March 2021

As Built Report
Sewage Treatment Plant (STP) Upgrade

6526-460-132-REP-003

In Accordance with Licence 2AM-MEL1631 Part D, item 1 & 2

Prepared by:

Agnico Eagle Mines Limited – Meliadine Division

DOCUMENT CONTROL

Version	Date (YMD)	Section	Page	Revision
R0	03/03/2021			As Built report

Prepared By: 2020-03-03
Thomas Genty
Water Treatment Eng.
OIQ 5021068

Mark Long Digitally signed by Mark Long Date: 2021.03.09 22:02:19 -06'00'
Mark Long
Construction Superintendent

Approved by: Digitally signed by Robin Allard DN: cn=Robin Allard Date: 2021.03.10 06:31:52 -06'00'
Robin Allard
Environment General Supervisor

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

1 INTRODUCTION

1.1 SITE LOCATION AND ACCESS

Agnico Eagle Mines Limited (Agnico Eagle) is developing the Meliadine gold mine located approximately 25 km north of Rankin Inlet, and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut. The project site is located on the peninsula between the East, South, and West basins of Meliadine Lake (63°01'23.8"N, 92°13'6.42"W). The area is accessible from the all-weather gravel road linking the Meliadine mine site with Rankin Inlet.

1.2 SITE FACILITIES

The current mine plan focuses on the development of the Tiriganiaq gold deposit which will be mined using both conventional open-pit and underground mining operations. Current mining facilities to support the Mine include a plant site and accommodations, tailings storage facility, waste rock storage facilities, ore storage pads, process plant, power plant, maintenance facilities, water management treatment plants and supporting infrastructures.

Such infrastructures include water retention dikes, berms, culverts, channels, collection ponds, pumping stations, fresh water intake and water treatment plants are required to manage water during pre-production, operation, and interim mine closure.

To support the camp accommodation, upgrading the current sewage treatment (STP) plant unit was required. The initial sewage treatment plant was able to treat a maximum daily flow of 216 000 L per day (maximum design flow). The upgrade STP equipment is able to handle an additional 83 076 L per day and was approved by Nunavut Water Board (6526-460-132-REP-002).

1.3 PURPOSE OF DOCUMENT

This report includes the As-built construction drawings for the STP upgrade. A general location plan for the STP is shown in Figure 1.

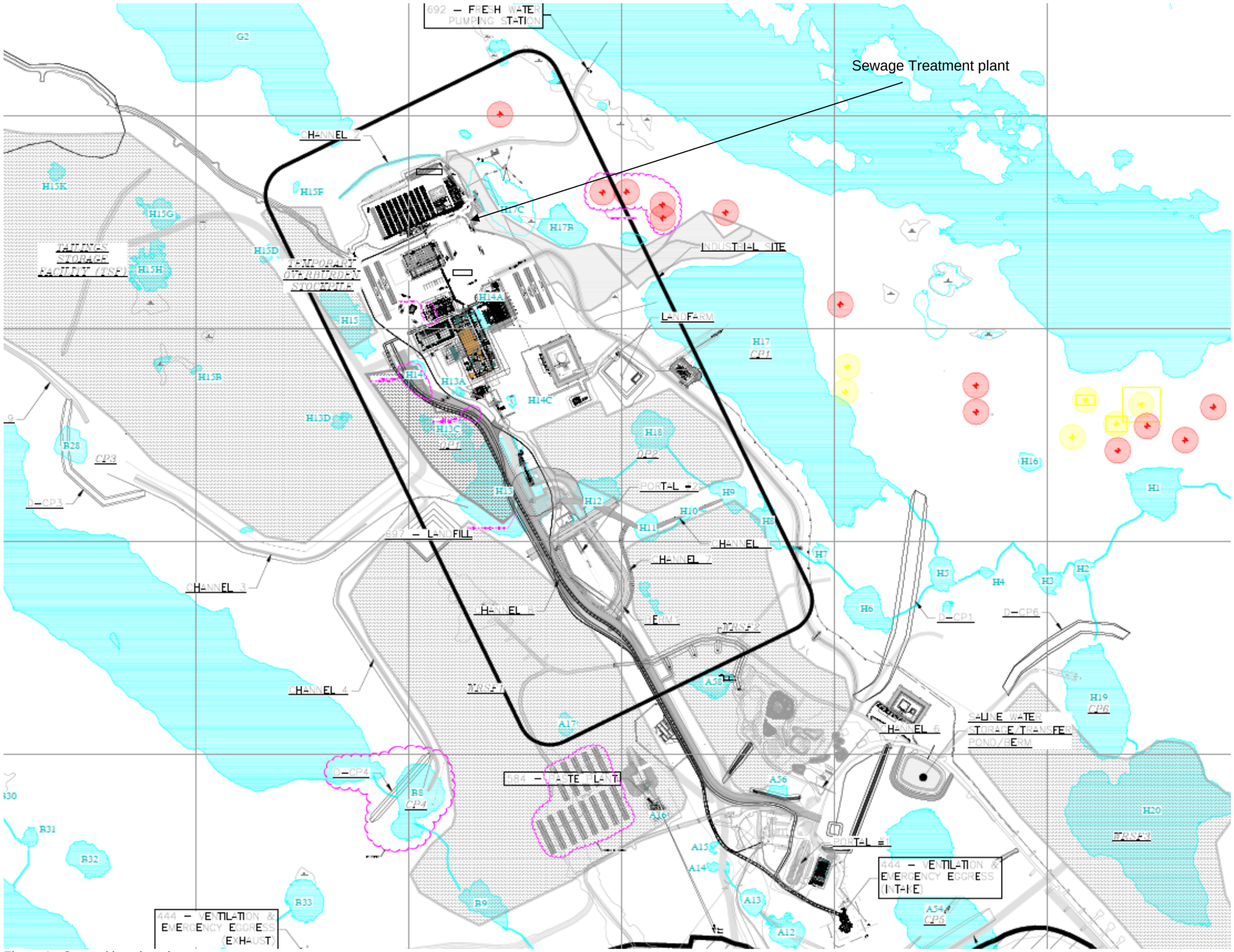

Figure 1 : General location plan

2 CONSTRUCTION SUMMARY

2.1 PROCESS SUMMURY

The STP relies on bacterial activity. The process is composed of five (5) steps described below (Figure 2):

- flow equalization and screening,
- aerobic biological treatment,
- membrane filtration,
- ultraviolet disinfection,
- and sludge handling/dewatering.

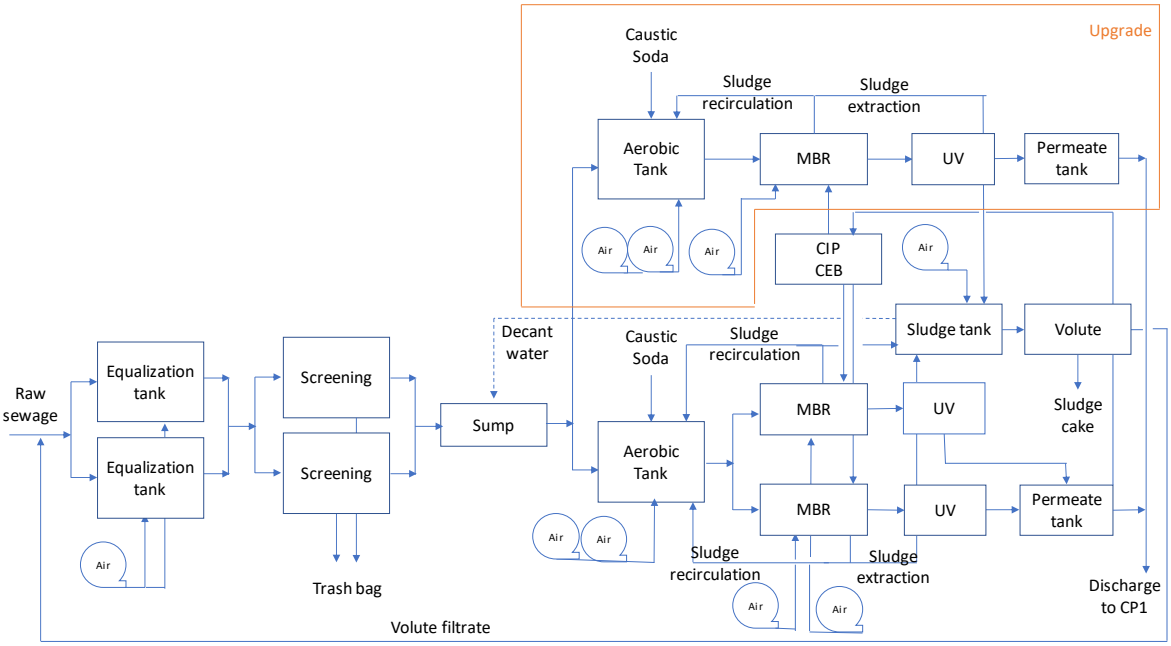

Figure 2: Process Flowsheet

2.2 FLOW EQUALIZATION AND SCREENING

The influent wastewater is pumped to the two (2) aerated equalization tanks. The equalization system is able to manage a variation in flows. It provides raw wastewater storage to store feed during high flow periods and to ensure feed supplementation during low flow periods. It provides a stable and consistent raw feed for the downstream processes. Equalized water is pumped via two (2) equalization pumps into a standpipe inside the second tank and flows from that pipe by gravity to the fine screens. The fine screens are rotary drum screens with 2 mm perforated plate openings that operate continuously. The screens will ensure the removal of large debris to protect downstream equipment. Pressurized wash water is used intermittently to clean the screens and screenings.

2.3 AEROBIC REACTOR

Screened raw water flows by gravity from the screens into the sump tank, where it is pumped to the aerobic tanks, which are located outdoors. Aerobic biological treatment removes the organic load (measured as BOD) of the wastewater. Bacteria grown in the bioreactor remove unwanted organic pollutants to produce a treated water of high quality. Oxygen is supplied by regenerative blowers and is injected by fine bubble diffusers in the tank. The mixed liquor suspended solids (MLSS) overflows into a standpipe inside the tank and flows by gravity to the membrane filtration trains.

The equipment added in the STP upgrade was an aerobic tank with fine bubble diffusor.

2.4 MEMBRANE FILTRATION

Membrane filtration is used to separate the bacteria from the water to ensure keeping them in the process at the desired concentration. Activated sludge is returned at a constant flow rate to the aerobic tank to prevent a build-up of sludge in the membrane tank. The return activated sludge (RAS) is pumped at a higher flow rate than the design flow rate of the plant, to make sure that there is good circulation in the whole system and that there is no accumulation of solids.

An additional sea can with a membrane train and utilities (instrumentation, blower, pumps, UV, CIP tank, sodium hypochlorite system) was added to the current STP system. This allows the filtration area to increase from 900 m^2 (current system) to 1350 m^2 (upgraded system).

2.5 UV DISINFECTION

From the permeate pumps, each membrane bioreactor train sends permeate through an inline ultraviolet disinfection system. It is a physical process that inactivates instantaneously microorganisms. From here, effluent is sent to a common permeate storage tank. The permeate tank acts as a reservoir for treated water that is pumped to the discharge location.

2.6 SLUDGE STORAGE AND DEWATERING

Since bacteria continue to reproduce as they consume organics and nutrients, the concentration of biomass, measured as Mixed Liquor Suspended Solids (MLSS), increases with time. Periodic sludge wasting is required to control the MLSS concentration in the bioreactor tanks. Sludge is sent to the sludge storage tank by redirecting the flow of the RAS pump (approximately at 1% solid content).

A Sludge Dewatering System (Volute) system is also available to remove the solid fraction out of the sludge storage tank. Basically, the flocculated sludge pass through a screw press that utilizes a screw inside a moving casing. Water collected during the dewatering is sent back to the STP equalization tank. The cake is then collected in a solid-waste bin for disposal.

2.7 CONSTRUCTION SCHEDULE

The construction was conducted between September 5, 2020 and December 3, 2020.

2.8 FIELD DECISIONS THAT DEVIATE FROM ORIGINAL DESIGN

The deviation from the design report are presented below:

- The Sea can containing the Membrane filtration system was moved parallel to the existing sea can. In the design report, it was located perpendicular to the current sea can location. This relocalisation is within the existing pad and has no impact on the process.
- Piping was installed according to the new location of the new sea can containing the membrane filstration system.

2.9 AS BUILT DRAWING AND PHOTOGRAPHS

As-built documentation is presented in Appendices A to B:

- Photographs.
- General arrangement and P&ID;

Appendix A: Photographs

STP Upgrade extension: new seacan interior.

New Seacan and reactor

New Seacan line connection

Appendix B: General arrangement and P&ID

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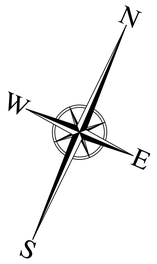
DRAWING NO. 65-460-210-200_R1

FORMAT ARCHD



20' ELECTRICAL CONTAINER

460 - SEWAGE TREATMENT PLANT

EXISTING EQUALIZATION TANK

EXISTING EQUALIZATION TANK

EXISTING AEROBIC TANK

NEW AEROBIC TANK

1,47

1,05

5,68

5,68

5,68

NEWTERRA WASTE PRESS

NEW MEMBRANE CONTAINER

INSTALL ON RIGMATS.
ELEVATION OF THIS CONTAINER
SAME AS EXISTING MEMBRANES.
6'' BELOW THE EQUALIZATION TANKS
& THE AEROBIC TANK.

EXISTING STAIRS
HEIGHT IS MODIFIED
FOR PIPING SUPPORT PURPOSE

PLAN CLÉ
KEY PLAN

NOTES GÉNÉRALES / GENERAL NOTES

AS-BUILT
TEL QUE CONSTRUIT
AGNICO EAGLE
DATE: 12/10/2020

REGISTERED PROFESSIONAL ENGINEER
B. ROY
LICENSEE
NT/NU
Bruno Roy
Digitally signed by Bruno Roy
Date: 2020.11.09 10:49:57 -05'00'

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
WASTE WATER CONTAINER	20C1131-801-0001
WASTE WATER EXISTING CONTAINER	6515-C-250-010-154-MNL
	–
	–
	–
	–

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT
1	2020-10-12	AS-BUILT	D.L.	B.R.	
0	2020-05-22	ISSUED FOR CONSTRUCTION	P.R.	P.R.	

REVISIONS

TECHNOLOGICAL DOCUMENT
THE ORIGINAL OF THIS TECHNOLOGICAL DOCUMENT WAS ISSUED AND AUTHENTICATED:
PAUL RIVEST, P.Eng. ON 2020-05-22
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TITRE / TITLE
AGNICO EAGLE – MELIADINE DIVISION
460 – SEWAGE TREATMENT PLANT
210 – GENERAL ARRANGEMENT
EXPANSION
SITE VIEW

DESSINÉ PAR / DRAWN BY	CARINE BEAULIEU	DATE 2020-05-20
VÉRIFIÉ PAR / CHECKED BY	PAUL RIVEST, P.Eng.	2020-05-22
APPROUVÉ PAR / APPROVED BY	PAUL RIVEST, P.Eng.	2020-05-22
ÉCHELLE / SCALE	INDICATED	DATE 2020-05-20

NO. DESSIN / DRAWING NO. 65-460-210-200

NO. PROJET / PROJECT NO.	REVISION	FEUILLE / SHT
6526	1	1 / 1

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FILE NO. 65-460-210-200_R1.dwg

VALVE SYMBOLS

N.OPEN N.CLOSED

- BALL
- V-BALL
- BUTTERFLY
- DIAPHRAGM
- GATE
- GLOBE
- NEEDLE
- PLUG
- SAMPLE/DRAIN
- CHECK
- BACKFLOW PREVENTER
- 3-WAY, 4-WAY
- PRESSURE REGULATING
- BACK PRESSURE REGULATING
- FLOW CONTROL
- 2-WAY SOLENOID
- 3-WAY SOLENOID
- 4-WAY SOLENOID
- AIR RELEASE
- VACUUM BREAKER
- PRESSURE RELEASE
- SLUICE GATE/WEIR

VALVE ACTUATOR SYMBOLS

- PNEUMATIC (FAIL LAST POSITION)
- PNEUMATIC FAIL CLOSE
- PNEUMATIC FAIL OPEN
- ELECTRIC
- DIAPHRAGM
- POSITIONER (ANY ACTUATOR TYPE)
- HAND OVERRIDE (ANY ACTUATOR TYPE)
- TRAVEL STOPS (ANY ACTUATOR TYPE)

FLOWMETER SYMBOLS

INTEGRAL — CLOSE COUPLED — REMOTE

- MAGNETIC
- PADDLE
- VORTEX
- DP/ORIFICE
- THERMAL
- ROTAMETER

INSTRUMENTATION SYMBOLS

LOCALLY MOUNTED	IN CONTROL PANEL	DESCRIPTION
X nnnnn	X nnnnn	DISCRETE INSTRUMENT
	X nnnnn	PRIMARY PLC OR DCS SHARED CONTROL
	X nnnnn	SECONDARY PLC OR DCS SHARED CONTROL
	X nnnnn	COMPUTER FUNCTION

INSTRUMENT FUNCTIONS

- K — SIGNAL PROCESSING FUNCTION
- A/M — AUTO/MANUAL
- Σ — ADDITION/SUMMATION
- Δ — DIFFERENTIAL
- I — INTERLOCK LOGIC FUNCTION
- Σ/n — AVERAGING

INSTRUMENT CONNECTIONS

- THREADED
- SOCKETWELD
- WELDED

PIPING SYMBOLS

- FLANGED CONNECTION
- THREADED CONNECTION
- BLIND FLANGE
- DOUBLE CONTAINMENT
- QUICK DISCONNECT VICTAULIC
- x" INSULATION THICKNESS INSULATION
- QUICK DISCONNECT CAMLOK
- x" INSULATION THICKNESS E HEAT TRACING E=ELECTRIC S=STEAM G=GLYCOL
- CAPPED PIPE END
- DRAIN OUTLET
- UNION
- REDUCER ECCENTRIC REDUCER
- EXPANSION/FLEXIBLE/ ISOLATION JOINT

PIPING ABBREVIATIONS

316 SS	316 STAINLESS STEEL
304 SS	304 STAINLESS STEEL
316L SS	LOW CARBON 316 STAINLESS STEEL
304L SS	LOW CARBON 304 STAINLESS STEEL
CPVC	CHLORINATED POLYVINYL CHLORIDE
CS	CARBON STEEL
DI	DUCTILE IRON
HDPE	HIGH-DENSITY POLYETHYLENE
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
RLCS	RUBBER LINED CARBON STEEL
SCH.	SCHEDULE
SDR	STANDARD DIMENSION RATIO
CML	CEMENT MORTAR LINED

LINE SYMBOLOGY

- MAIN PROCESS LINE
- SECONDARY PROCESS LINE
- PROCESS LINE, BY OTHERS
- COMM LINK (EX. PLC TO HMI)
- COMM LINK (EX. PLC TO DCS)
- ELECTRIC WIRING
- PNEUMATIC LINE
- LINE JUMPER
- PIPE DISCONTINUATION
- FLOW DIRECTION ARROWS
- 4" 316 SS SCH.10 — LINES SIZE/ MATERIAL IDENTIFIER
- SKID BOUNDARY — SKID BY H_2O Innovation — BY OTHERS
- REVISION
- LINES TO/FROM OTHER SHEETS — DESCRIPTION — C01-0001 SHT 1 — DESTINATION

PUMP SYMBOLS

- CENTRIFUGAL
- CHEMICAL METERING
- DIAPHRAGM
- POSITIVE DISPLACEMENT
- VACUUM
- SUBMERSIBLE OR FLOATING
- VERTICAL TURBINE
- PERISTALTIC/HOSE

MISCELLANEOUS EQUIPMENT SYMBOLS

- CARTRIDGE FILTER HOUSING
- AUTOMATIC STRAINER
- SILENCER
- MIXER
- STATIC MIXER
- RESIN TRAP
- MOTOR
- EDUCTOR OR VENTURI
- Y STRAINER
- CONICAL OR TEMPORARY STRAINER
- PULSATION DAMPENER
- DIAPHRAGM
- FLOW ORIFICE
- AIR COMPRESSOR
- RUPTURE DISK (PRESSURE)
- RUPTURE DISK (VACUUM)
- SPECTACLE BLIND (NORMALLY OPEN, NORMALLY CLOSED)
- INJECTION QUILL
- FILTER
- REFRIGERATED AIR DRYER
- TANK
- MMF TANK
- IMMERSED HEATER
- IN-LINE HEATER
- ULTRASONIC LEVEL TRANSMITTER
- FLOAT-STYLE LEVEL TRANSMITTER
- CHEMICAL CONTAINMENT
- CALIBRATION COLUMN
- MEMBRANE
- UV STERILIZER
- DIFFUSERS:
- COARSE BUBBLE
- FINE BUBBLE
- POSITIVE DISPLACEMENT BLOWER
- REGENERATIVE BLOWER
- CENTRIFUGAL BLOWER
- TURBOCHARGER
- BIO-WHEEL
- MANWAY

FLOW INSTRUMENTS

FAH	FLOW ALARM HIGH
FAL	FLOW ALARM LOW
FCV	FLOW CONTROL VALVE
FE	FLOW ELEMENT
FI	FLOW INDICATOR
FIC	FLOW INDICATING CONTROLLER
FIT	FLOW INDICATING TRANSMITTER
FR	FLOW RECORDING
FSH	FLOW SWITCH HIGH
FSL	FLOW SWITCH LOW
FV	FLOW CONTROL OR ON/OFF VALVE
FQ	FLOW TOTALIZER
FX	ELEMENT CONTROLLED BY FLOW
FY	FLOW SIGNAL CONVERT, I/P, OR SOLN

PRESSURE INSTRUMENTS

PAH	PRESSURE ALARM HIGH
PAL	PRESSURE ALARM LOW
PC	PRESSURE CONTROLLER
PCV	SELF REG PRESS CONTROL VALVE
PDH	DIFFERENTIAL PRESSURE HIGH
PDI	DIFFERENTIAL PRESSURE INDICATOR
PDIT	DIFF PRESS INDICATING TRANSMITTER
PDSH	DIFFERENTIAL PRESS SWITCH HIGH
PG	PRESSURE GAUGE
PI	PRESSURE INDICATOR
PIC	PRESSURE INDICATING CONTROLLER
PIT	PRESSURE INDICATING TRANSMITTER
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
PSV	SELF REG PRESS SAFETY VALVE
PT	PRESSURE TRANSMITTER
PX	ELEMENT CONTROLLED BY PRESSURE
PY	PRESS SIGNAL CONVERT, I/P, OR SOLN
PSLH	PRESSURE SWITCH LOW HIGH

LEVEL INSTRUMENTS

LAH	LEVEL ALARM HIGH
LAL	LEVEL ALARM LOW
LCV	SELF REG LEVEL CONTROL VALVE
LE	LEVEL ELEMENT
LG	LEVEL GAUGE
LI	LEVEL INDICATOR
LIC	LEVEL INDICATING CONTROLLER
LIT	LEVEL INDICATING TRANSMITTER
LSH	LEVEL SWITCH HIGH
LSL	LEVEL SWITCH LOW
LT	LEVEL TRANSMITTER
LV	LEVEL CONTROL OR ON/OFF VALVE
LX	ELEMENT CONTROLLED BY LEVEL
LY	LEVEL SIGNAL CONVERT, I/P, OR SOLN

TEMPERATURE INSTRUMENTS

TAH	TEMPERATURE ALARM HIGH
TAL	TEMPERATURE ALARM LOW
TC	TEMPERATURE CONTROLLER
TE	TEMPERATURE ELEMENT
TG	TEMPERATURE GAUGE
TI	TEMPERATURE INDICATOR
TIC	TEMP INDICATING CONTROLLER
TIT	TEMP INDICATING TRANSMITTER
TSH	TEMPERATURE SWITCH HIGH
TSL	TEMPERATURE SWITCH LOW
TT	TEMPERATURE TRANSMITTER
TV	TEMP CONTROL OR ON/OFF VALVE
TX	ELEMENT CONTROLLED BY TEMP
TY	TEMP SIGNAL CONVERT, I/P, OR SOLN

ELECTRICAL ABBREVIATIONS

JB	JUNCTION BOX
MCP	MAIN CONTROL PANEL
RIO	REMOTE I/O PANEL
PP	POWER PANEL
VFD	VARIABLE FREQUENCY DRIVE
HOA	HAND-OFF-AUTO

ANALYTICAL INSTRUMENTS

AAH	ANALYTICAL ALARM HIGH
AAL	ANALYTICAL ALARM LOW
AE	ANALYTICAL ELEMENT
AI	ANALYTICAL INDICATOR
AIC	ANAL INDICATING CONTROLLER
AIT	ANAL INDICATING TRANSMITTER
ASH	ANALYTICAL SWITCH HIGH
ASL	ANALYTICAL SWITCH LOW
AT	ANALYTICAL TRANSMITTER
AX	ELEMENT CONTROLLED BY ANALYTICAL
AY	ANALYTICAL SIGNAL CONVERT, I/P, OR SOL

MISCELLANEOUS INSTRUMENTS

HS	HAND SWITCH
HI	HAND SWITCH POSITION INDICATOR
II	CURRENT INDICATOR
QQI	TOTALIZER INDICATOR
SC	SPEED CONTROLLER
SI	SPEED INDICATOR
YA	MOTOR ALARM
YC	MOTOR CONTROL
YI	MOTOR ON/OFF INDICATOR
ZIC	SWITCH CLOSE INDICATOR
ZIO	SWITCH OPEN INDICATOR
ZSC	POSITION SWITCH CLOSED
ZSO	POSITION SWITCH OPEN
ZT	POSITION TRANSMITTER
ZI	POSITION INDICATOR

VALVES & EQUIPMENT

AC	AIR COMPRESSOR
ARV	AIR RELEASE VALVE
AS	AIR SUPPLY
B	BLOWER
BT	BULK TOTE
CBD	COARSE BUBBLE DIFFUSER
CV	CHECK VALVE
ED	EDUCTOR
F	FILTER
FBD	FINE BUBBLE DIFFUSER
FL	FAIL LAST (DEFAULT IF NOT SHOWN)
FC	FAIL CLOSED
FO	FAIL OPEN
FQG	CALIBRATION COLUMN
H	HEATER
HCV	HAND CONTROL VALVE
HTR	HEATER
HV	HAND VALVE
M	MOTOR
MX	MIXER
P	PUMP
RT	RESIN TRAP
ST	SPILL TANK
STR	STRAINER
T	TANK
UV	ULTRAVIOLET
HV	HAND VALVE
MV	MULTI FUNCTION VALVE

OTHER ABBREVIATIONS

CAP	CAPACITANCE
CIP	CLEAN-IN-PLACE
COND	CONDUCTIVITY
DO2	DISSOLVED OXYGEN
ESP	EMERGENCY STOP
IA	INSTRUMENT AIR
I/P	CURRENT TO PNEUMATIC CONVERTER
ORP	OXIDATION REDUCTION POTENTIAL
pH	HYDROGEN ION
RES	RESISTIVITY
RTD	RESISTANCE TEMP DETECTOR
SOL	SOLENOID
SP	SET POINT
uS	MICROSIEMENS
MIT	MEMBRANE INTEGRITY TEST

DRAWING REVISION

REV	DATE (DD/MM/YYYY)	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD
04	03/02/2021	AS INSTALLED	Y.D.	R.D.	R.D.	A.M.
03	13/11/2020	AS BUILT	Y.D.	R.D.	R.D.	A.M.
02	10/06/2020	FOR CONSTRUCTION	Y.D.	R.D.	R.D.	A.M.
01	13/05/2020	MODIFIED PER COMMENTS, MODIFIED INTERCONNECTION WITH MAIN PLANT	G.B.	R.D.	R.D.	A.M.
00	04/23/2020	INITIAL RELEASE	Y.D.	R.D.	H.C.	A.M.

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INTERPRETATION: ANSI Y14.5
TOLERANCES
FRACTIONS: ±1/64"
DECIMALS 0.X: ±0.030
0.XX: ±0.015
ANGLES: ±0.5°
HOLE SIZES: ±1/64"
HOLE CENTERS: ±1/32"
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MELIADINE STP EXPANSION

83 M3/DAY

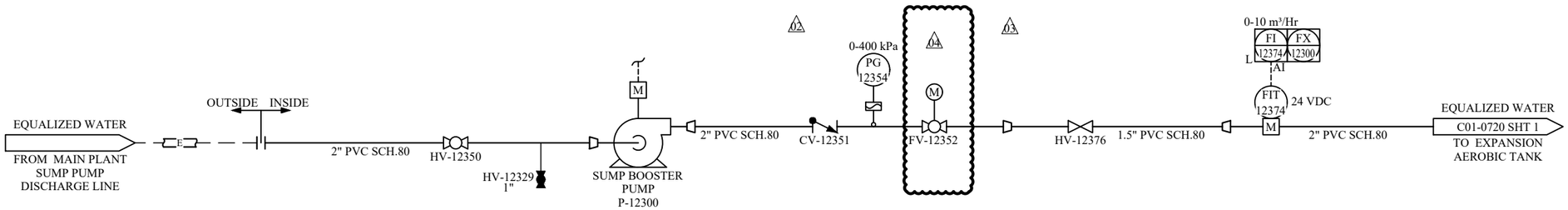
TITLE: PIPING AND INSTRUMENTION DIAGRAMS LEGEND

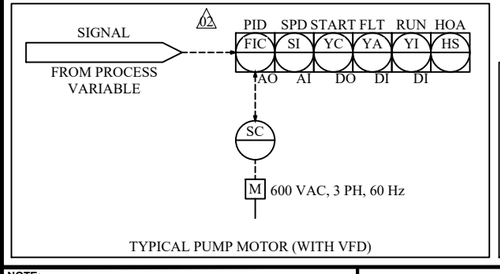
SCALE: N/A

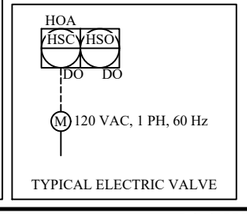
DRAWING NUMBER: 20C1131-C01-0001

SHEET: 1 of 1

REVISION 04







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03	13/11/2020	AS BUILT	Y.D.	R.D.	R.D.	A.M.
02	10/06/2020	FOR CONSTRUCTION	Y.D.	R.D.	R.D.	A.M.
01	13/05/2020	MODIFIED PER COMMENTS, MODIFIED INTERCONNECTION WITH MAIN PLANT	G.B.	R.D.	R.D.	A.M.
00	04/23/2020	INITIAL RELEASE	Y.D.	R.D.	H.C.	A.M.

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INTERPRETATION: ANSI Y14.5
TOLERANCES
FRACTIONS: ±1/16"
DECIMALS 0.X: ±0.030
0.XX: ±0.015
0.XXX: ±0.5"
ANGLES: ±1°
HOLE SIZES: ±1/32"
HOLE CENTERS: ±1/8"
DO NOT SCALE PRINTS

MELIADINE STP EXPANSION

83 M3/DAY

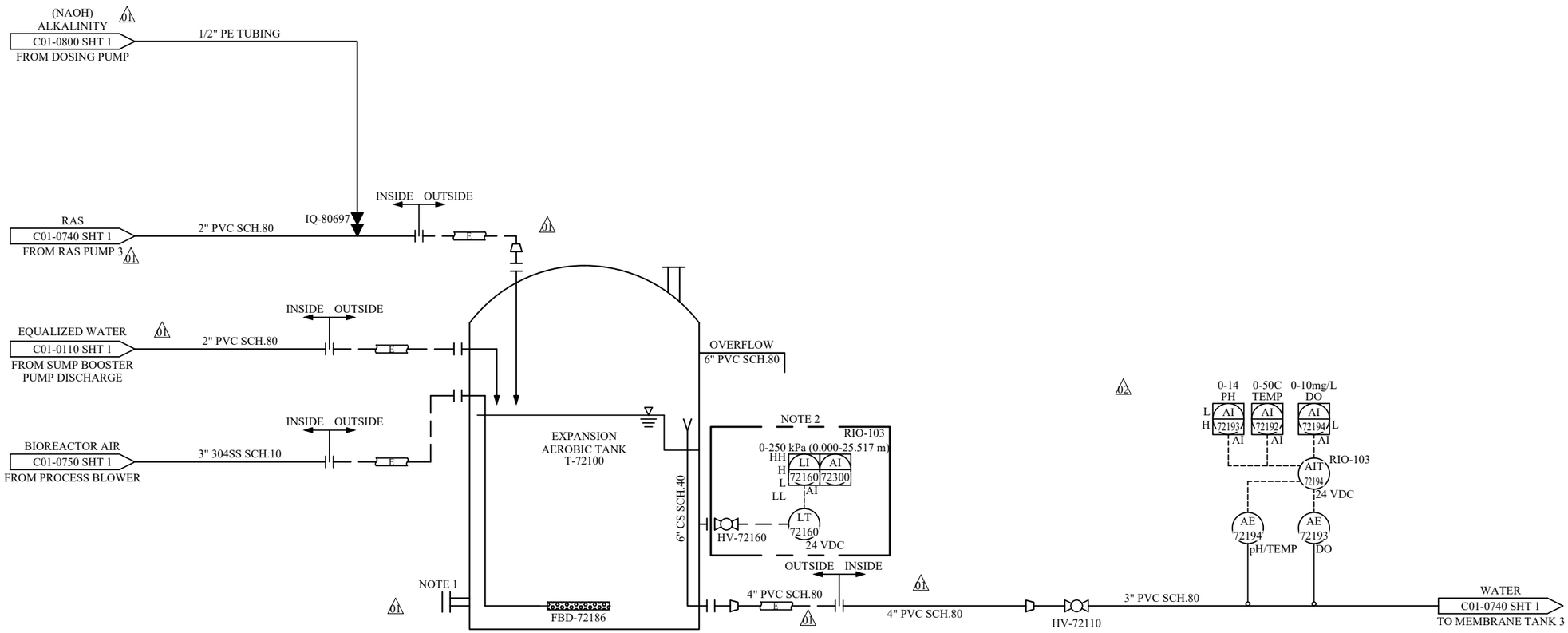
TITLE:
SUMP BOOSTER PUMP
PIPING & INSTRUMENTATION DIAGRAM

SCALE: N/A

DRAWING NUMBER: 20C1131-C01-0110

SHEET: 1 of 1

REVISION 04



NOTES:

1. DOOR HATCH ACCESS.
2. PROTECTION COVER.

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03	13/11/2020	AS BUILT	Y.D.	R.D.	R.D.	A.M.
02	10/06/2020	FOR CONSTRUCTION	Y.D.	R.D.	R.D.	A.M.
01	13/05/2020	MODIFIED PER COMMENTS, MODIFIED INTERCONNECTION WITH MAIN PLANT	G.B.	R.D.	R.D.	A.M.
00	04/23/2020	INITIAL RELEASE	Y.D.	R.D.	H.C.	A.M.

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TOLERANCES
FRACTIONS: ±1/16"
DECIMALS 0.X: ±0.030
0.XX: ±0.015
ANGLES: ±0.5°
HOLE SIZES: ±1/64"
HOLE CENTERS: ±1/32"
DO NOT SCALE PRINTS

MELIADINE STP EXPANSION

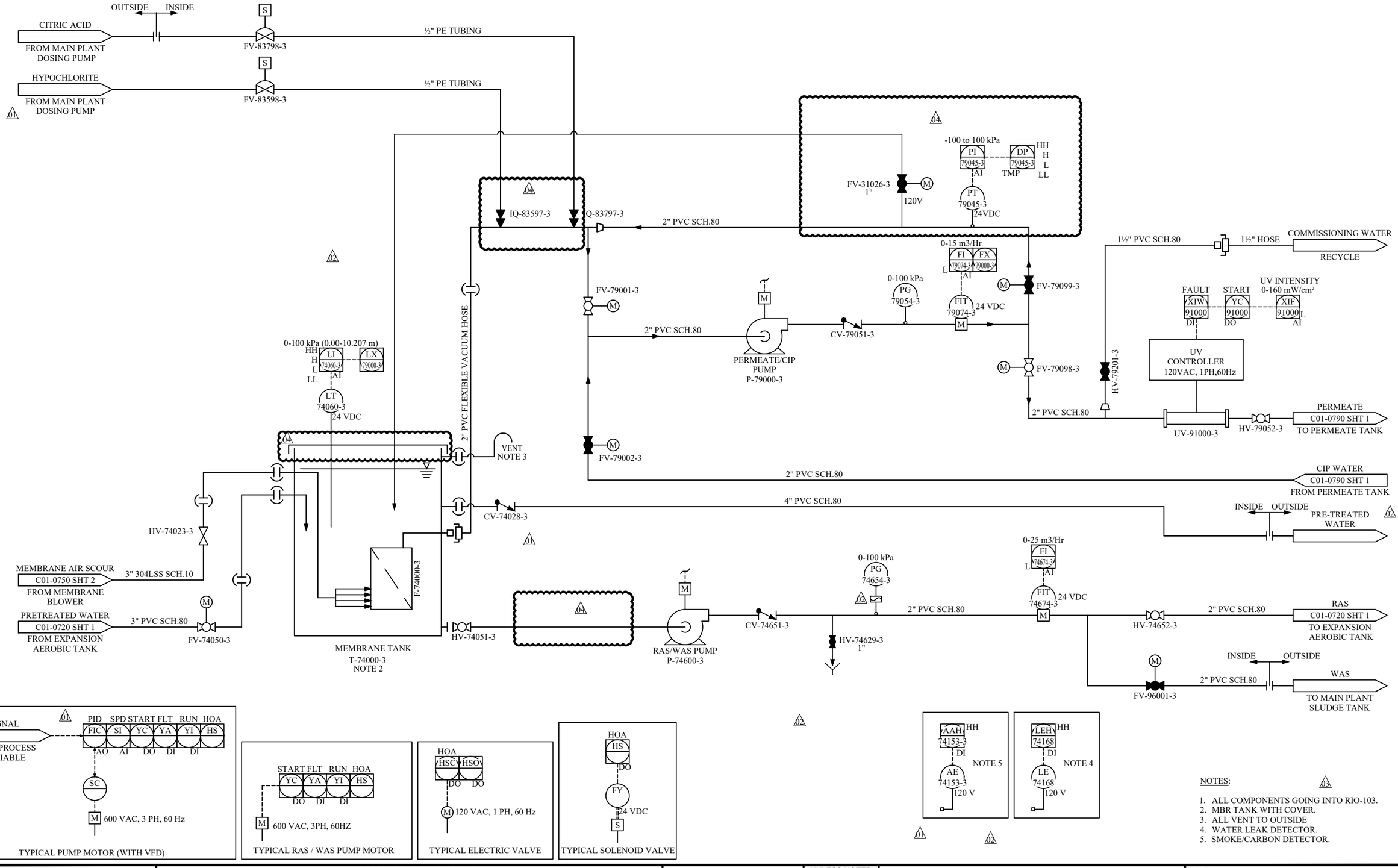
83 M3/DAY

TITLE:
PIPING AND INSTRUMENTATION
PROCESS & INSTRUMENTATION DIAGRAM

SCALE: N/A

DRAWING NUMBER: 20C1131-C01-0720
SHEET: 1 of 1

REVISION 04



NOTES:

1. ALL COMPONENTS GOING INTO RIO-103.
2. MBR TANK WITH COVER.
3. ALL VENT TO OUTSIDE
4. WATER LEAK DETECTOR.
5. SMOKE/CARBON DETECTOR.

DRAWING REVISION

REV	DATE (DD/MM/YYYY)	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD
04	03/02/2021	AS INSTALLED	Y.D.	R.D.	R.D.	A.M.
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MELIADINE STP EXPANSION

83 M3/DAY

TITLE:
PIPING AND INSTRUMENTATION
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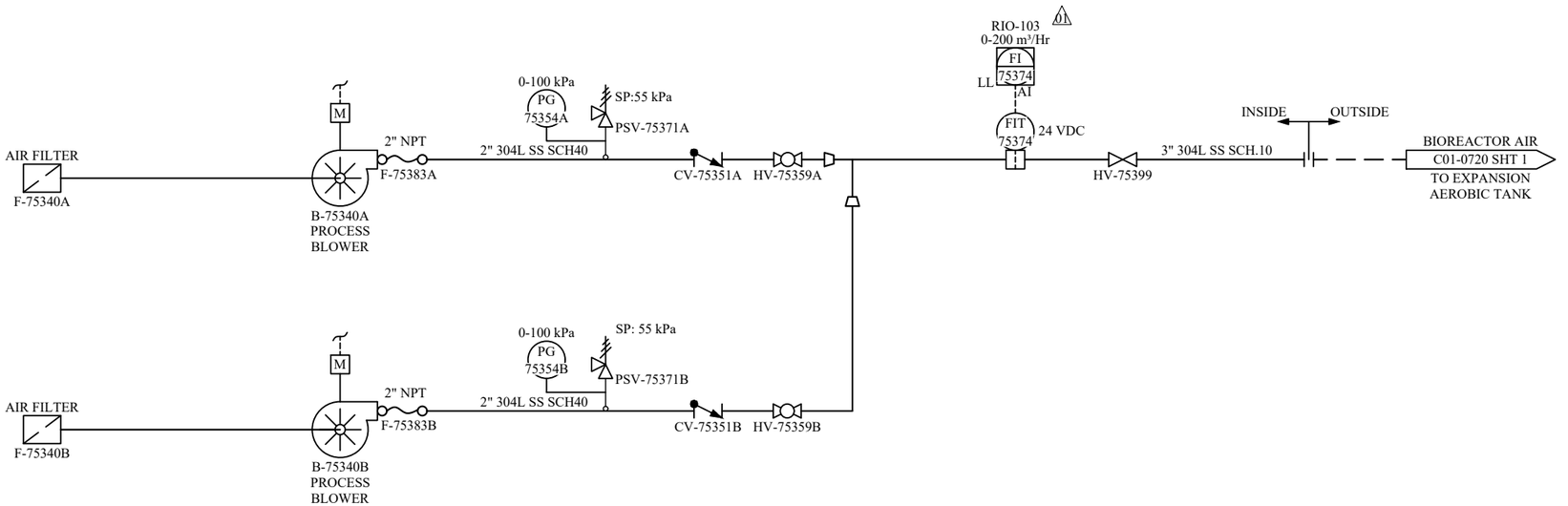
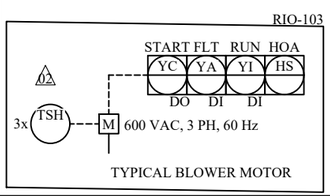
SCALE:	DRAWING NUMBER:	REVISION
N/A	20C1131-C01-0740	04
	SHEET: 1 of 1	





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TITLE:
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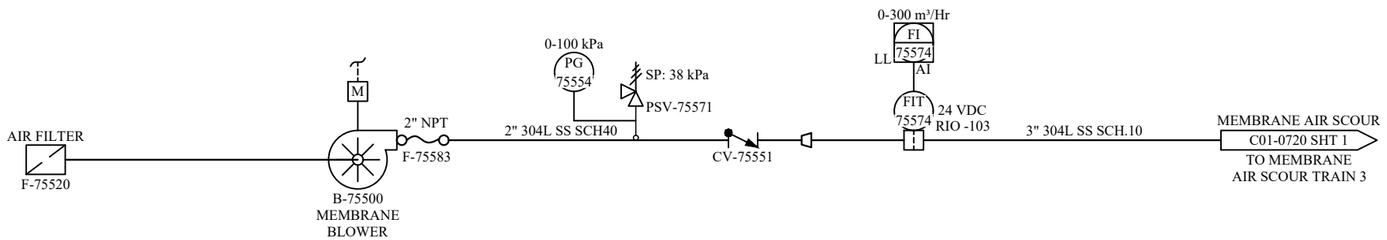
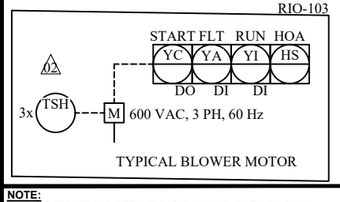
PROCESS & INSTRUMENTATION DIAGRAM

SCALE: N/A

DRAWING NUMBER: 20C1131-C01-0750
SHEET: 1 of 2

REVISION 04





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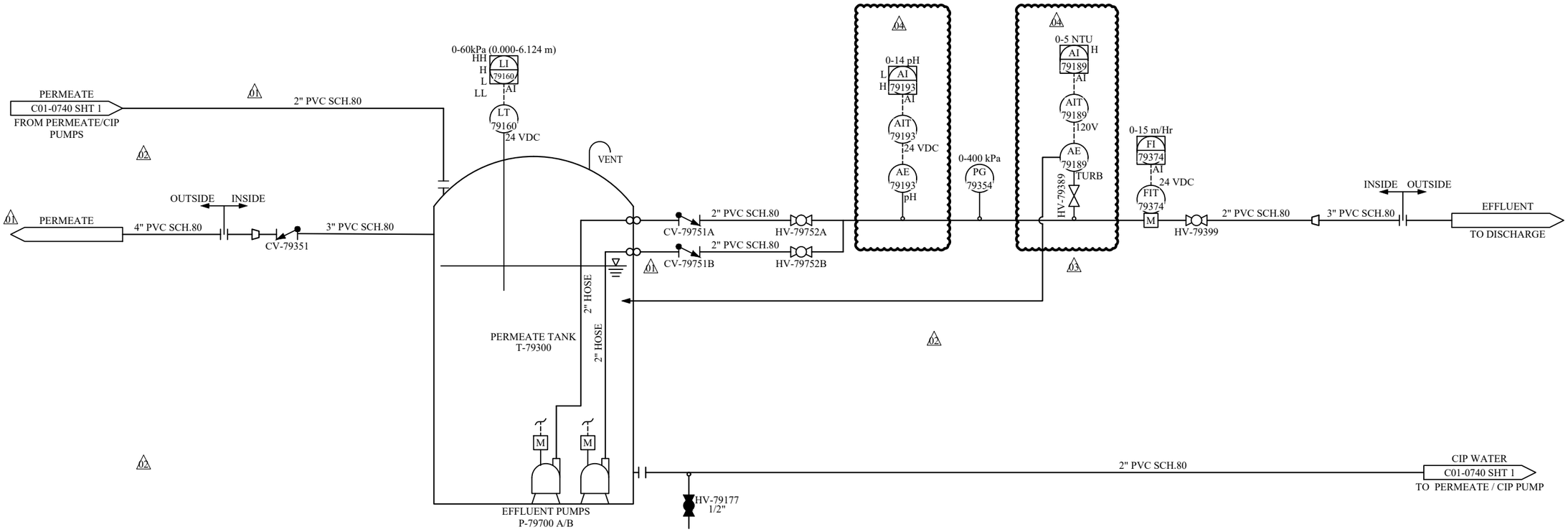
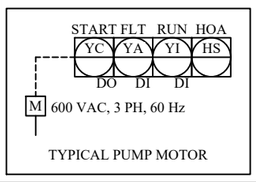
N/A	20C1131-C01-0750	04
	SHEET: 2 of 2	





NOTES:

1. ALL COMPONANTS GOING INTO RIO-103.

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MELIADINE STP EXPANSION

83 M3/DAY

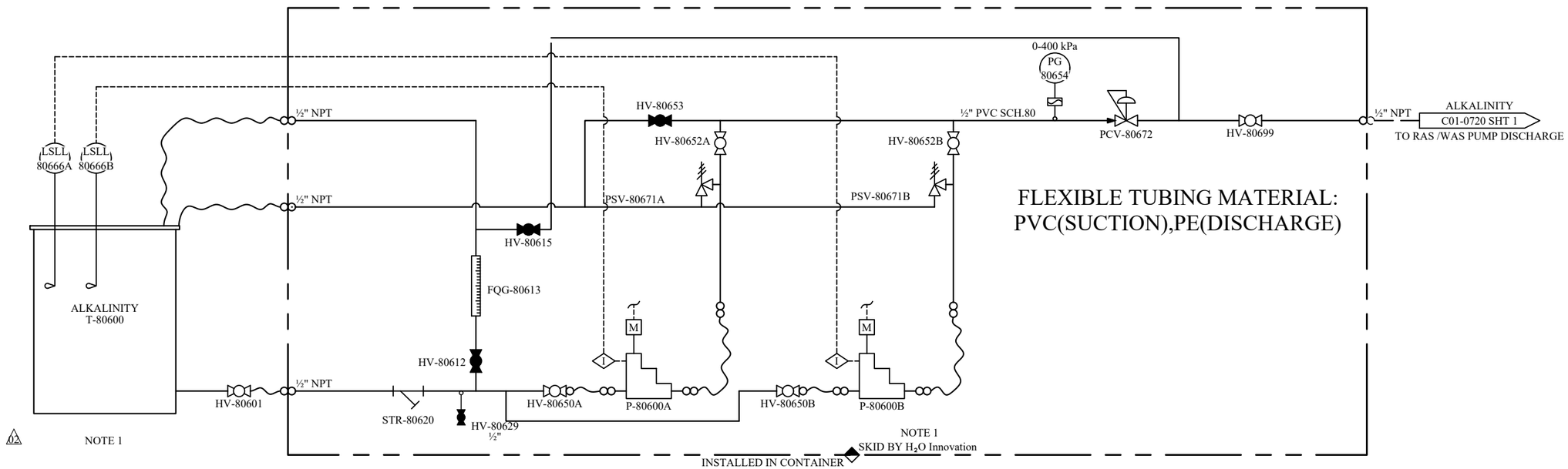
TITLE:
PIPING AND INSTRUMENTATION
PROCESS & INSTRUMENTATION DIAGRAM

SCALE: N/A

DRAWING NUMBER: 20C1131-C01-0790

SHEET: 1 of 1

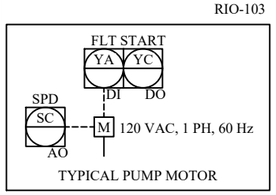
REVISION 04



FLEXIBLE TUBING MATERIAL:
PVC(SUCTION),PE(DISCHARGE)

SODIUM HYDROXIDE, 25%, ALKALINITY ADJUSTMENT
01 CHEMICAL DOSING SYSTEM

RIO-103



TYPICAL PUMP MOTOR

NOTES:

1. TANK TO BE DOUBLE-WALL STORAGE TYPE

DRAWING REVISION

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MELIADINE STP EXPANSION

83 M3/DAY

TITLE:
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PROCESS & INSTRUMENTATION DIAGRAM

SCALE: N/A

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SHEET: 1 of 1

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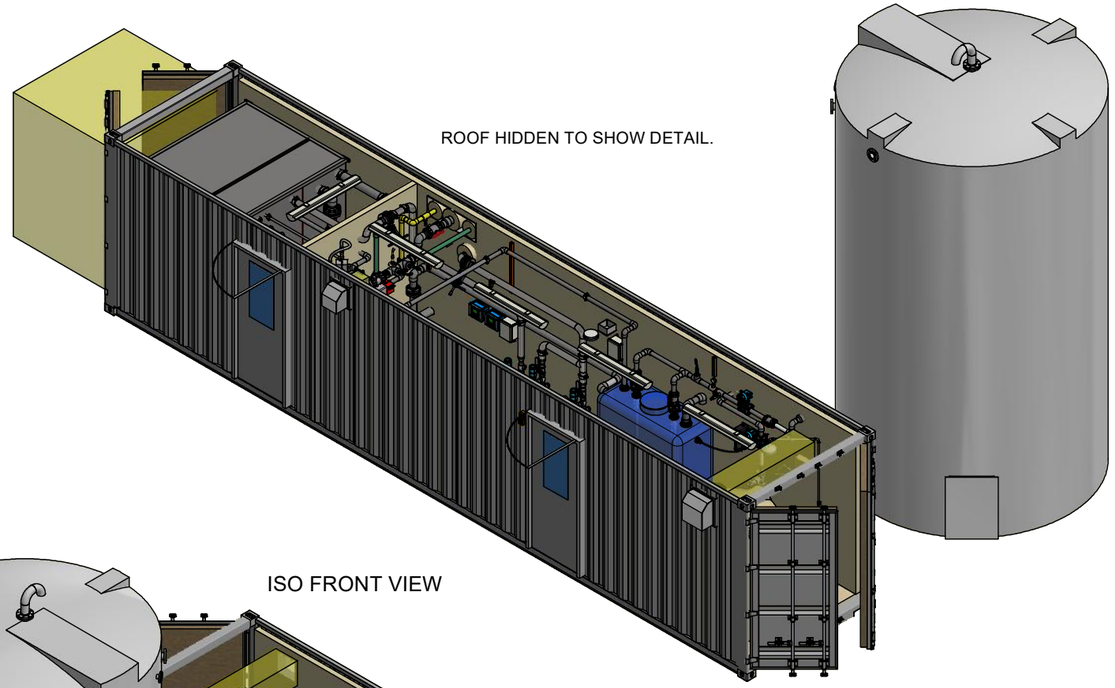
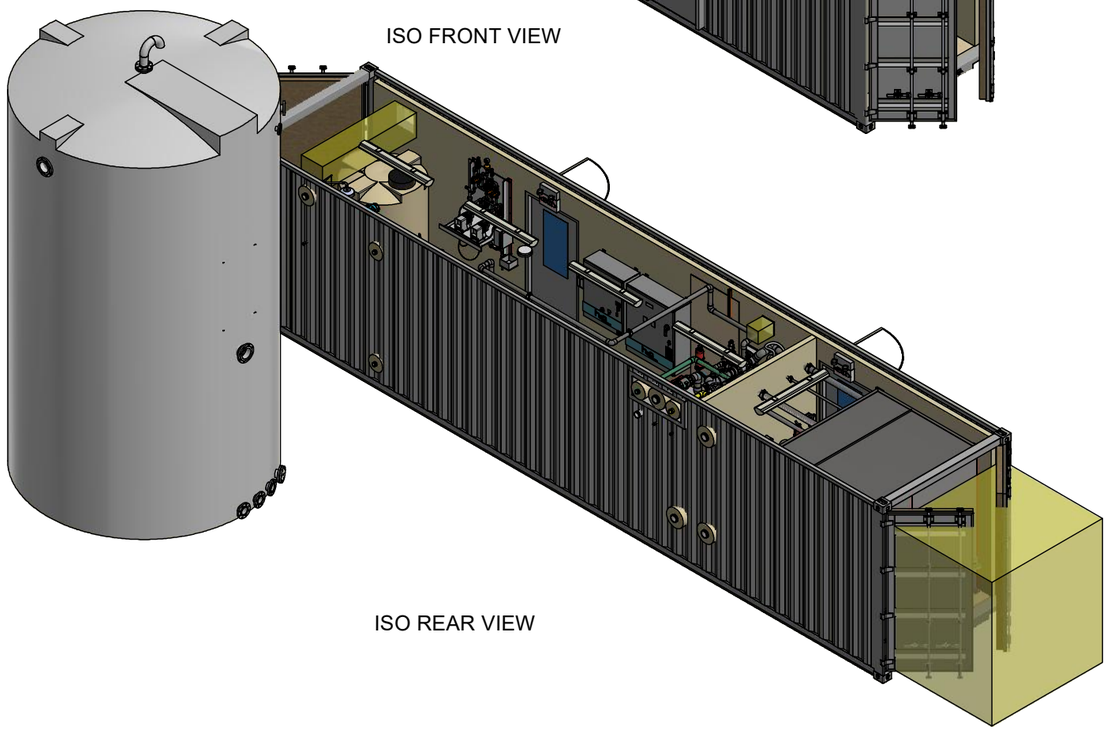


ISO FRONT VIEW



ISO REAR VIEW

NOTES:

1. REFERENCE P&ID: 20C1131-C01-0001
2. APPROXIMATE SHIPPING WEIGHT: 22 000 LBS.
3. ROOF INSULATION TO BE MINIMUM R20.
4. WALL INSULATION TO BE MINIMUM R20.
5. FLOOR INSULATION TO BE MINIMUM R20.
6. MINIMUM INSIDE DIMENSIONS ARE 84'5'' WIDE X 102'' HIGH AND XXX'' LONG.
7. ENSURE THAT LIFTING LUGS ARE USED FOR LIFTING TANKS AND/OR BUILDINGS. LIFTING LUGS FOR TANKS ARE LOCATED AT THE TOP OF THE TANK.
8. CLEARANCE FOR AIR FLOW AND SERVICE REQUIRED AROUND PANEL AIR CONDITIONERS. REFER TO ELECTRICAL DRAWINGS FOR REQUIREMENTS.
9. ALL WELDS, EXCEPT FILLET WELDS, ARE TO BE GROUND FLUSH IN THE FLAT POSITION WITHOUT DISHING.
10. ALL WELDS ARE TO BE 100% VISUALLY INSPECTED.
11. COMPLIANCE WITH CSA W47.1 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL AND CSA W59 WELDED STEEL CONSTRUCTION REQUIRED.
12. NO VERTICAL DOWN WELDS ARE ALLOWED UNLESS CERTIFIED PER CSA W59 AND APPROVED BY H2O INNOVATION.
13. STITCH WELDS ARE NOT ALLOWED UNLESS PRE-APPROVED BY H2O INNOVATION.
14. NO VERTICAL DOWN WELDS ARE ALLOWED UNLESS CERTIFIED PER AWS D1.6 AND APPROVED BY H2O INNOVATION.
15. STRUCTURAL STEEL WELDING AS PER STRUCTURAL WELDING CODE - STAINLESS STEEL, AWS D1.6.
16. MATERIAL IS TYPE 304L SS. THE MINIMUM YIELD STRENGTH REQUIRED FOR ALL MATERIAL IS 36 KSI.
17. HOLLOW STRUCTURAL STEEL SECTIONS PER ASTM A269.
18. ANGLES AND CHANNELS PER ASTM A276, AND PLATE PER ASTM A240 OR A666. SHAPES FORMED FROM PLATE ARE ACCEPTABLE.
19. STRUCTURAL FRAME WELDS AND AREAS WITH IRON CONTAMINATION TO BE TREATED WITH PICKLE PASTE COMPOUND AND WASHED CLEAN.
20. PUT 1/8'' RADIUS ON ALL CORNERS, FOR SAFETY.
21. BREAK ALL SHARP EDGES, AND REMOVE SPATTER.
22. SINGLE MEMBERS TO BE CONTINUOUS. SEAMED MEMBERS ARE NOT ACCEPTABLE.
23. ALL STAINLESS STEEL PIPING TO BE ASTM A312. ALL STAINLESS STEEL FITTINGS TO BE ASTM A403. FLANGES TO BE ASTM A182 AND ANSI B 16.5.
24. CLASS 150 FITTINGS SHALL MEET MSS SP114 STANDARDS FOR SIZES 1/8'' THRU 4''. THREADS SHALL MEET ANSI B1.20.1. MATERIAL IS ASTM A351 GRADE CF8M OR ASTM A182 GRADE 316 OR ASTM A276.
25. ALL STAINLESS STEEL PIPING TO BE WELDED TO ASME B31.1, 100% PENETRATION AND BACK GASSED WITH ARGON.
26. WELDER CERTIFICATIONS FOR ALL WELDERS MUST BE PROVIDED TO H2O INNOVATION.
27. COMPLETED ASSEMBLY MUST BE LEAK TESTED TO 50 PSIG.
28. TANK 4 HOUR FILL AND HOLD HYDRO TEST REQUIRED.
29. UNWITNESSED TEST REPORT MUST BE PROVIDED.
30. ALL STAINLESS STEEL TO BE PICKLED (DIPPED) AND PASSIVATED TO ASTM A380.
31. BOLTS AND NUTS ARE STAINLESS STEEL TYPE 316.
32. MECHANICAL PROPERTIES PER CONDITION CW OF ASTM F593/F594.
33. THREADS PER ANSI/ASME B1.1 CLASS 2A.
34. WASHERS AND & LOCK WASHERS ARE STAINLESS STEEL TYPE 316 WITH DIMENSIONS PER ASME B18.21.1.
35. ALL PVC PIPE TO BE SCHEDULE 80, GRAY. PIPE MATERIAL TO CONFORM TO ASTM D1784. PHYSICAL DIMENSIONS, SCHEDULES, AND TOLERANCES TO CONFORM TO ASTM D1785.
36. ALL PVC FITTINGS TO BE SCHEDULE 80, GRAY. SOCKET FITTINGS TO CONFORM TO ASTM D2467.
37. PVC FLANGES 3" AND LARGER TO BE VAN STONE STYLE WITH GLASS FILLED PVC RING. PVC FLANGES 2" AND SMALLER TO BE VAN STONE STYLE WITH PVC RING, PVC FLANGES TO MEET CLASS 150 BOLT HOLE PATTERN PER ANSI B16.5.
38. PVC PRIMER TO CONFORM TO ASTM F656. PVC SOLVENT CEMENT TO CONFORM TO ASTM D2564.
39. EXPOSED PVC PIPING REQUIRES SUITABLE UV PROTECTIVE COATING ON SITE. NOT BY H2O INNOVATION.
40. ALL GASKETS TO CONFORM TO ASTM F477.
41. TAP (1/2'' NPT OR SMALLER ONLY) INTO PVC / CPVC FITTING IS ALLOWED, BUT ONLY IN SPECIFIC LOCATIONS WHERE NO ADEQUATE FITTING IS PROVIDED.
42. TUBING MATERIAL IS NYLON.
43. ELECTRICAL CONDUIT MATERIAL IS RIGID PVC.

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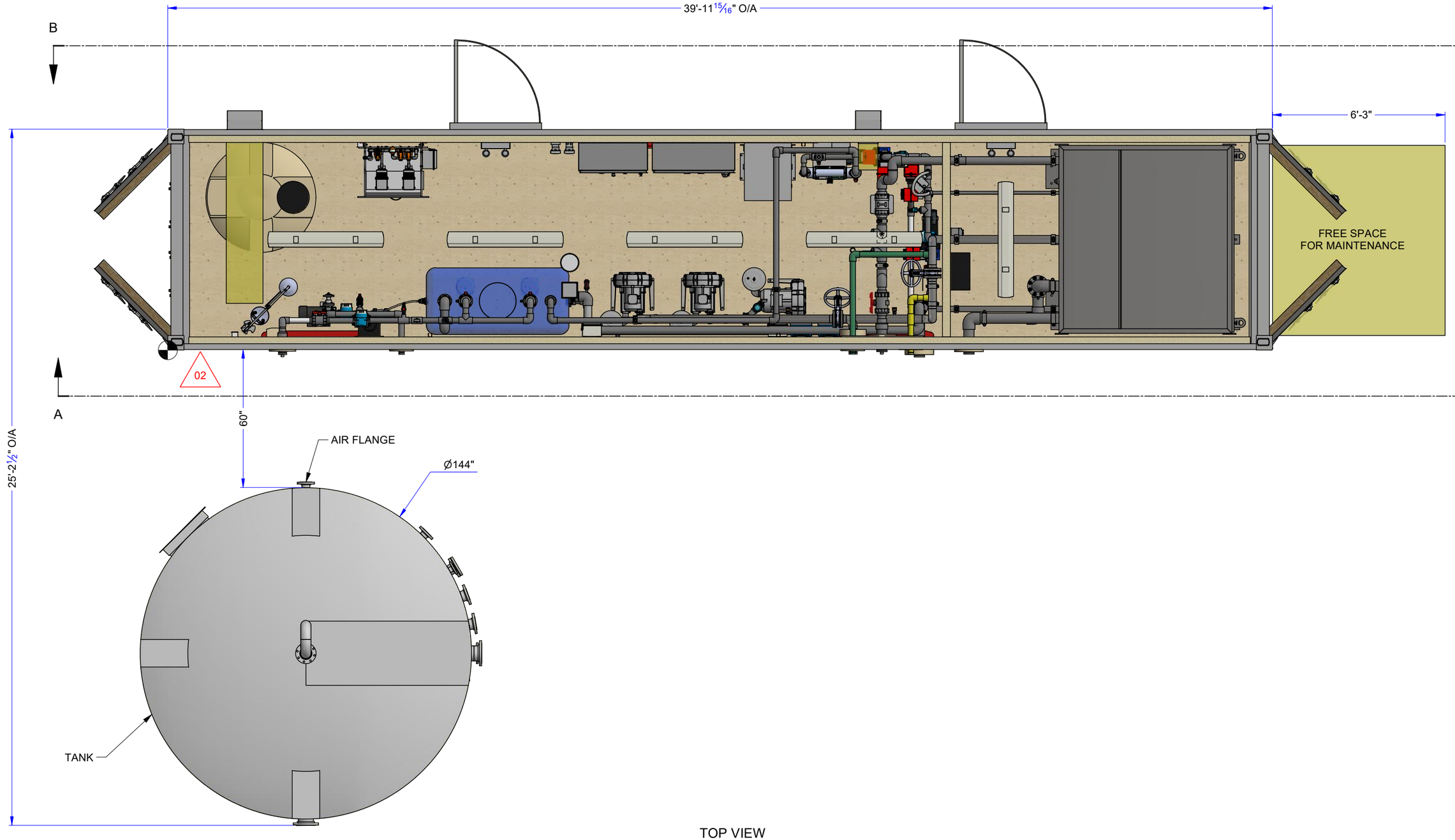
MELIADINE WW EXPANSION

MELIADINE , NU

TITLE:
WASTE WATER CONTAINER
GENERAL ARRANGEMENT

SCALE:	DRAWING NUMBER:	REVISION
N/A	20C1131-B01-0001 SHEET: 1 OF 5	03



TOP VIEW

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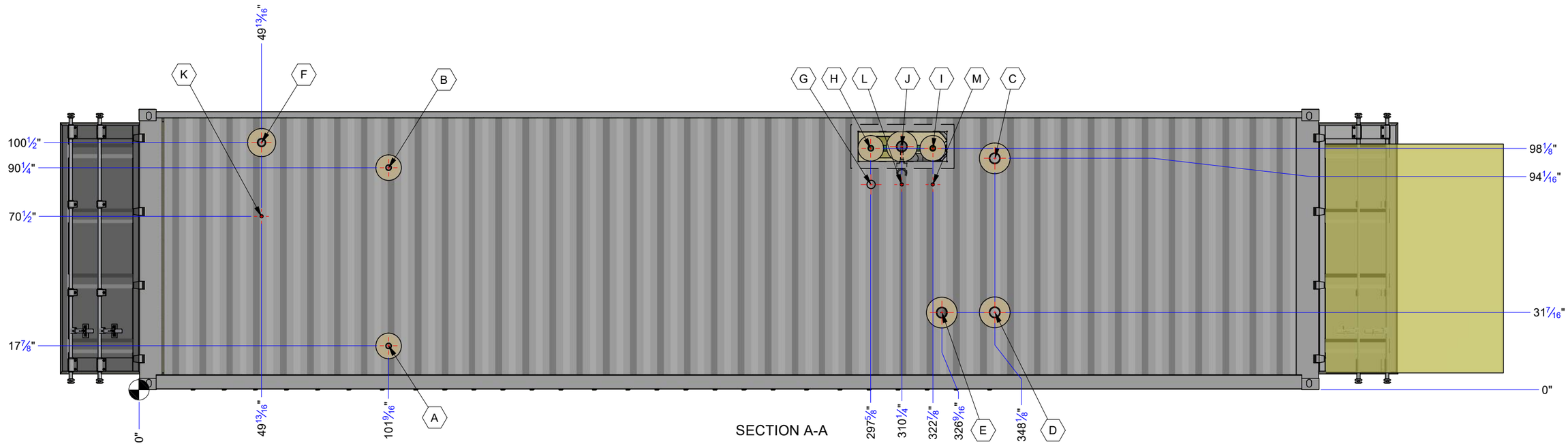
MELIADINE WW EXPANSION

MELIADINE , NU

TITLE:
WASTE WATER CONTAINER
GENERAL ARRANGEMENT

SCALE:	DRAWING NUMBER:	REVISION
N.T.S	20C1131-B01-0001 SHEET: 2 OF 5	03

NOZZLE#	DESCRIPTION	MATERIAL	DIAMETER	CONNECTION
A	EQUALIZED WATER FROM MAIN PLANT SUMP PUMPS DISCHARGE LINE	PVC, SCH.80	2"	CUT GROOVE
B	EQUALIZED WATER TO EXPANSION AEROBIC TANK	PVC, SCH.80	2"	CUT GROOVE
C	MEMBRANE TANK VENT TO OUTSIDE	PVC, SCH.80	4"	CUT GROOVE
D	MEMBRANE TANK OVERFLOW	PVC, SCH.80	4"	CUT GROOVE
E	PERMEATE TANK OVERFLOW	PVC, SCH.80	4"	CUT GROOVE
F	PERMEATE EFFLUENT TO DISCHARGE	PVC, SCH.80	3"	CUT GROOVE
G	BIOREACTOR AIR TO EXPANSION AEROBIC TANK	SS 304, SCH.10	3"	CUT GROOVE
H	WAS TO MAIN PLANT SLUDGE TANK	PVC, SCH.80	2"	CUT GROOVE
I	RAS TO EXPANSION AEROBIC TANK	PVC, SCH.80	2"	CUT GROOVE
J	PRETREATED WATER FROM EXPANSION AEROBIC TANK	PVC, SCH.80	4"	CUT GROOVE
K	POTABLE WATER	PVC, SCH.80	1/2"	FNPT
L	CITRIC ACID	PVC, SCH.80	1/2"	FNPT
M	HYPOCHLORITE	PVC, SCH.80	1/2"	FNPT



SECTION A-A

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MELIADINE WW EXPANSION

MELIADINE , NU

TITLE:
WASTE WATER CONTAINER
GENERAL ARRANGEMENT

SCALE:	DRAWING NUMBER:	REVISION
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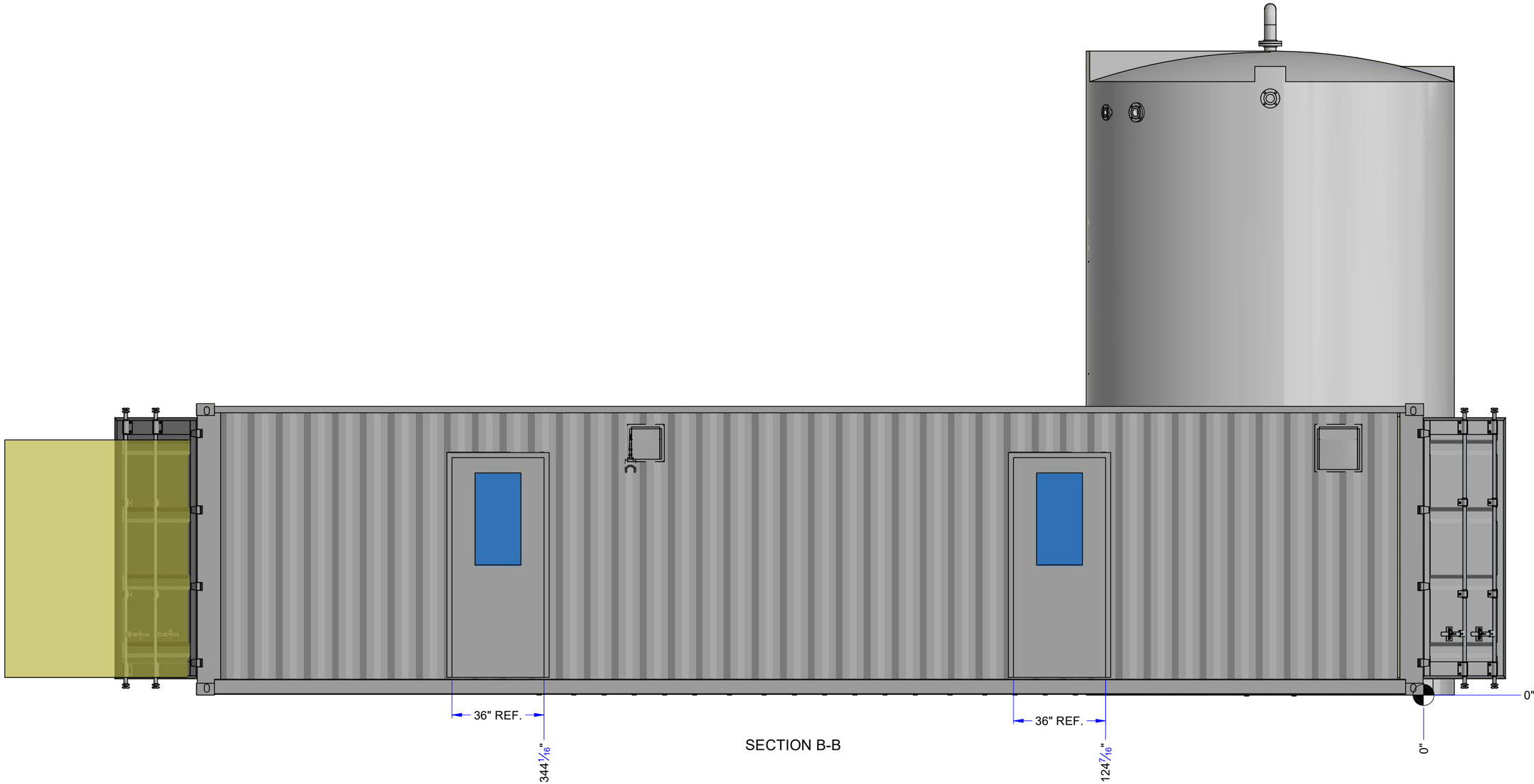

SECTION B-B

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03	2021-03-02	AS BUILT	Y.D.	R.D.	R.D.	A.M.
02	2020-11-12	AS BUILT	M.C.	R.D.	R.D.	A.M.
01	2020-06-02	REVISED AS PER ENGINEER COMMENTS	M.C.	R.D.	R.D.	A.M.
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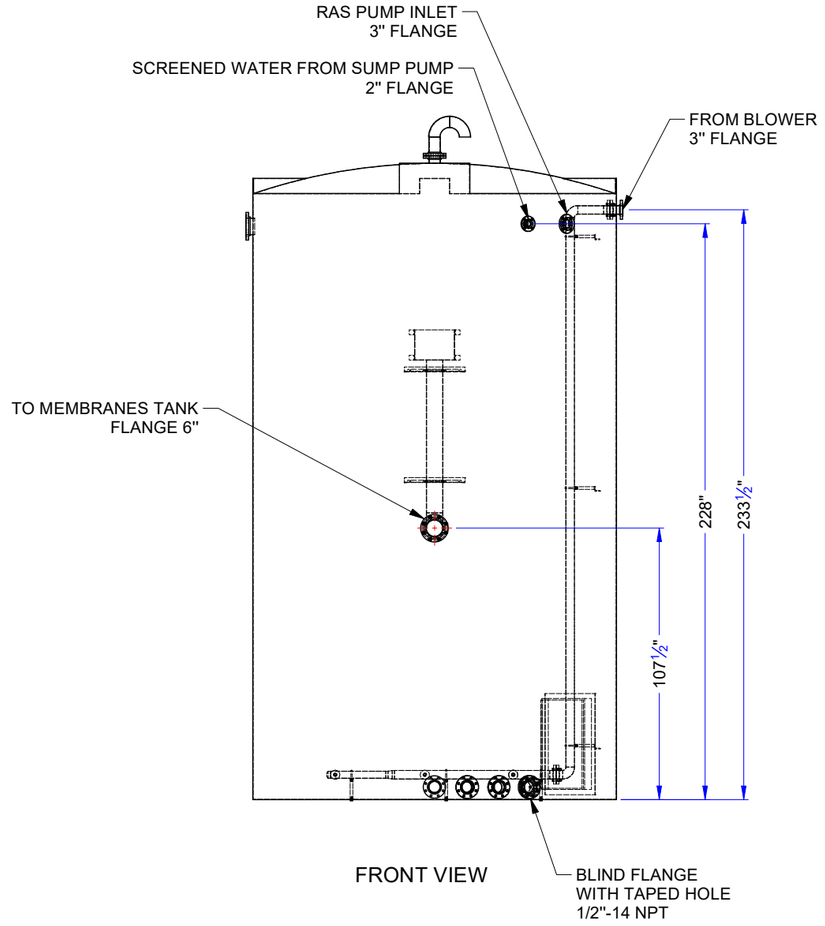
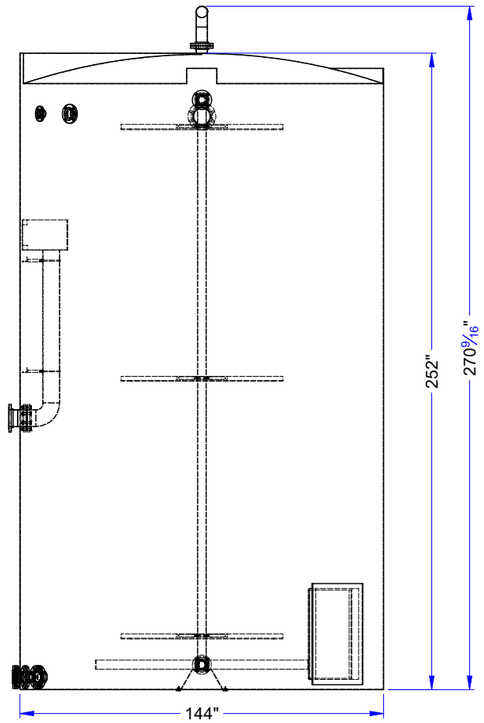
N/A	20C1131-B01-0001 SHEET: 4 OF 5	03





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