

**Deh Cho Bridge Proposal
Developer's Assessment Report**

Submission to the Mackenzie Valley Environmental Impact Review Board

Appendix 1-A

Development Description - Plans & Drawings

Jivko Engineering

(April 2004)

List of Plans & Drawings

1. Geographic Map 1:5,000,000
2. Topographic Map 1:50,000
3. Hydrographics Chart 1:25,000
4. Preliminary Design Cover Drawing
5. Bridge Parameters
6. Plan And Profile & Details
7. Bridge Approaches, Plan & Profile
8. Bridge Approaches, Typical Sections
9. North Approach & Detour, General Arrangement
10. South Approach, General Arrangement
11. Air Photo: Construction Corridor, Camp, Borrow Pits & Storage Areas, Hwy #3, Km 23+120 To Km 26+240
12. Air Photo: North Concrete Plant, Hwy #3, Km 30.2
13. Limestone Quarry & Gravel Pit, Hwy #1 Km 188.5
14. Aggregate Pit, Hwy #3 Km 87
15. Grey Limestone Quarry, Hwy #3 Km 156
16. Granite Quarry, Hwy #3, Km 231.8
17. Air Photo: General Arrangement Of Bridge

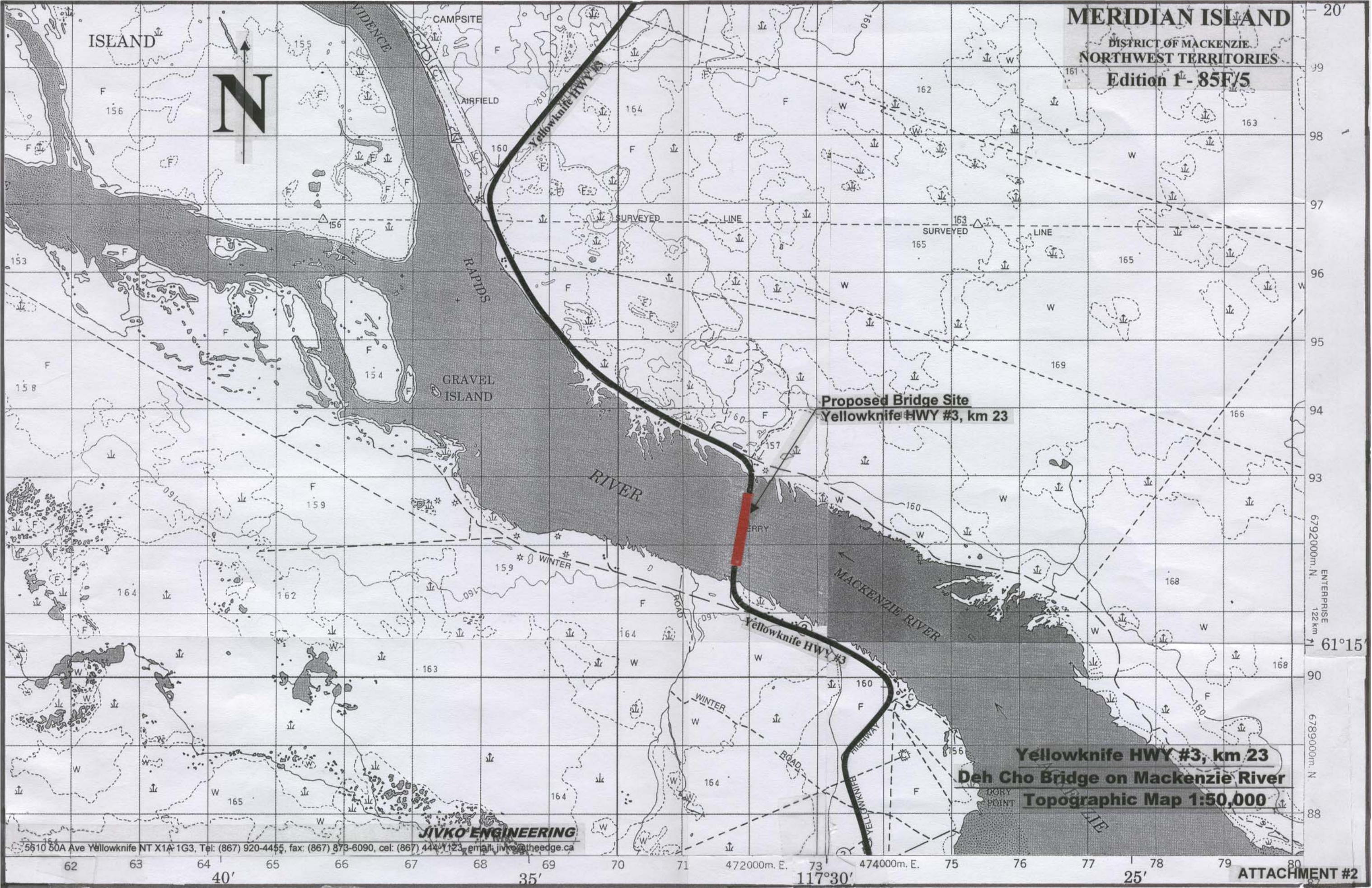


**PROPOSED DEH CHO BRIDGE
ON MACKENZIE RIVER**

Proposed Bridge Site

ATTACHMENT #1

MERIDIAN ISLAND
DISTRICT OF MACKENZIE
NORTHWEST TERRITORIES
Edition 1st - 85F/5



Proposed Bridge Site
Yellowknife HWY #3, km 23

Yellowknife HWY #3, km 23
Deh Cho Bridge on Mackenzie River
Topographic Map 1:50,000

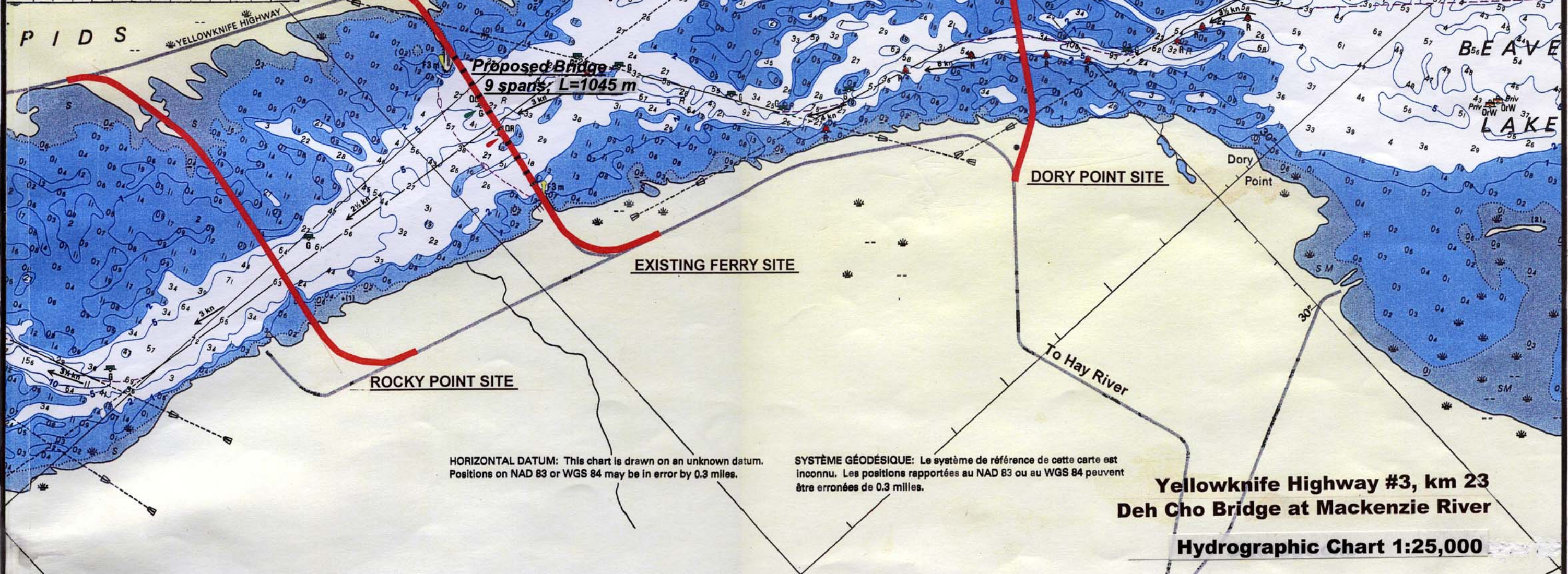
JIVKO ENGINEERING

5610 50A Ave Yellowknife NT X1A 1G3, Tel: (867) 920-4455, fax: (867) 873-6090, cel: (867) 444-1123, email: jivko@theedge.ca

Metres	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Metres
Mètres	Janv.	Fév.	Mars	Avril	Mai	Juin	Juil.	Août	Sept.	Oct.	Nov.	Déc.	Mètres
1.8													1.8
1.4													1.4
1.2													1.2
1.0													1.0
0.8													0.8
0.6													0.6
0.4													0.4
0.2													0.2
0.0													0.0

Chart Datum / Zéro des cartes
151.08 m GD

MONTHLY MEAN WATER LEVEL
 Highest ——— Le plus élevé
 Average ———— Moyen
 Lowest - - - - - Le plus bas

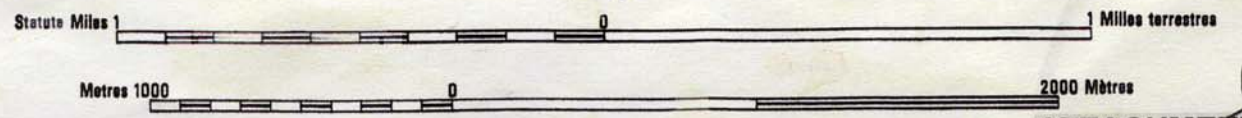


HORIZONTAL DATUM: This chart is drawn on an unknown datum. Positions on NAD 83 or WGS 84 may be in error by 0.3 miles.

SYSTÈME GÉODÉSIQUE: Le système de référence de cette carte est inconnu. Les positions rapportées au NAD 83 ou au WGS 84 peuvent être erronées de 0.3 milles.

**Yellowknife Highway #3, km 23
Deh Cho Bridge at Mackenzie River**

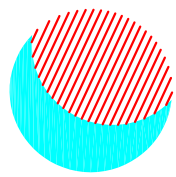
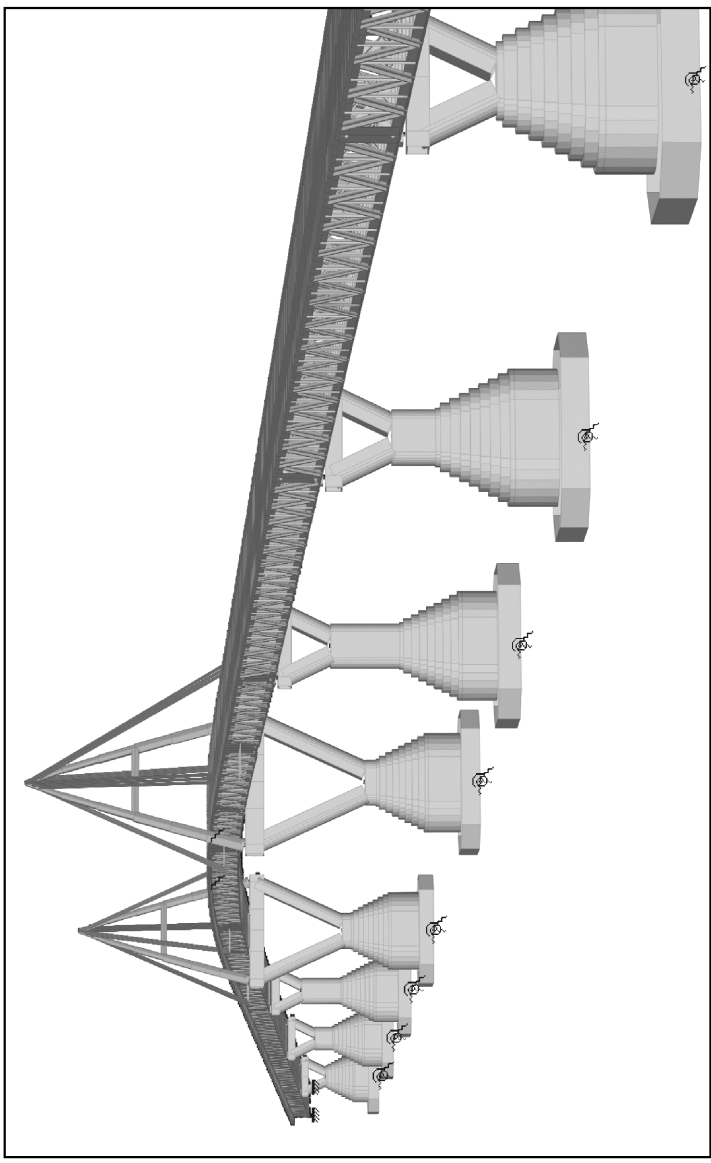
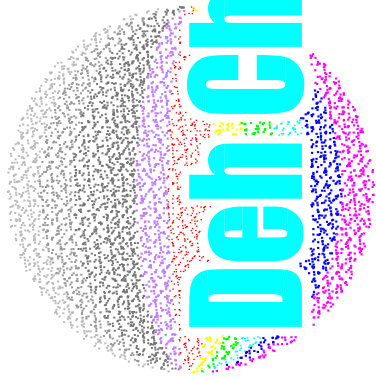
Hydrographic Chart 1:25,000



DEH CHO BRIDGE

YELLOWKNIFE HWY#3 Km 23

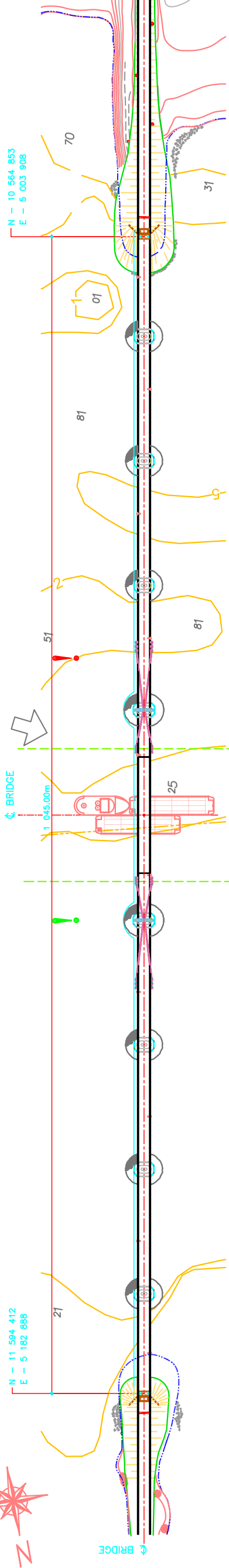
ON MACKENZIE RIVER



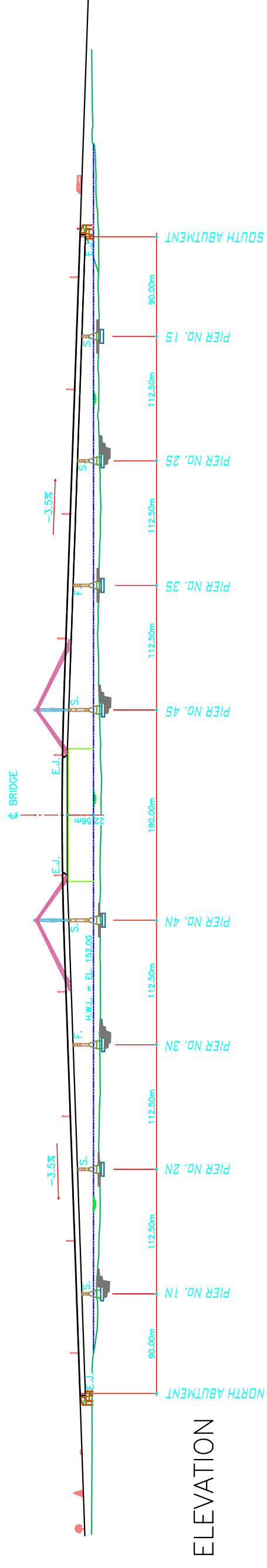
**Andrew Gamble &
Associates**

JIVKO ENGINEERING
5610, 50 "A" Avenue, Yellowknife, NT, X1A-1G3
Phone (867) 920-4455, Fax (867) 873-6090

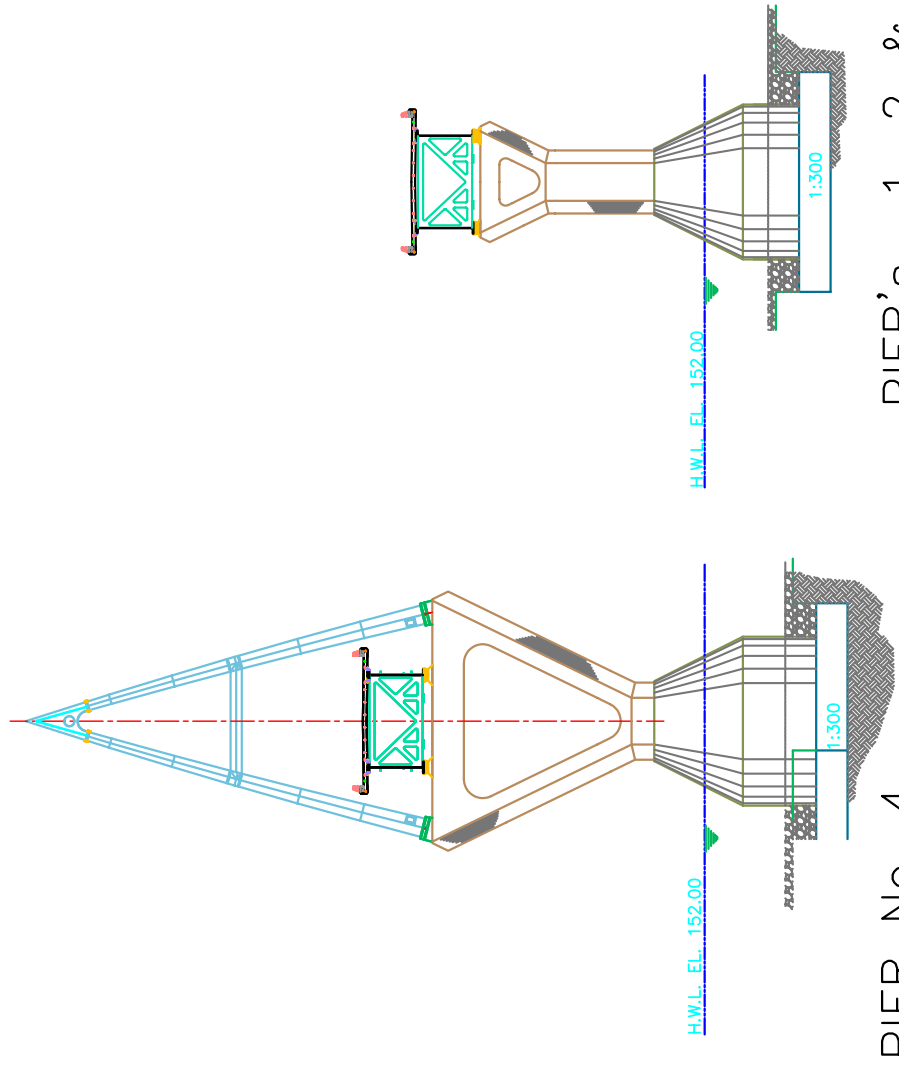
J. R. Spronken & Associates Ltd.
Consulting Professional Engineers
Calgary, Alberta
Phone: 265-1123 E-Mail : jrso@spronken.net Fax: 265-1784



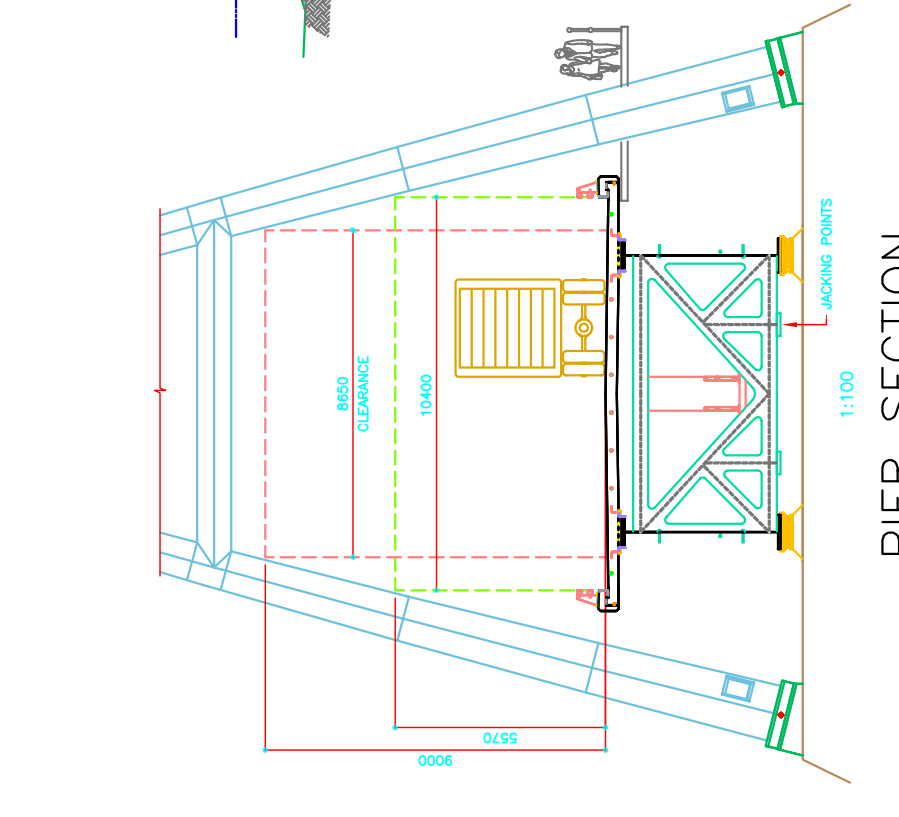
PLAN



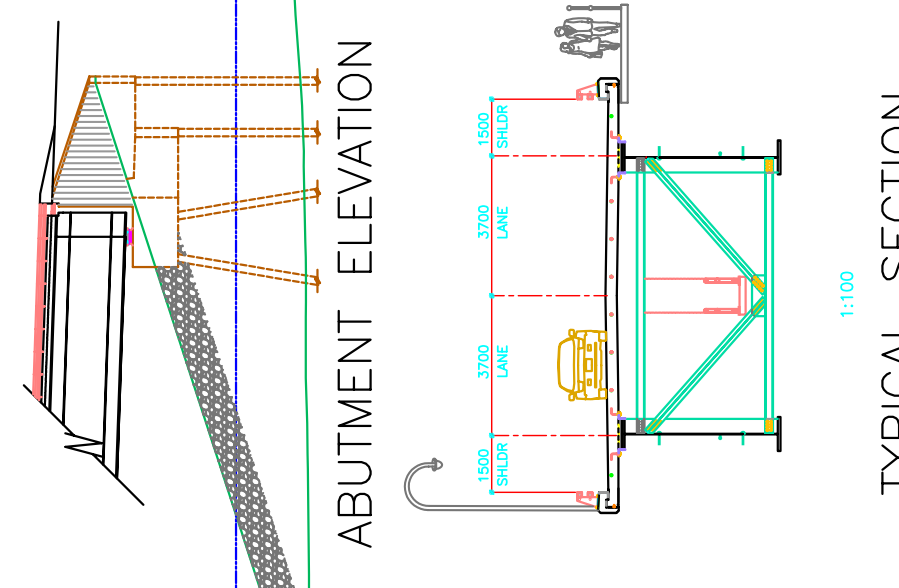
ELEVATION



PIER No. 4



PIER SECTION



ABUTMENT ELEVATION

TYPICAL SECTION

ALL DIMENSIONS & ELEVATIONS ARE APPROXIMATE & ARE SHOWN FOR REPRESENTATION ONLY

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REV	DATE	DESCRIPTION



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Phone (867) 924-4455, Fax (867) 872-8090

Project
YELLOWKNIFE HWY#3 Km 23
DEH CHO BRIDGE
ON MACKENZIE RIVER

Title
PROPOSED
BRIDGE
PLAN & PROFILE

Scale: 2000

Surveyed by: _____ date: 04.01.29

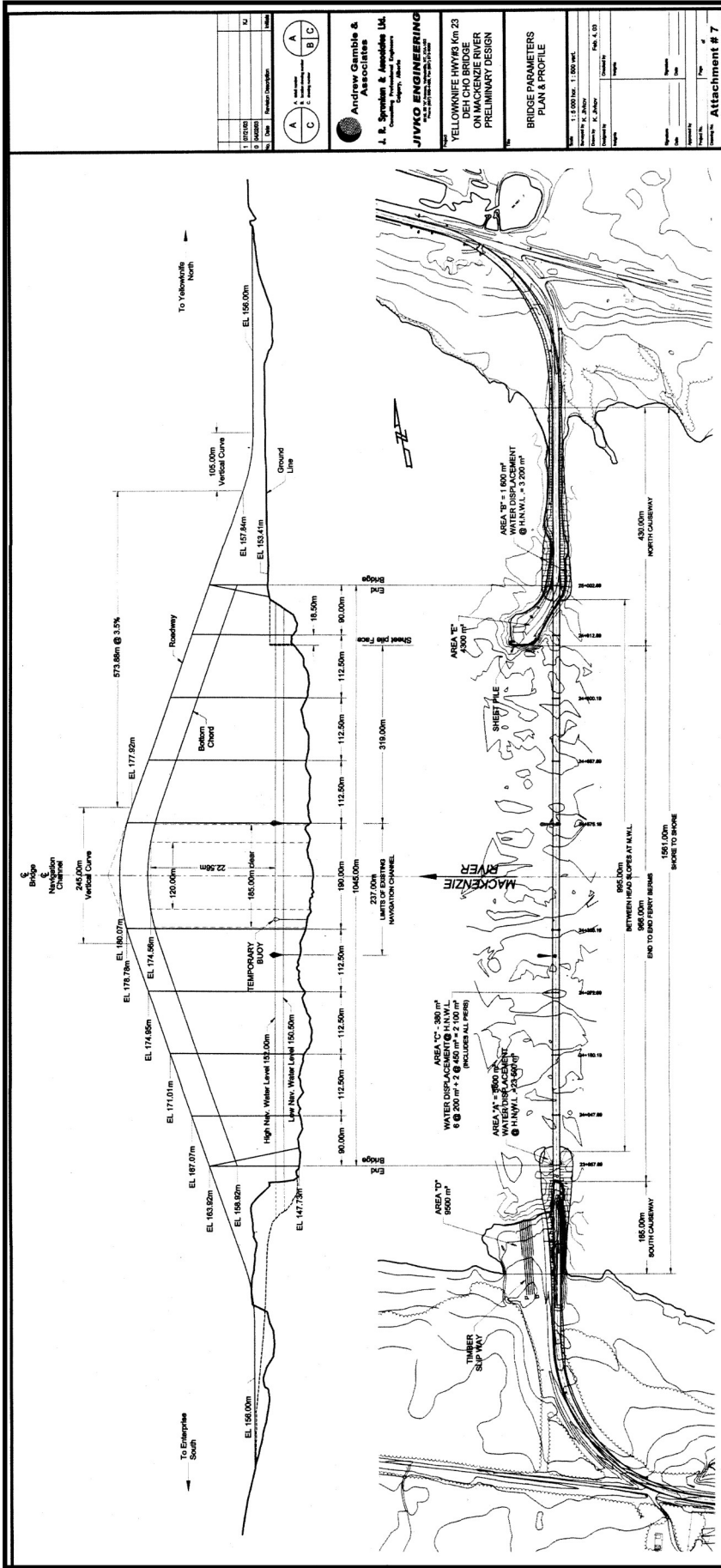
Designed by: _____ Checked by: _____

SEAL: _____

Signature: _____ Date: _____

Approved by: _____ Signature: _____ Date: _____

Project No. 02.152 Page 02 of 152
Drawing No. 02.152



No.	Date	Revised Description	By	Check
1	10/10/01			
2	10/02/01			

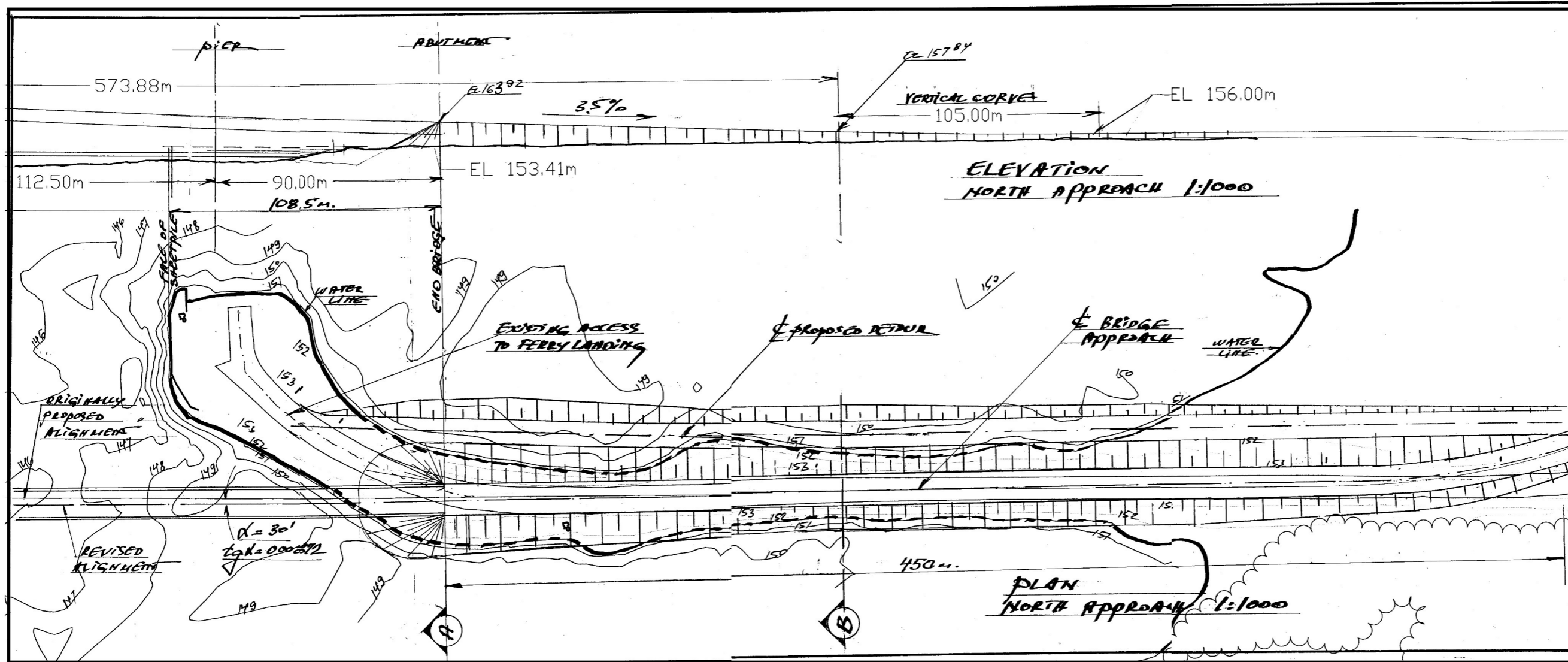
Andrew Gamble & Associates
A. R. Spratton & Associates UK
 Consulting Professional Engineers
 Supply: Water

JIVKO ENGINEERING
 100, St. Andrew's Street, London, E1 1AA

YELLOWKNIFE HWY/8, Km 23
 DEB CHO BRIDGE
 ON MACKENZIE RIVER
 PRELIMINARY DESIGN

BRIDGE PARAMETERS
 PLAN & PROFILE

Scale: 1:2,000 Plan, 1:500 Prof.	Drawn: K. J. J. J.	Checked: K. J. J. J.	Scale: 1:2,000
Author: K. J. J. J.	Project: Mackenzie River	Sheet: 7 of 7	
Client: Jivko Engineering	Contract: Mackenzie River	Revision: 1	
Project: Mackenzie River	Contract: Mackenzie River	Revision: 1	
Project: Mackenzie River	Contract: Mackenzie River	Revision: 1	



ELEVATION
NORTH APPROACH 1:1000

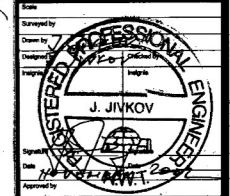
PLAN
NORTH APPROACH 1:1000

A	B	A
C	C	C

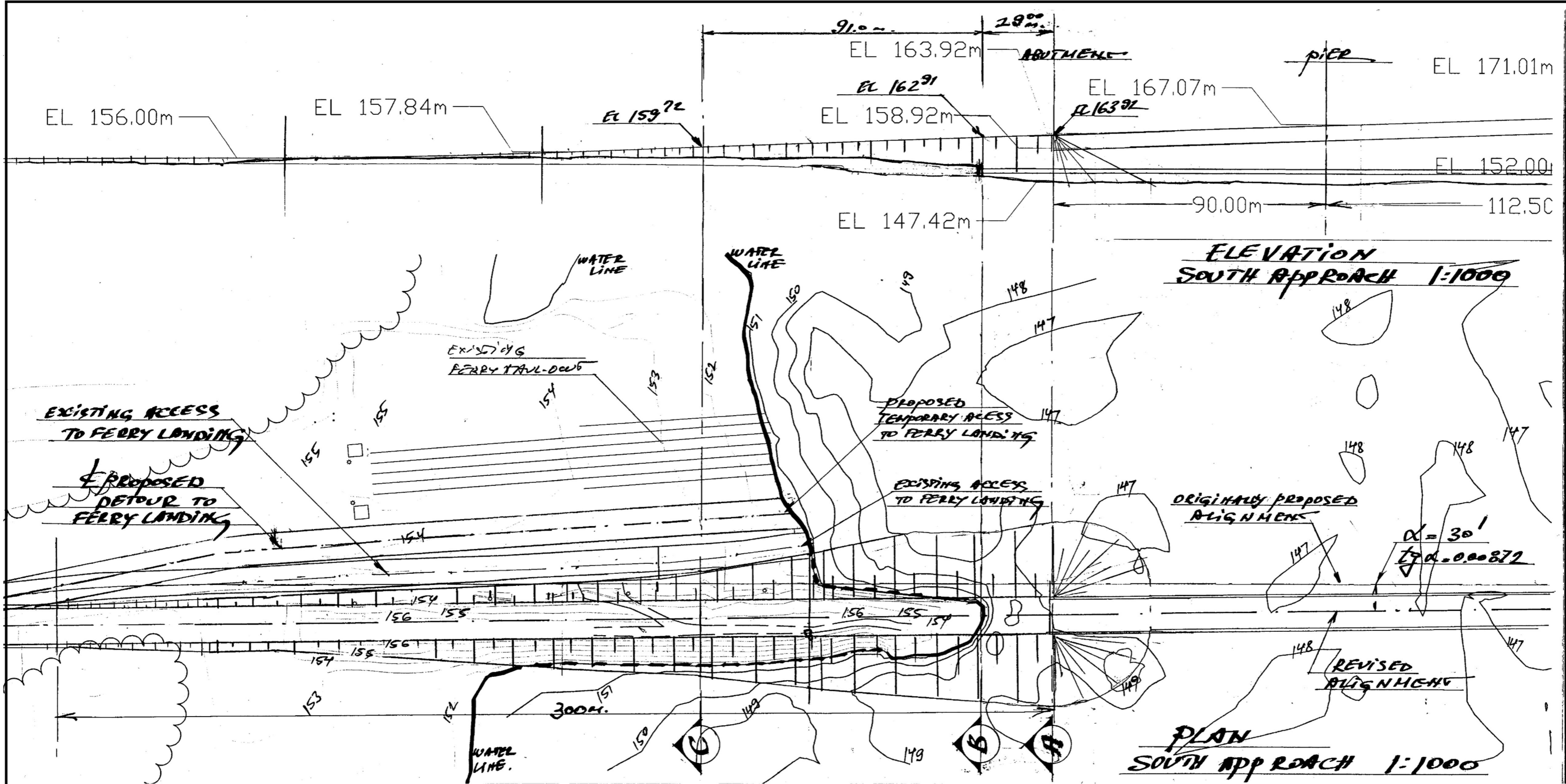
JIVKO ENGINEERING
1100 St. Charles, Vancouver, BC V6A 1K6
 Phone: (604) 271-4444, Fax: (604) 271-2000

YELLOWKNIFE HWY#3 Km 23
 DEH CHO BRIDGE
 ON MACKENZIE RIVER
 PRELIMINARY DESIGN

NORTH APPROACH
 TO FERRY LANDING
 General Arrangement



Attachment # 9



ELEVATION SOUTH APPROACH 1:1000

PLAN SOUTH APPROACH 1:1000

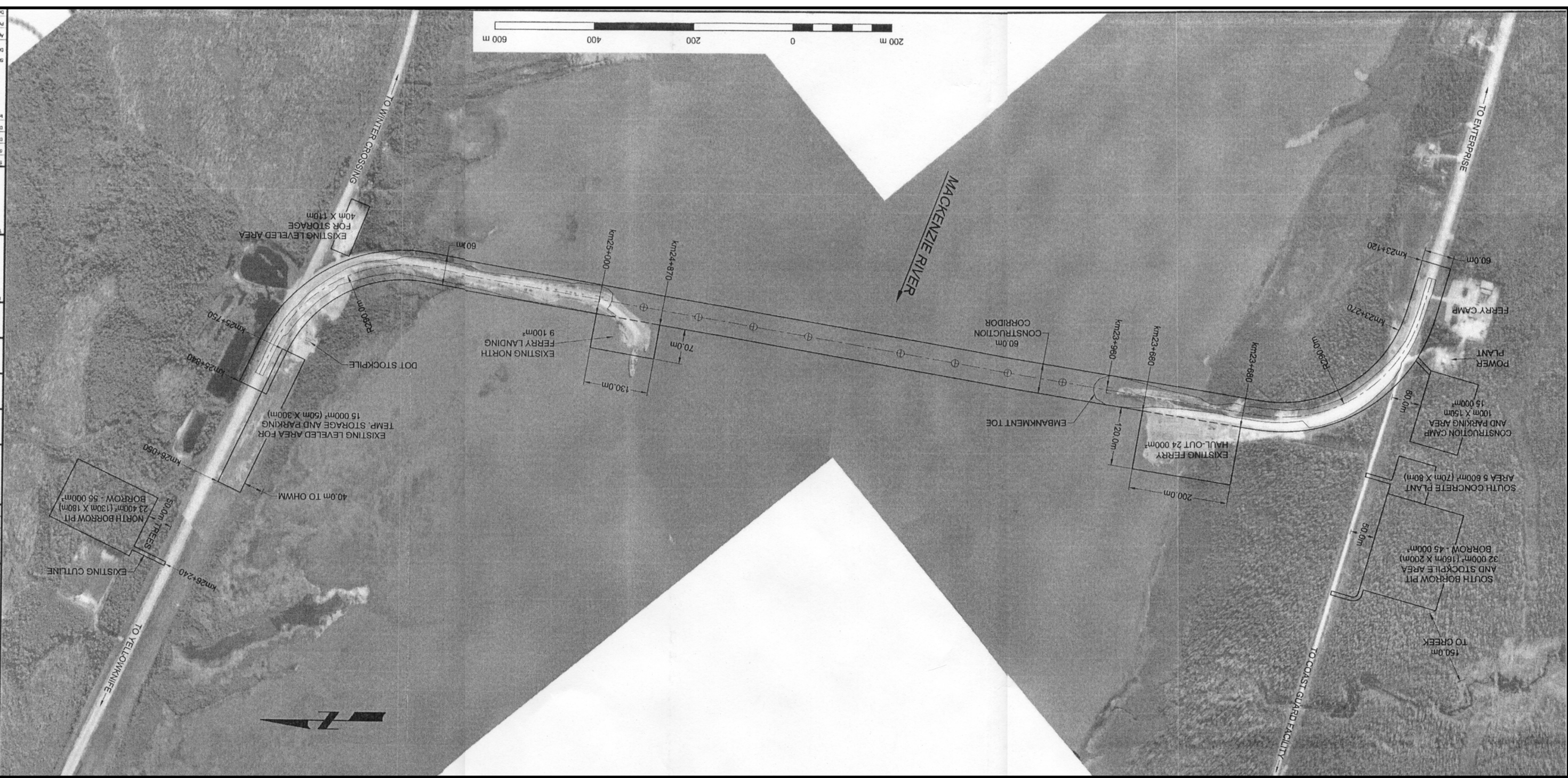
A	A. detail number	A
B	B. location drawing number	B
C	C. drawing number	C

JIVKO ENGINEERING
 8610, 80 "X" Avenue, Yellowknife, NT, X1A-1G3
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Project
**YELLOWKNIFE HWY#3 Km 23
 DEH CHO BRIDGE
 ON MACKENZIE RIVER
 PRELIMINARY DESIGN**

Title
**SOUTH APPROACH
 TO FERRY LANDING
 General Arrangement**

Scale
 Drawn by
 Designed by
 Checked by
 Date
 Approved by
 Project No.
 Drawing No. **Attachment # 10**





Deh Cho Bridge Corporation

Notes:

A	A. detail number	A
B	B. location drawing number	B/C
C	C. drawing number	C

Andrew Gamble & Associates

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KJ Technical Services Ltd.
Yellowknife, NT

Project: **YELLOWKNIFE HWY#3 Km 23
DEH CHO BRIDGE
ON MACKENZIE RIVER**

Title: **PROPOSED NORTH
CONCRETE PLANT
LOCATION**

Scale: 1:1250

Surveyed by: _____

Drawn by: **K. Jivkov** Mar. 30, 04

Designed by	Checked by
Insights	Insights

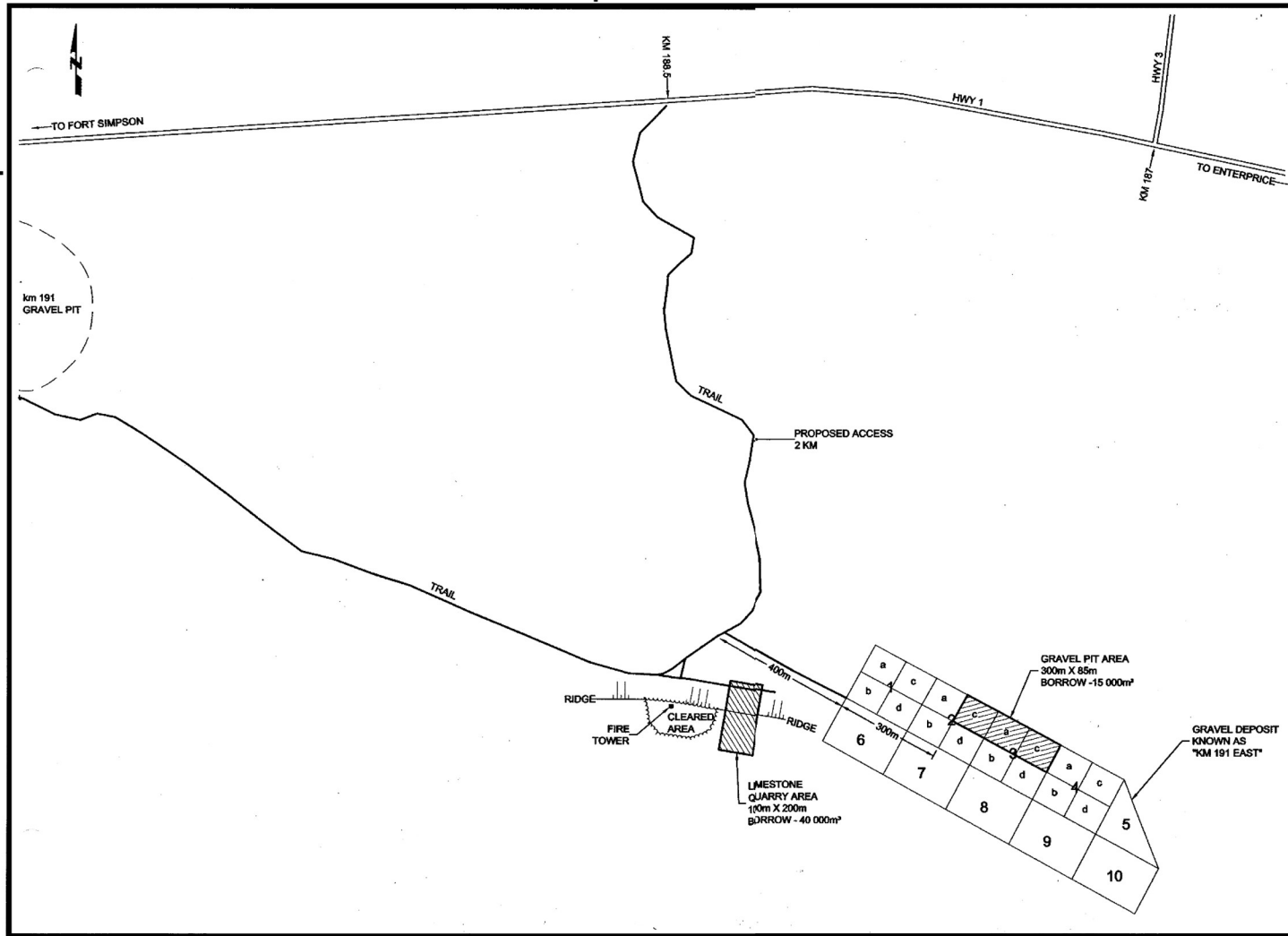
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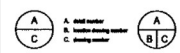
Signature: _____ Date: _____

Approved by: _____

Project No. _____

Drawing No. **Attachment # 12**





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K/J Technical Services Ltd.
 Technicians, STP

Project
**YELLOWKNIFE HWY#3 Km 23
 DEH CHO BRIDGE
 ON MACKENZIE RIVER**

Title
**LIMESTONE QUARRY
 AND GRAVEL PIT
 LOCATION**

Scale: 1: 1000

Designed by: K. Jivkov Checked by: M. A. D. H.

Drawn by: Date: Date: Date:

Approved by: Date: Date: Date:

Project No. Drawing No. **Attachment # 13**

Notes:

A — C	A. Detail number B. Location drawing number C. Drawing number	A — B — C
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Andrew Gamble & Associates
J. R. Spronken & Associates Ltd.
 Consulting Professional Engineers
 Calgary, Alberta

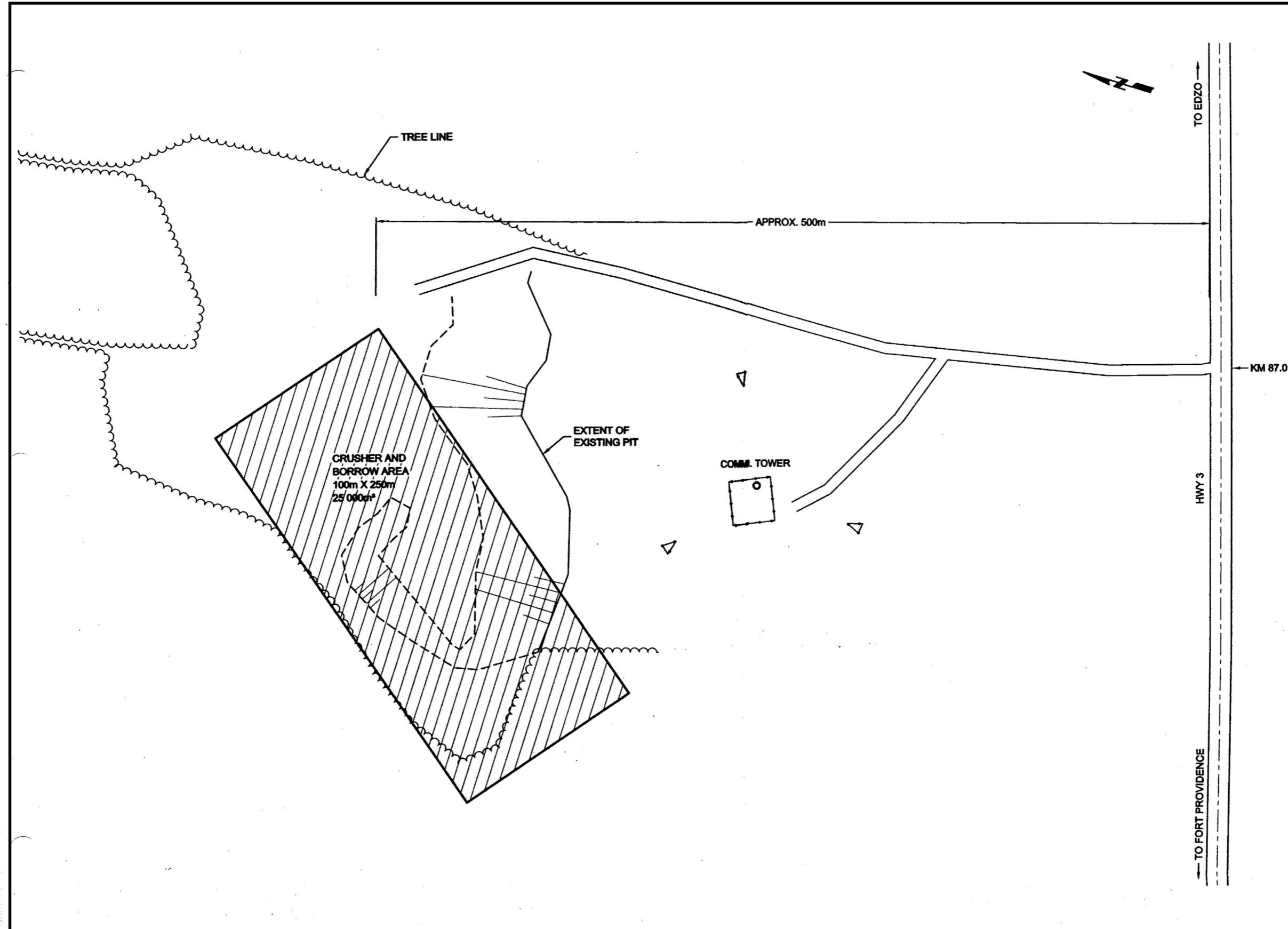
JIVKO ENGINEERING
 8510, 88 7th Avenue, Yellowknife, NT, X1A-1G8
 Phone (867) 855-4488, Fax (867) 873-8880

KJ Technical Services Ltd.
 Yellowknife, NT

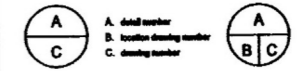
Project
**YELLOWKNIFE HWY#3 Km 23
 DEH CHO BRIDGE
 ON MACKENZIE RIVER**

Title
**CONCRETE ARGREGATE
 PIT LOCATION**

Scale 1 : 2000	
Surveyed by	
Drawn by K. Jivkov	Feb. 28, 04
Designed by	Checked by
Signature _____	Signature _____
Date _____	Date _____
Approved by	
Project No.	
Drawing No. Attachment # 14	



Notes:



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KJ Technical Services Ltd.
 Yellowknife, NT

Project
**YELLOWKNIFE HWY#3 Km 23
 DEH CHO BRIDGE
 ON MACKENZIE RIVER**

Title
**KM 156 HWY #3
 QUARRY LOCATION**

Scale 1 : 2000

Surveyed by _____

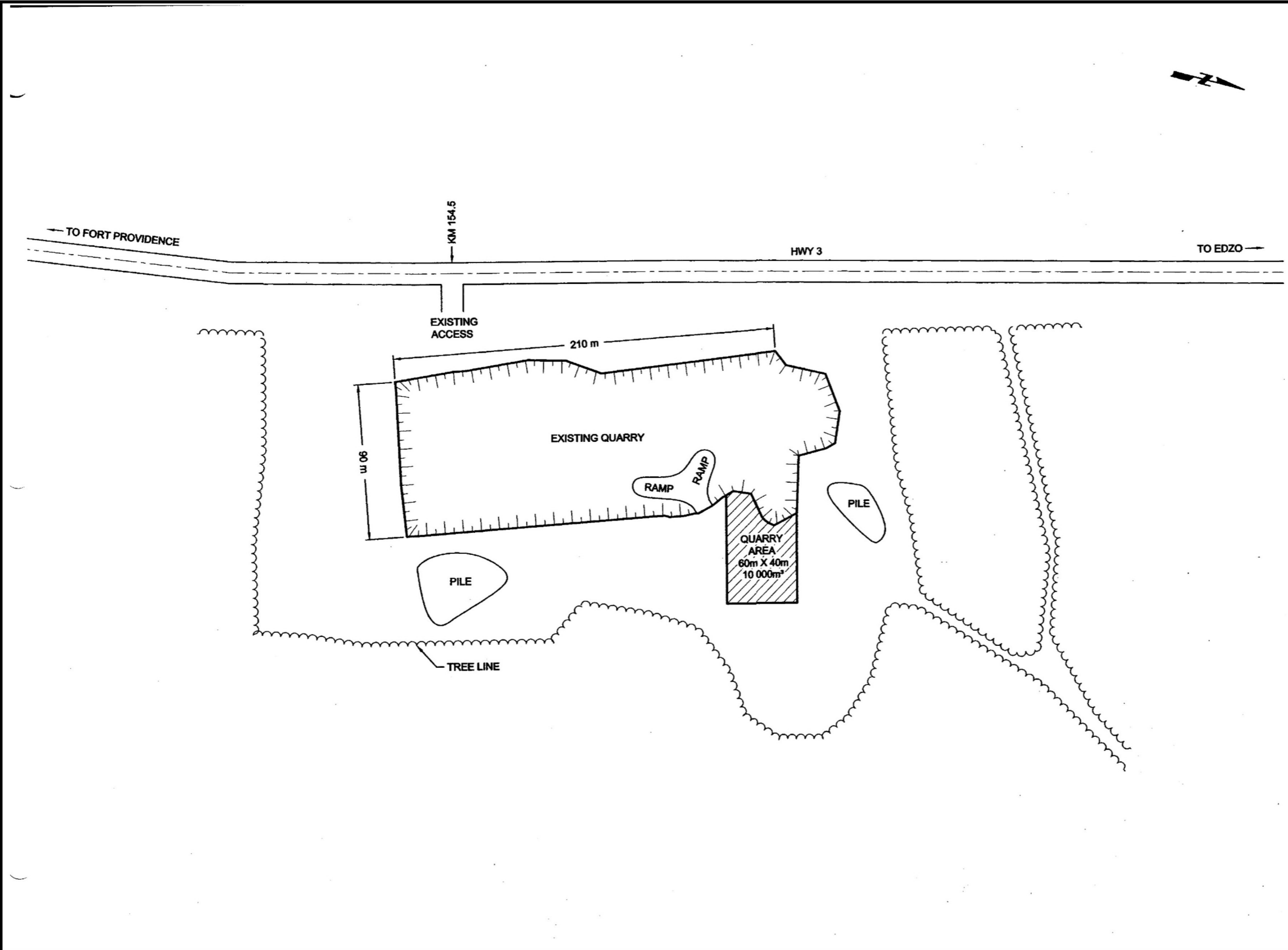
Drawn by **K. Jivkov** Feb. 26, 04

Designed by _____	Checked by _____
Isopoints _____	Isopoints _____
Signature _____	Signature _____
Date _____	Date _____

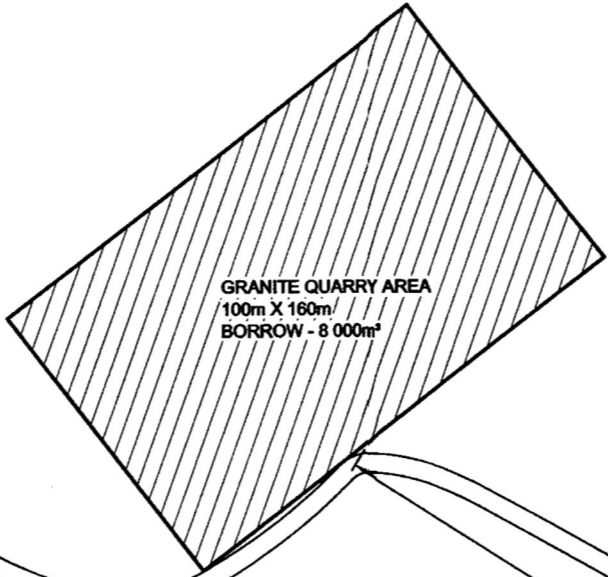
Approved by _____

Project No. _____

Drawing No. **Attachment # 15**



TO COMM. TOWER



APPROX. 200m

HWY 3

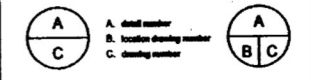
TO EDZO

KM 231.8

TO PORT PROVIDENCE



Notes:



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KJ Technical Services Ltd.
Yellowknife, NT

Project
**YELLOWKNIFE HWY#3 Km 23
DEH CHO BRIDGE
ON MACKENZIE RIVER**

Title
**GRANITE QUARRY
LOCATION**

Scale 1 : 2000

Surveyed by _____

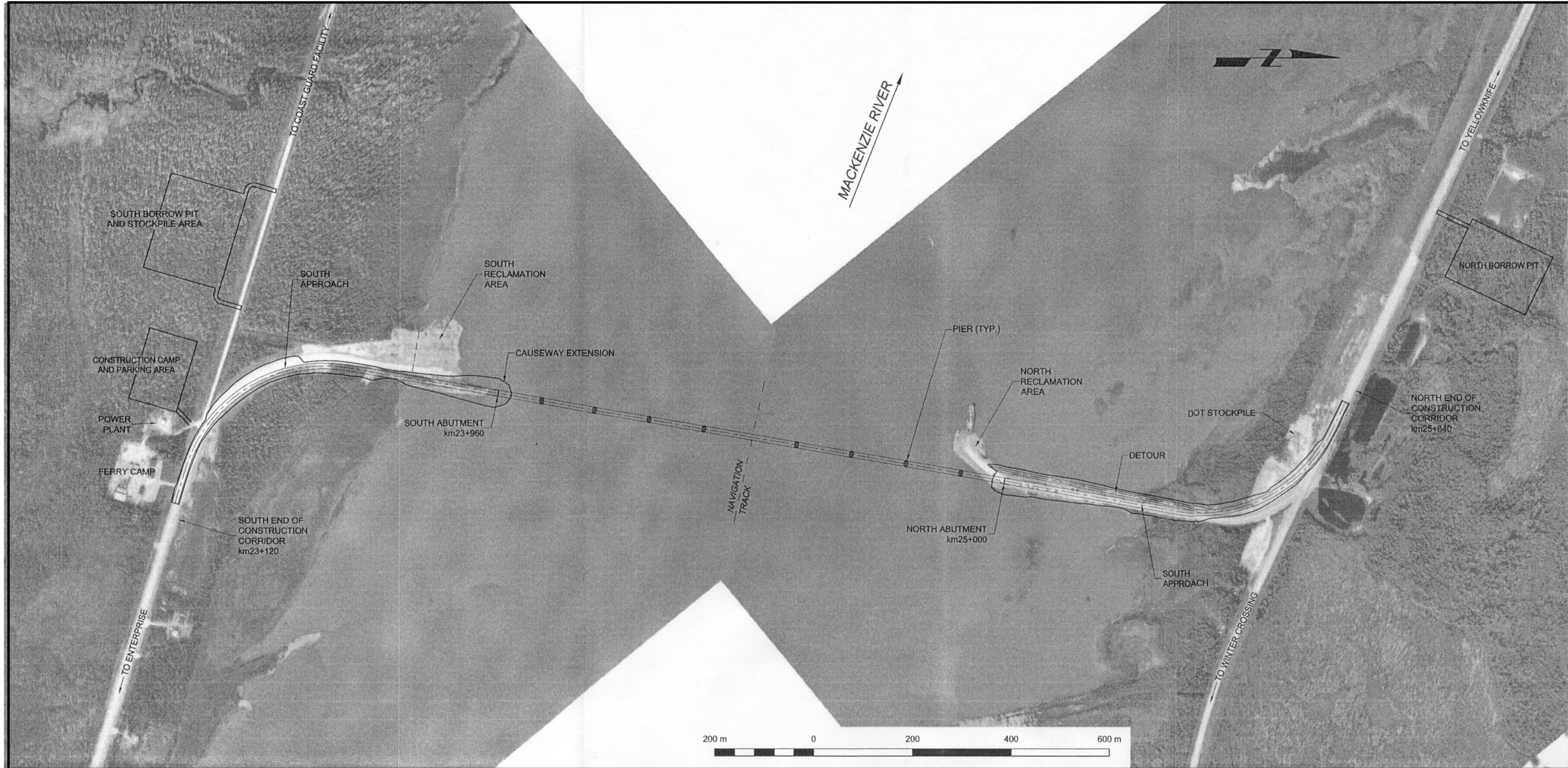
Drawn by K. Jivkov Feb. 28, 04

Designed by _____	Checked by _____
Initials _____	Initials _____
Signature _____	Signature _____
Date _____	Date _____

Approved by _____

Project No. _____

Drawing No. **Attachment # 16**



Deh Cho Bridge Corporation

Notes:

A. detail number
B. location drawing number
C. drawing number

Andrew Gamble & Associates

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KJ Technical Services Ltd.
Yellowknife, NT

Project:
**YELLOWKNIFE HWY#3 Km 23
DEH CHO BRIDGE
ON MACKENZIE RIVER**

Title:
**AERIAL PHOTO
SITE PLAN**

Scale: 1 : 6000

Surveyed by:

Drawn by: K. Jivkov Mar. 28, 04

Designed by: Checked by:

Inspected: Inspected:

Signature: Signature:

Date: Date:

Approved by:

Project No.:

Drawing No. **Attachment # 17**