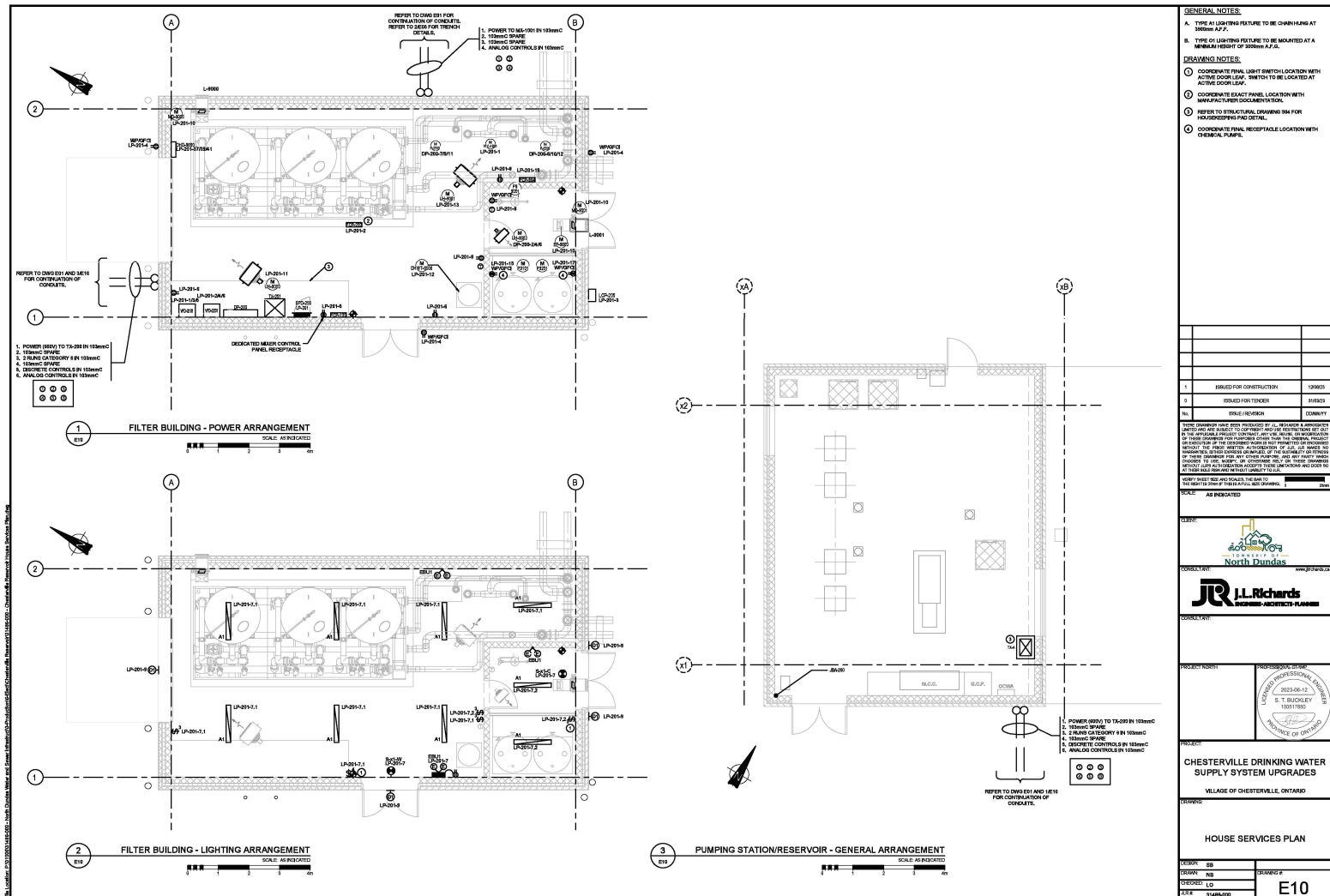
007

TABLE OF PANELS AND ELECTRICAL EQUIPMENT

SCALE: NTS

[illegible]

File Location: \\chardon\corp\projects\31222\31496-200 - North Duxbury Water and Sewer Infrastructure\6-DirectChardon\6-Reservoir\31496-200 - Chardonville Reservoir\2003 and Equipment\Tables\A22



GENERAL NOTES		
A. TYPE OF LIGHTING FIXTURE TO BE OWNERSHIP AT SHOWN A.F.F.		
B. TYPE OF LIGHTING FIXTURE TO BE LOCATED AT A MINIMUM HEIGHT OF 2000mm A.F.F.		
DRAWING NOTES		
1. COORDINATE FINAL LIGHT SWITCH LOCATION WITH ACTIVE DOOR LEAD. SWITCH TO BE LOCATED AT ACTIVE DOOR LEAD.		
2. COORDINATE EXACT PANEL LOCATION WITH MANUFACTURER DOCUMENTATION.		
3. REFER TO STRUCTURAL DRAWINGS FOR ROOFING/FLOORING PAD DETAIL.		
4. COORDINATE FINAL RECEPTACLE LOCATION WITH ELECTRICAL PLANS.		
REVISION		
1	ISSUED FOR CONSTRUCTION	1/10/2021
2	ISSUED FOR TENDER	1/10/2021
3	ISSUED FOR TENDER	1/10/2021
4	ISSUED FOR TENDER	1/10/2021
5	ISSUED FOR TENDER	1/10/2021
6	ISSUED FOR TENDER	1/10/2021
7	ISSUED FOR TENDER	1/10/2021
8	ISSUED FOR TENDER	1/10/2021
9	ISSUED FOR TENDER	1/10/2021
10	ISSUED FOR TENDER	1/10/2021
NOTES		
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 6. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 7. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 8. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 9. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC). 10. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 CANADIAN ELECTRICAL CODE (CEC) AND THE 2018 CANADIAN PLUMBING AND MECHANICAL CODE (CPM) AND THE 2018 CANADIAN FIRE ALARM AND NOTIFICATION CODE (CFANNC).		
PROJECT		
CHESTERVILLE DRINKING WATER SUPPLY SYSTEM UPGRADES		
VILLAGE OF CHESTERVILLE, ONTARIO		
HOUSE SERVICES PLAN		
DESIGN	SS	
CHECKED	LO	1/10/2021
DATE		
PROJECT NO.		E10

