

REGIONAL LOCATION

DRAWING INDEX:

GENERAL

1CT004.06-G-1: PROJECT LOCATION AND DRAWING INDEX

1CT004.06-G-2: SITE VICINITY MAP

1CT004.06-G-3: SITE INVESTIGATION MAP

1CT004.06-G-4: EXISTING THERMISTOR INSTALLATIONS

1CT004.06-G-5: QUATERNARY GEOLOGY OF THE JERICHO PROJECT AREA 1CT004.06-G-6: BEDROCK GEOLOGY OF THE JERICHO PROJECT AREA

1CT004.06-G-7: TERRAIN EVALUATION MAP

1CT004.06-G-8: BORROW AREAS - PLAN AND TYPICAL SECTION

1CT004.06-G-9: AMMONIUM NITRATE STORAGE AND EMULSION PLANT LAYOUTS

1CT004.06-G-10: GENERAL ARRANGEMENT AT END OF APRIL 2006
1CT004.06-G-11: GENERAL ARRANGEMENT AT END OF APRIL 2007
1CT004.06-G-12: GENERAL ARRANGEMENT AT END OF APRIL 2008
1CT004.06-G-13: GENERAL ARRANGEMENT AT END OF DECEMBER 2014

1CT004.06-G-14: SITE MONITORING STATION LOCATIONS

1CT004.06-G-15: CLOSURE CONCEPTS

MINE WASTE DUMPS AND STOCKPILES

1CT004.06-M-1: LAYOUT OF WASTE DUMPS AND STOCKPILES

1CT004.06-M-2: SITE INVESTIGATION AND TERRAIN MAP

1CT004.06-M-3 WASTE DUMPS 1 AND 2, LOW GRADE STOCKPILE AND COARSE PK STOCKPILE CROSS SECTIONS AND DETAILS

1CT004.06-M-4: RECOVERY PLANT REJECTS PLAN AND SECTIONS

1CT004.06-M-5: SCHEMATIC OF WASTE DUMP 1 CONSTRUCTION SEQUENCE

PKCA

1CT004.06-P-1: LAYOUT OF THE PKCA INCLUDING HEIGHT CAPACITY CURVES

1CT004.06-P-2: SITE INVESTIGATION AND TERRAIN MAP

1CT004.06-P-3: WEST DAM PLAN AND GEOLOGIC SECTIONS

1CT004.06-P-4: NORTH DAM PLAN AND GEOLOGIC SECTIONS

1CT004.06-P-6: SOUTHEAST DAM PLAN AND GEOLOGIC SECTIONS

1CT004.06-P-7: TYPICAL DAM CROSS SECTIONS AND DETAILS

1CT004.06-P-8: WEST DAM SPILLWAY AND THERMOSYPHON SECTIONS AND DETAILS

1CT004.06-P-9: PKCA CONSTRUCTION SEQUENCE

1CT004.06-P-10: PKCA MONITORING PLAN SECTIONS AND DETAILS

1CT004.06-P-11: PIPELINE PLAN AND PROFILES

WATER MANAGEMENT FACILITIES

1CT004.06-W-1: LAYOUT OF WATER MANAGEMENT FACILITIES
1CT004.06-W-2: C1 DIVERSION PLAN AND CROSS SECTIONS

1CT004.06-W-3: C1 DIVERSION DETAILS

1CT004.06-W4: PRELIMINARY LAYOUT OF POND A CROSS SECTIONS AND DETAILS

1CT004.06-W-5: PRELIMINARY LAYOUTS OF PONDS B AND C CROSS SECTIONS AND DETAILS

1CT004.06-W6: PRELIMINARY LAYOUT OF CAUSEWAY SECTIONS AND DETAILS

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R	REFERENCE DRAWINGS		REVISIONS		ISSUE AUTHORIZATION						

WATER LICENSE APPLICATION



Tahera
Diamond Corporation

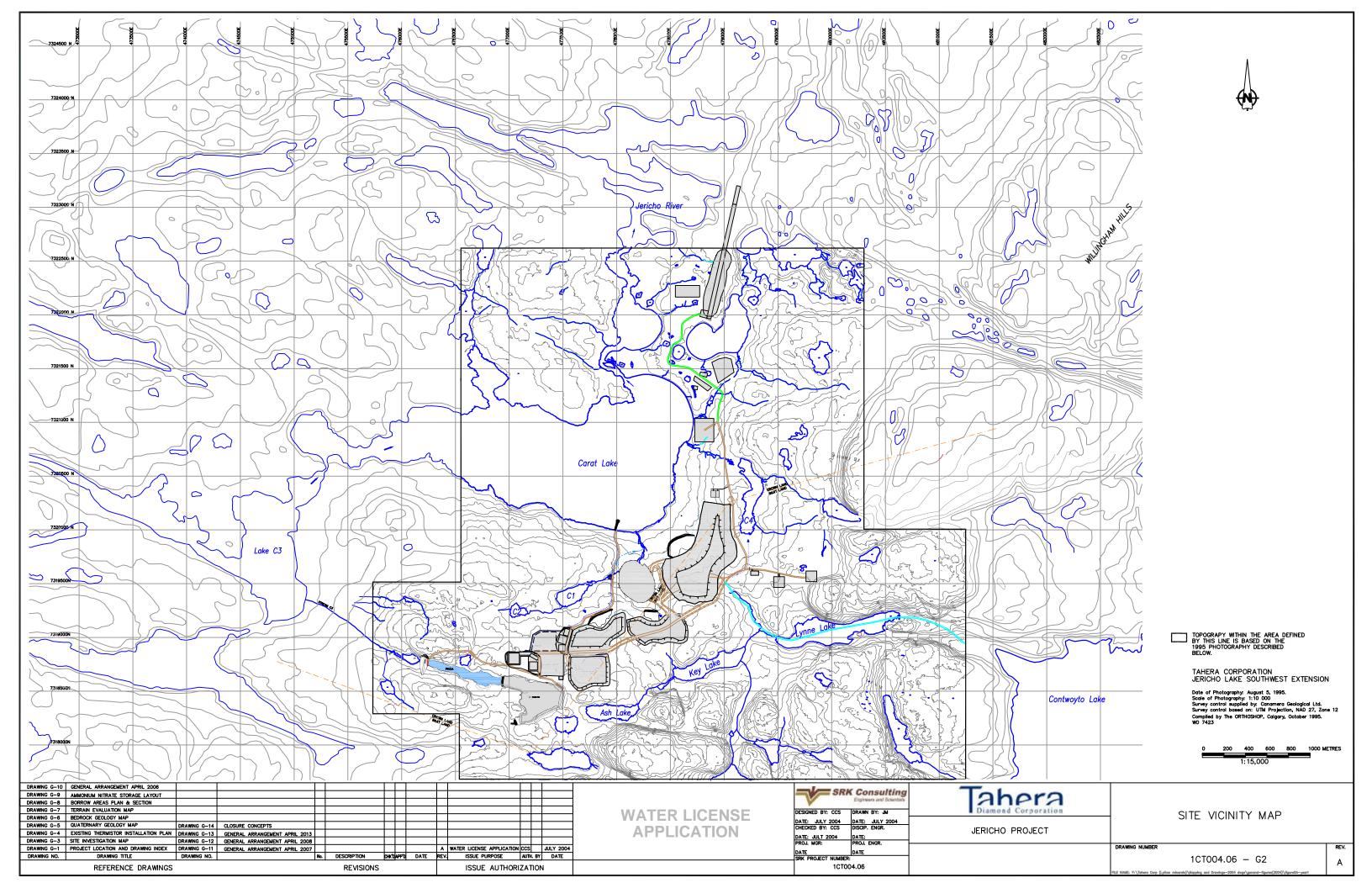
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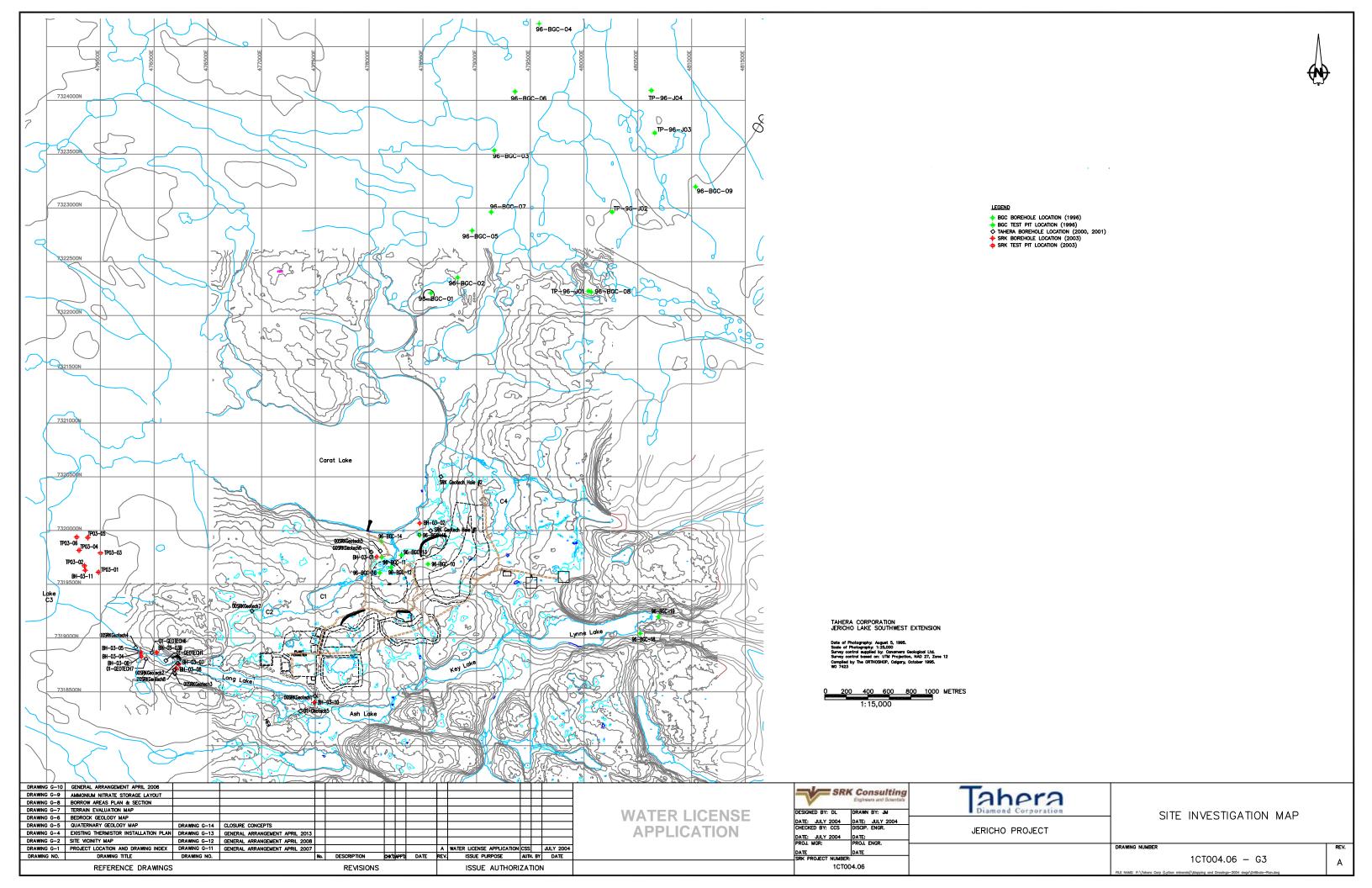
PROJECT LOCATION AND DRAWING INDEX

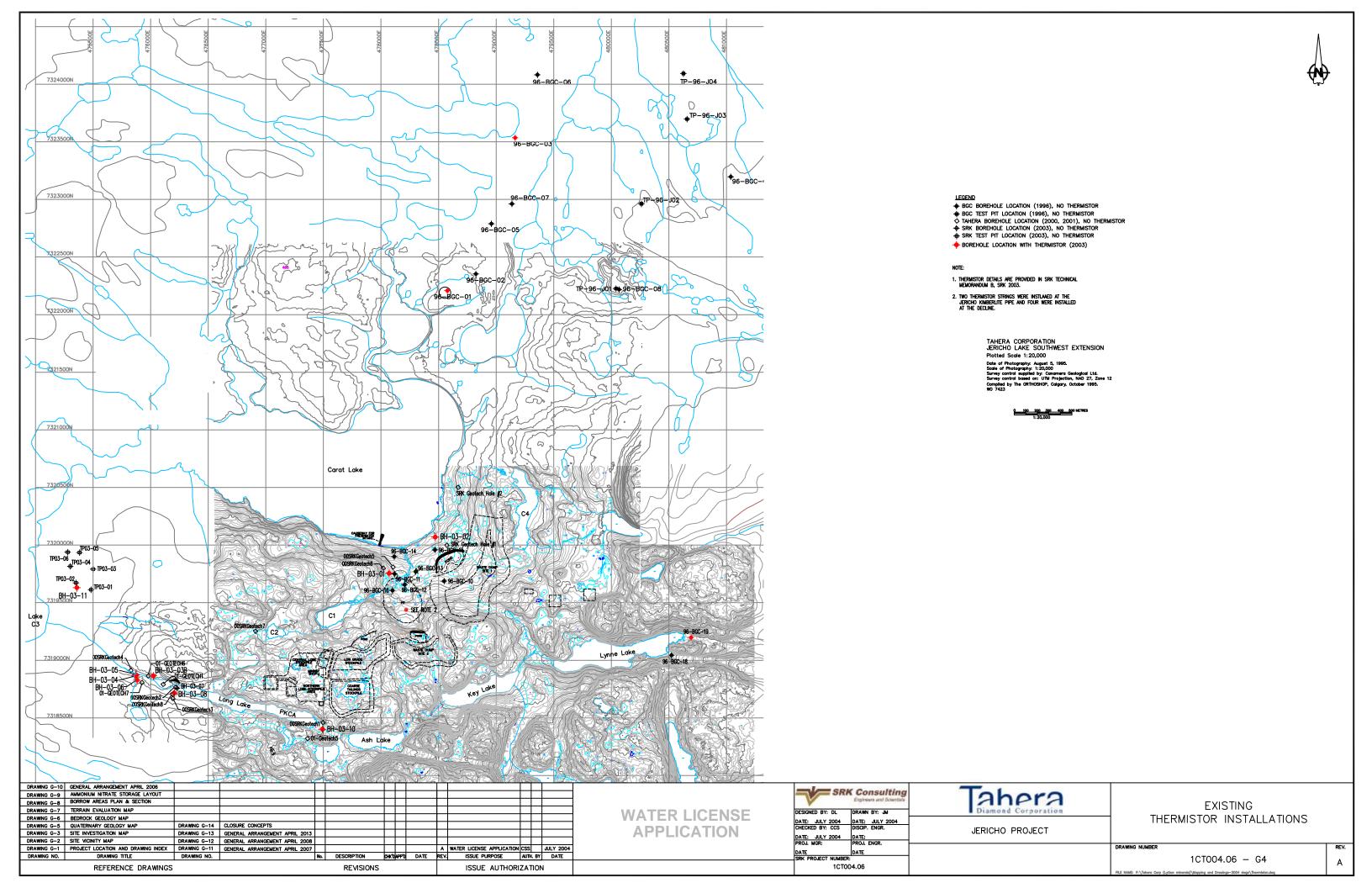
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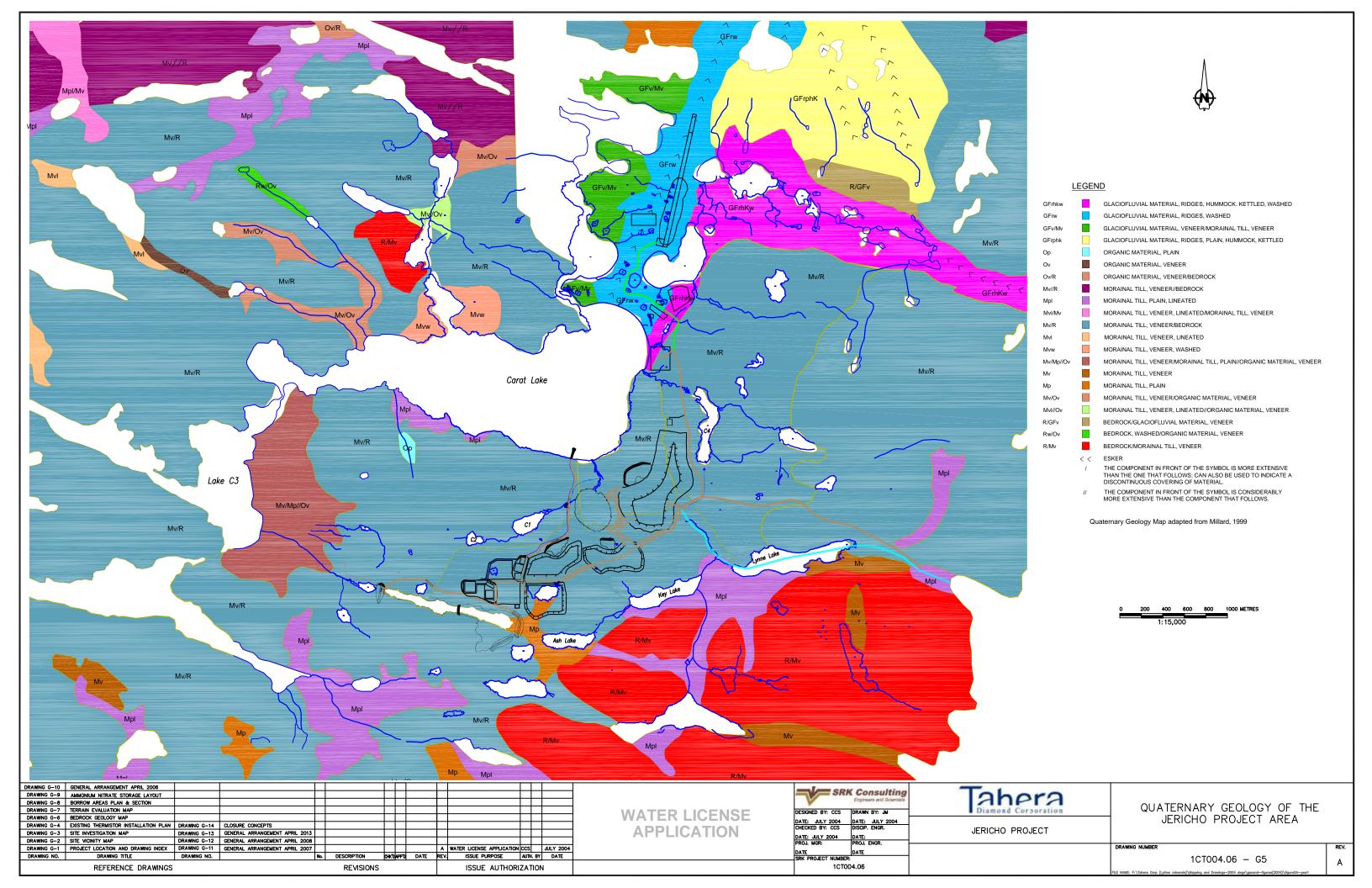
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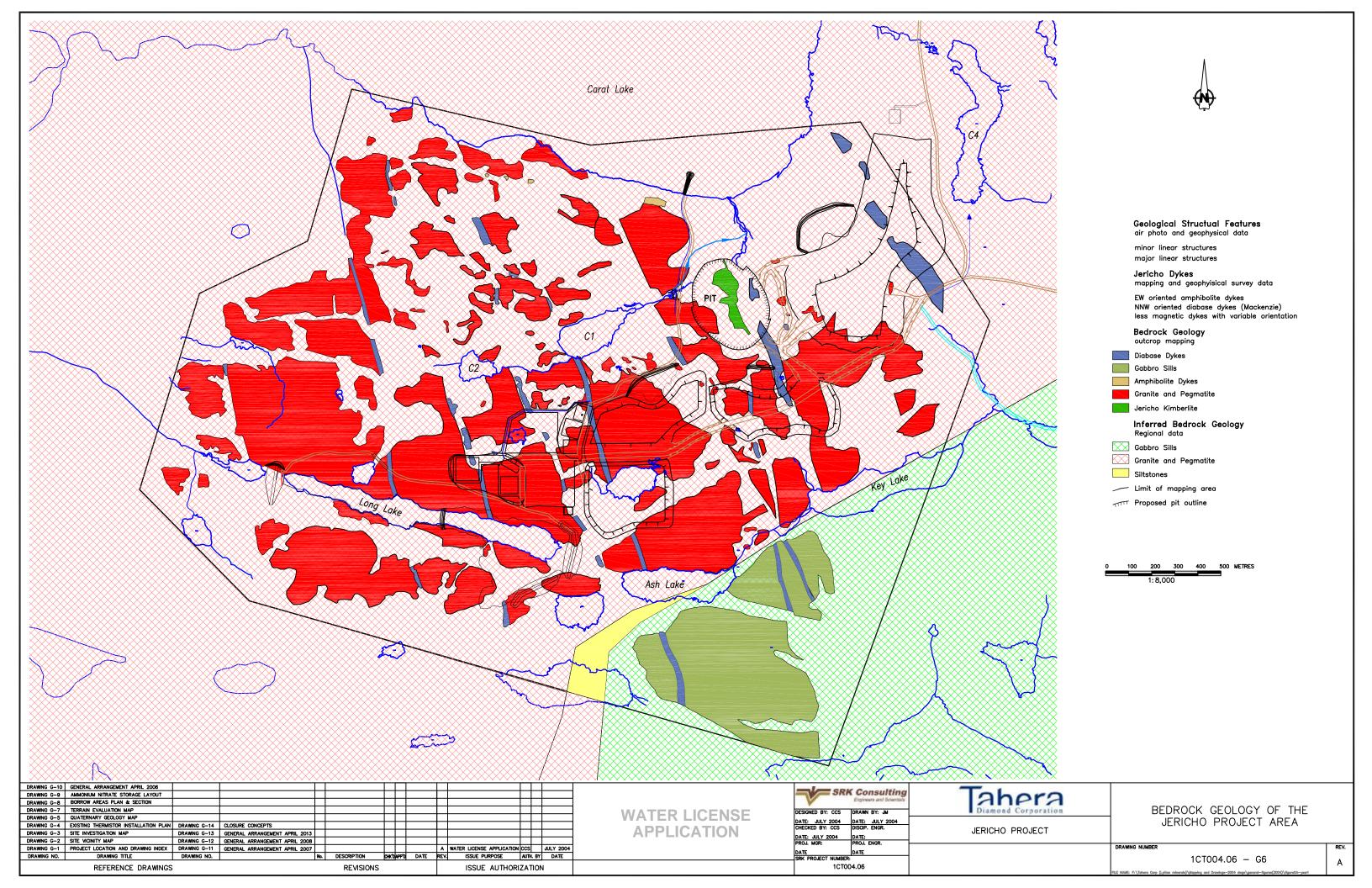
Tahere Corp (Lytton minerals)\Mapping and Drawings-2004 dwgs\figure

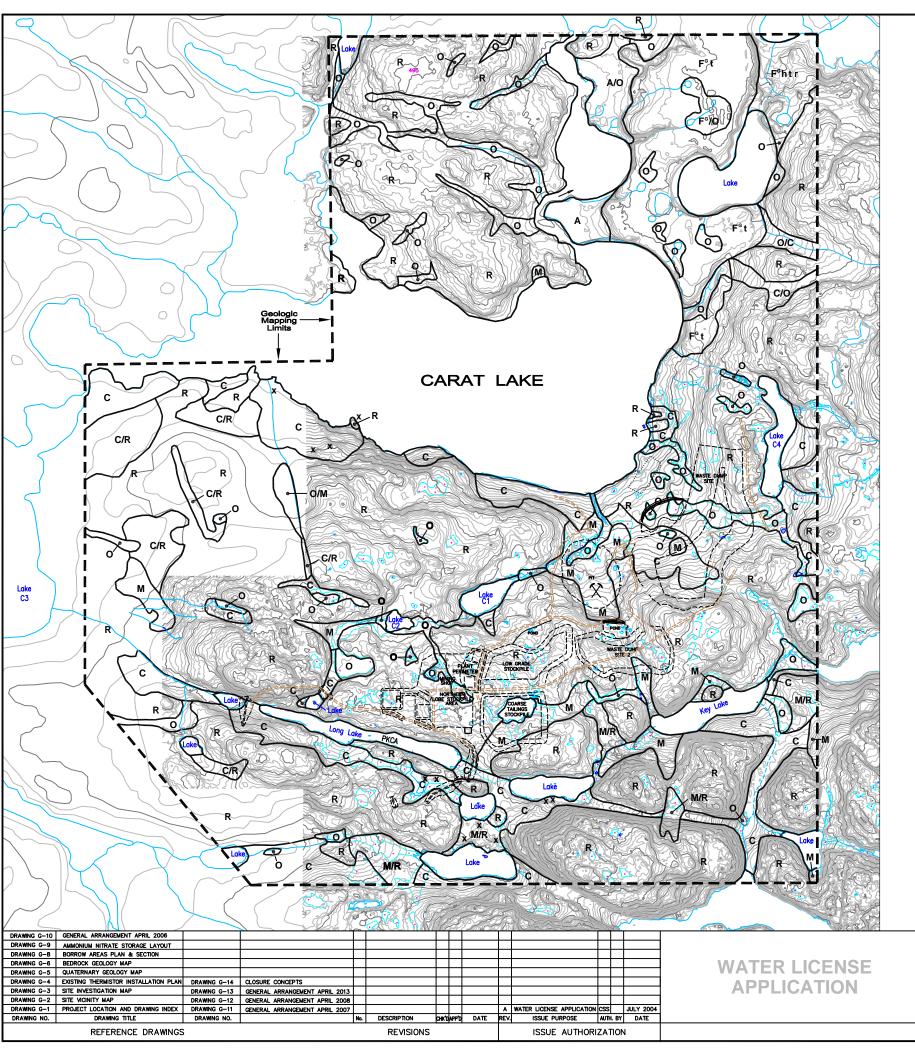












LEGEND



Quaternary Holocene Deposits

- A River and creek deposits. Interpreted to be sand, gravel and silt with some cobbles and boulders. A/O unit north of Carat Lake's outlet is interpreted to be an alluvial and organic floodplain area.
- C Colluvium. Frost churned, weathered soil materials affected by soil creep on slopes. Soils in the permafrost active layer. Interpreted to be mixtures of silt, sand, gravel, boulders and disseminated organic material. Much of this material probably overlies till. Frost-riven and shattered blocks are common in bedrock areas. Areas of C/O (Colluvium and Organic soil complexes) and C/R (Colluvium and bedrock complexes) are also mapped. (There is no significance to the order in which surficial materials appear in soil complexes).
- O Organic deposits. Interpreted to be seasonally moist to wet peat and organic mud generally interpreted to be less than 1 m deep and associated with bouldery till and colluvium. Linear, bedrock-confined bands of organic material contain small creeks.

Quaternary Pleistocene Deposits

- F° Fluvioglacial sediment. Interpreted to be sand, gravel, cobbles and boulders deposited by meltwater in contact with stagnating glacier ice. Terraces (t), hummocks (h) and ridges(r) including kame, kettle and esker complex. Much of this material may be sandy and glacial deltaic in origin. Frost cracks noted in associated areas of surface organic soils..
- M Till. Silt, sand, gravel, cobbles and boulders. Frost churned and bouldery at the surface. Interpreted to be very dense mixtures of clay, silt and sand containing gravel to boulders at depth. Exploratory drilling indicates that till may reach considerable depths beneath major valley floors. Glacier ice erosion and deposition features (evident on aerial photos) indicate that the most recent ice flow was NNW. Areas of M/R (Bouldery till and colluvium complexes) are also mapped.

Pre-Cambrian Bedrock

- Undifferentiated metamorphic and volcanic bedrock. Several columnar jointed dykes strike across the eastern map area. Very complex areas of bedrock and colluvium occur on north-facing slopes located directly south of Carat Lake.
- Isolated bedrock outcrop.

Proposed mine area

NOTE: Geologic boundaries are interpreted from topographic map and aerial photos and are approximate, particularily in areas of limited topographic detail.

TERRAIN EVALUATION MAP FROM THURBER CONSULTANTS, 2003

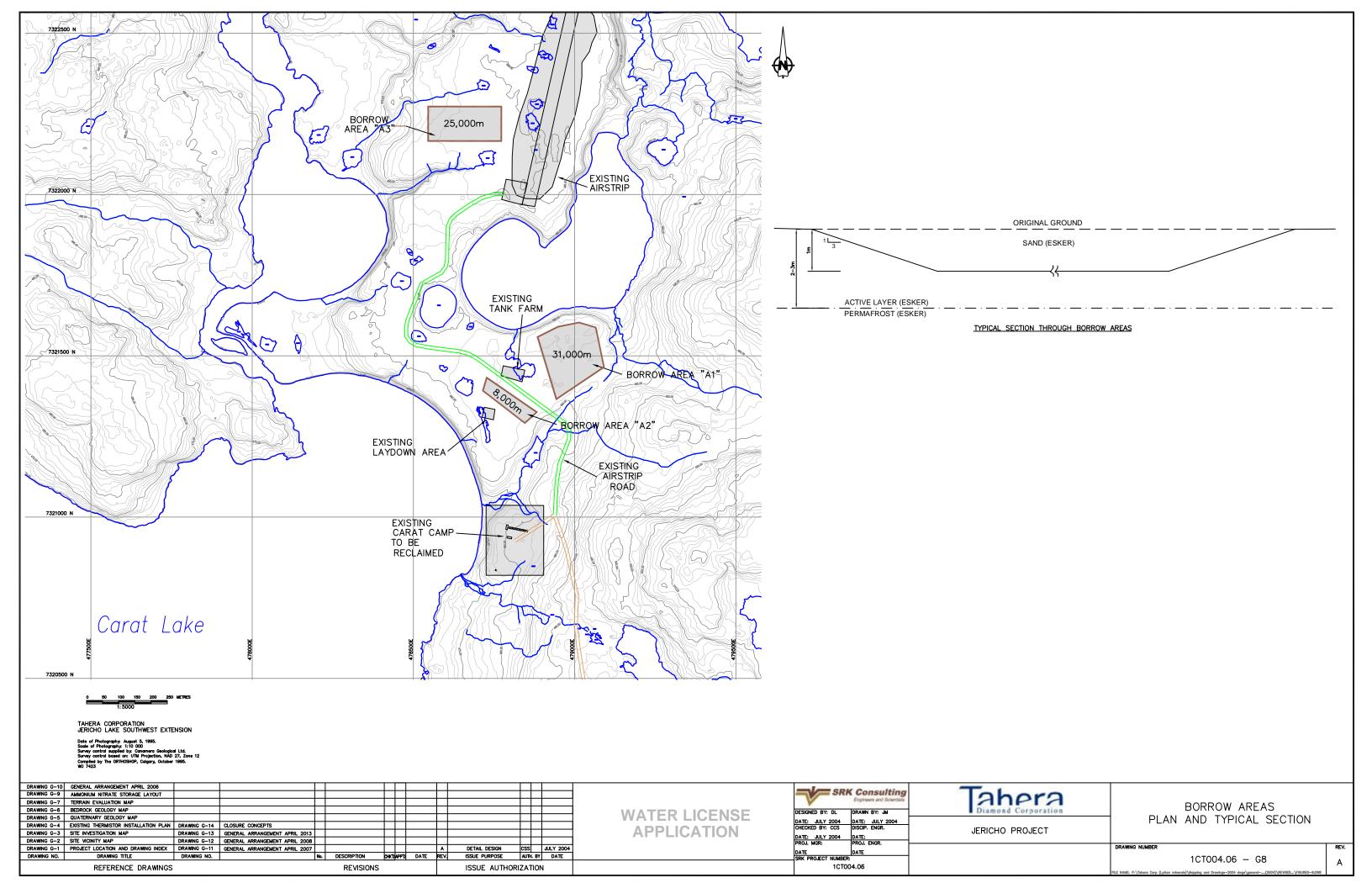
TAHERA CORPORATION
JERICHO LAKE SOUTHWEST EXTENSION Plotted Scale 1:11,000

1000 METRES 600

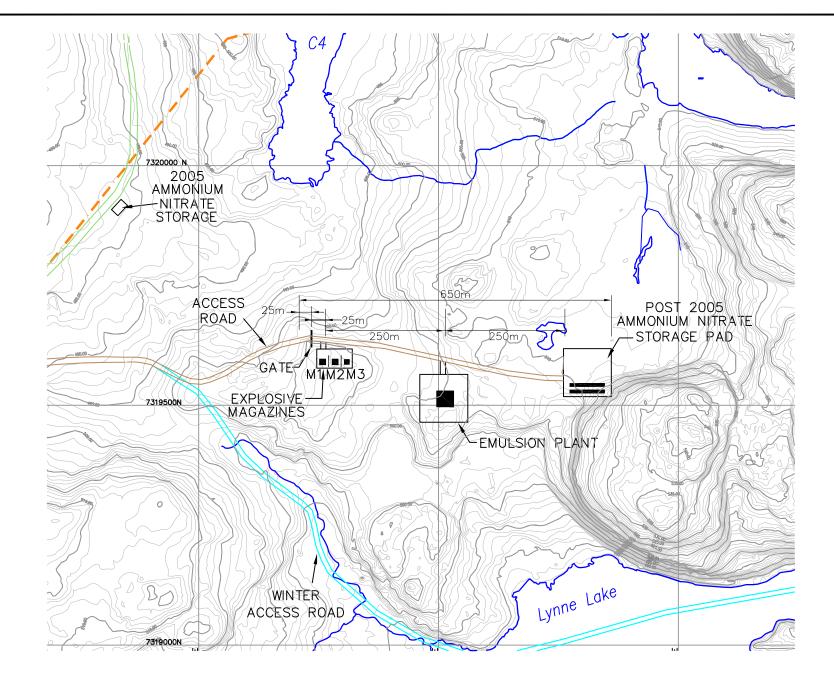


TERRAIN EVALUATION MAP

1CT004.06 - G7







NOTE ON AMMONIUM NITRATE AND EMULSION PLANT AREAS:

Site controlled by locked access gate

M1 - Explosives - 30,000 kg M2 - Explosives - 30,000 kg M3 - Detonators - 80,000 units

M1 bermed to M2 M2 bermed to emulsion plant

Emulsion plant Dimensions for pad: 100m x 100m

Ammonium nitrate storage pad with liner dimensions: 100m x 100m

require 7 rows for 5000 tonnes

LEGEND

= EXISTING ROAD

====== EXISTING ROAD (APPROXIMATE LOCATION)

ROAD REQUIRED BY YEAR 1

WINTER ROAD

TAHERA CORPORATION
JERICHO LAKE SOUTHWEST EXTENSION

Date of Photography. August 5, 1995.
Scale of Photography. 1:10 000
Survey control supplied by. Canamera Geological Ltd.
Survey control based on: UTM Projection, NAD 27, Zone 12
Compiled by The ORTHOSHOP, Calgary, October 1995.
WO 7423



with inter	difficitions.	TOOTT X	'
	— 3 tiers hig bags/4 bag	,	
~ 700 bo	nds per row		

DRAWING G-10	GENERAL ARRANGEMENT APRIL 2006													Г
DRAWING G-8	BORROW AREAS PLAN & SECTION													i
DRAWING G-7	TERRAIN EVALUATION MAP													1
DRAWING G-6	BEDROCK GEOLOGY MAP													1
DRAWING G-5	QUATERNARY GEOLOGY MAP													ĺ
DRAWING G-4	EXISTING THERMISTOR INSTALLATION PLAN	DRAWING G-14	CLOSURE CONCEPTS											1
DRAWING G-3	SITE INVESTIGATION MAP	DRAWING G-13	GENERAL ARRANGEMENT APRIL 2013											ĺ
DRAWING G-2	SITE VICINITY MAP	DRAWING G-12	GENERAL ARRANGEMENT APRIL 2008											ı
DRAWING G-1	PROJECT LOCATION AND DRAWING INDEX	DRAWING G-11	GENERAL ARRANGEMENT APRIL 2007						A	WATER LICENSE APPLICATION	ccs		JULY 2004	ĺ
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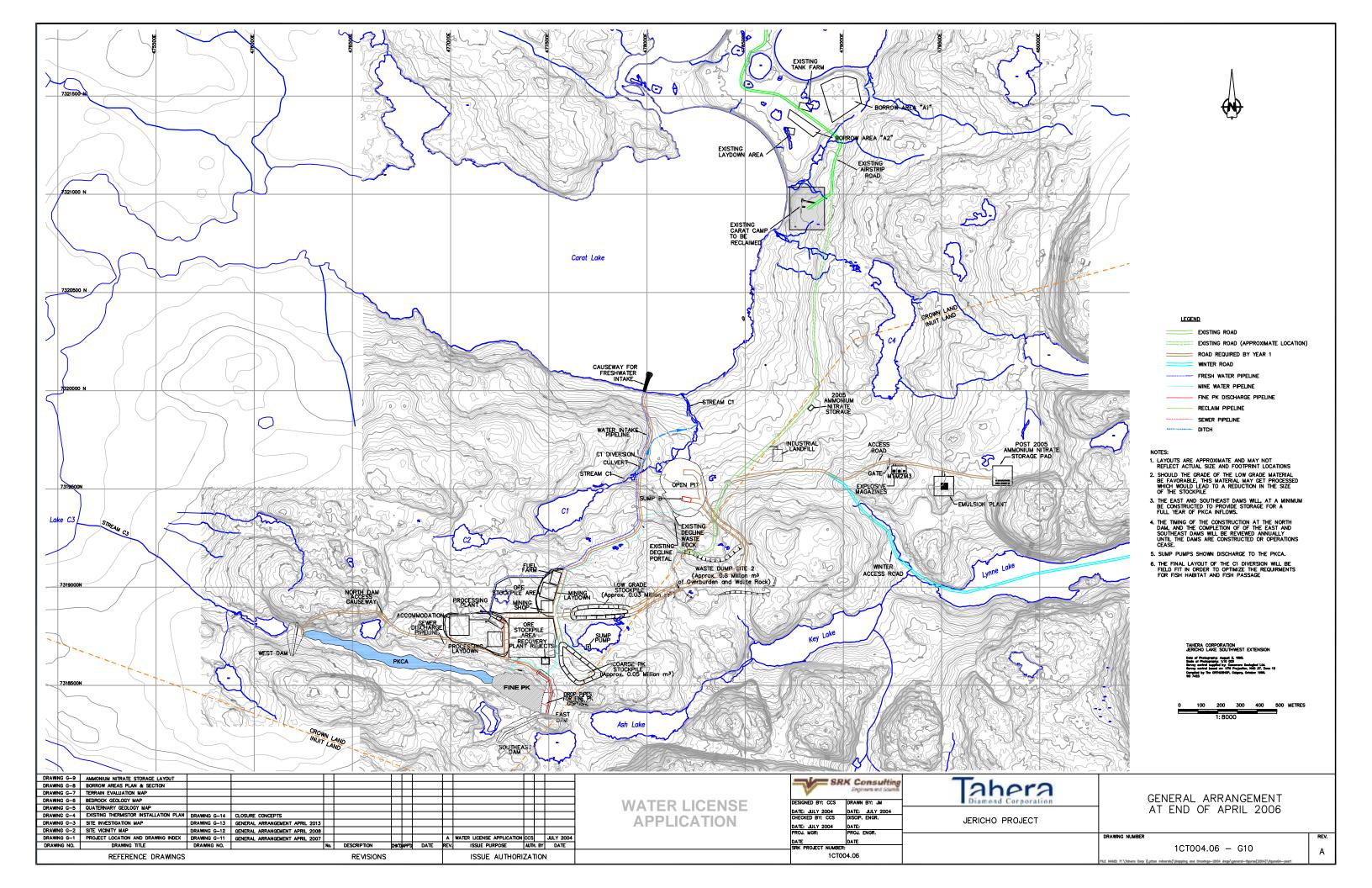
WATER LICENSE

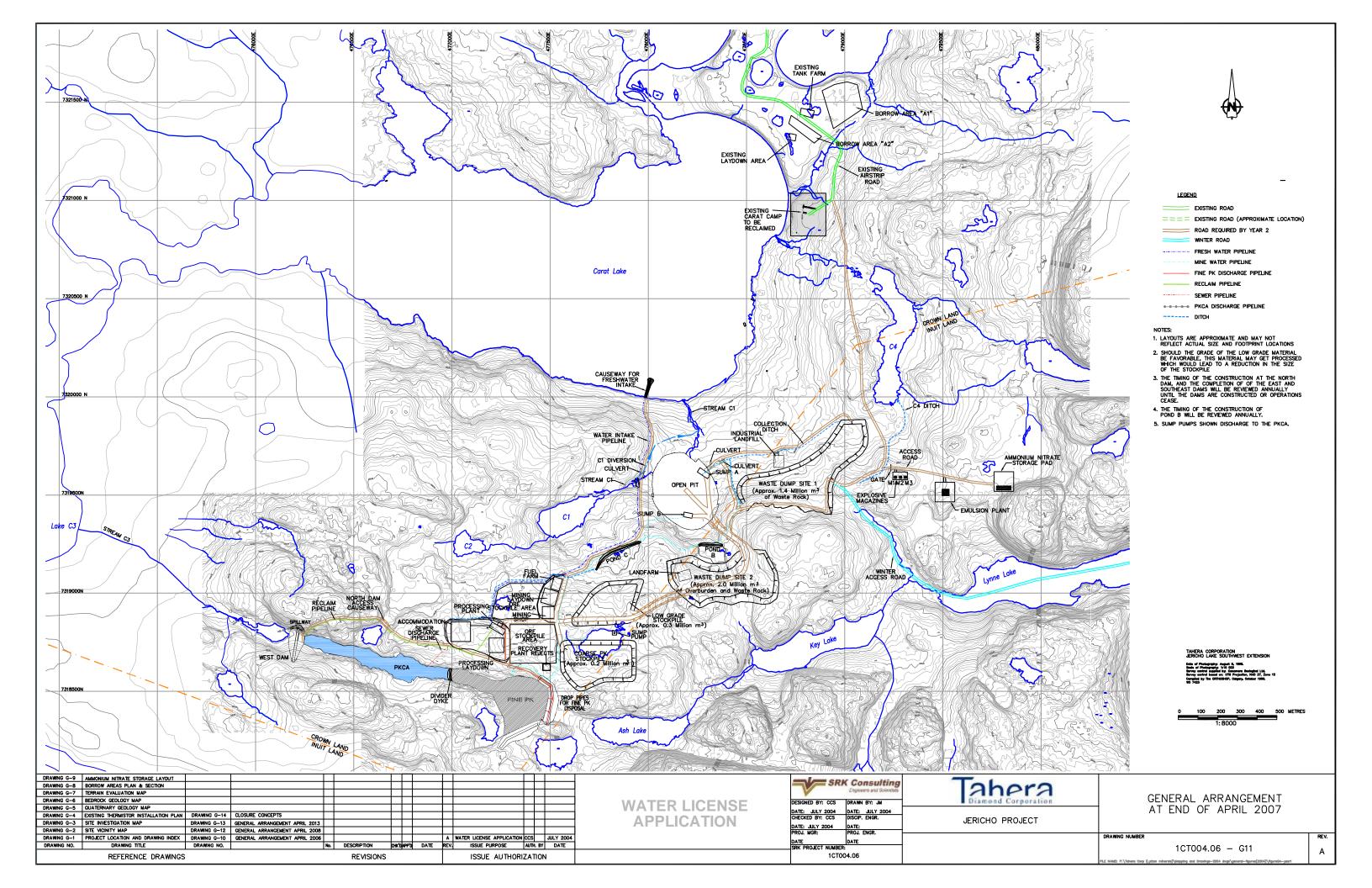
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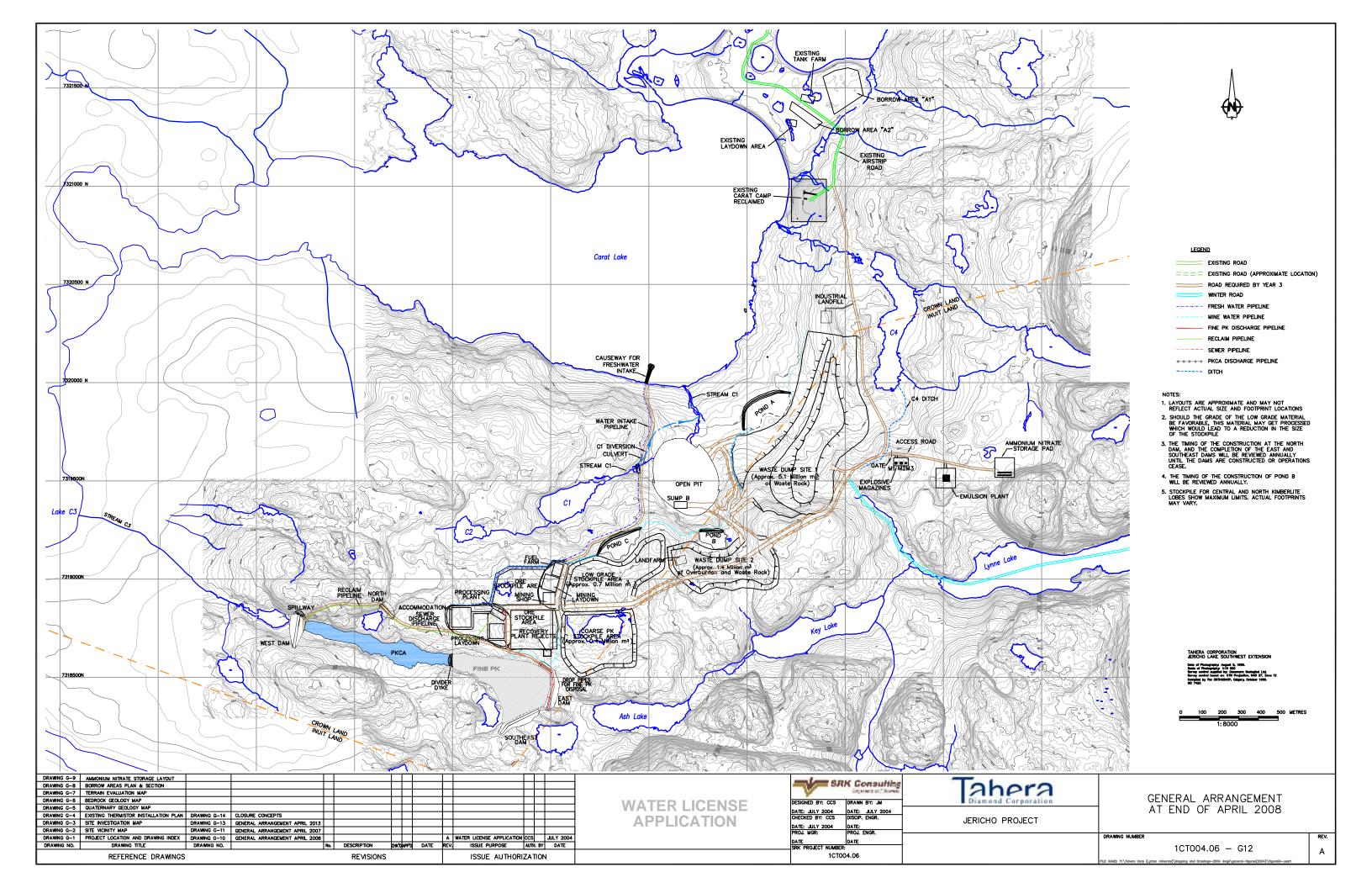


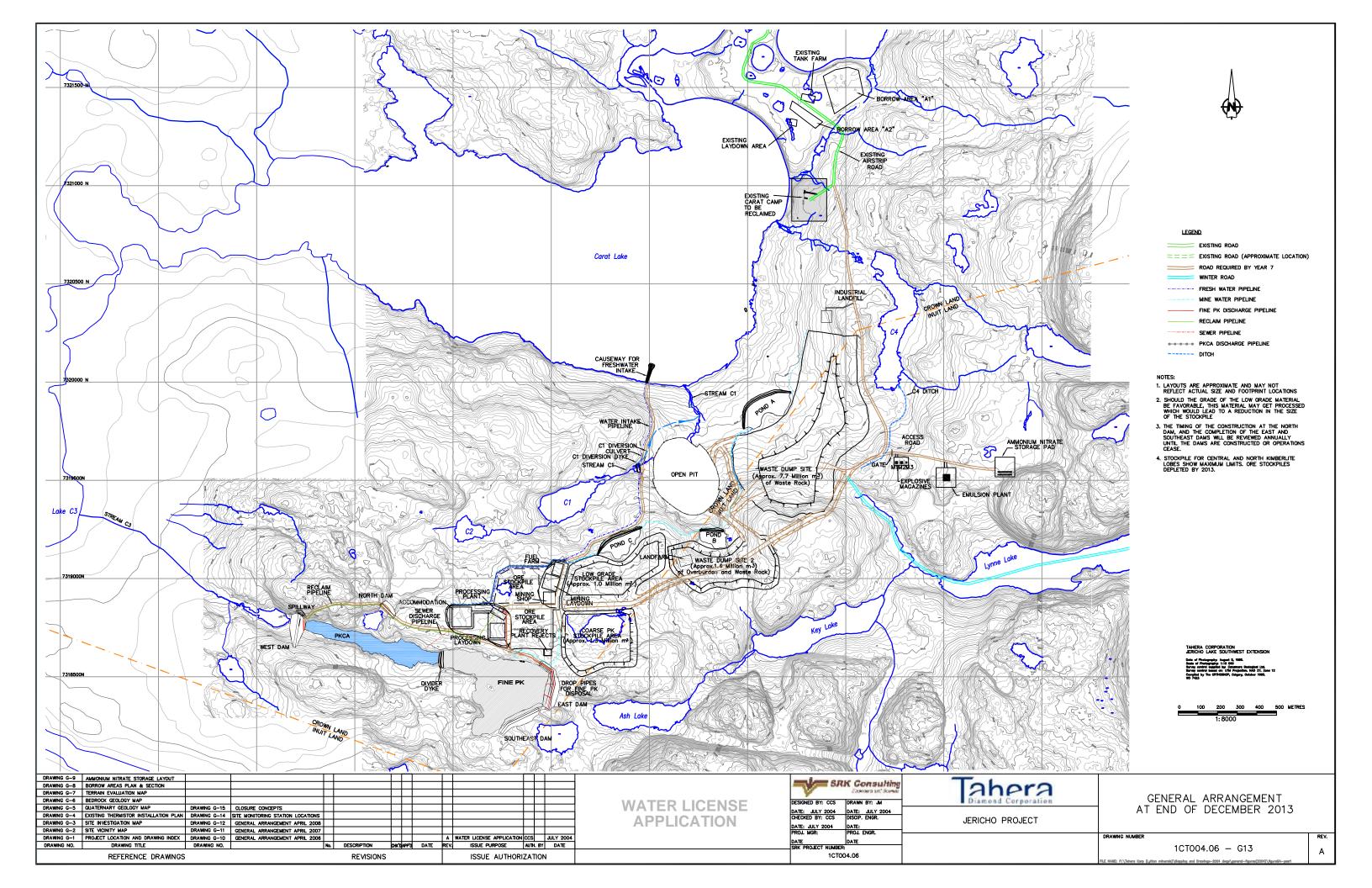
AMMONIUM NITRATE STORAGE AND EMULSION PLANT LAYOUTS

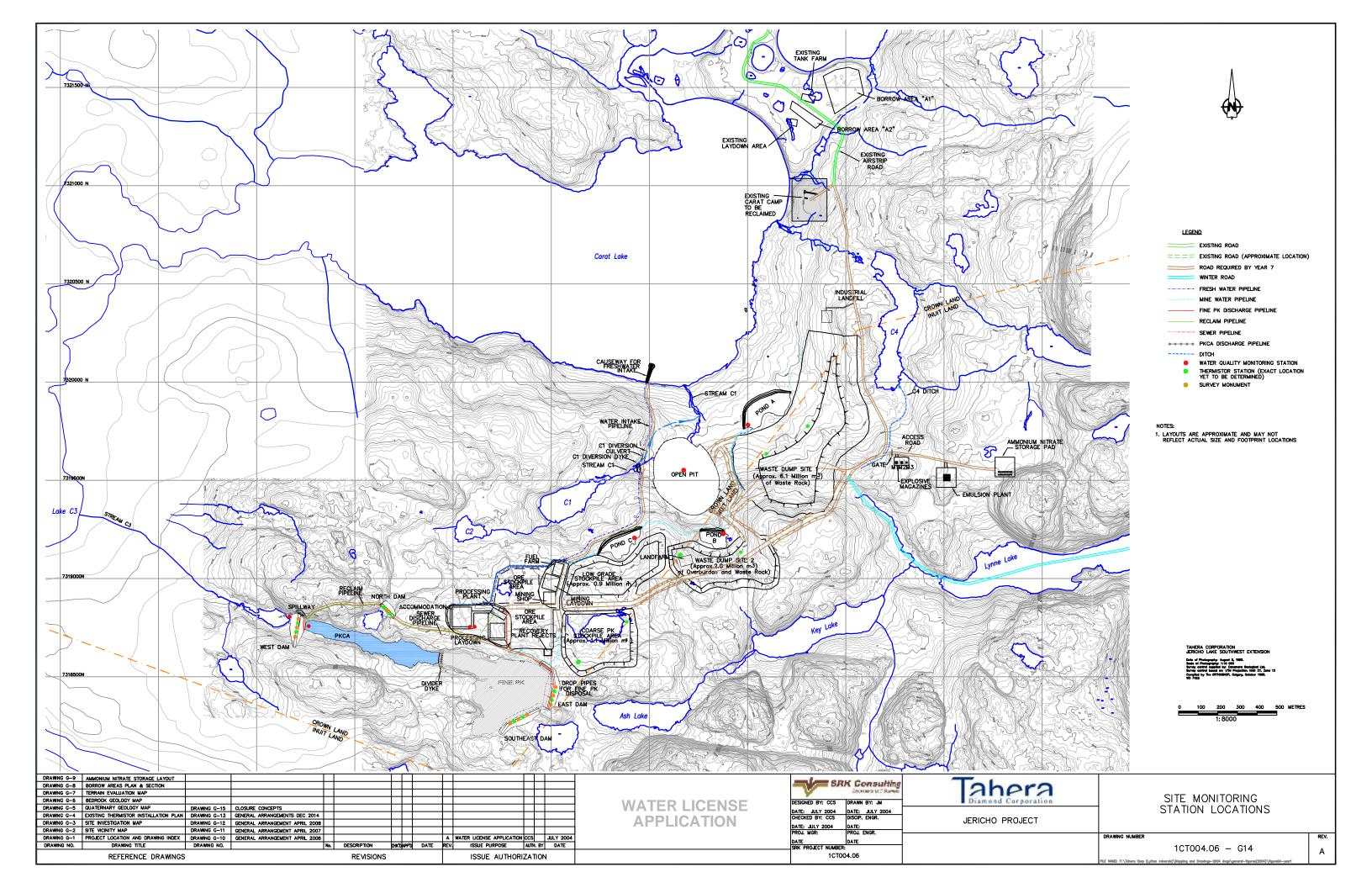
1CT004.06 - G9

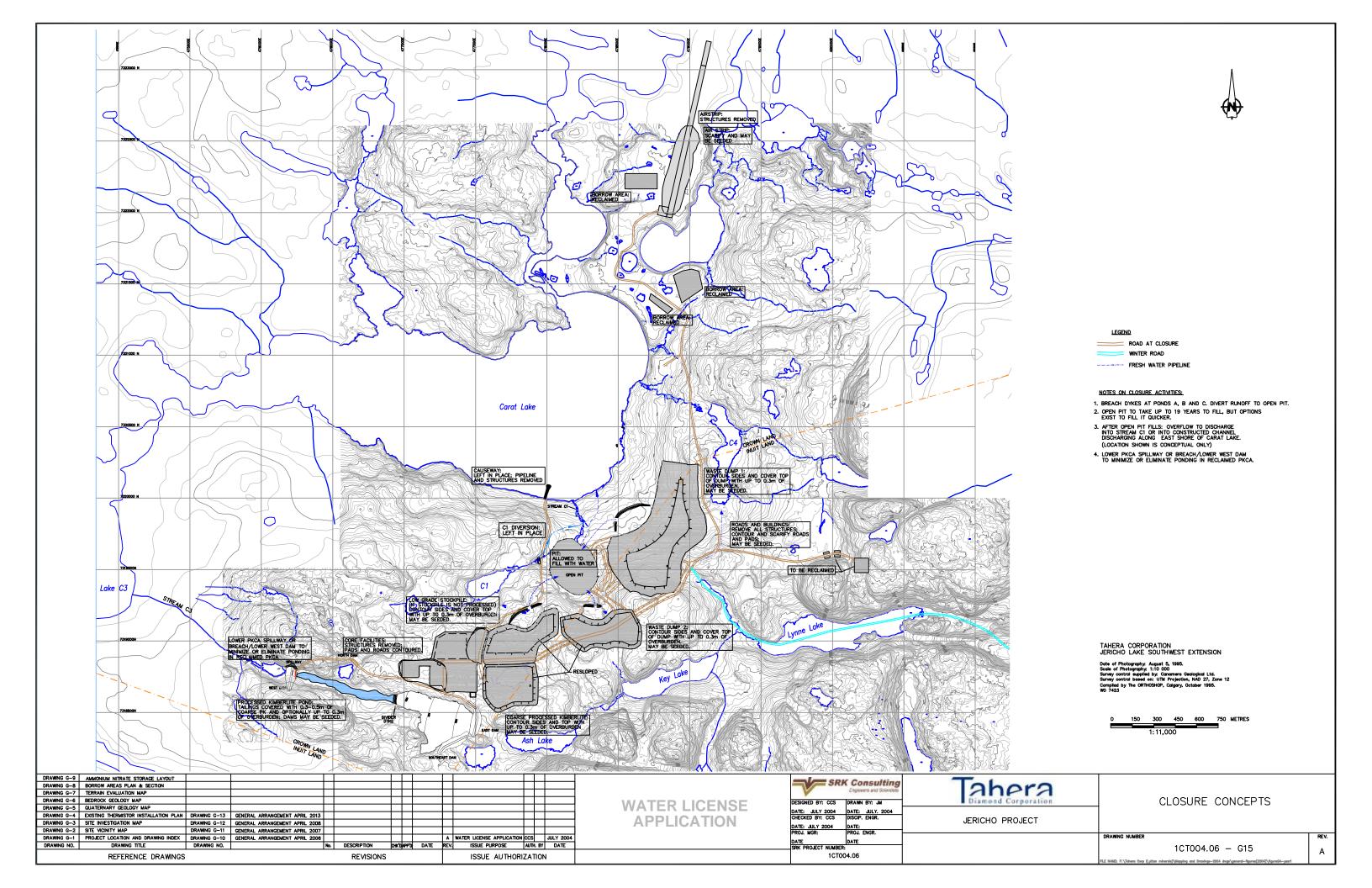


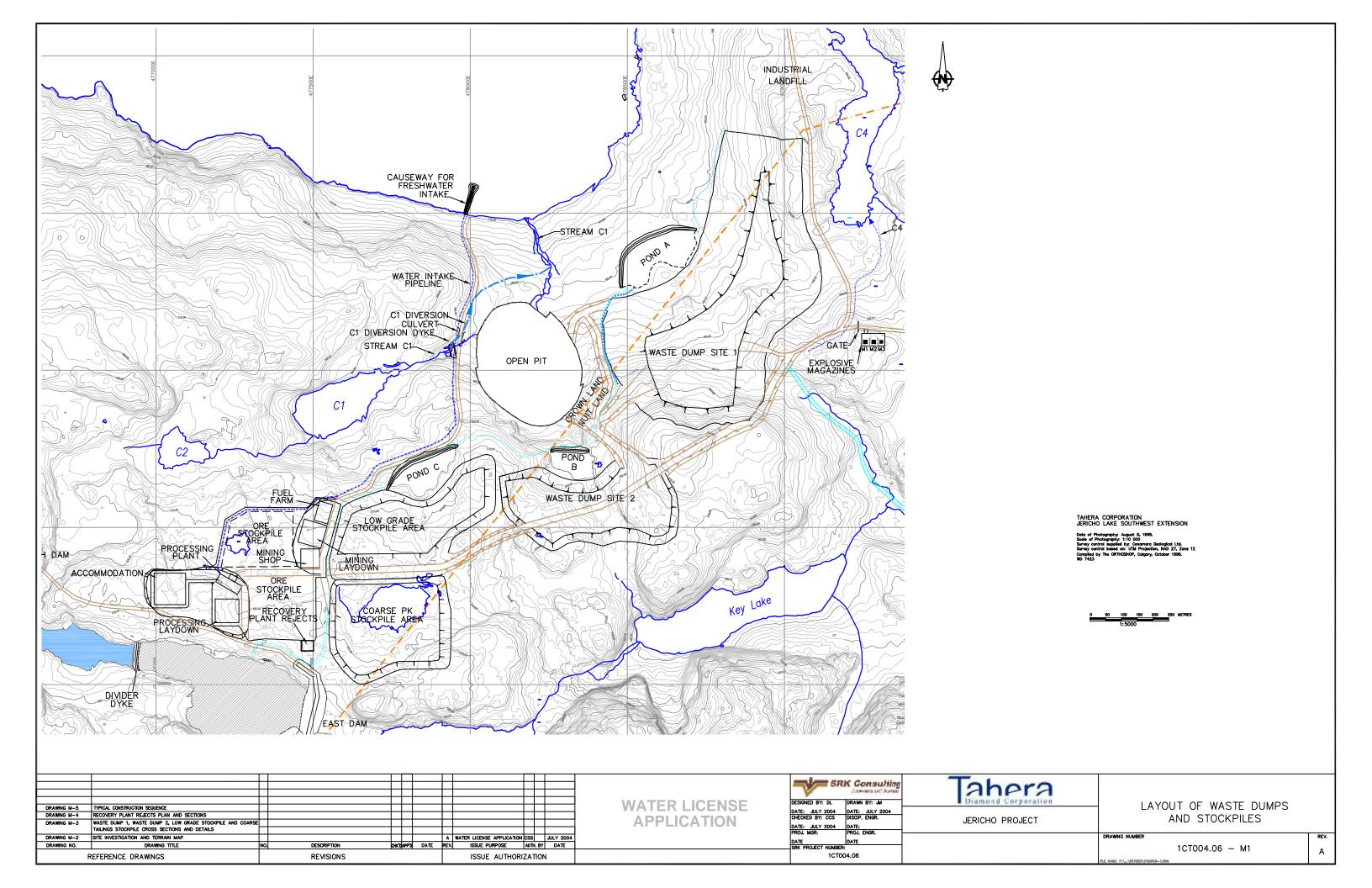


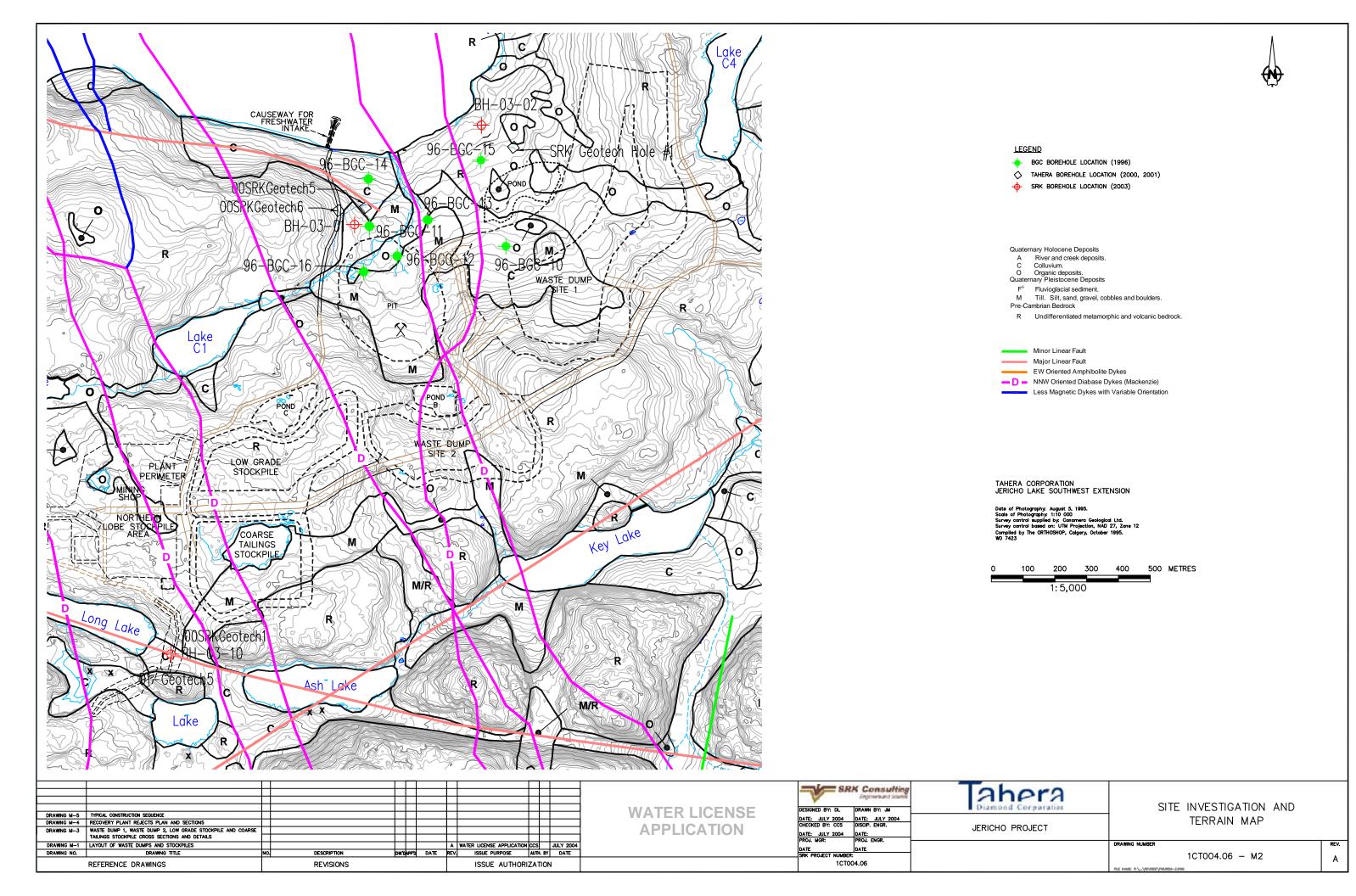


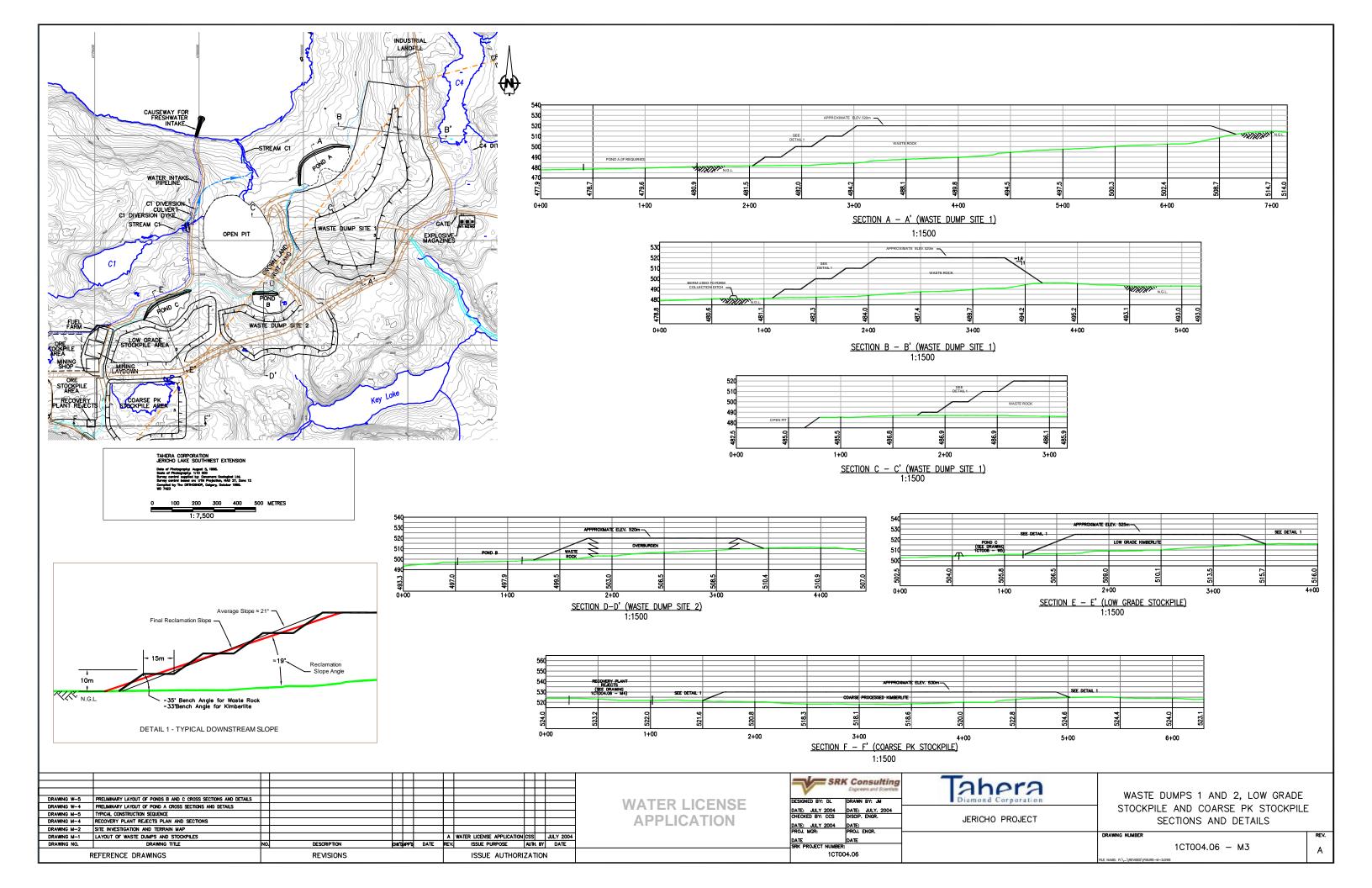


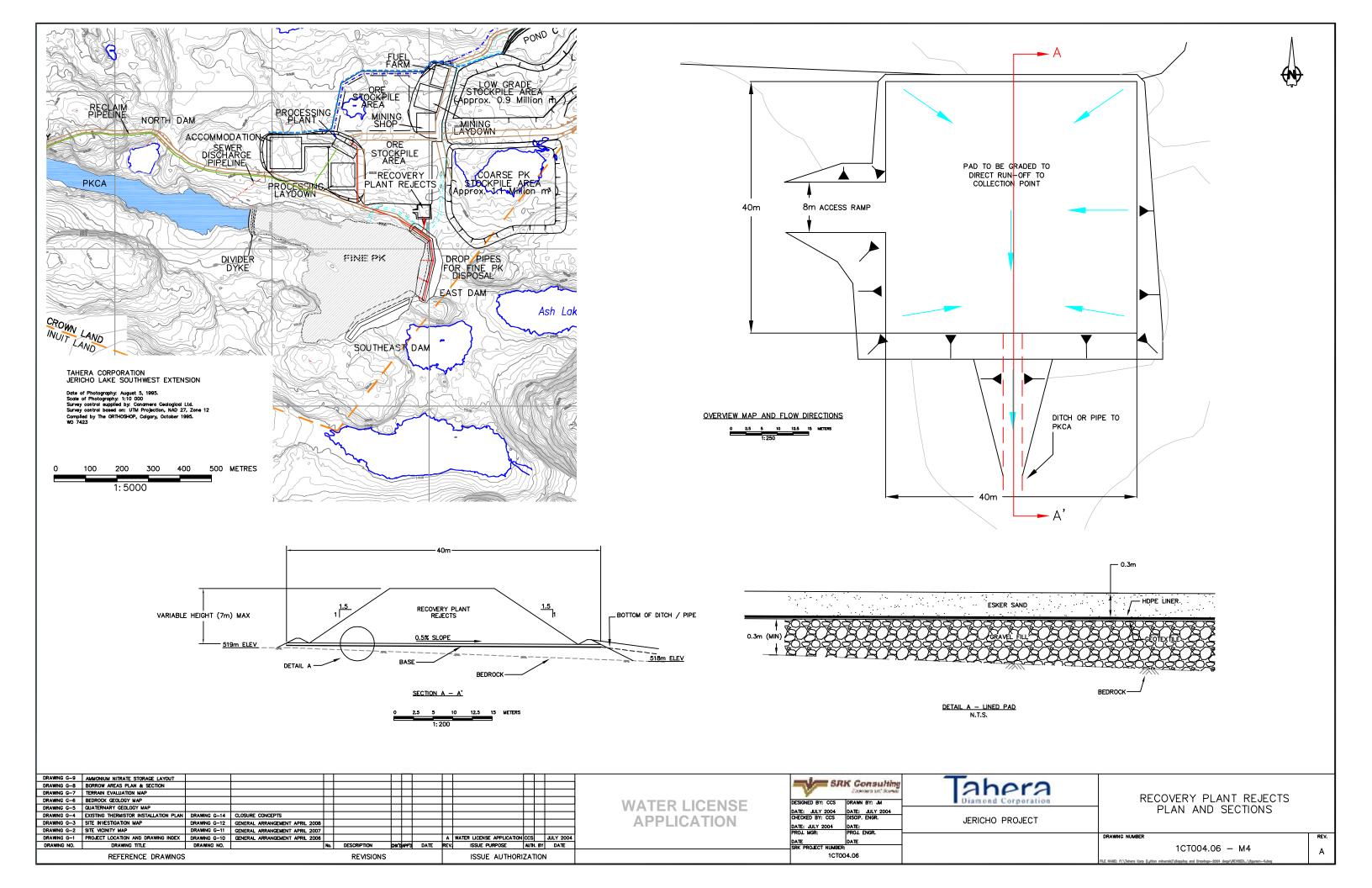


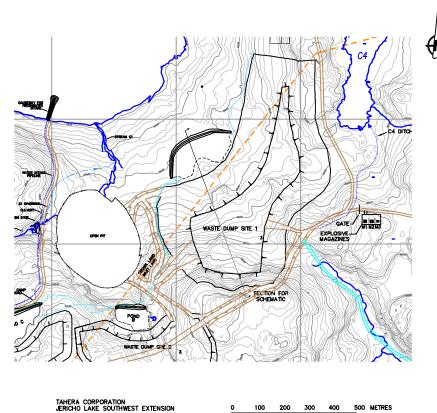


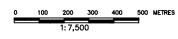


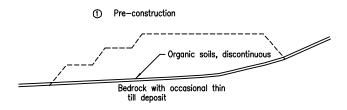


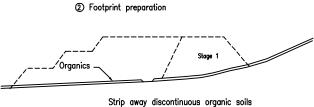




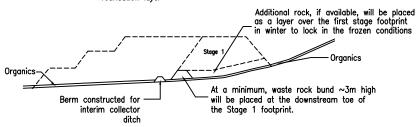




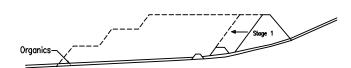




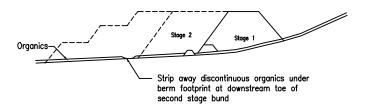
Strip away discontinuous organic soils under berm footprint at downstream toe of the first stage footprint Waste rock placement in winter to lock in the frozen conditions within the foundation layer



First stage of dump construction will consist of end dumping from dump crest towards the bund



Second stage foundation preparation

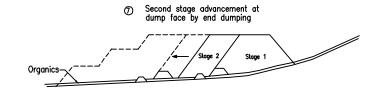


Waste rock placement in winter to lock in the frozen conditions within the foundation layer

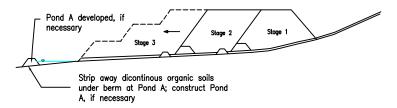
Additional rock, if available, will be placed as a layer over the second stage footprint in winter to lock in the frozen conditions

Organics

Berm constructed for Install second ~3m high waste rock bund in winter after stripping organic soils



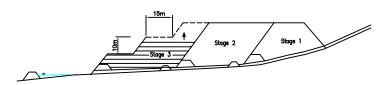
8 Third stage foundation preparation



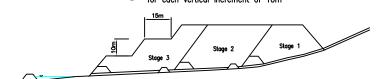
 Waste rock placement in winter to lock in the frozen conditions within the foundation layer



Third stage of dump to be constructed in horizontal lifts



Develop benches with 15m setback for each vertical increment of 10m



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DRAWING M-4	RECOVERY PLANT REJECTS PLAN AND SECTIONS												
DRAWING M-3	WASTE DUMP 1, WASTE DUMP 2, LOW GRADE STOCKPILE AND COARSE												
	TAILINGS STOCKPILE CROSS SECTIONS AND DETAILS												П
DRAWING M-2	SITE INVESTIGATION AND TERRAIN MAP											T	П
DRAWING M-1	LAYOUT OF WASTE DUMPS AND STOCKPILES								Α	WATER LICENSE APPLICATION	css	JULY 20	54
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WATER LICENSE APPLICATION

SRI	K Consulting	
DESIGNED BY: PM	DRAWN BY: JM	
DATE: JULY 2004	DATE: JULY 2004	
CHECKED BY: CCS	DISCIP. ENGR.	
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PROJ. MGR:	PROJ. ENGR.	
DATE	DATE	
SRK PROJECT NUMBER:		
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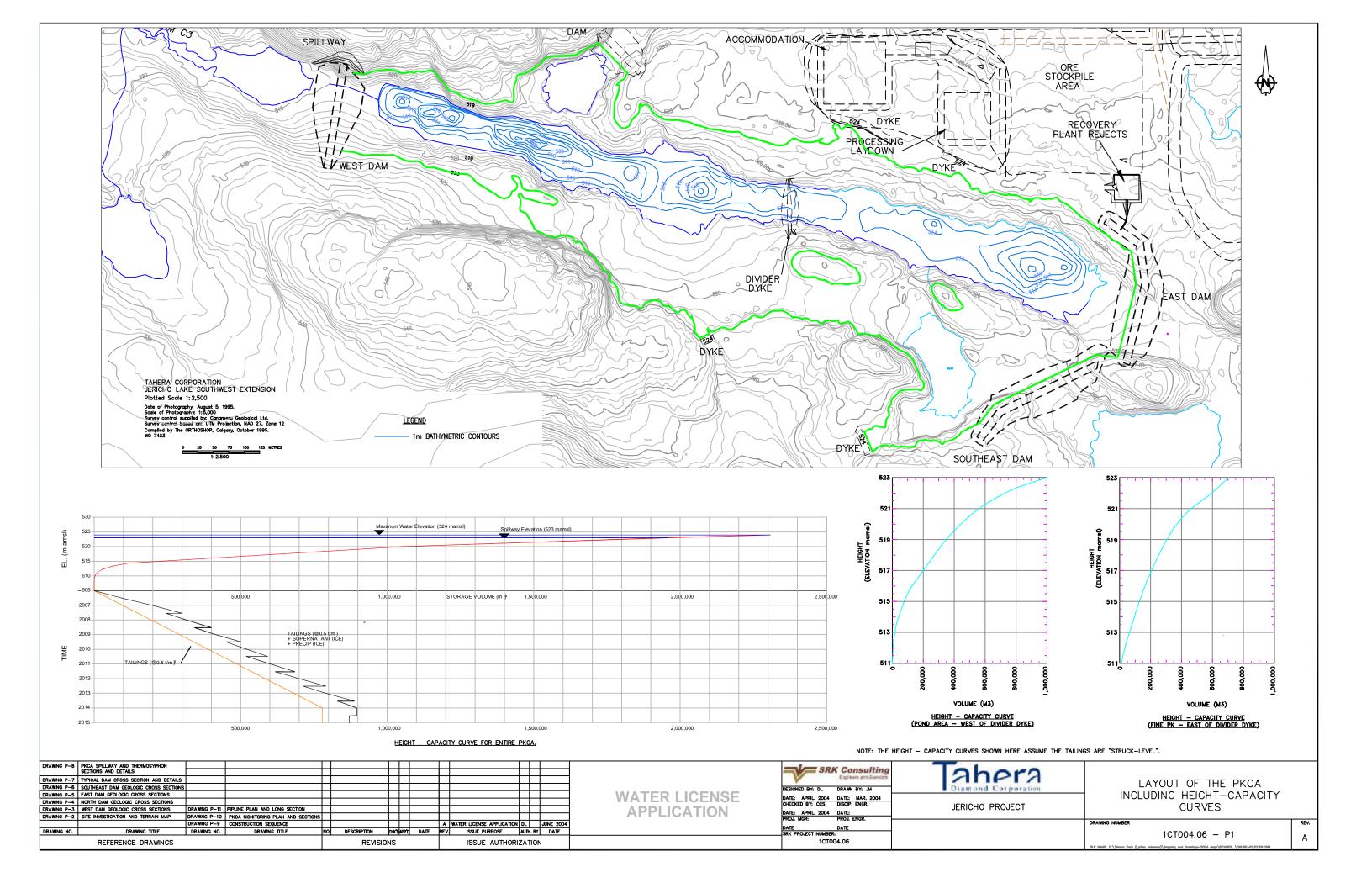
Tahera
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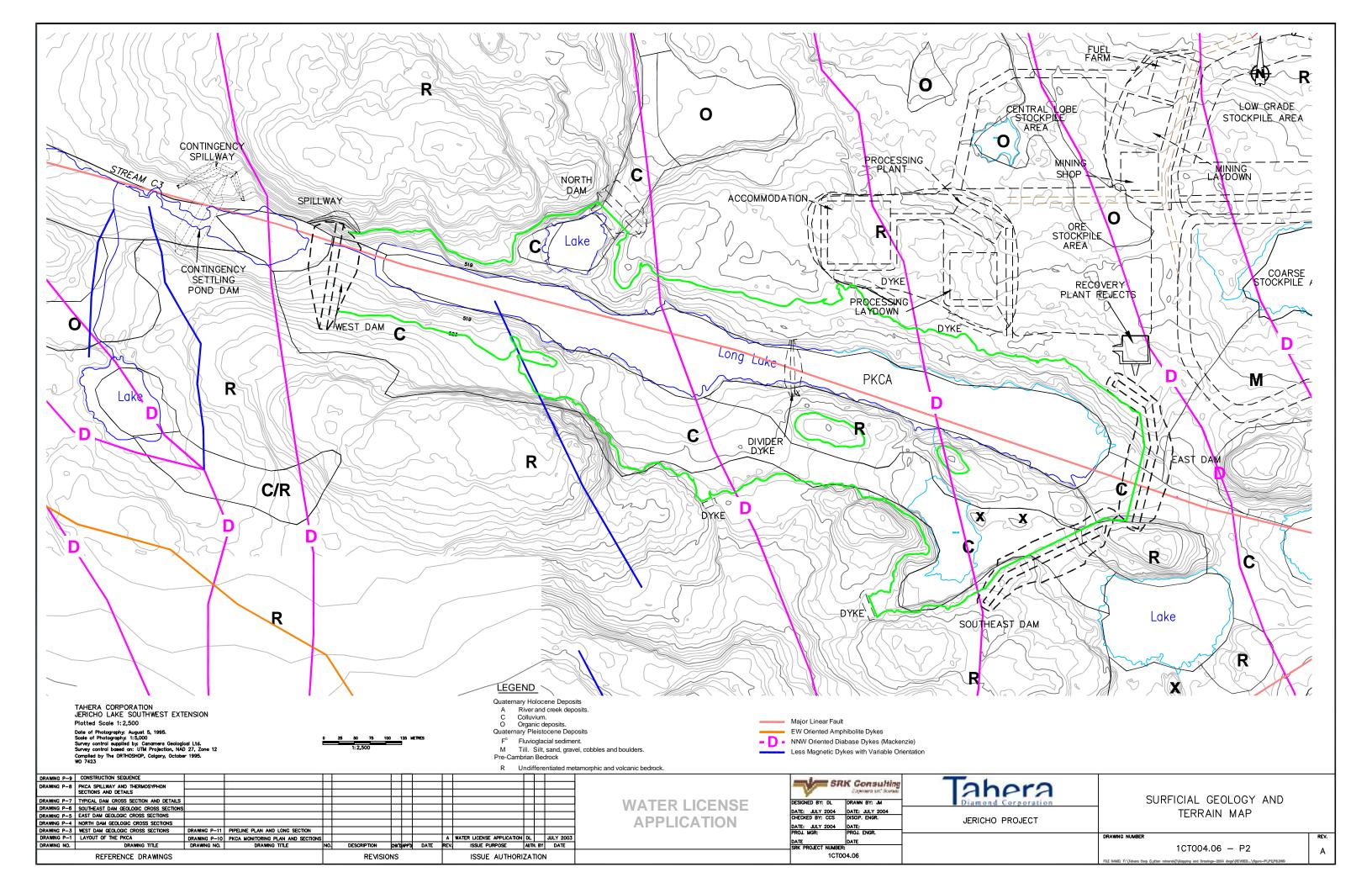
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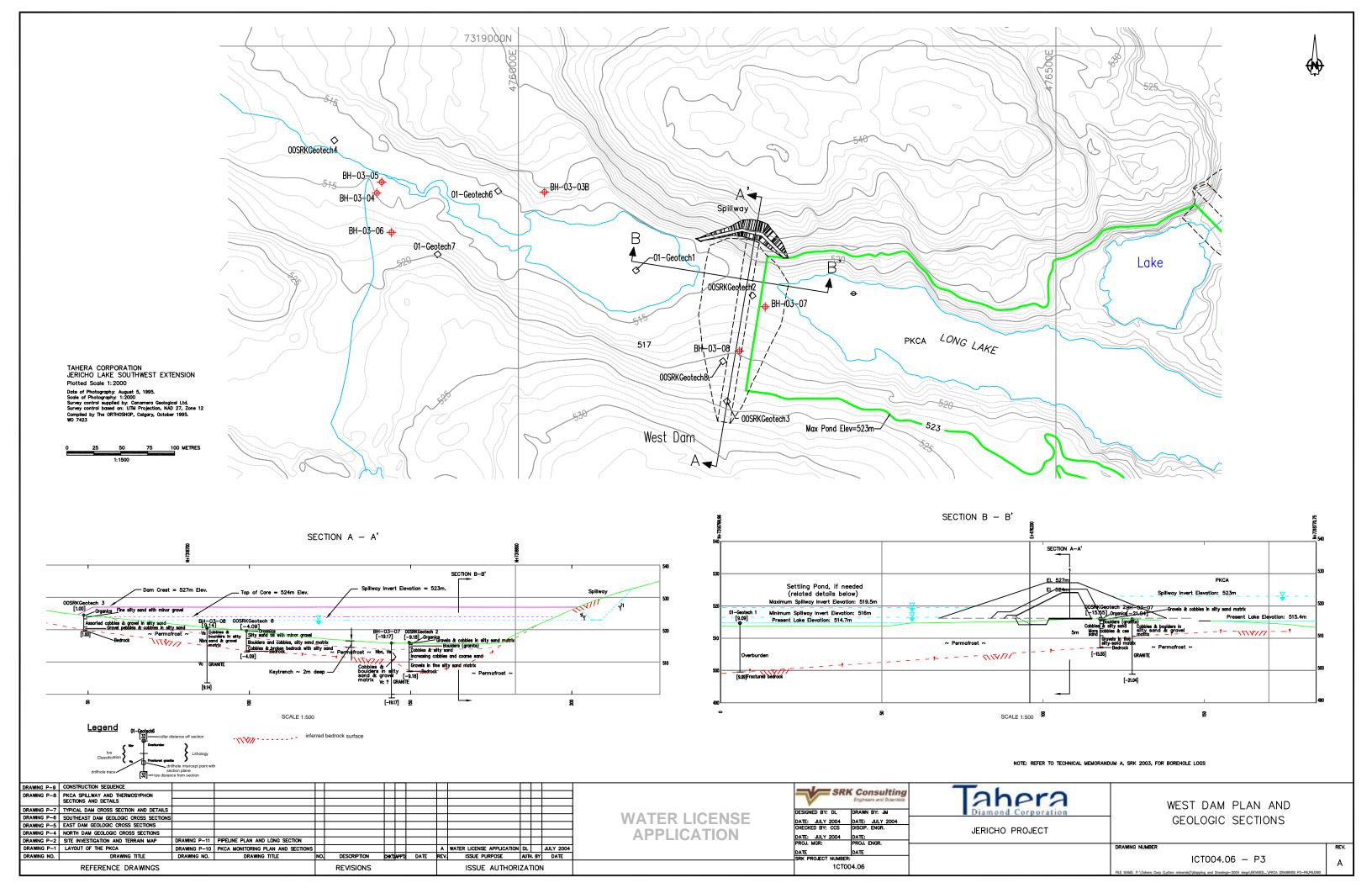
SCHEMATIC OF
WASTE DUMP 1 CONSTRUCTION
SEQUENCE

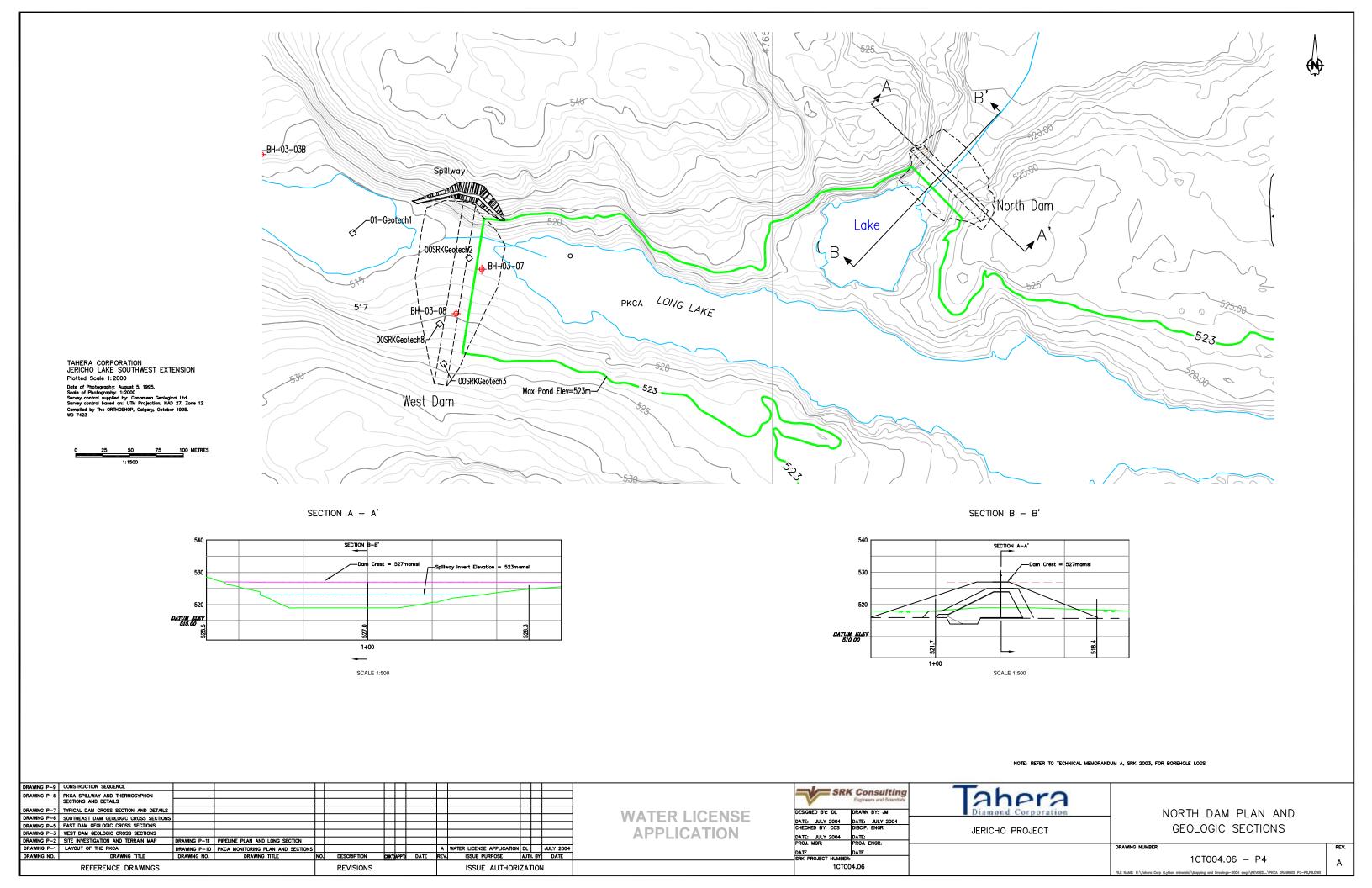
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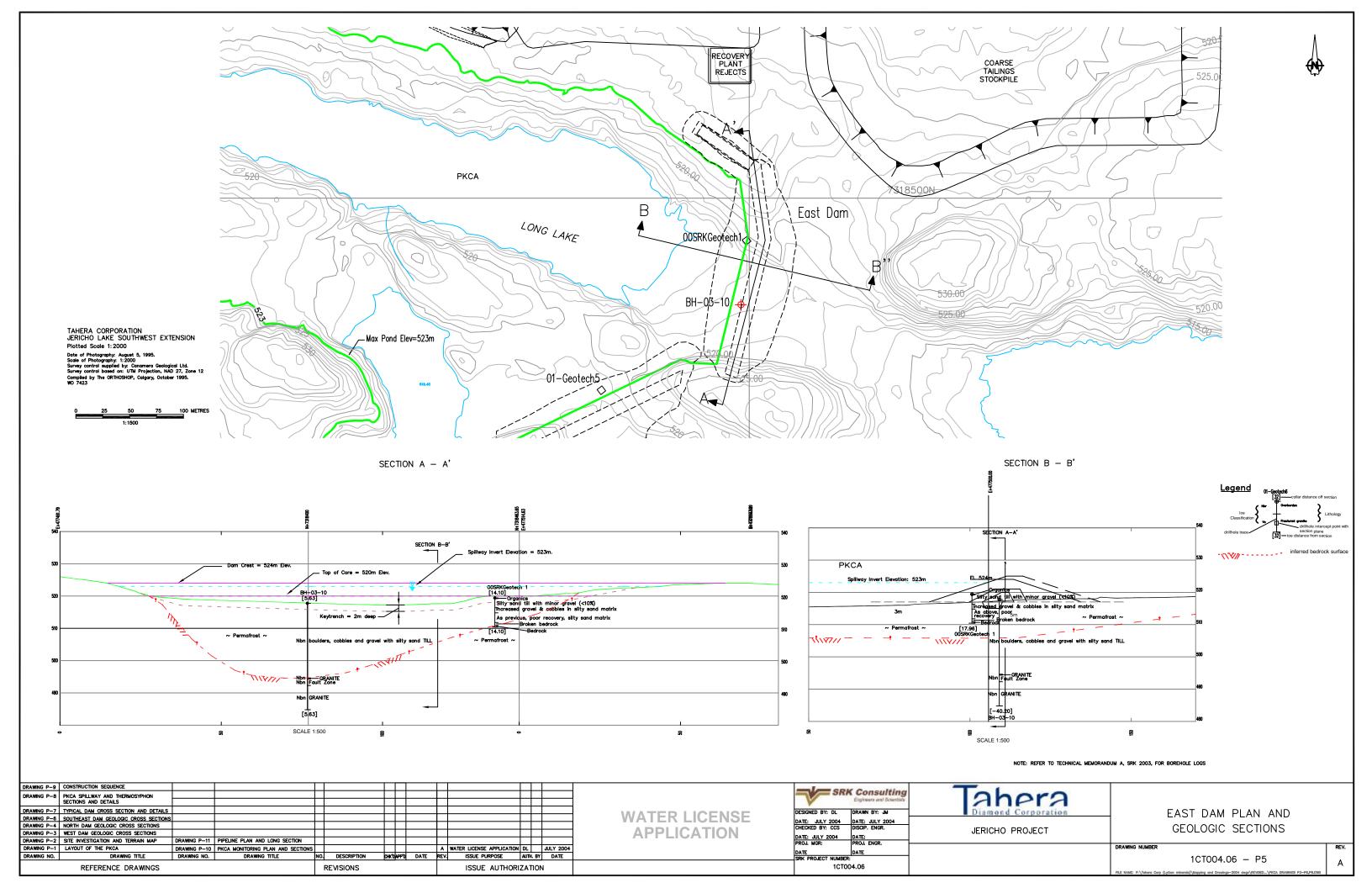
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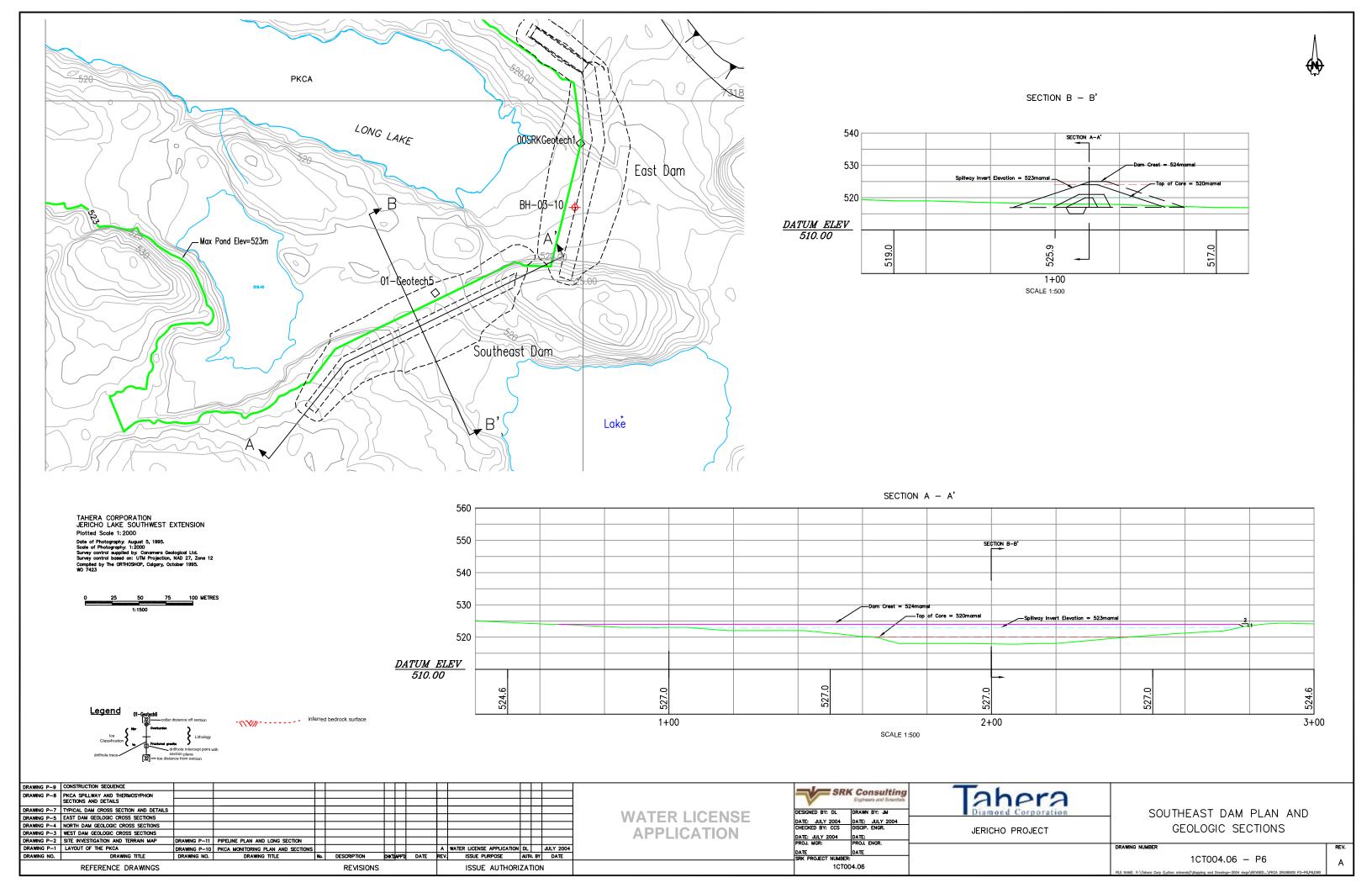


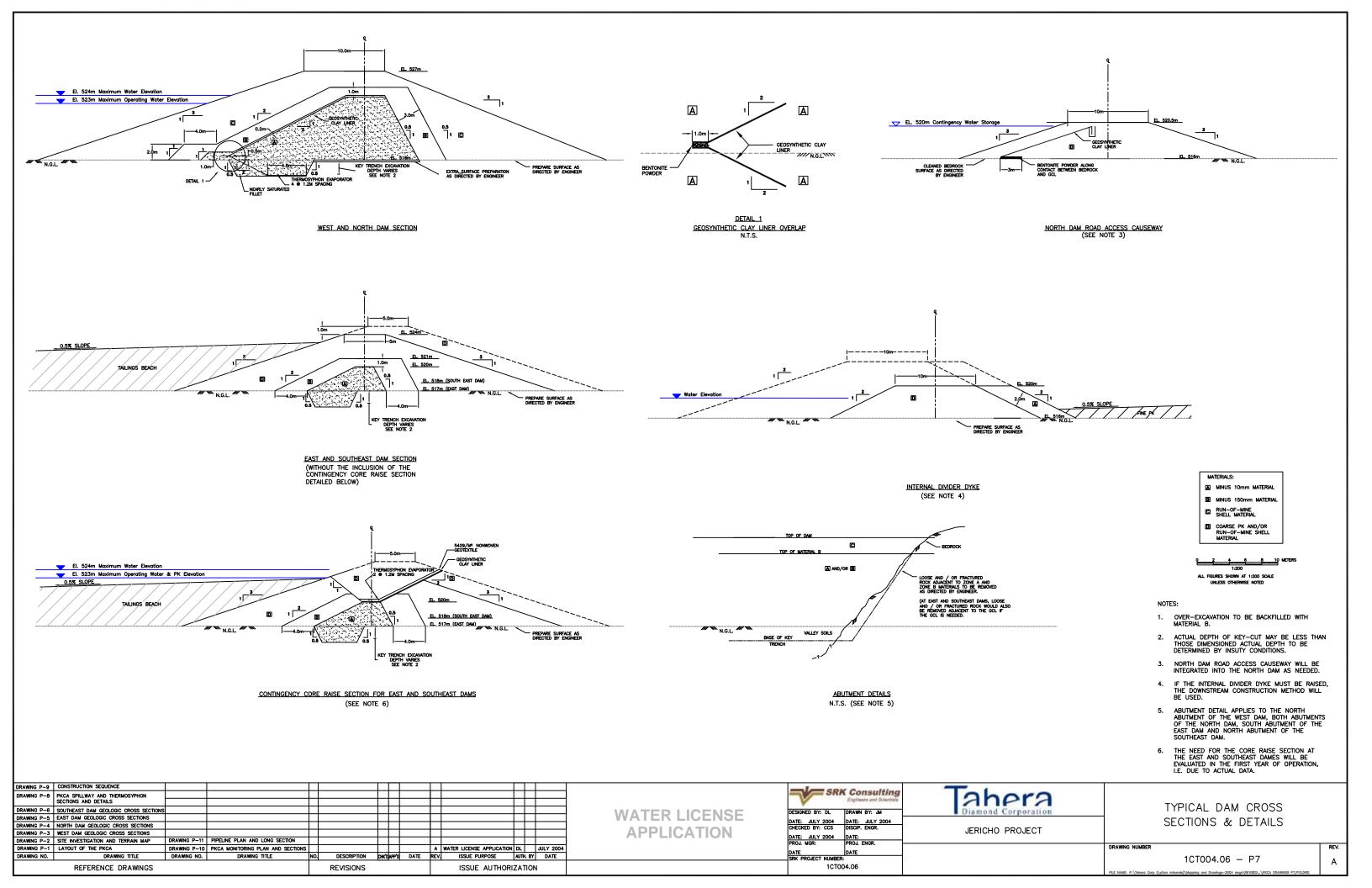


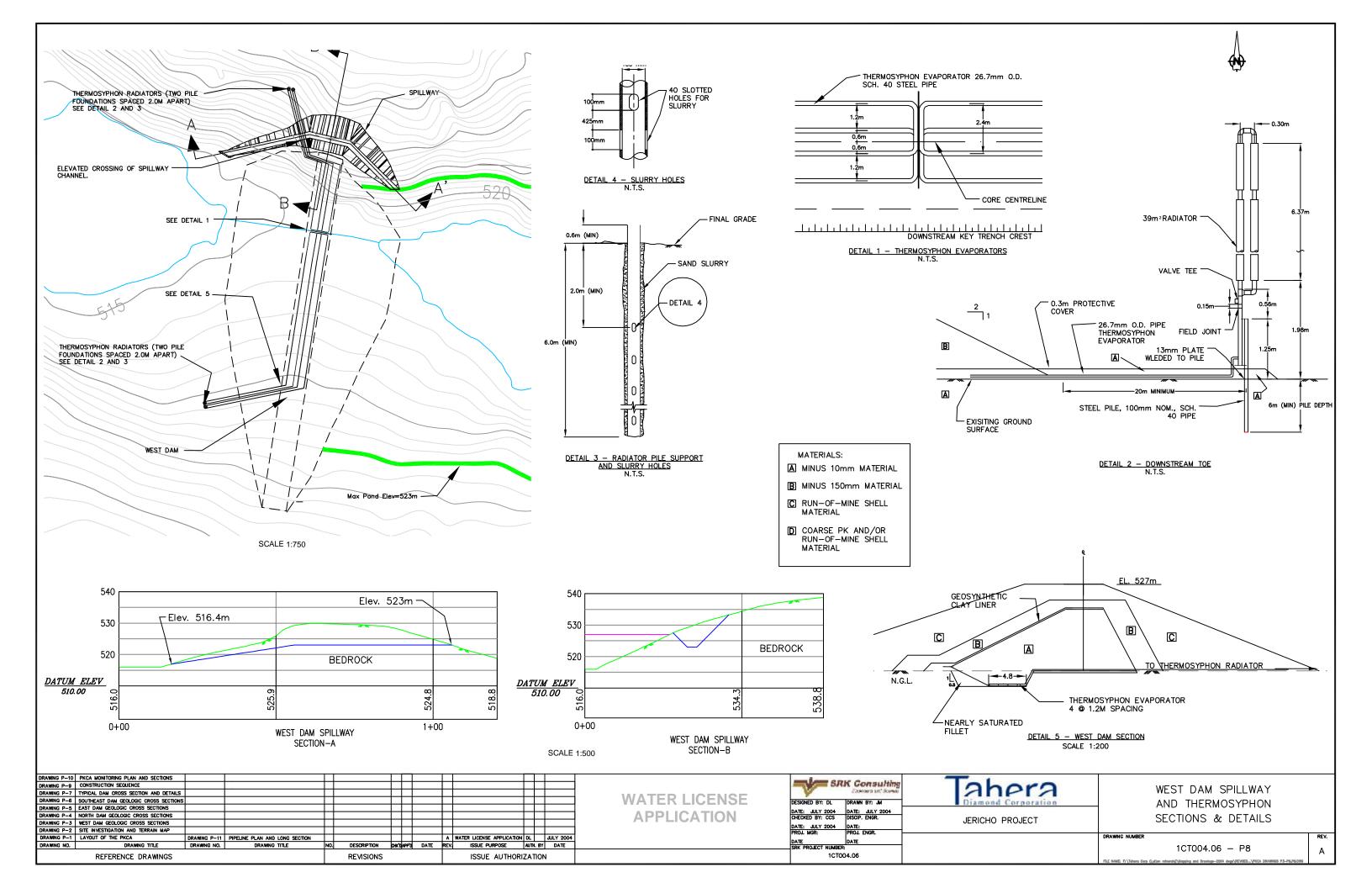


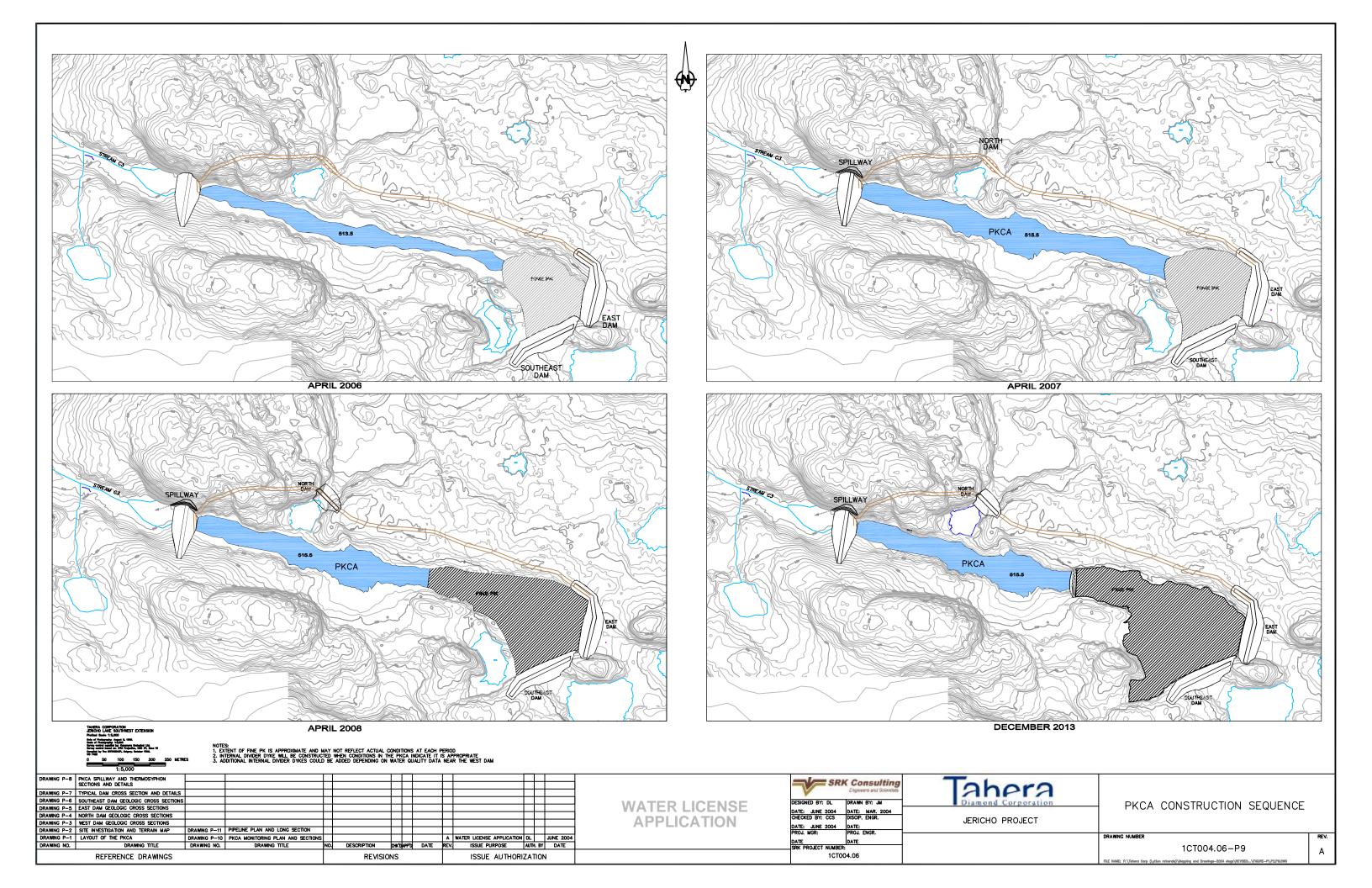


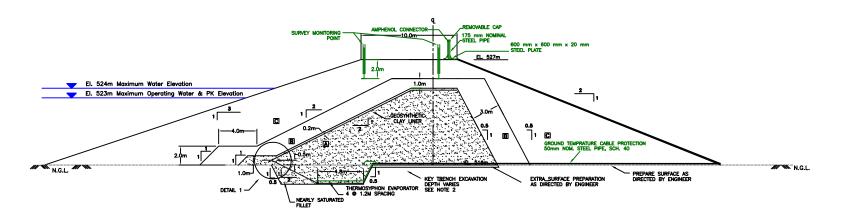




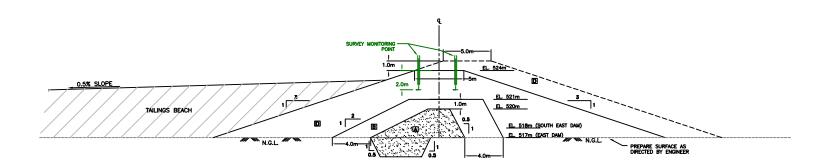




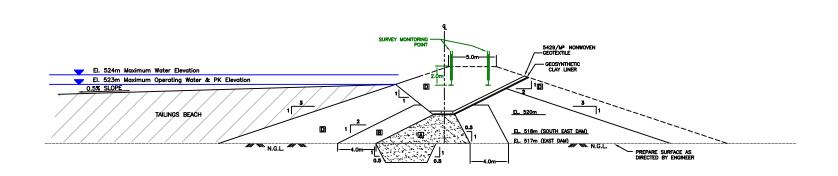




WEST AND NORTH DAM SECTION



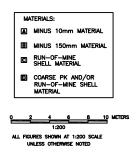
EAST AND SOUTH EAST DAM SECTION



CONTINGENCY CORE RAISE SECTION FOR EAST AND SOUTHEAST DAMS

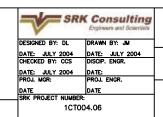
	Summary of Monitoring Details at the PKCA Dams												
Dam	Survey Monitoring Points	Thermistor Stations	Water Quality Monitoring Stations										
West	3 pair	2 cables	1 in PKCA pond and 1 at downstream end of the spillway										
North	1 pair	2 cables											
East	3 pair	2 cables											
Southeast	3 pair	2 cables											

Note: The locations of the monitoring points will be finalized on the design drawings issued for construction.



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DRAWING P-8	PKCA SPILLWAY AND THERMOSYPHON												
	SECTIONS AND DETAILS												
DRAWING P-7	TYPICAL DAM CROSS SECTION AND DETAILS												
DRAWING P-6	SOUTHEAST DAM GEOLOGIC CROSS SECTIONS												
DRAWING P-5	EAST DAM GEOLOGIC CROSS SECTIONS												
DRAWING P-4	NORTH DAM GEOLOGIC CROSS SECTIONS												
DRAWING P-3	WEST DAM GEOLOGIC CROSS SECTIONS												
DRAWING P-2	SITE INVESTIGATION AND TERRAIN MAP	DRAWING P-11	PIPELINE PLAN AND LONG SECTION										
DRAWING P-1	LAYOUT OF THE PKCA	DRAWING P-9	CONSTRUCTION SEQUENCE	Т					Α	WATER LICENSE APPLICATION	DL	П,	JULY 2004
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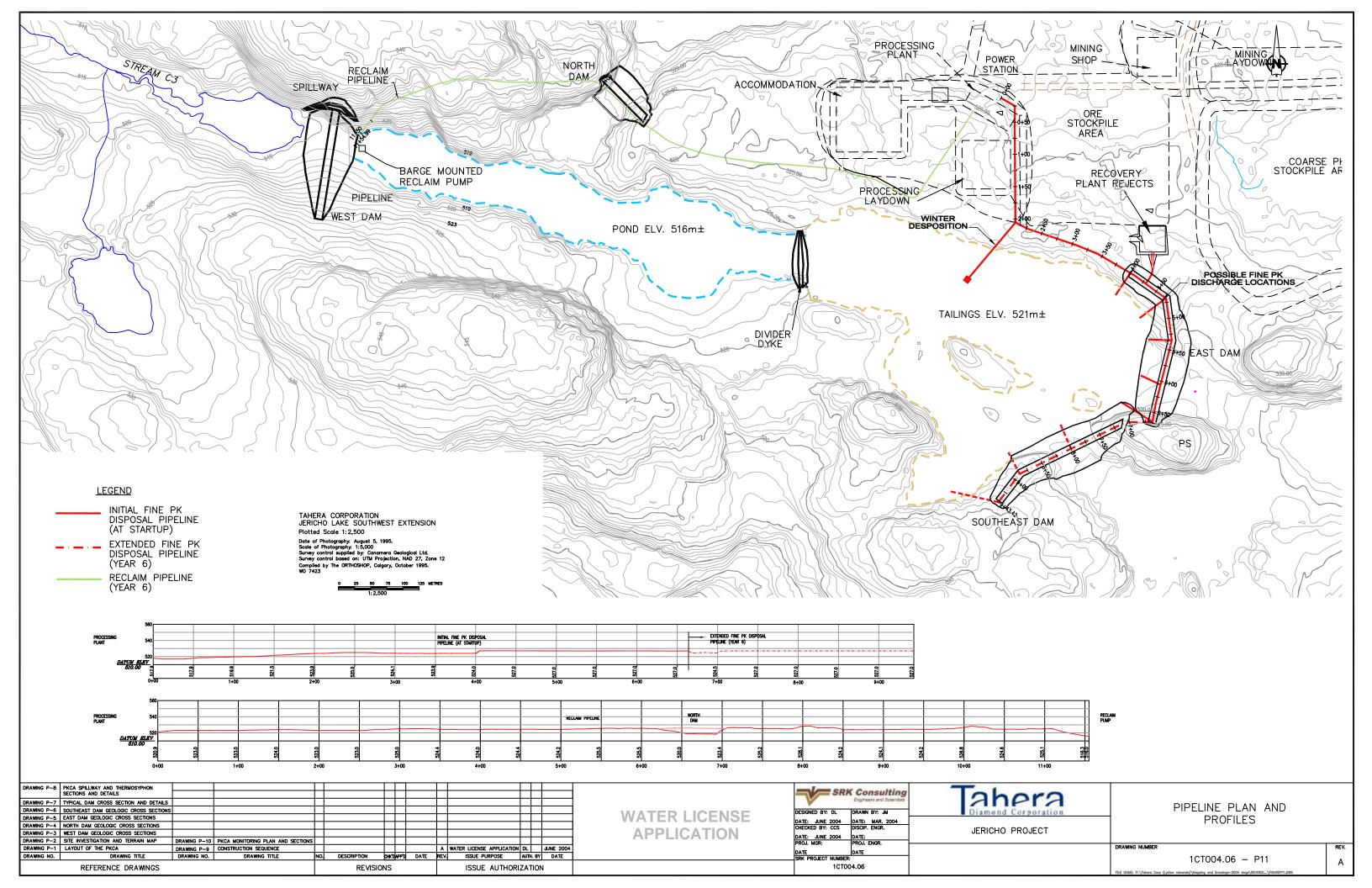
WATER LICENSE **APPLICATION**

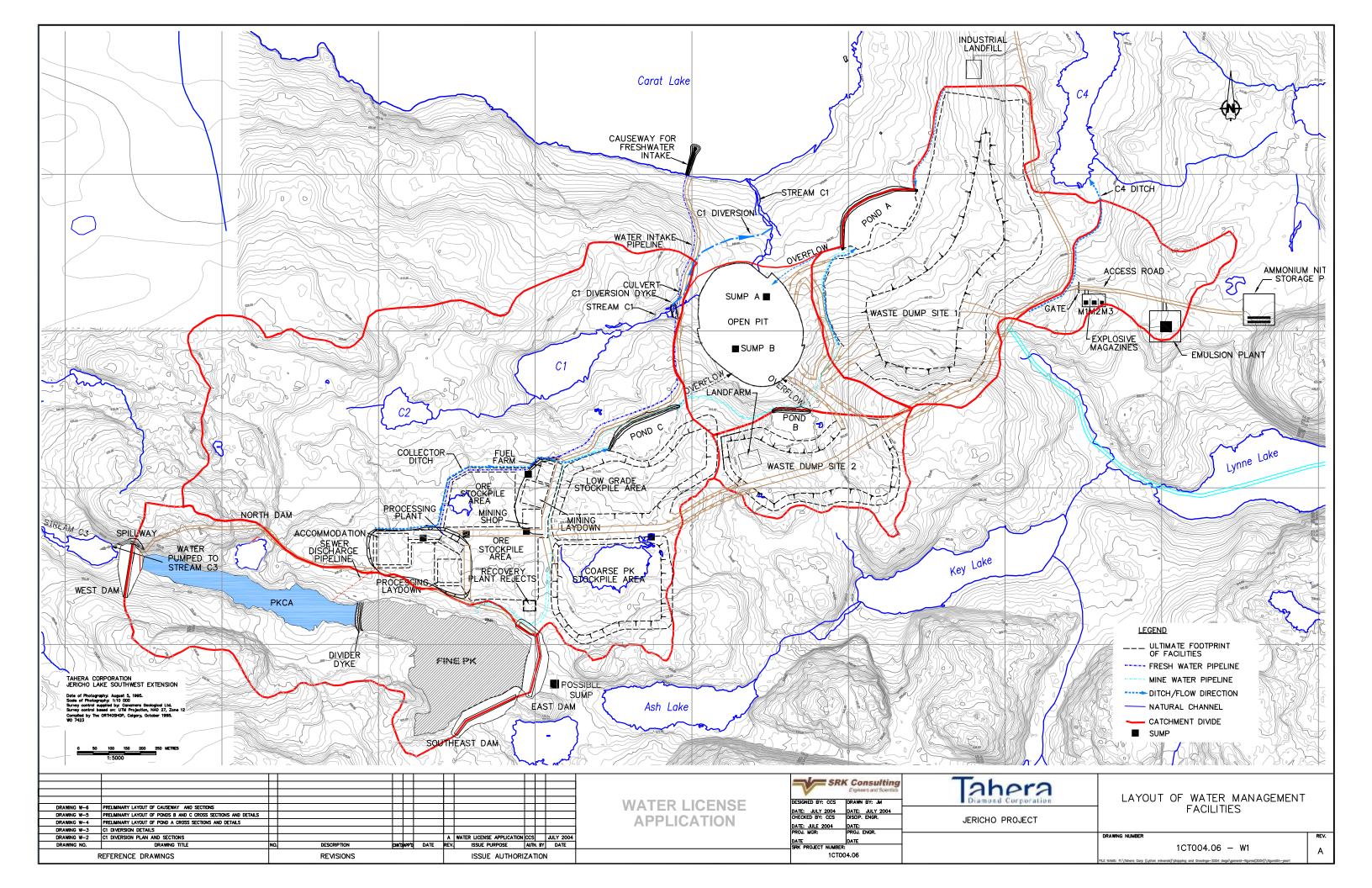


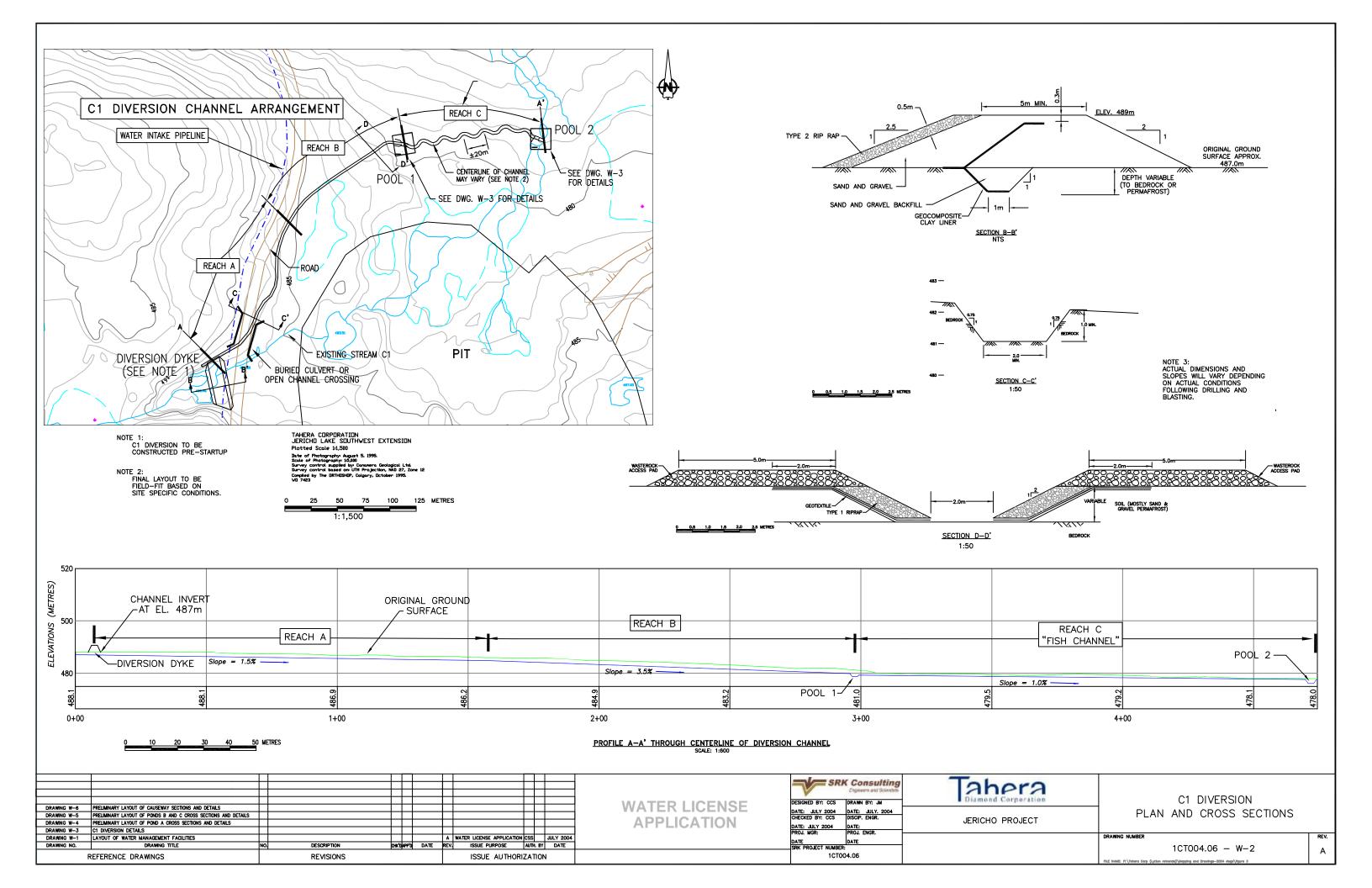
ahera JERICHO PROJECT

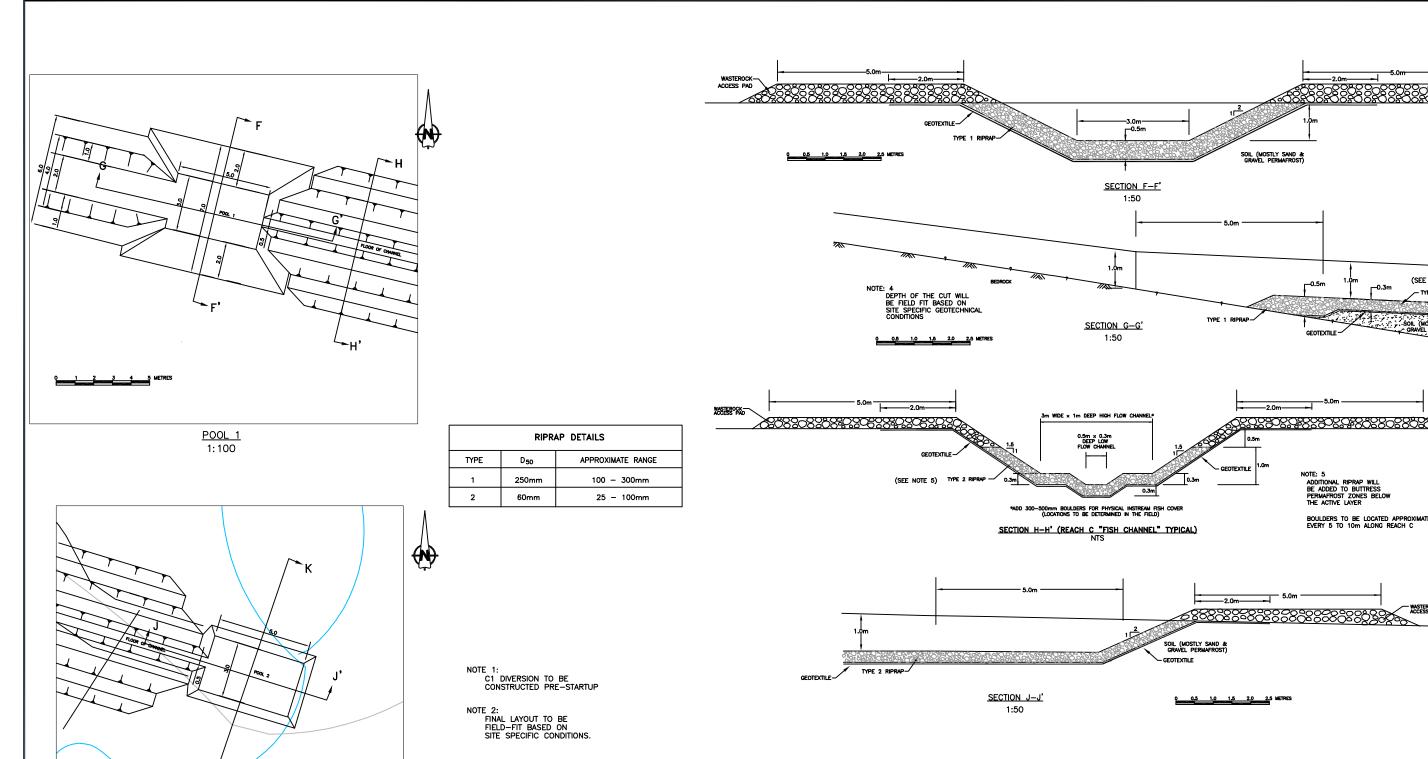
PKCA MONITORING PLAN SECTION & DETAILS

1CT004.06 - P10









1.0m NATURAL CHANNEL INVERT (VARIES) GEOTEXTILE TRANSITION TO EXISTING NATURAL CHANNEL (FIELD FIT) TYPE 2 RIPRAF SECTION K-K' 1:50

POOL 2 1:100

DRAWING W-6

PRELIMINARY LAYOUT OF CAUSEWAY SECTIONS AND DETAILS

DRAWING W-5

PRELIMINARY LAYOUT OF POINDS B AND C CROSS SECTIONS AND DETAILS

DRAWING W-4

CT DIVERSION PLAN AND CROSS SECTIONS AND DETAILS

DRAWING W-1

LAYOUT OF WATER MANAGEMENT FACILITIES

DRAWING W-1

LAYOUT OF WATER MANAGEMENT FACILITIES ISSUE PURPOSE AUTH, BY DATE REFERENCE DRAWINGS REVISIONS ISSUE AUTHORIZATION

WATER LICENSE APPLICATION

SRK Consulting ahera JERICHO PROJECT

1CT004.06

C1 DIVERSION CHANNEL DETAILS

Α

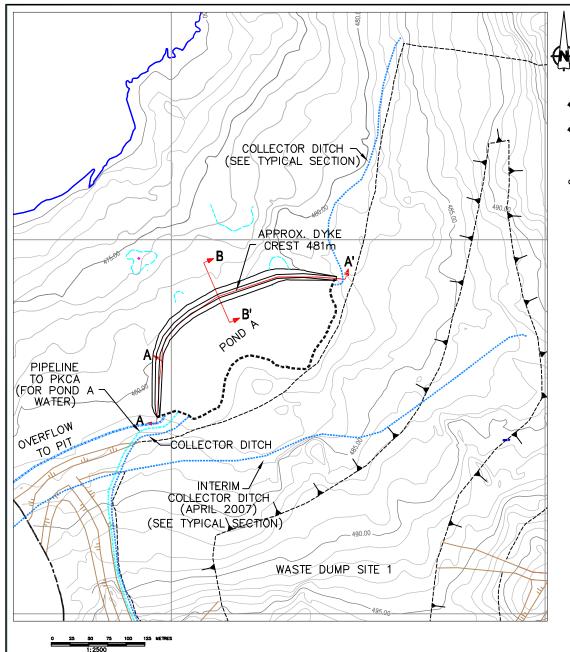
1CT004.06 - W-3

NOTE: 5

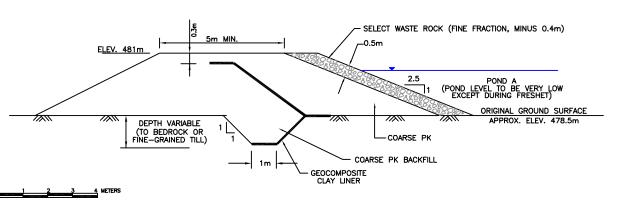
ADDITIONAL RIPRAP WILL BE ADDED TO BUTTRESS PERMAFROST ZONES BELOW THE ACTIVE LAYER

BOULDERS TO BE LOCATED APPROXIMATELY EVERY 5 TO 10m ALONG REACH C

(SEE NOTE 4)



<u>SECTION A-A'</u> 1:750

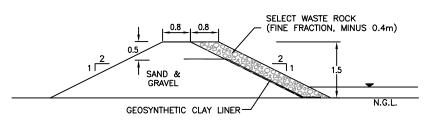


SECTION B-B' (TYPICAL DYKE SECTION) 1:75

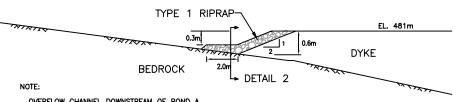
TAHERA CORPORATION
JERICHO LAKE SOUTHWEST EXTENSION

NOTE:

- 1. DRAWING SHOWS CONCEPTUAL SIZE AND LOCATION OF POND A IF REQUIRED, POND A WILL BE CONSTRUCTED BEFORE APRIL 2008.
- 2. DITCH ALIGNMENT AND SECTION TO BE FIELD FIT CONSISTENT WITH LOCAL GROUND CONDITIONS.



COLLECTOR AND INTERIM COLLECTOR DITCHES - TYPICAL SECTION NTS



OVERFLOW CHANNEL DOWNSTREAM OF POND A WILL BE CONTROLLED BY A BERM ON BEDROCK SIMILAR TO THE TYPICAL COLLECTOR DITCH SECTION AND/OR A DITCH EXCAVATED IN THE NATURAL SOIL (DETAIL 2 ON DWG.1CT004.06-W5

> DETAIL 1 OVERFLOW CHANNEL AT DYKE N.T.S.

DRAWING W-6	PRELIMINARY LAYOUT OF CAUSEWAY SECTIONS AND DETAILS										
DRAWING W-5	PRELIMINARY LAYOUT OF PONDS B AND C CROSS SECTIONS AND DETAILS										
DRAWING W-3	C1 DIVERSION DETAILS										
DRAWING W-2	C1 DIVERSION PLAN AND CROSS SECTIONS										
DRAWING W-1	LAYOUT OF WATER MANAGEMENT FACILITIES						Α	WATER LICENSE APPLICATION	CSS		JULY 2004
DRAWING NO.	DRAWING TITLE	NO.	DESCRIPTION	CHK	DAPP'D	DATE	REV.	. ISSUE PURPOSE	AUTH.	. BY	DATE
REFERENCE DRAWINGS			REVISIONS					ISSUE AUTHORI	7 A T	אחד	

WATER LICENSE **APPLICATION**

SJ SJ	RK Consulting	Tahera
DESIGNED BY: DL	DRAWN BY: JM	Diamond Corporation
DATE: JULY 2004	DATE: JULY 2004	130
CHECKED BY: CCS	DISCIP. ENGR.	JERICHO PROJECT
DATE: JULY 2004	DATE:	OLINOHO I NOOLOT
PROJ. MGR:	PROJ. ENGR.	
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1CT004.06

PRELIMINARY LAYOUT OF POND A CROSS SECTIONS & DETAILS

DRAWING NUMBER	REV.
1CT004.06 - W4	Α
FLE NAME: F:\Tahera Corp (Lytten minerale)\Mapping and Drawings-2004 dugs\general-figures(2004)\FIG-2	İ

