

## **APPENDIX K-1: Contact Water Pond Design**

July 6, 2017

File No.:VA101-00460/03-A.01  
Cont. No.:VA17-01137

*Mr. Jerry Zieg*  
*Vice President, Exploration*  
*Tintina Resources Inc. (Vancouver)*  
*10<sup>th</sup> Floor - 595 Howe Street*  
*Vancouver, British Columbia*  
*Canada, V7X 1A6*

Dear Jerry,

**Re: Updated Brine and Contact Water Pond Design**

Knight Piésold Ltd. (KP) was requested by Tintina Resource Inc. (TRI) to update the design and drawings of the Brine and Contact Water Pond (BCWP) for the Black Butte Copper Project (the Project) Mine Operating Permit Application (MOPA). The initial pond designs included in the December 2015 MOPA document were originally completed by Tetra Tech.

**DESIGN CONCEPTS**

The primary purpose of the BCWP is to temporarily store all brine (the by-product of the water treatment process) produced during construction and contact water produced during construction and operations. The brine will be transferred to the Process Water Pond (PWP) after the construction of the PWP is complete. Contact water will be pumped to the water treatment plant and released via the underground infiltration gallery once construction of those two facilities is complete. Contact water run-off from the mill, portal pad, and temporary waste dump catchment areas will be directed to the BCWP for temporary storage during operations.

The BCWP will remain operational throughout the life of the mine to provide temporary storage of contact water and underground mine water on an as needed basis. The facility will be kept drained to the greatest degree possible when temporary storage is not required.

The BCWP is a lined facility, located immediately south of the portal pad. The brine and contact water will be kept in separate cells, separated by a berm. These cells will be referred to as the “brine pond” and “contact water pond”. Drawing C1001 shows the mine site general arrangement and location of the BCWP. Drawings C9001 and C9002 show the grading plan and layout of the BCWP.

**BRINE POND**

The brine pond is located on the west side of the BCWP, and consists of a double lined facility that will store brine from the water treatment plant during pre-production. It will utilize a double liner system with an integrated seepage collection and recycle system.

The brine pond has a design capacity of 21,000 m<sup>3</sup>, with an additional capacity of 4,000 m<sup>3</sup> to accommodate operational variances or direct precipitation from a 1 in 200 year storm event. A 1 m freeboard allowance is included above the maximum pond level.

**LINER SYSTEM**

The liner system is a double liner that comprises a layer of high flow 7.6 mm geo-net placed between two layers of 60 mil HDPE geomembrane. A 300 mm protective layer of sub-grade bedding material will be placed below the liner system.

Details of the liner system are shown on Drawing C9003. Sub-grade bedding material specifications are included on Drawing C0003.

#### SEEPAGE COLLECTION AND RECYCLE SYSTEM

The seepage collection and recycle system will collect seepage through the upper HDPE geomembrane and direct it through the geonet, via gravity, to a sump and pump system at a low point along the east side of the brine pond cell. Water collected in the sump will be pumped through a riser pipe to the embankment crest and returned to the brine pond. An underlying subgrade bedding layer will be installed to protect the lining system.

The sump and pump system between the HDPE geomembrane layers will consist of a sump filled with drainage gravel that is deep enough to allow the effective operation of a submersible pump that can be raised and lowered through a protective pipe. The bottom of the pipe will be perforated (in the sump) for pump operation. An additional pipe is included for redundancy. The pump will have a high/low water level primer to control pumping (switch on when the water level reaches a high water mark and switch off when the water level reaches the low water mark).

Details of the seepage collection and recycle system are shown on Drawing C9004. Material specifications for drainage gravel are included on Drawing C0003.

#### BRINE RECLAIM AND PUMP SYSTEM

The reclaim system is designed to pump brine to the PWP, from full capacity to empty, over a two week period. The intake for the reclaim system includes a 30 HP vertical turbine submersible pump, located at the southeast corner of the brine pond. A stand-by pump will be provided as back-up. The pump intake line will be installed down the side of the pond.

A ND 100 mm DR17 HDPE pipeline will convey brine to the PWP. The pipeline alignment follows the mine site access road, and crosses the main haul road between the mill and PWP. The pipeline will be anchored with earthen berms as required. The pipeline will discharge off the crest of the PWP.

Plans and details of the pump system and pipeline alignment are shown on Drawings C9005 and C9006.

#### CONTACT WATER POND

The contact water pond is a single lined cell located on the east side of the BCWP. The purpose of the facility is to contain run-off and contact water from the mill, portal pad, and temporary waste rock storage pad areas, as well as water from underground mine dewatering. It will be used during pre-production and operations.

The contact water pond has a design capacity of 70,000 m<sup>3</sup>. It is sized to store run-off from the mill, portal pad, and temporary waste rock pad catchment areas during a 1 in 200 year storm event, which is approximately 35,000 m<sup>3</sup>. The remaining 35,000 m<sup>3</sup> is provided to store water from underground mine dewatering in the event of a surge or if the water treatment plant is not operational. A 1 m freeboard allowance is included above the maximum pond elevation.

#### LINER SYSTEM

The liner system comprises of a single 60 mil HDPE geomembrane liner placed over a 300 mm thick protective layer of sub-grade bedding material. Details of the liner system are shown on Drawing C9003.

#### CONTACT WATER RECLAIM AND PUMP SYSTEM

The reclaim system is designed to pump water to the water treatment plant, from full capacity to empty, over a two week period. The intake for the reclaim system includes a 50 HP vertical turbine submersible pump, located at the southeast corner of the contact water pond. A stand-by pump will be provided as back-up. The pump intake line will be installed down the side of the pond.

A ND 200 mm DR21 HDPE pipeline will convey contact water to the water treatment plant. The pipeline alignment follows the mine site access road. The pipeline will be anchored with earthen berms as required.

Plans and details of the pump system and pipeline alignment are shown on Drawings C9005 and C9006.

Yours truly,  
**Knicht Piésold Ltd.**

Prepared:

  
\_\_\_\_\_  
Greg Magoon, P.Eng.  
Project Engineer

Reviewed:

  
\_\_\_\_\_  
Ken Embree, P.Eng.  
Managing Principal

Reviewed:

  
\_\_\_\_\_  
Ken Brouwer, P.Eng.  
President

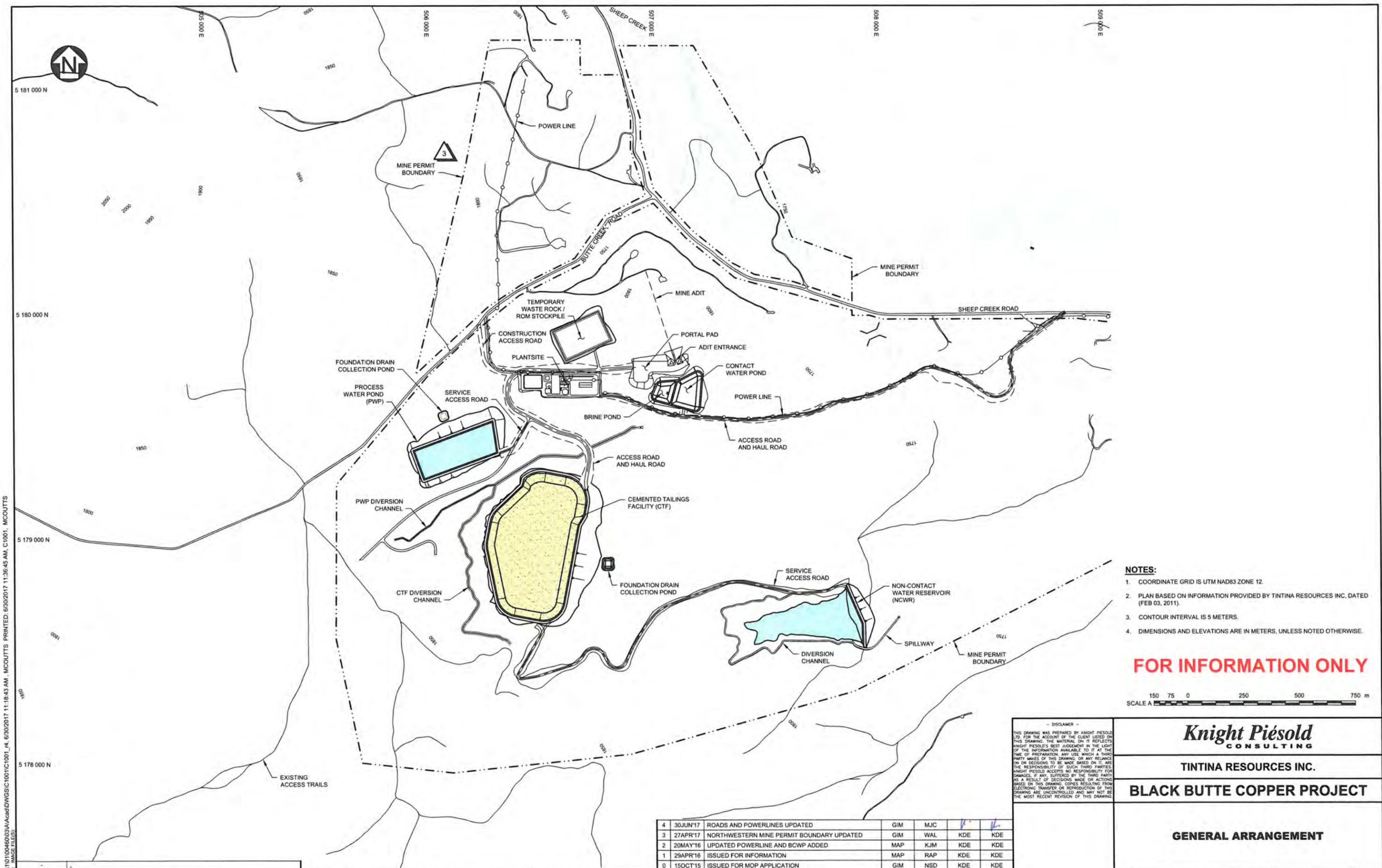
Approval that this document adheres to Knicht Piésold Quality Systems:

Attachments:

Drawing C0003 Rev 0	Construction Material Specifications
Drawing C1001 Rev 4	General Arrangement
Drawing C9001 Rev 1	Brine and Contact Water Pond – Grading Plan
Drawing C9002 Rev 1	Brine and Contact Water Pond – General Arrangement and Line System Layout Plan
Drawing C9003 Rev 1	Brine and Contact Water Pond – General Arrangement Sections and Details
Drawing C9004 Rev 0	Brine Pond Seepage Collection and Recycling System – Plan, Profile, Section and Detail
Drawing C9005 Rev 0	Brine and Contact Water Pond – Water Management System Piping and Instrumentation Diagram
Drawing C9006 Rev 1	Brine and Contact Water Reclaim – Pipeline System Layout Plan

Copy To: Allan Kirk





- NOTES:**
1. COORDINATE GRID IS UTM NAD83 ZONE 12.
  2. PLAN BASED ON INFORMATION PROVIDED BY TINTINA RESOURCES INC, DATED (FEB 03, 2011).
  3. CONTOUR INTERVAL IS 5 METERS.
  4. DIMENSIONS AND ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.

**FOR INFORMATION ONLY**



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**Knight Piesold**  
 CONSULTING

TINTINA RESOURCES INC.

**BLACK BUTTE COPPER PROJECT**

**GENERAL ARRANGEMENT**

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED
4	30JUN'17	ROADS AND POWERLINES UPDATED	GIM	MJC	KDE	KDE
3	27APR'17	NORTHWESTERN MINE PERMIT BOUNDARY UPDATED	GIM	WAL	KDE	KDE
2	20MAY'16	UPDATED POWERLINE AND BCWP ADDED	MAP	KJM	KDE	KDE
1	29APR'16	ISSUED FOR INFORMATION	MAP	RAP	KDE	KDE
0	15OCT'15	ISSUED FOR MOP APPLICATION	GIM	NSD	KDE	KDE

DRG. NO.	DESCRIPTION	REV	DATE
	REFERENCE DRAWINGS		

DESIGNED	DRAWN	REVIEWED	APPROVED

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED

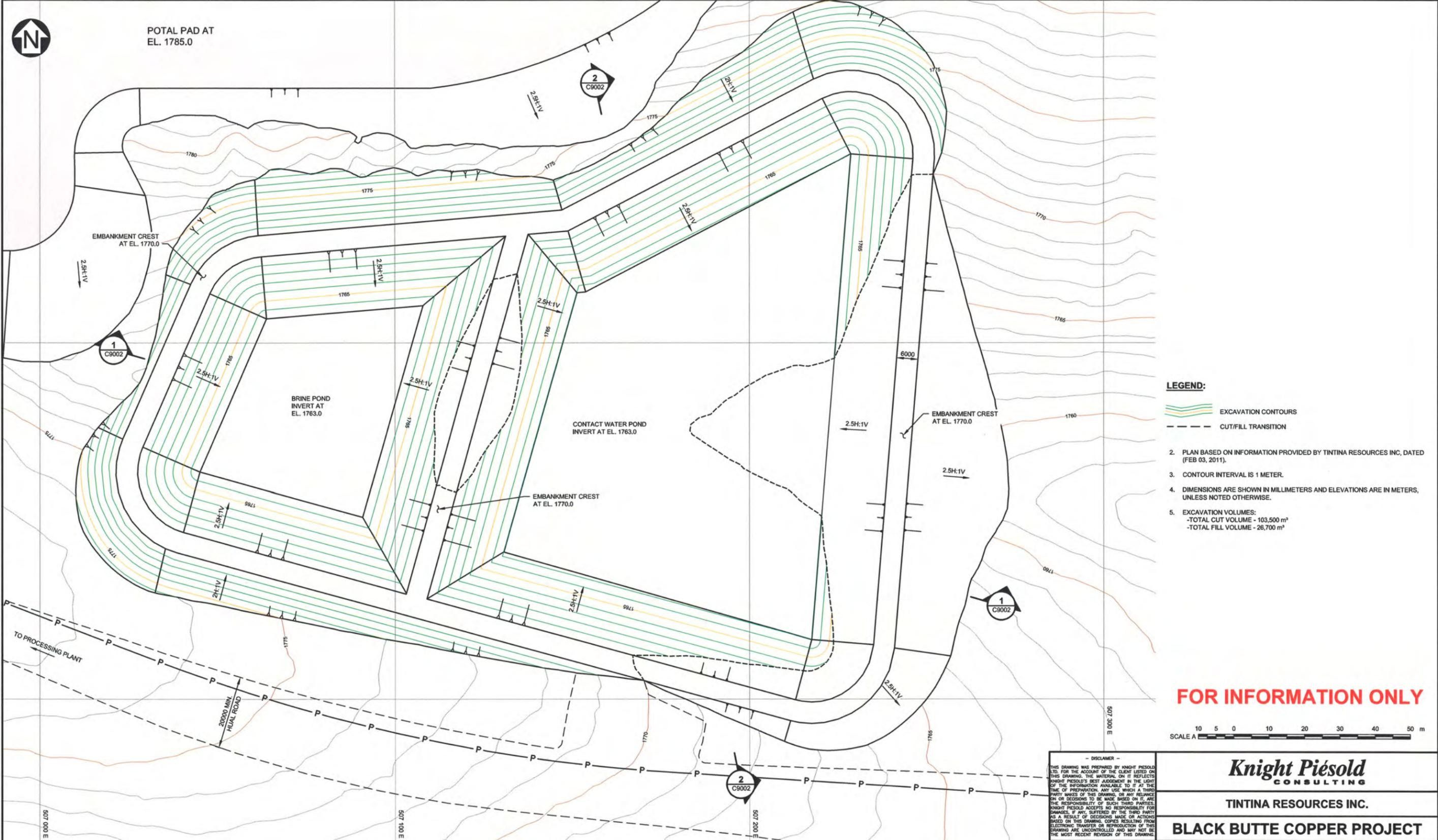
PIA NO.

**VA101-460/3**

DRAWING NO.  
**C1001**

REVISION  
**4**

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 (REF FILES) IMAGE FILE(S)



POTAL PAD AT  
EL. 1785.0

EMBANKMENT CREST  
AT EL. 1770.0

BRINE POND  
INVERT AT  
EL. 1763.0

CONTACT WATER POND  
INVERT AT EL. 1763.0

EMBANKMENT CREST  
AT EL. 1770.0

EMBANKMENT CREST  
AT EL. 1770.0

TO PROCESSING PLANT

20000 MIN.  
RURAL ROAD

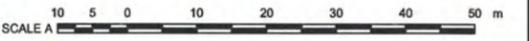
PLAN  
SCALE A

**LEGEND:**

- EXCAVATION CONTOURS
- CUT/FILL TRANSITION

2. PLAN BASED ON INFORMATION PROVIDED BY TINTINA RESOURCES INC, DATED (FEB 03, 2011).
3. CONTOUR INTERVAL IS 1 METER.
4. DIMENSIONS ARE SHOWN IN MILLIMETERS AND ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
5. EXCAVATION VOLUMES:  
-TOTAL CUT VOLUME - 103,500 m<sup>3</sup>  
-TOTAL FILL VOLUME - 26,700 m<sup>3</sup>

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**Knight Piésold**  
CONSULTING

TINTINA RESOURCES INC.

**BLACK BUTTE COPPER PROJECT**

**BRINE AND CONTACT WATER POND  
GRADING PLAN**

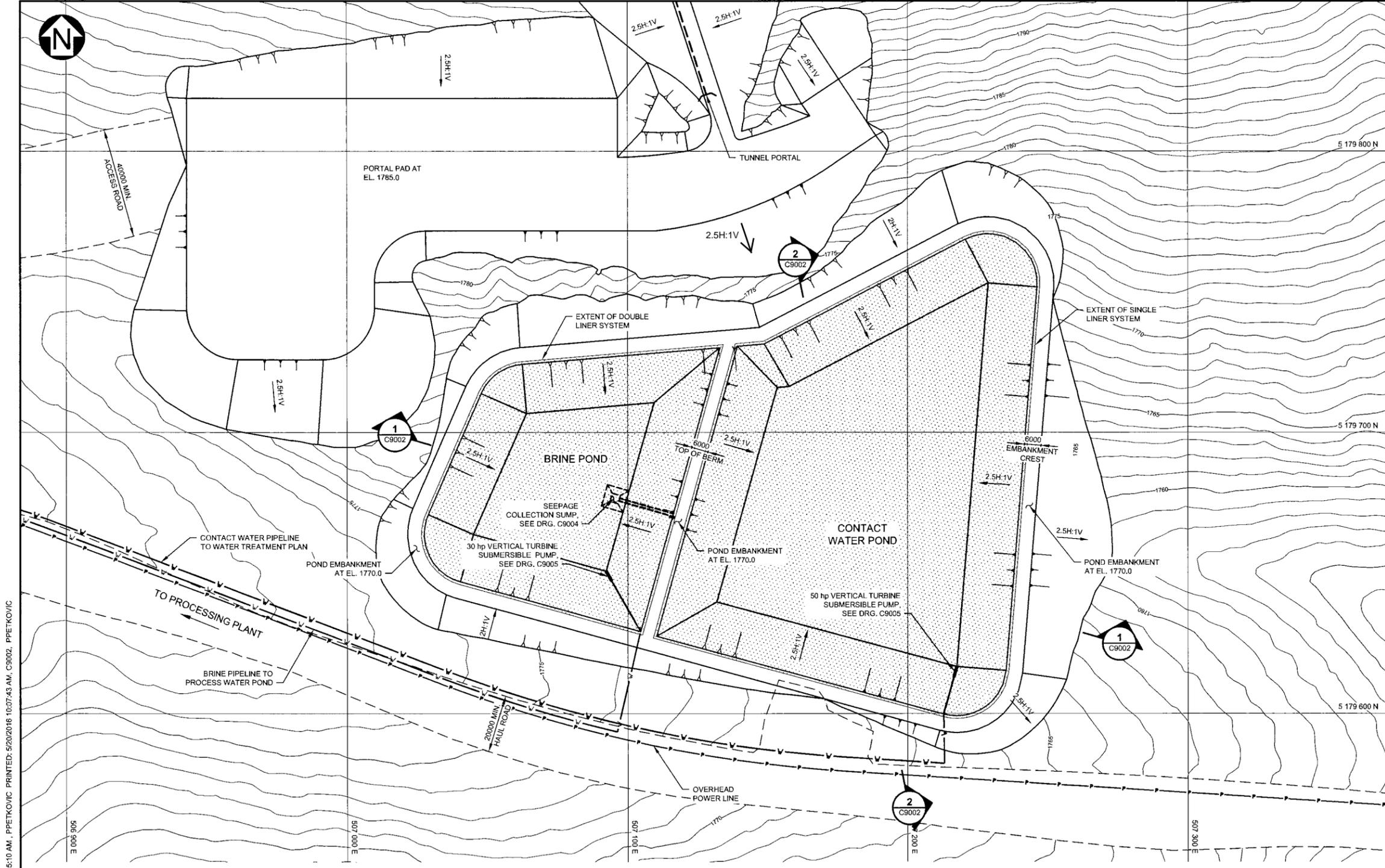
C9003	CONTACT WATER POND - GENERAL ARRANGEMENT - SECTIONS AND DETAILS
C9002	CONTACT WATER POND - GENERAL ARRANGEMENT - PLAN
DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

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REVISIONS						

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0	29APR'16	ISSUED FOR INFORMATION	GIM	RAP	KDE	KDE
REVISIONS						

PIA NO.	DRAWING NO.	REVISION
VA101-460/3	C9001	1

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- NOTES:**
- COORDINATE GRID IS UTM NAD83 ZONE 12N.
  - PLAN BASED ON INFORMATION PROVIDED BY TINTINA RESOURCES INC., DATED (FEB 03, 2011).
  - CONTOUR INTERVAL IS 1 METER.
  - DIMENSIONS ARE SHOWN IN MILLIMETERS AND ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
  - POND DESIGN CRITERIA:  
 BRINE POND:  
 - INVERT = 1763.0 m  
 - DESIGN WATER LEVEL = 1768.0 m  
 - DESIGN CAPACITY = 21,000 m<sup>3</sup>  
 CONTACT WATER POND:  
 - INVERT = 1763.0 m  
 - DESIGN WATER LEVEL = 1769.0 m  
 - DESIGN CAPACITY = 70,000 m<sup>3</sup>

**FOR INFORMATION ONLY**



**PLAN**  
SCALE A

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C9004	BRINE POND - SEEPAGE COL. & REC. SYS. - PLAN, PROF, SECT & DETL.						
C9003	CONTACT WATER POND - GENERAL ARRANGEMENT - SECTIONS AND DETAILS						
C9001	CONTACT WATER POND - GRADING PLAN						

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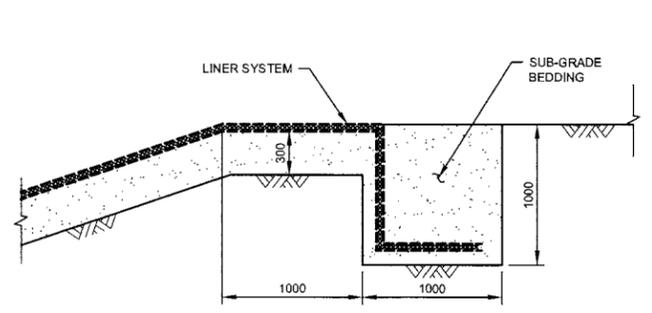
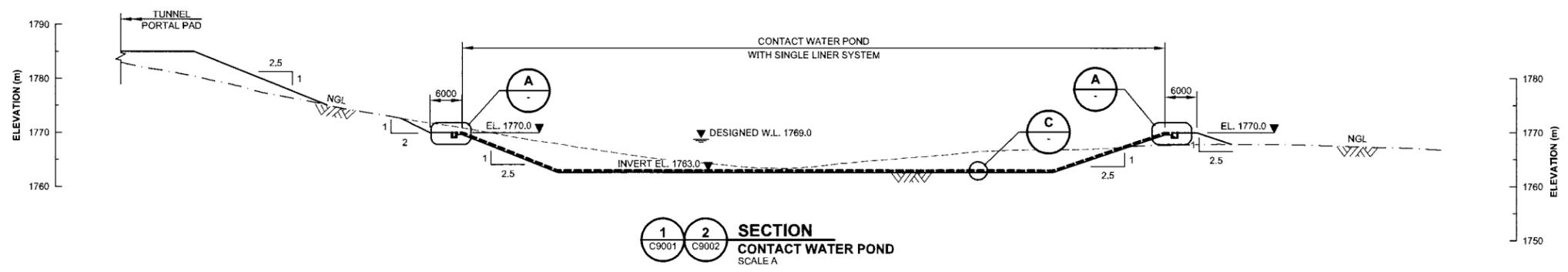
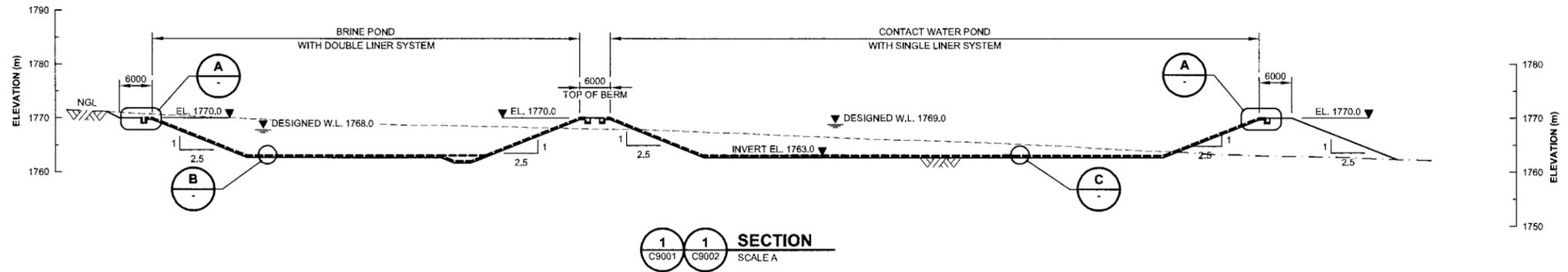
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0	29APR'16	ISSUED FOR INFORMATION	GIM	RAP	KDE	KDE

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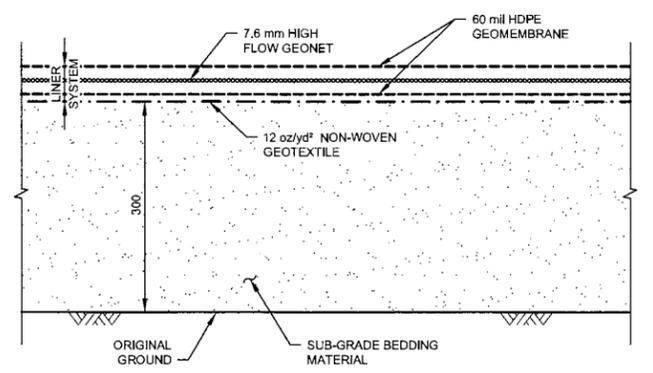
***Knicht Piesold***  
 CONSULTING  
 TINTINA RESOURCES INC.  
**BLACK BUTTE COPPER PROJECT**  
**BRINE AND CONTACT WATER POND**  
**GENERAL ARRANGEMENT**  
**AND**  
**LINE SYSTEM LAYOUT**  
**PLAN**

P/A NO. <b>VA101-460/3</b>	DRAWING NO. <b>C9002</b>	REVISION <b>1</b>
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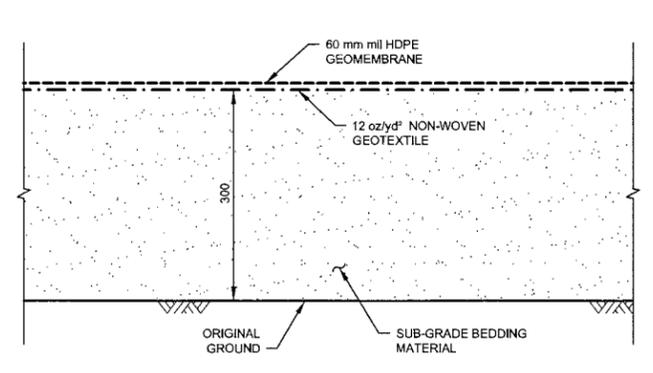
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**A** TYPICAL DETAIL  
LINER SYSTEM ANCHORING  
TRENCH DETAIL  
N.T.S.



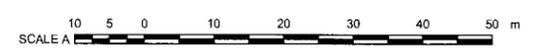
**B** DETAIL  
DOUBLE LINER SYSTEM  
N.T.S.



**C** DETAIL  
SINGLE LINER SYSTEM  
N.T.S.

- NOTES:**
- COORDINATE GRID IS UTM NAD83 ZONE 12N.
  - ORIGINAL GROUND PROFILE BASED ON INFORMATION PROVIDED BY TINTINA RESOURCES INC, DATED (FEB 03, 2011).
  - DIMENSIONS ARE SHOWN IN MILLIMETERS AND ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
  - SEE DRAWING C0003 FOR CONSTRUCTION MATERIAL SPECIFICATIONS.

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***Knicht Piésold***  
CONSULTING

TINTINA RESOURCES INC.

**BLACK BUTTE COPPER PROJECT**

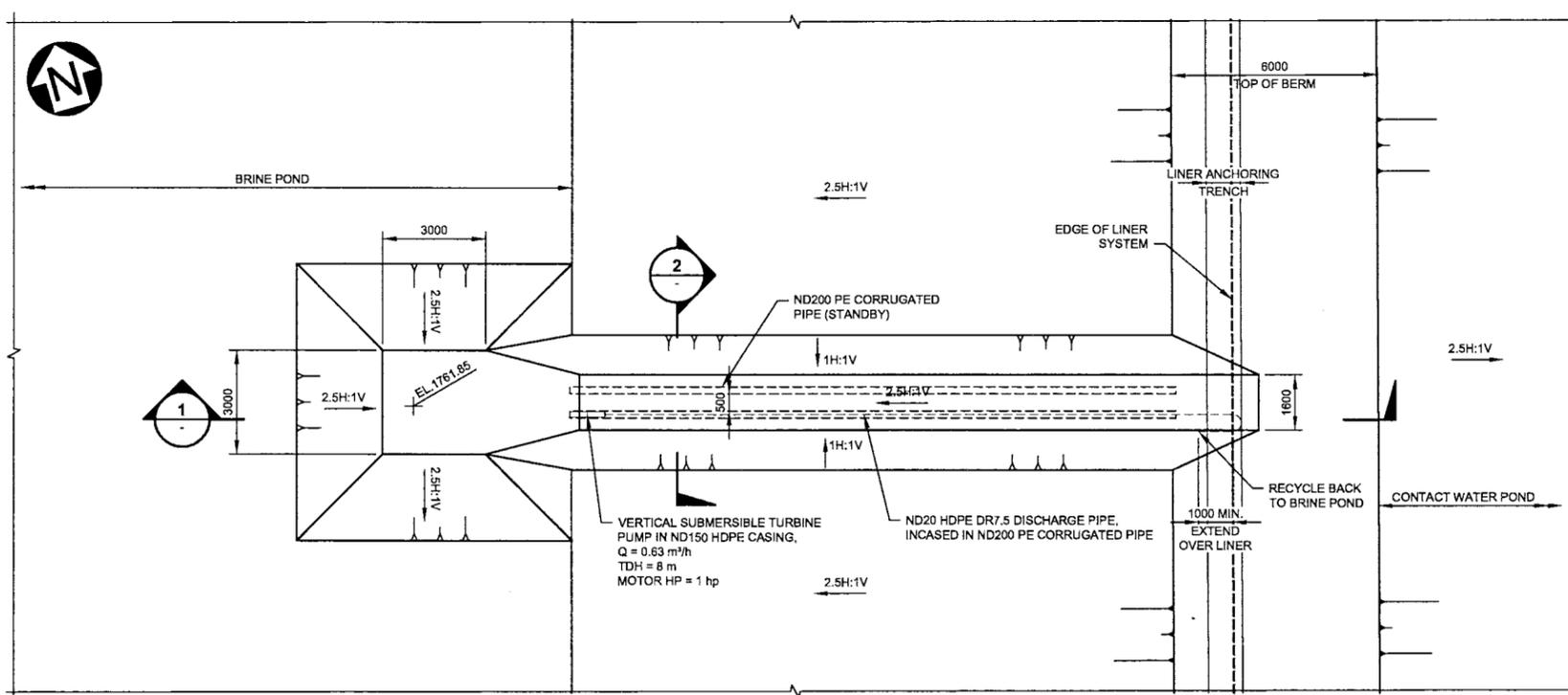
**BRINE AND CONTACT WATER POND  
GENERAL ARRANGEMENT  
SECTIONS AND DETAILS**

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C9001	CONTACT WATER POND - GRADING PLAN						

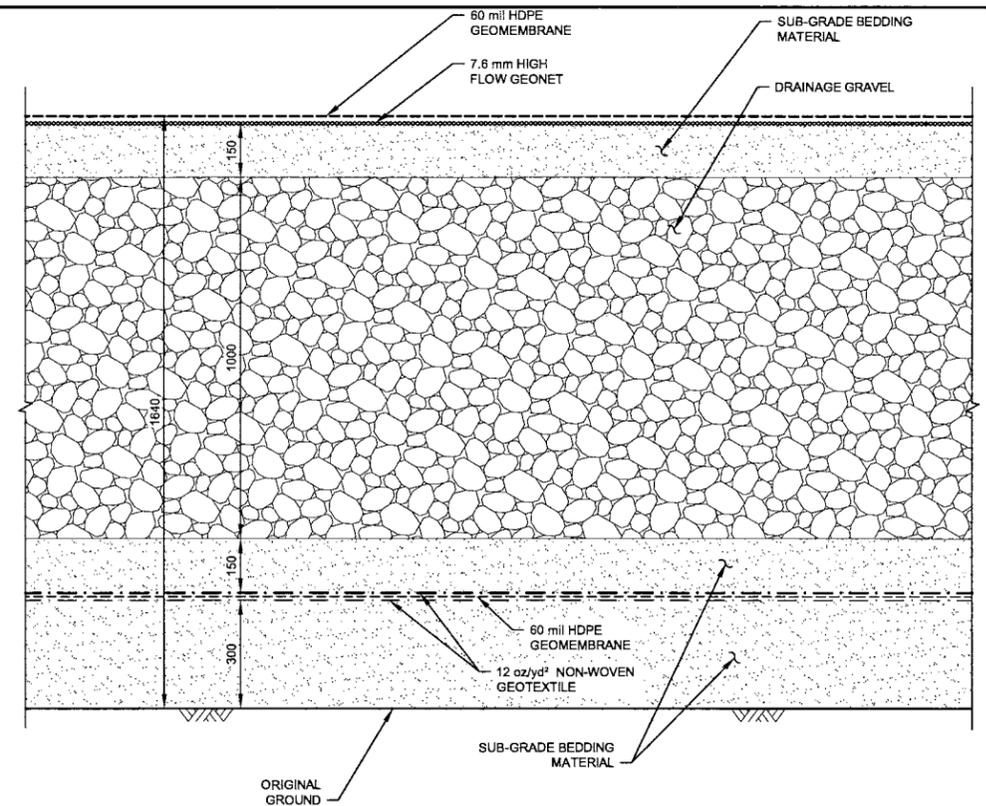
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0	29APR'16	ISSUED FOR INFORMATION				

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED
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0	29APR'16	ISSUED FOR INFORMATION	GIM	RAP	KDE	KDE

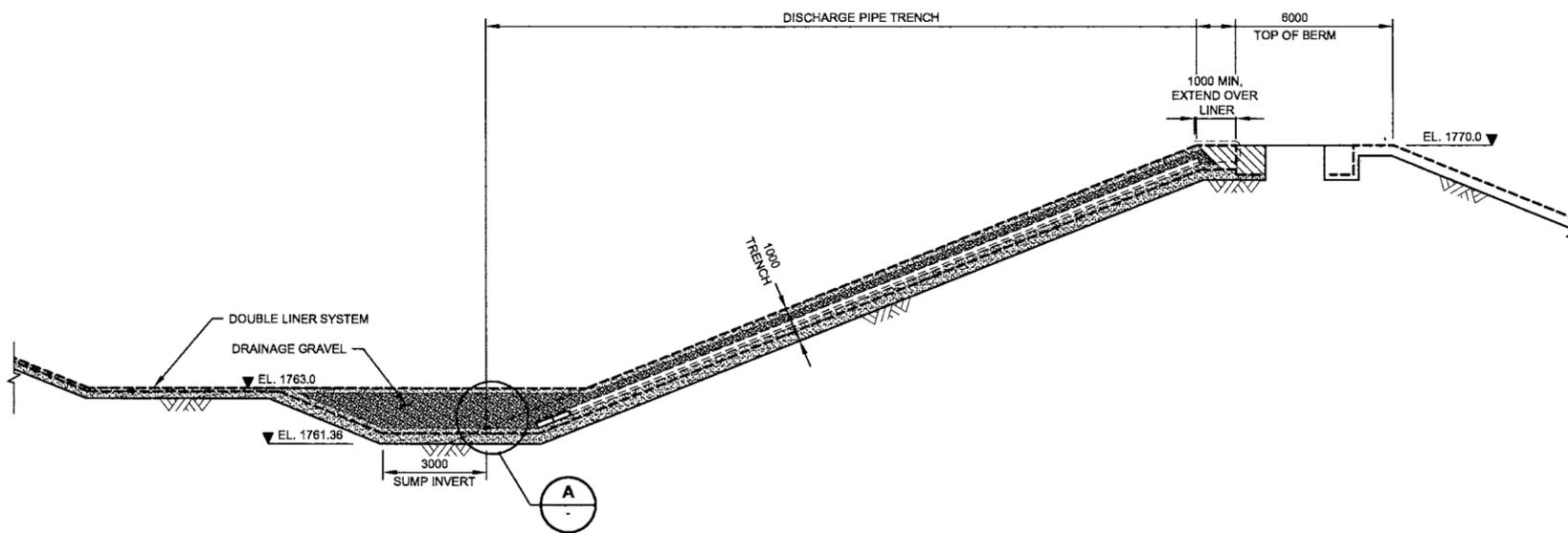
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VA101-460/3	C9003	1



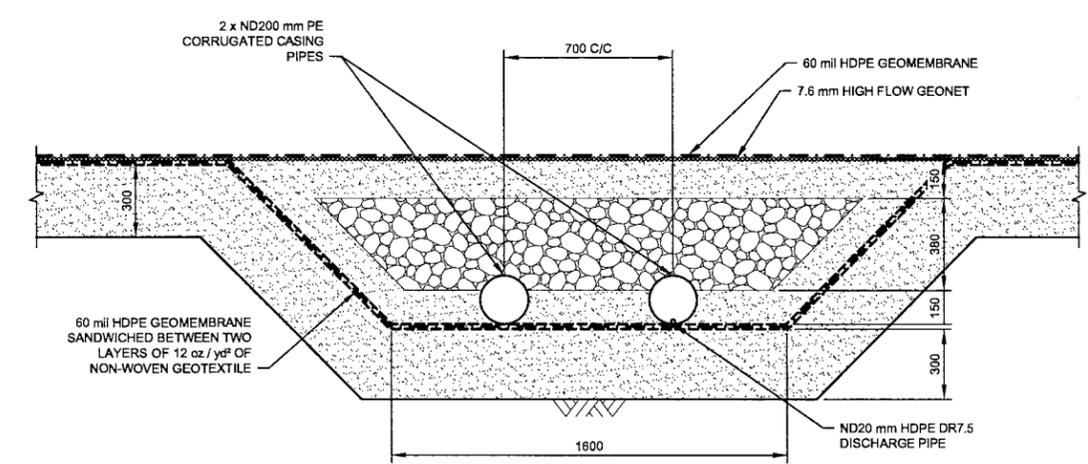
**PLAN**  
SCALE A



**A** **DETAIL**  
**SEEPAGE COLLECTION**  
**SUMP LINER DETAIL**  
N.T.S.



**1** **PROFILE**  
SCALE A



**2** **SECTION**  
**DISCHARGE PIPE TRENCH**  
N.T.S.

**FOR INFORMATION ONLY**

SCALE A

- DISCLAIMER -

**Knight Piésold**  
CONSULTING

TINTINA RESOURCES INC.

**BLACK BUTTE COPPER PROJECT**

**BRINE POND**  
**SEEPAGE COLLECTION AND**  
**RECYCLING SYSTEM**  
**PLAN, PROFILE, SECTION AND DETAIL**

P/A NO.	DRAWING NO.	REVISION
<b>VA101-460/3</b>	<b>C9004</b>	<b>0</b>

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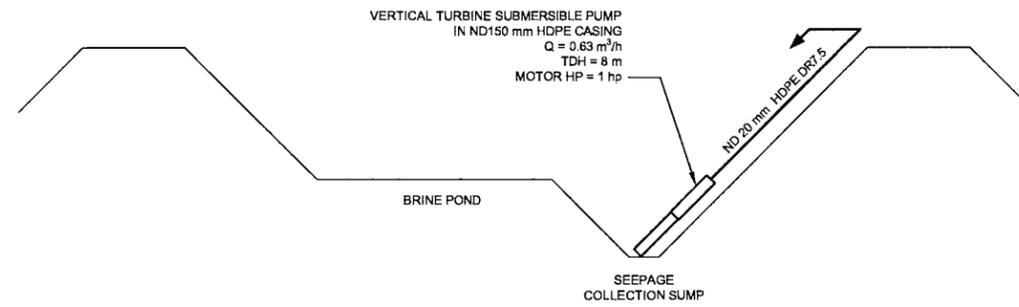
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C9003	CONTACT WATER POND - GENERAL ARRANGEMENT - SECTIONS AND DETAILS							
C9001	CONTACT WATER POND - GRADING PLAN							

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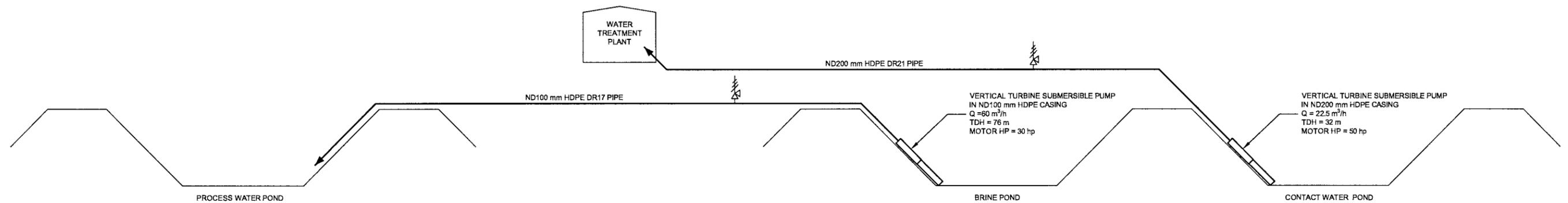
REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED

**LEGEND:**

- PIPE
- ▶ FLOW DIRECTION
- ▭ SUBMERSIBLE PUMP
- ⚡ AIR RELIEF VALVE



**BRINE POND SEEPAGE COLLECTION AND RECYCLE SYSTEM**



**BRINE AND CONTACT WATER RECLAIM SYSTEM**

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***Knight Piesold***  
CONSULTING

TINTINA RESOURCES INC.

**BLACK BUTTE COPPER PROJECT**

**BRINE AND CONTACT WATER POND  
WATER MANAGEMENT SYSTEM PIPING  
AND INSTRUMENTATION DIAGRAM**

C9003	BRINE & CONTACT WATER PONDS - G.A. - SECTION AND DETAILS
C9002	BRINE & CONTACT WATER PONDS - G.A. AND LINE SYSTEM LAYOUT - PLAN

DRG. NO.	DESCRIPTION	REV	DATE	DESIGNED	DRAWN	REVIEWED	APPROVED
REFERENCE DRAWINGS							

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED
REVISIONS						

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	REVIEWED	APPROVED
0	29APR'16	ISSUED FOR INFORMATION	GIM	RAP	✓	✓
REVISIONS						

PIA NO.	DRAWING NO.	REVISION
VA101-460/3	C9005	0

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