

TERMINATION POINT NOTES

TP 1
Void to new LTP buffer tank - untreated leachate

The new LTP TP 1 will terminate near the existing lagoon. It will connect to the buffer tank via a new trench (#2). Woodlawn operations will supply pumps and pipe to connect from the void to TP1

Woodlawn operations have an existing ~38kL buffer tank in the void. It has two mono pumps that will be replaced.

Woodlawn operations have an existing surface leachate pump that pumps to the lagoon. There are two options for this pump:

- 1) Leave it as is
- 2) Allow an option to pump to the new LTP buffer tank (recommended)

TP2
ED3 to new LTP buffer tank - lagoon treated leachate

The new LTP TP2 will terminate at an existing underground DN110 PE pipe. It will connect to the buffer tank via a new trench (#2). Currently 'treated leachate' is pumped from the lagoon to ED3 via an underground DN110 PE pipe. A mobile diesel pump will be used at ED3 to pump to the new LTP buffer tank. Woodlawn operations will supply valves and piping to connect TP2 to the existing DN110 PE pipe.

TP3
New LTP plant to ED1 - treated leachate

The new LTP TP3 will terminate at the end of trench #1. The final location is to be determined.

The new treated leachate tank and pump will use a new trench (#1) to route piping across roads to the existing pond ED1

TP4
New LTP plant - overflow, drain and sump

The new LTP TP4 will terminate at the existing lagoon using a new trench (#2). Tank failure and spills are collected and directed to a bund pit with a normally closed valve. If required, the valve is opened and the liquid is released to this drain.

TP5
Dewatered Sludge

Approximately 18m³ dewatered sludge will be generated each week. The proposed waste container is 10m³ which will require two waste truck trips per week from LTP to void

TP6
Bore water to new LTP

An existing bore water line runs parallel to the new haul road. Bore water is supplied to an existing tank via a 10L/s@70m bore water pump. Woodlawn operations will tee into this existing line and provide a connection point at the end of trench #1. Bore water will be supplied to the new LTP via this trench.

TP7
New LTP stormwater

Stormwater is collected and directed to a pit with a normally closed valve. When required, it is directed to ED1 via an existing culvert.

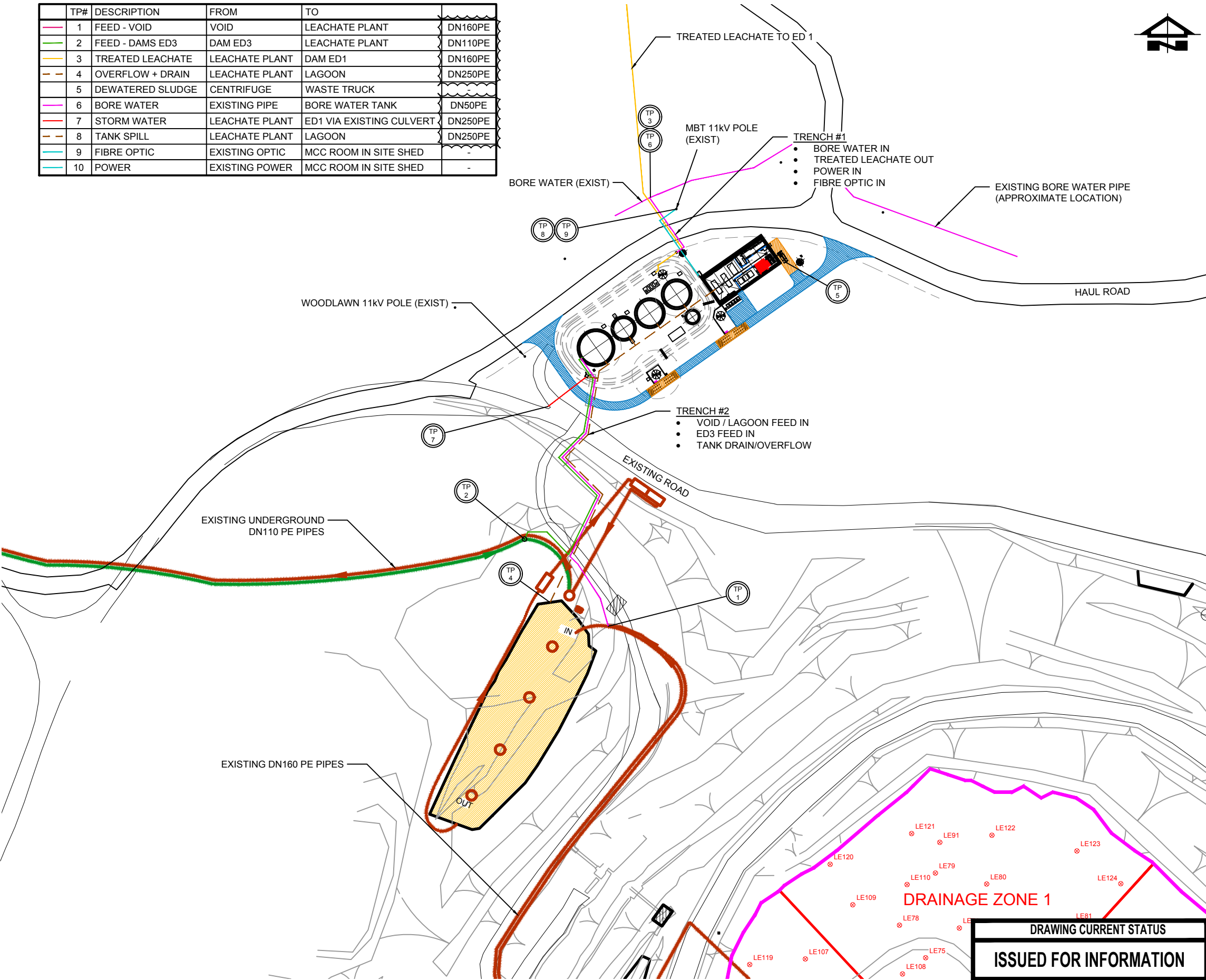
TP8
Fibre optic cable

Project electrician to bring cable from existing overhead power line to LTP via new trench (#1)

TP9
Power

Project electrician to bring power from existing overhead power line to kiosk via new trench (#1)

TP#	DESCRIPTION	FROM	TO	
1	FEED - VOID	VOID	LEACHATE PLANT	DN160PE
2	FEED - DAMS ED3	DAM ED3	LEACHATE PLANT	DN110PE
3	TREATED LEACHATE	LEACHATE PLANT	DAM ED1	DN160PE
4	OVERFLOW + DRAIN	LEACHATE PLANT	LAGOON	DN250PE
5	DEWATERED SLUDGE	CENTRIFUGE	WASTE TRUCK	
6	BORE WATER	EXISTING PIPE	BORE WATER TANK	DN50PE
7	STORM WATER	LEACHATE PLANT	ED1 VIA EXISTING CULVERT	DN250PE
8	TANK SPILL	LEACHATE PLANT	LAGOON	DN250PE
9	FIBRE OPTIC	EXISTING OPTIC	MCC ROOM IN SITE SHED	-
10	POWER	EXISTING POWER	MCC ROOM IN SITE SHED	-



DRAWING CURRENT STATUS
ISSUED FOR INFORMATION

FILE-NO. 00004-Z-00-D01-00-01
PLOTTED 24/2/17 -14:1pm

REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE
A_00	ISSUED FOR INFORMATION	PM	CG	-	24/02/2017

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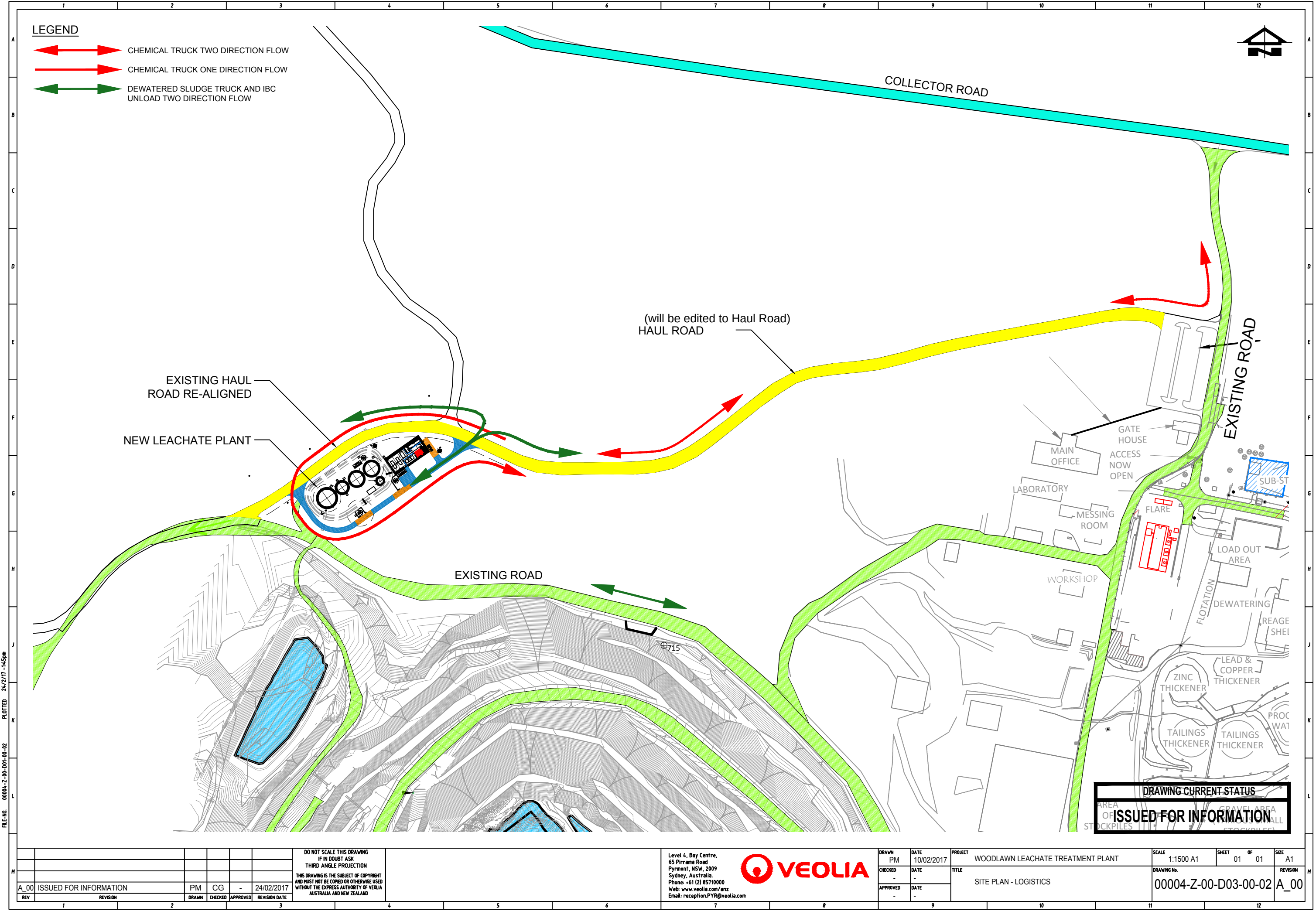
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DRAWN	DATE
PM	10/02/2017
CHECKED	DATE
-	-
APPROVED	DATE
-	-

PROJECT	WOODLAWN LEACHATE TREATMENT PLANT
TITLE	SITE PLAN - TP SCHEDULE

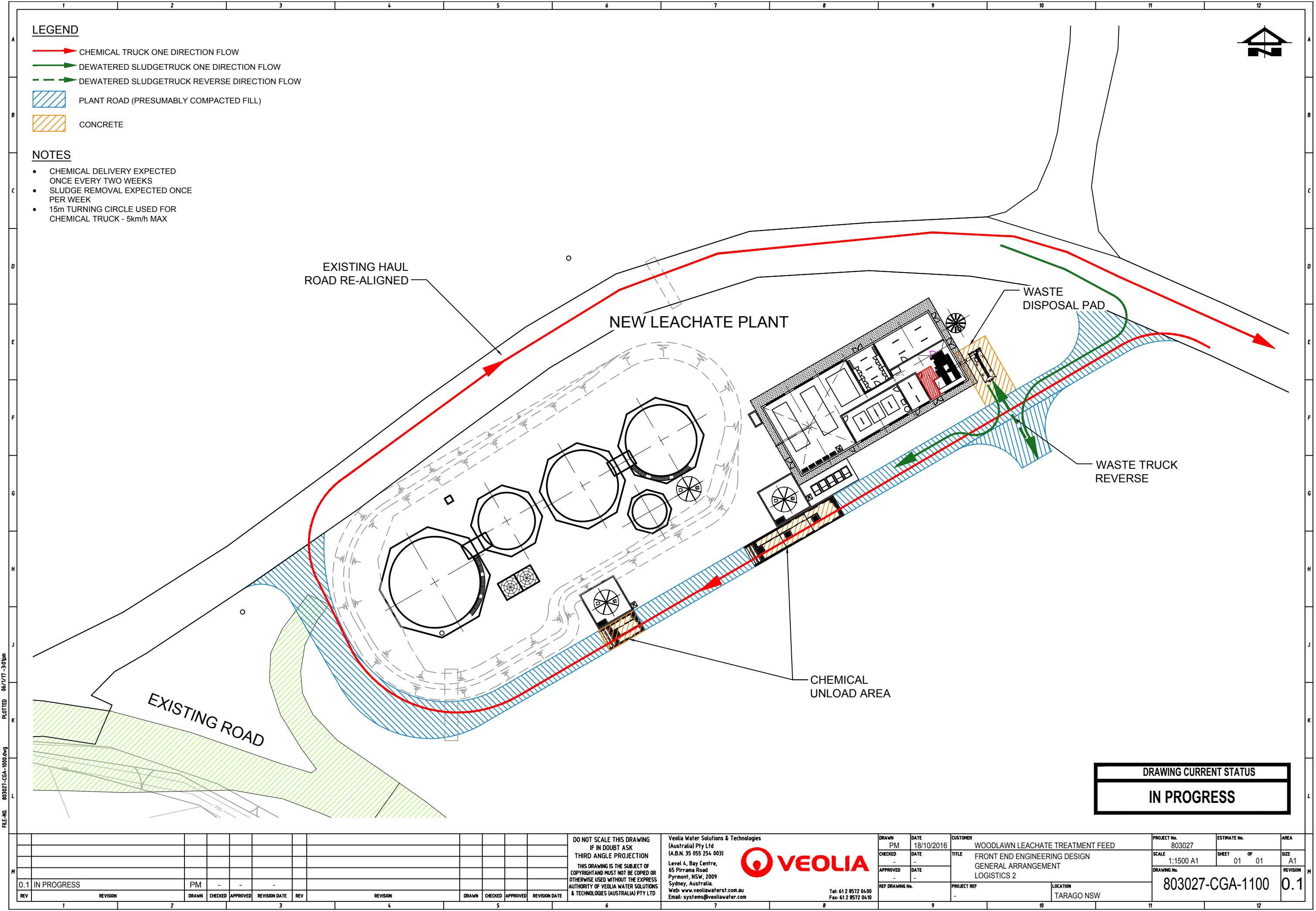
SCALE	1:1000 A1	SHEET	01	OF	01	SIZE	A1
DRAWING No.						REVISION	
00004-Z-00-D01-00-01						A_00	



- LEGEND**
- CHEMICAL TRUCK TWO DIRECTION FLOW
 - CHEMICAL TRUCK ONE DIRECTION FLOW
 - DEWATERED SLUDGE TRUCK AND IBC UNLOAD TWO DIRECTION FLOW

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A_00 ISSUED FOR INFORMATION			PM CG - 24/02/2017			DRAWN PM		CHECKED CG		APPROVED -		REVISION DATE 24/02/2017			
REV	1	REVISION	2	DRAWN	3	CHECKED	4	APPROVED	5	REVISION DATE	6	7	8	9	10



FILE-NO. 803027-CGA-1100.dwg PLOTTED 06/11/17 -3:03pm

REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE	REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE
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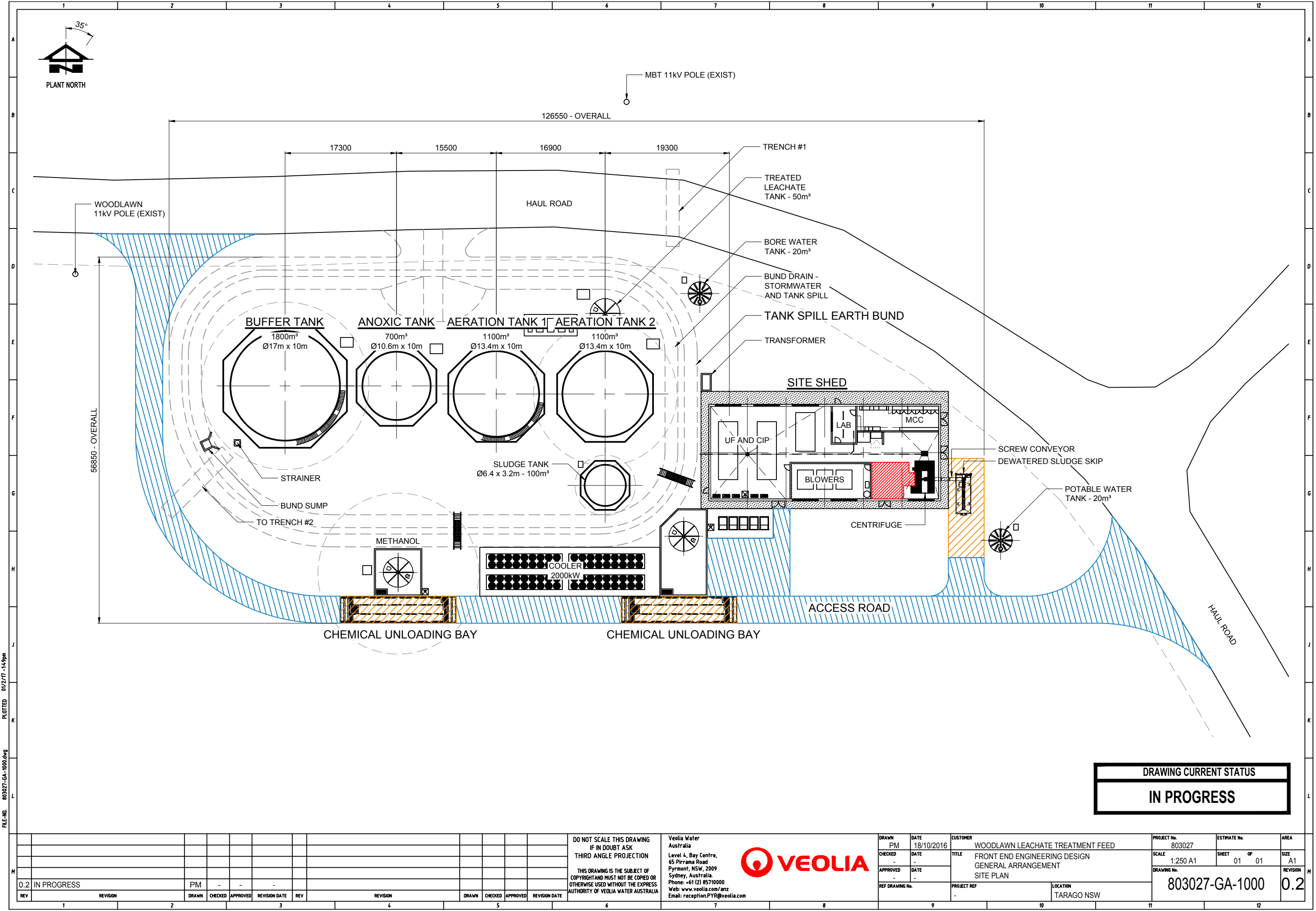
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DRAWN PM	DATE 18/10/2016	CUSTOMER WOODLAWN LEACHATE TREATMENT FEED	PROJECT No. 803027	ESTIMATE No.	AREA
CHECKED -	DATE -	TITLE FRONT END ENGINEERING DESIGN GENERAL ARRANGEMENT LOGISTICS 2	SCALE 1:1500 A1	SHEET 01	OF 01
APPROVED -	DATE -	PROJECT REF -	DRAWING No. 803027-CGA-1100	LOCATION TARAGO NSW	SIZE A1
REF DRAWING No.					REVISION 0.1



DRAWING CURRENT STATUS

IN PROGRESS

REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE	REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE
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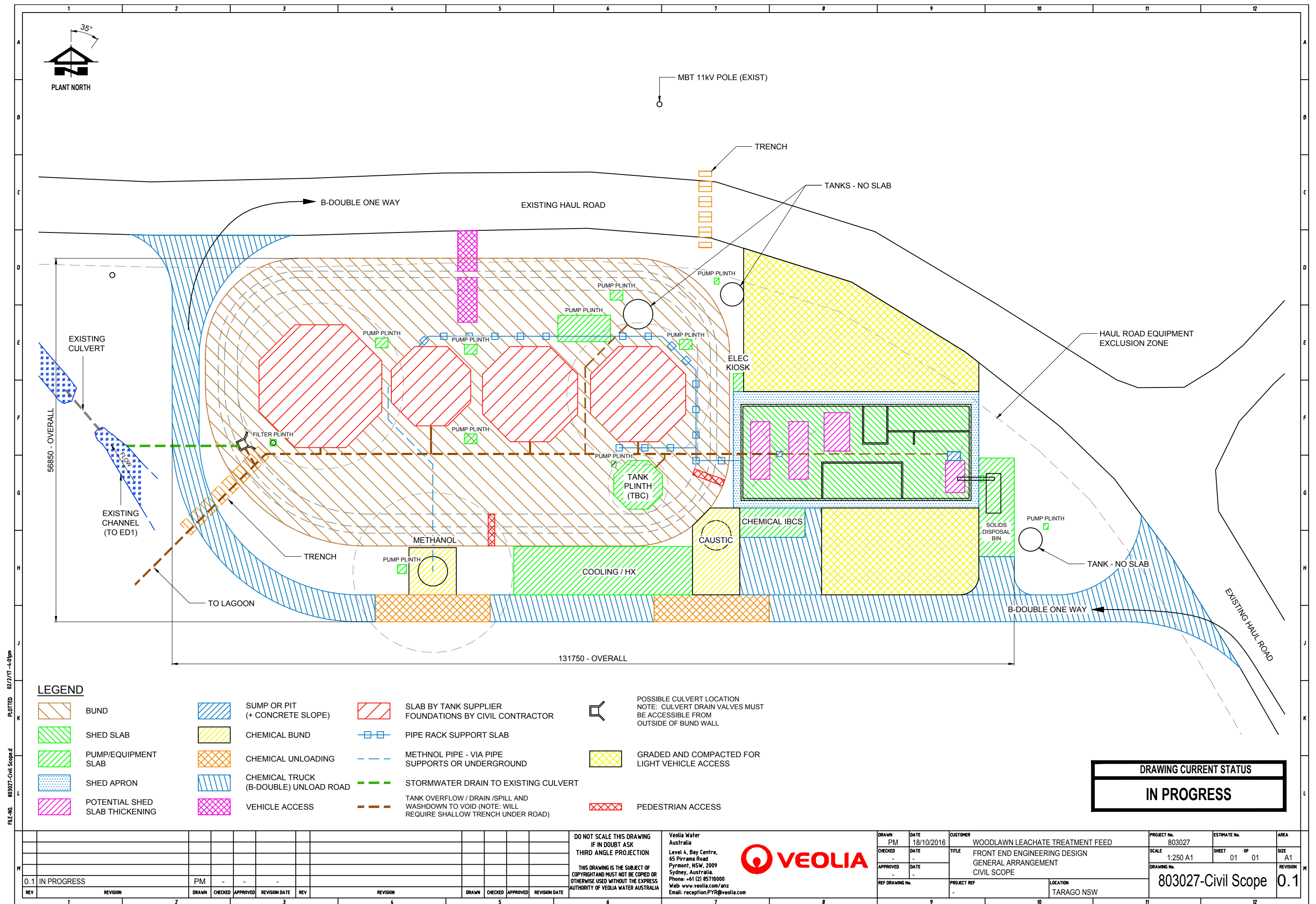
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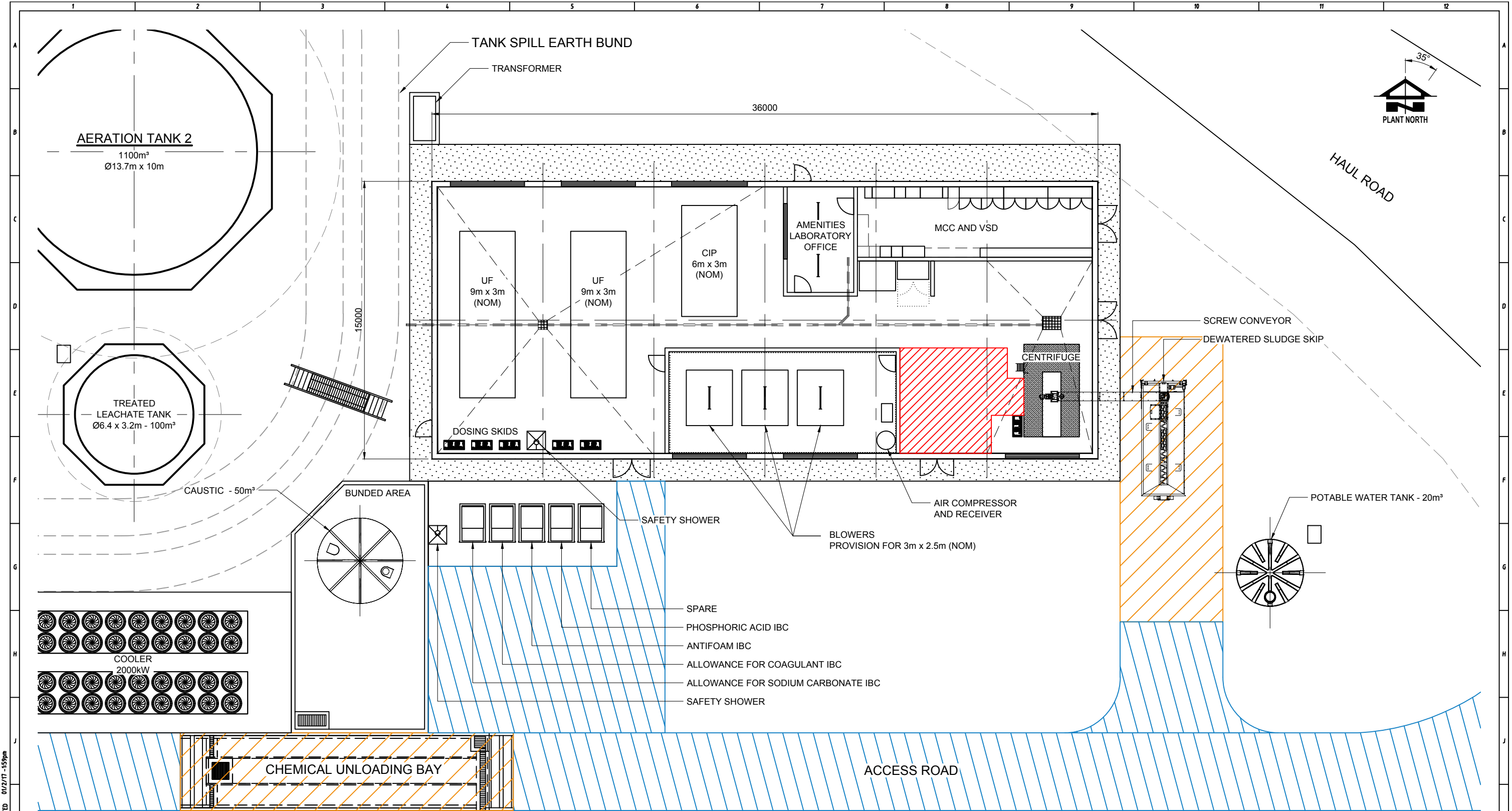


DRAWN	DATE
PM	18/10/2016
CHECKED	DATE
-	-
APPROVED	DATE
-	-

CUSTOMER	WOODLAWN LEACHATE TREATMENT FEED
TITLE	FRONT END ENGINEERING DESIGN GENERAL ARRANGEMENT SITE PLAN
PROJECT REF	-
LOCATION	TARAGO NSW

PROJECT No.	803027	ESTIMATE No.		AREA	
SCALE	1:250 A1	SHEET	01	OF	01
DRAWING No.	803027-GA-1000	SIZE	A1	REVISION	0.2





FILE-NO. 803027-GA-1000.dwg
PLOTED 01/2/17 -153pm

LEGEND

-  PLANT ROAD (PRESUMABLY COMPACTED FILL)
-  CONCRETE LOADING/UNLOADING PAD

DRAWING CURRENT STATUS
ISSUED FOR REVIEW

REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE	REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE
B	IN PROGRESS	PM	-	-	-						
A	ISSUED FOR REVIEW	PM	CG	-	21/10/2016						

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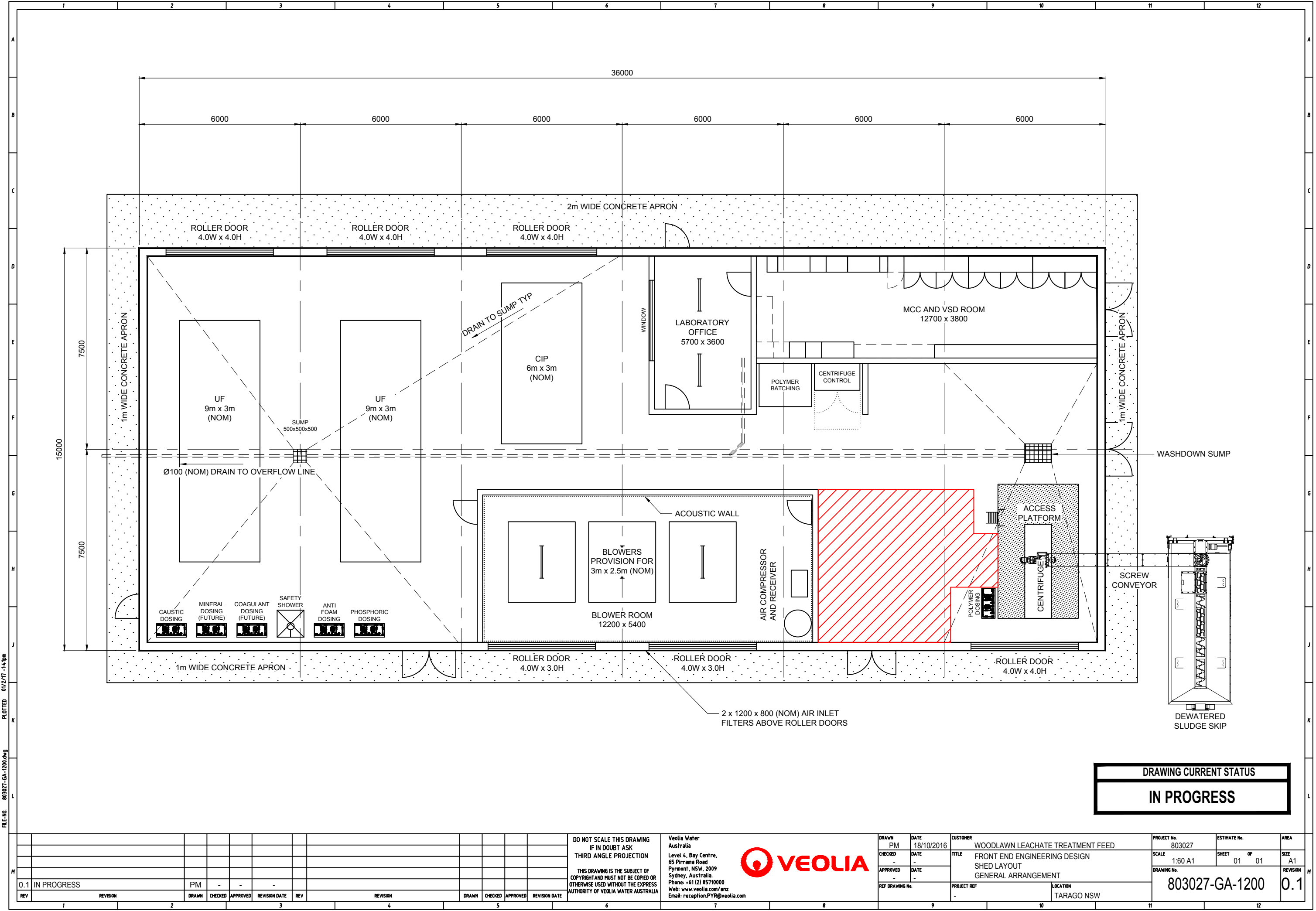
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DRAWN	DATE
PM	18/10/2016
CHECKED	DATE
-	-
APPROVED	DATE
-	-

CUSTOMER	WOODLAWN LEACHATE TREATMENT FEED
TITLE	FRONT END ENGINEERING DESIGN GENERAL ARRANGEMENT SHED AND DOSING PLAN
PROJECT REF	-
LOCATION	TARAGO NSW

PROJECT No.	803027	ESTIMATE No.	-	AREA	-
SCALE	1:100 A1	SHEET	01	OF	01
DRAWING No.	803027-GA-1100	SIZE	A1	REVISION	B



DRAWING CURRENT STATUS

IN PROGRESS

REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE	REV	REVISION	DRAWN	CHECKED	APPROVED	REVISION DATE
0.1	IN PROGRESS	PM	-	-	-						

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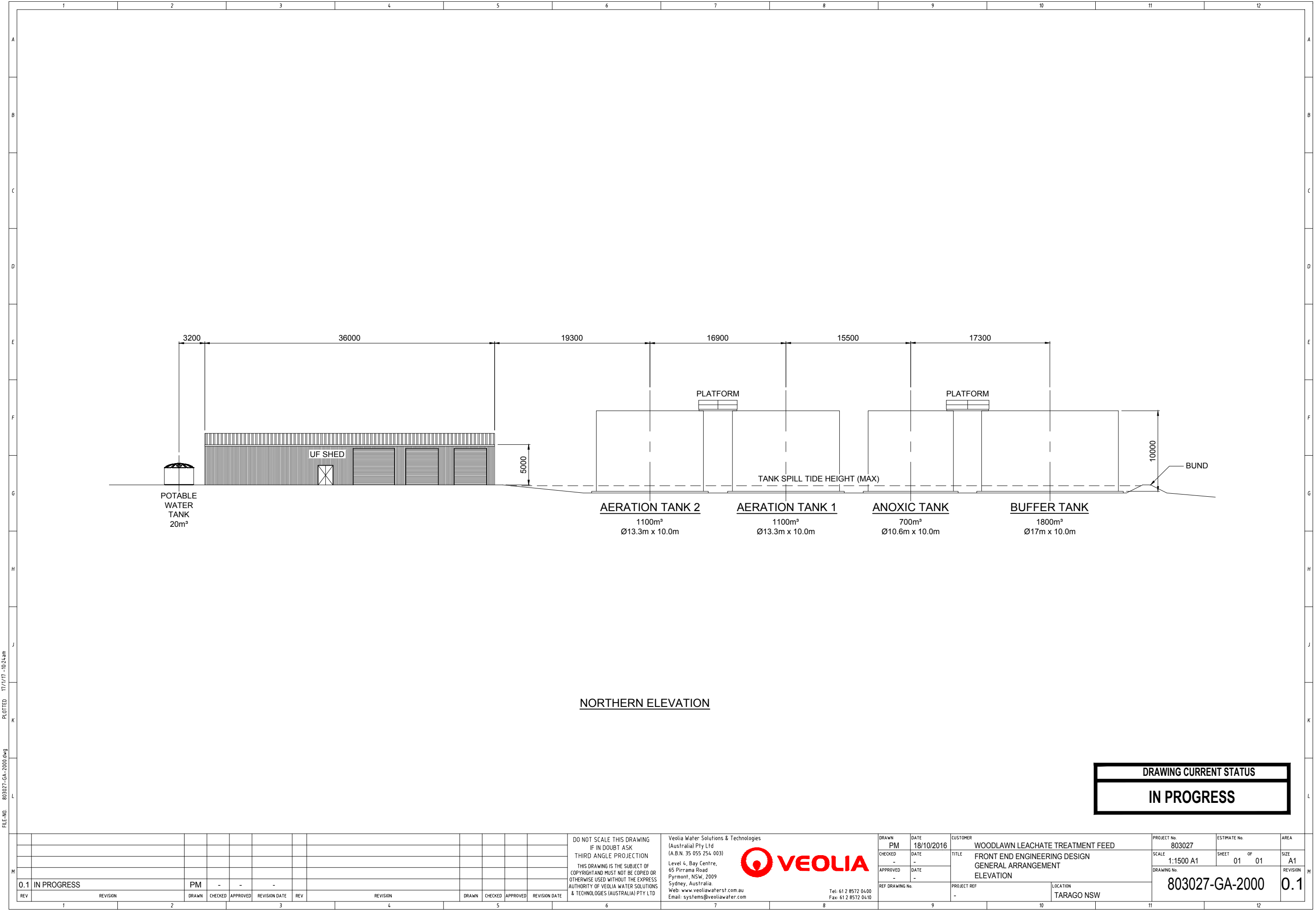
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DRAWN	PM	DATE	18/10/2016
CHECKED	-	DATE	-
APPROVED	-	DATE	-

CUSTOMER	WOODLAWN LEACHATE TREATMENT FEED
TITLE	FRONT END ENGINEERING DESIGN SHED LAYOUT GENERAL ARRANGEMENT
PROJECT REF	-
LOCATION	TARAGO NSW

PROJECT No.	803027	ESTIMATE No.	-	AREA	-
SCALE	1:60 A1	SHEET	01	OF	01
DRAWING No.	803027-GA-1200	SIZE	A1	REVISION	0.1



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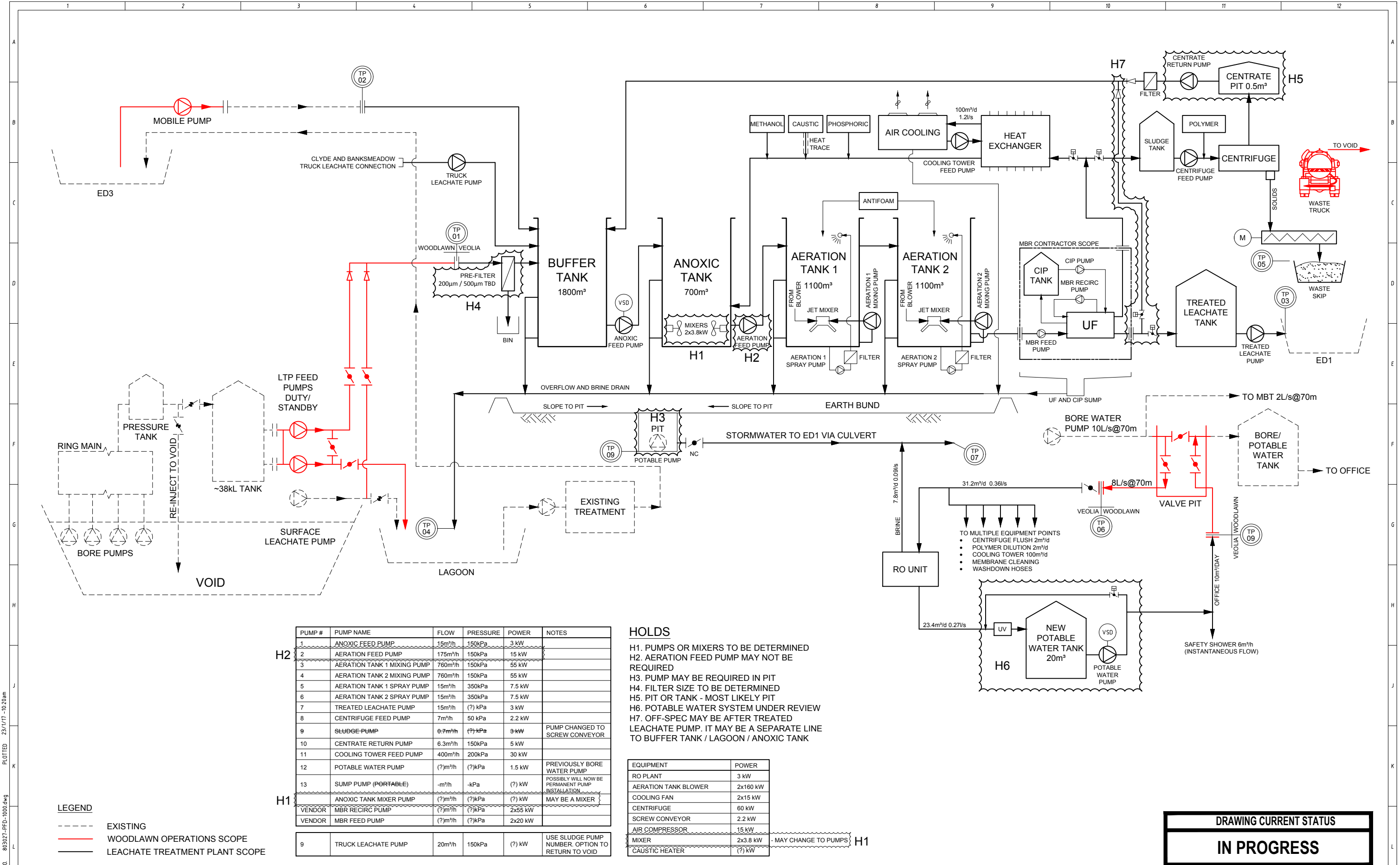
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DRAWN PM	DATE 18/10/2016	CUSTOMER WOODLAWN LEACHATE TREATMENT FEED		PROJECT No. 803027	ESTIMATE No.	AREA	
CHECKED -	DATE -	TITLE	FRONT END ENGINEERING DESIGN GENERAL ARRANGEMENT ELEVATION	SCALE 1:1500 A1	SHEET 01 OF 01	SIZE A1	
APPROVED	DATE	PROJECT REF -			DRAWING No. 803027-GA-2000		REVISION 0.1
REF DRAWING No.					LOCATION TARAGO NSW		



PUMP #	PUMP NAME	FLOW	PRESSURE	POWER	NOTES
1	ANOXIC FEED PUMP	15m³/h	150kPa	3 kW	
2	AERATION FEED PUMP	175m³/h	150kPa	15 kW	
3	AERATION TANK 1 MIXING PUMP	780m³/h	150kPa	55 kW	
4	AERATION TANK 2 MIXING PUMP	780m³/h	150kPa	55 kW	
5	AERATION TANK 1 SPRAY PUMP	15m³/h	350kPa	7.5 kW	
6	AERATION TANK 2 SPRAY PUMP	15m³/h	350kPa	7.5 kW	
7	TREATED LEACHATE PUMP	15m³/h	(?) kPa	3 kW	
8	CENTRIFUGE FEED PUMP	7m³/h	50 kPa	2.2 kW	
9	SLUDGE PUMP	0.7m³/h	(?) kPa	3 kW	PUMP CHANGED TO SCREW CONVEYOR
10	CENTRATE RETURN PUMP	6.3m³/h	150kPa	5 kW	
11	COOLING TOWER FEED PUMP	400m³/h	200kPa	30 kW	
12	POTABLE WATER PUMP	(?)m³/h	(?)kPa	1.5 kW	PREVIOUSLY BORE WATER PUMP
13	SUMP PUMP (PORTABLE)	-m³/h	-kPa	(?) kW	POSSIBLY WILL NOW BE PERMANENT PUMP INSTALLATION
H2	ANOXIC TANK MIXER PUMP	(?)m³/h	(?)kPa	(?) kW	MAY BE A MIXER
VENDOR	MBR RECIRC PUMP	(?)m³/h	(?)kPa	2x55 kW	
VENDOR	MBR FEED PUMP	(?)m³/h	(?)kPa	2x20 kW	
9	TRUCK LEACHATE PUMP	20m³/h	150kPa	(?) kW	USE SLUDGE PUMP NUMBER. OPTION TO RETURN TO VOID

HOLDS

- H1. PUMPS OR MIXERS TO BE DETERMINED
H2. AERATION FEED PUMP MAY NOT BE REQUIRED
H3. PUMP MAY BE REQUIRED IN PIT
H4. FILTER SIZE TO BE DETERMINED
H5. PIT OR TANK - MOST LIKELY PIT
H6. POTABLE WATER SYSTEM UNDER REVIEW
H7. OFF-SPEC MAY BE AFTER TREATED LEACHATE PUMP. IT MAY BE A SEPARATE LINE TO BUFFER TANK / LAGOON / ANOXIC TANK

EQUIPMENT	POWER
RO PLANT	3 kW
AERATION TANK BLOWER	2x160 kW
COOLING FAN	2x15 kW
CENTRIFUGE	60 kW
SCREW CONVEYOR	2.2 kW
AIR COMPRESSOR	15 kW
MIXER	2x3.8 kW
CAUSTIC HEATER	(?) kW

- MAY CHANGE TO PUMPS H1

DRAWING CURRENT STATUS
IN PROGRESS