

Trans-Northern Pipelines Inc.

45 VOGELL ROAD, SUITE 310
RICHMOND HILL, ONTARIO L4B 3P6
TEL: (905) 770-3353 FAX: (905) 770-8675

2005-07-13

SENES Consultants Ltd.
121 Granton Drive, Unit 12
Richmond Hill
Ontario, L4B 3N4

RECEIVED

JUL 19 2005

SENES Consultants
Limited

Attention: Mr. Joseph Muraca

Dear Sir :

Subject: **Proposed 323.9mm Steel Natural Gasmain Crossing,**
South of Sunnyside Road,
City of Kingston

Applicant's File: N/A
Our File: 05-E076
Reference: MP-36, R/W-16

Enclosed for your records is **Permit No. 05074** and a stamped copy of your drawing E11-14-01/204 approving construction of the above-mentioned works.

The work is to be carried out in accordance with the terms and conditions of the **National Energy Board Pipeline Crossing Regulations, Part I and the special conditions listed on the permit.** Please read them carefully.

This permit allows for the construction or installation of works as identified herein. All subsequent or future works, maintenance, alterations in design, etc., related to this project must be addressed in writing. If necessary, a new permit will be issued.

A signed copy of this permit and the approved drawing **must** be provided to the Contractor for reference on site and presented to Trans-Northern's representative upon request.

For information, we enclose one copy each of Trans-Northern's publications "Pipeline Crossing Guidelines" and "Contractor's Guidelines" as well as National Energy Board's publication "Excavation and Construction Near Pipelines". Please read them carefully.

VA



- 2 -

Should you have any questions or comments, please do not hesitate to contact me at (905) 770-3353, ext. 211.

Yours truly,

TRANS-NORTHERN PIPELINES INC.

A handwritten signature in cursive script that reads "Satish Kumar Korpai".

Satish Kumar Korpai
Co-ordinator Crossings and Facilities

Enclosure



45 Vogell Road, Suite 310
Richmond Hill, Ontario
L4B 3P6
Tel: (905) 770-3353
Fax: (905) 770-8675
Emergency: 1-800-361-0608 Toronto
1-800-463-7628 Montreal

TRANS-NORTHERN PIPELINES INC.
CROSSING/CONSTRUCTION PERMIT

A.F.E.

[Empty box]

Permit No.	File No.	Issued	Expires
05074	05-E076	2005-07-13	2007-07-13

CONTACT TRANS-NORTHERN MISSISSAUGA MAINTENANCE YARD, PHONE 905-678-2261
AT LEAST THREE BUSINESS DAYS BEFORE STARTING CONSTRUCTION.

A COPY OF THIS PERMISSION AND THE APPROVED DRAWING MUST BE AVAILABLE FOR REFERENCE ON SITE.

- SPECIAL CONDITIONS** - Pipeline is to be supported as per TNPI dwg. SK-2378 or SK-2314
- Maintain a minimum of 0.3m clearance between pipelines and watermain.
 - Method of construction open trench - All work is to be done in the presence of TNPI inspector.
 - Test Post is to be installed by TNPI as per dwg. CP-1005

OWNER'S NAME: UTILITIES KINGSTON

ADDRESS: 1211 JOHN COUNTER CLBD., P.O.BOX 790
KINGSTON, ON. K7L 4X7

TELEPHONE: DALE SOPHA, 613-546-1181, EXT. 2259

APPLICANT/AGENT'S NAME: SENES CONSULTANTS LTD.

ADDRESS: 121 GRANTON DRIVE, UNIT 12
RICHMOND HILL, ON. L4B 3N4

TELEPHONE: JOSEPH MURACA 905-764-9380

LOCATION OF WORK SITE: SOUTH OF SUNNYSIDE RD.

Lot(s) 19 Concession(s)/R. Plan 3

Township/Municipality KINGSTON

County/Province FRONTNAC

Reference: Map No. MP-36 R/W 16 km/M. Post 182.5

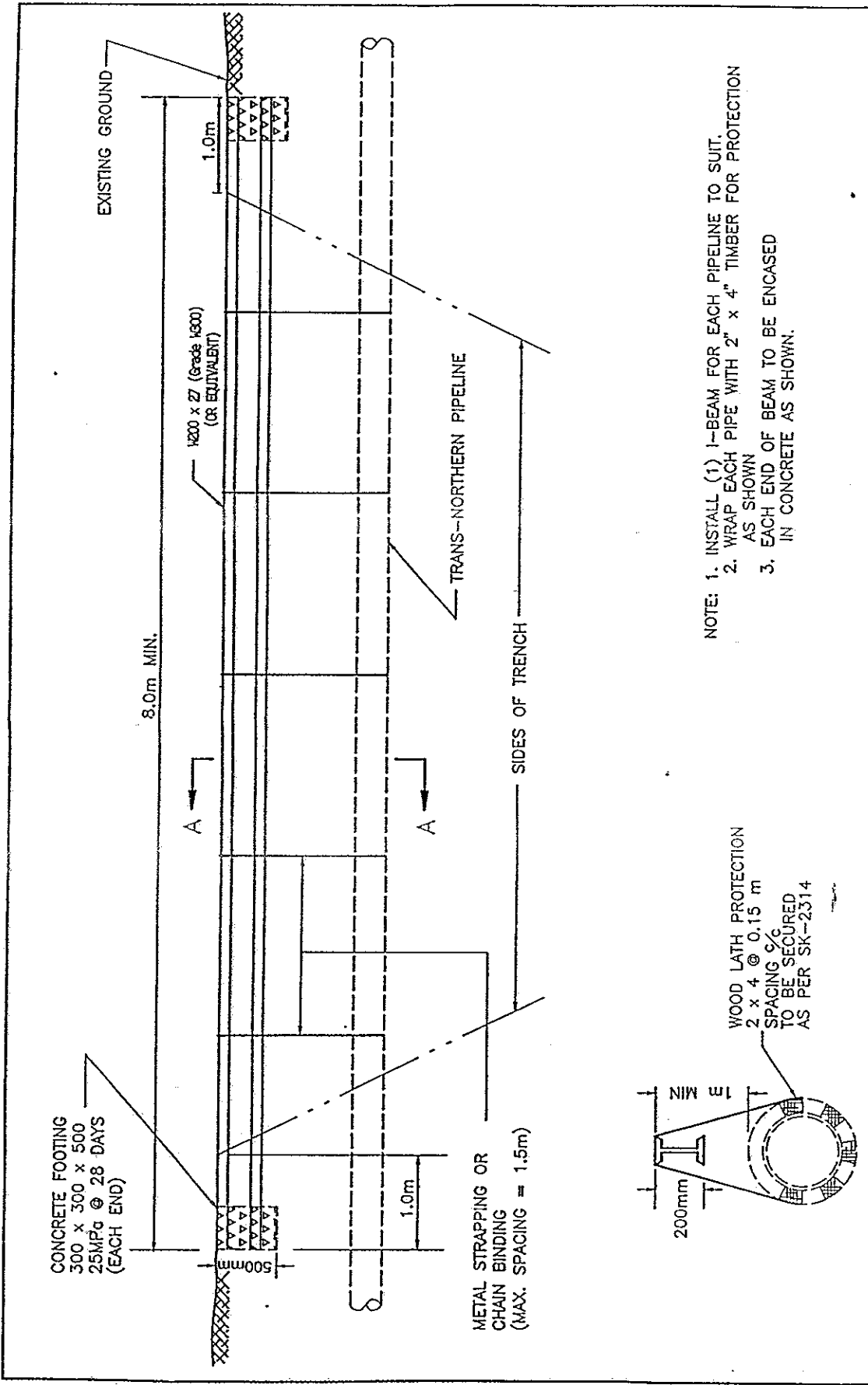
DESCRIPTION OF PROPOSED WORK(S) (Detailed List if Applicable)

Utility Drainage Parking Landscaping Rail Road

DETAILS: - 323.9mm Steel Gasmain. \$ TEMPORARY RAMP.

ISSUED BY: Satish Kulkarni 2005-07-13
TRANS-NORTHERN PIPELINES INC. DATE

IMPORTANT: READ CONDITIONS ON REVERSE ⇄



CONCRETE FOOTING
300 x 300 x 500
25MPG @ 28 DAYS
(EACH END)

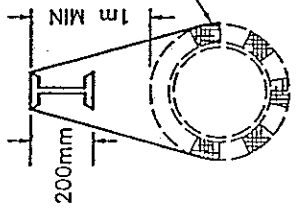
8.0m MIN.

1200 x 27 (grade 1300)
(OR EQUIVALENT)

TRANS-NORTHERN PIPELINE

METAL STRAPPING OR
CHAIN BINDING
(MAX. SPACING = 1.5m)

SIDES OF TRENCH



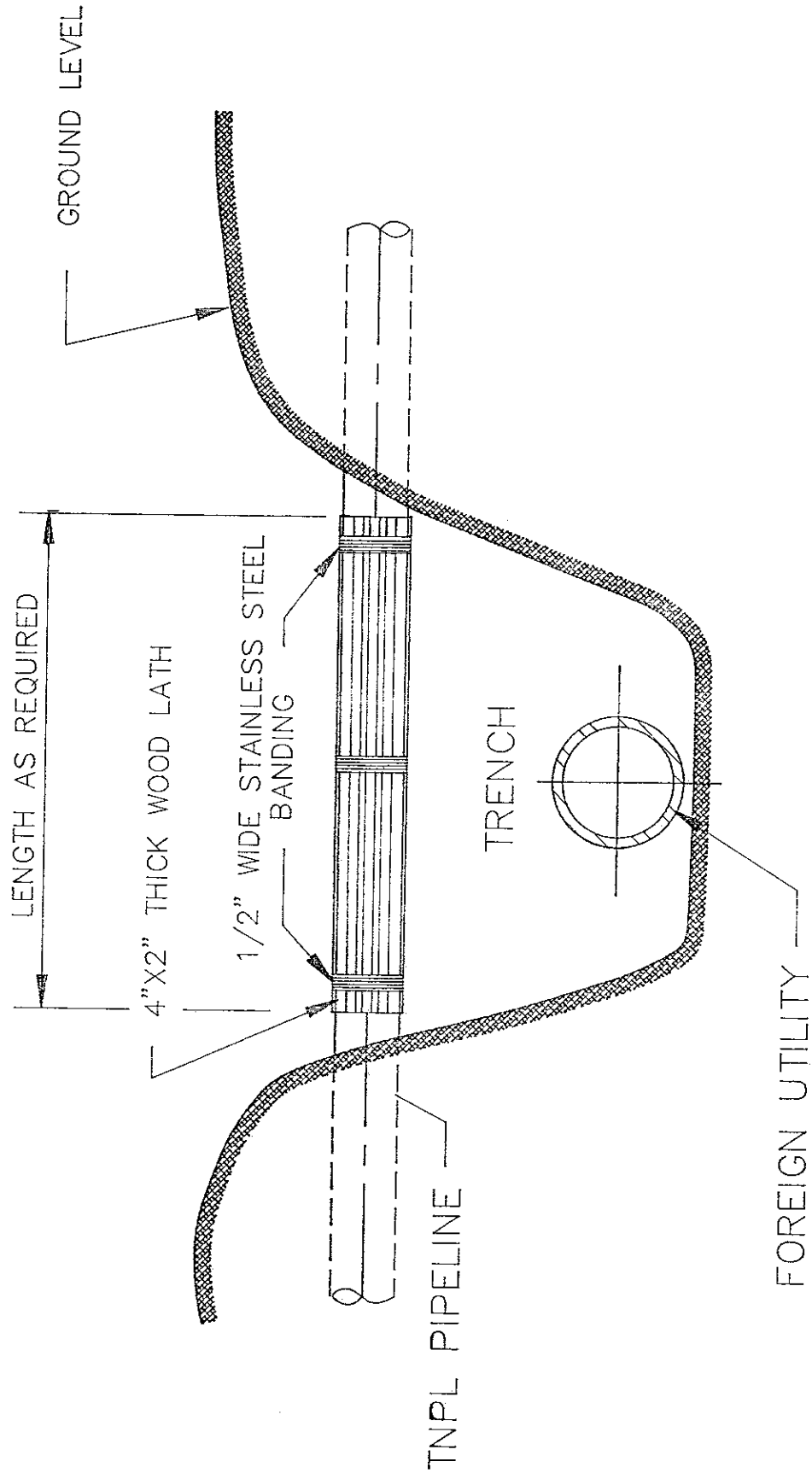
SECTION A-A (TYP)

WOOD LATH PROTECTION
2 x 4 @ 0.15 m
SPACING 9%
TO BE SECURED
AS PER SK-2314

- NOTE:
1. INSTALL (1) I-BEAM FOR EACH PIPELINE TO SUIT.
 2. WRAP EACH PIPE WITH 2" x 4" TIMBER FOR PROTECTION AS SHOWN
 3. EACH END OF BEAM TO BE ENCASED IN CONCRETE AS SHOWN.

revision no.	date	initials	scale	drawn by	company
1	92/07/10	M.D.E.		M. EMANUEL	TRANS-NORTHERN PIPELINES INC. Toronto, Ontario

checked:	approved:	dwg. no.	sheet	of	rev.
		SK-2376			1.

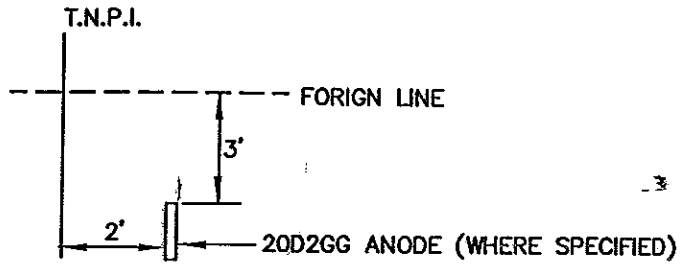


revision			drawn: M. EMANUEL	TRANS-NORTHERN PIPELINES INC. Toronto, Ontario
no.	date	initials	scale: N.T.S.	
			date: 26/01/90	PROTECTIVE PIPELINE OVERWRAP FOR UNSUPPORTED SECTIONS
			checked:	
			approved:	
				dwg. no. SK-2314 sheet of rev.

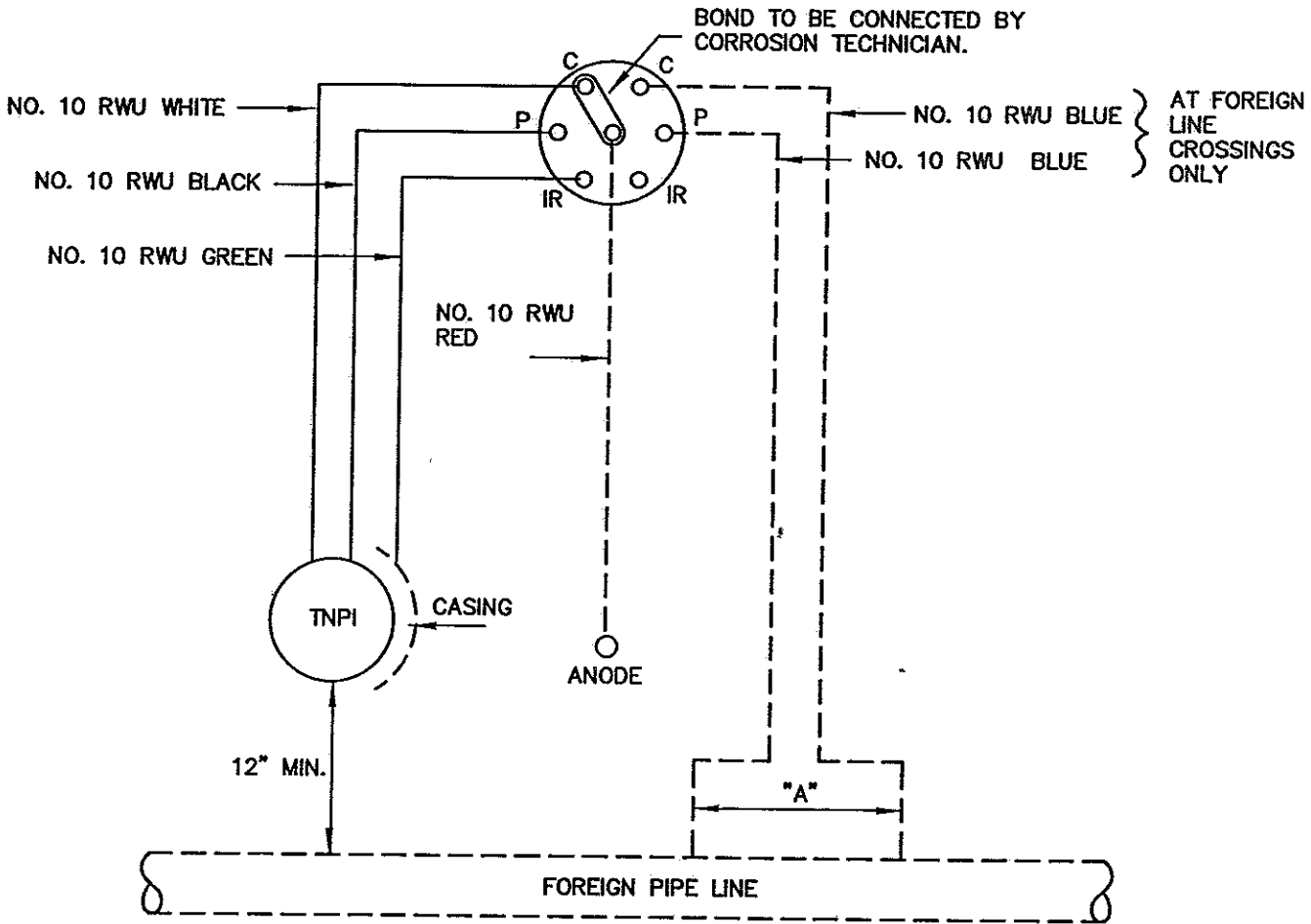
NOTE TO INSTALLER:

PLS LEAVE NOTE INSIDE OF TEST POST INDICATING CHAINAGE OF T.N.P.I. AT CROSSING DIA. OF FOREIGN LINE, FOREIGN LINE COATED OR BARE, DISTANCE T.N.P.I. ABOVE OR BELOW FOREIGN LINE.

COMPANIES CROSSING T.N.P.I. SHALL CONNECT TEST LEADS TO THEIR OWN STRUCTURE. USE EXISTING TEST POST WHERE POSSIBLE.



PLAN AT FOREIGN PIPELINE CROSSING



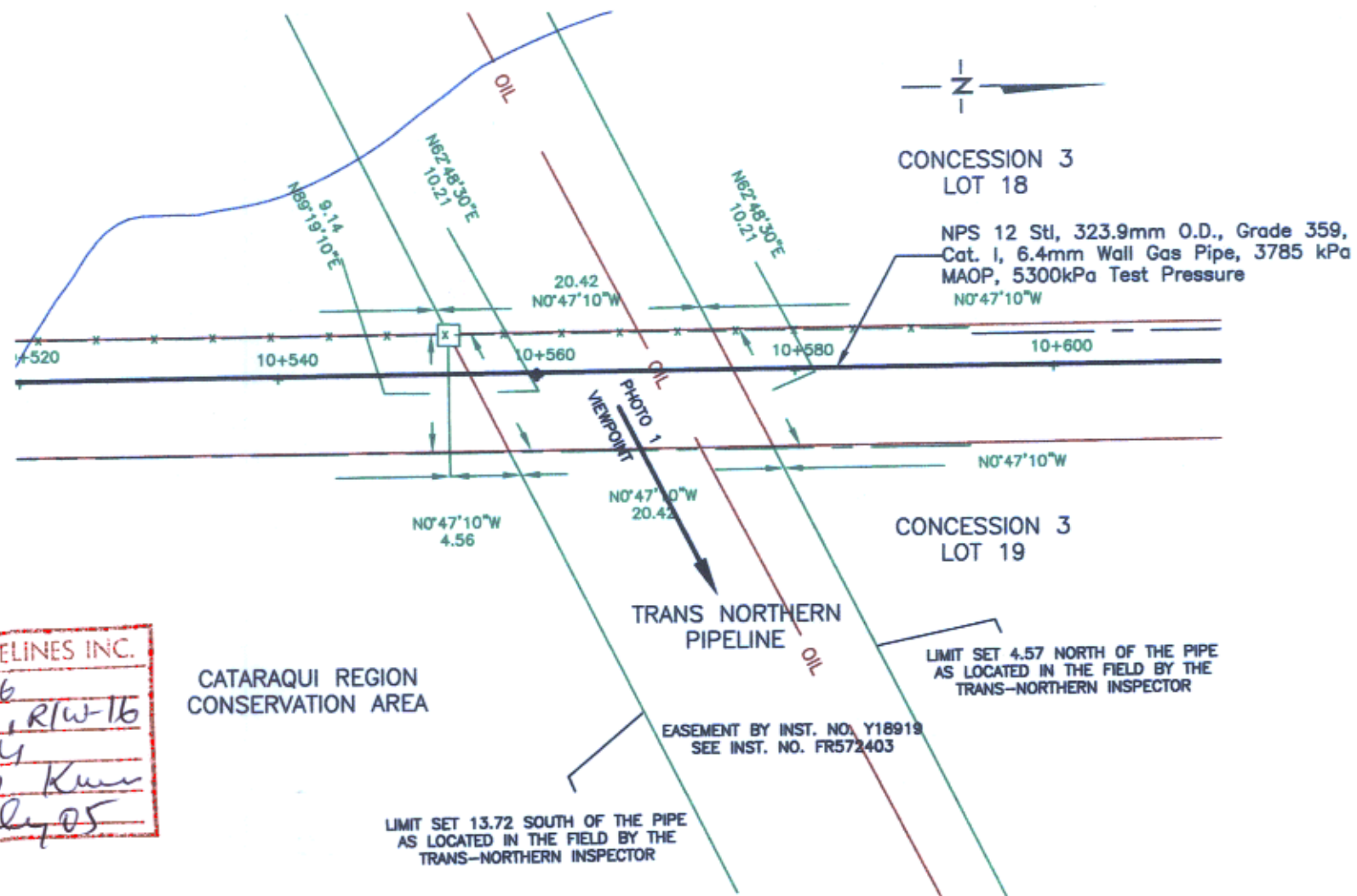
"A" - 3X DIA. OF FOREIGN PIPE

TEST POST WIRING DETAIL

NOTES:

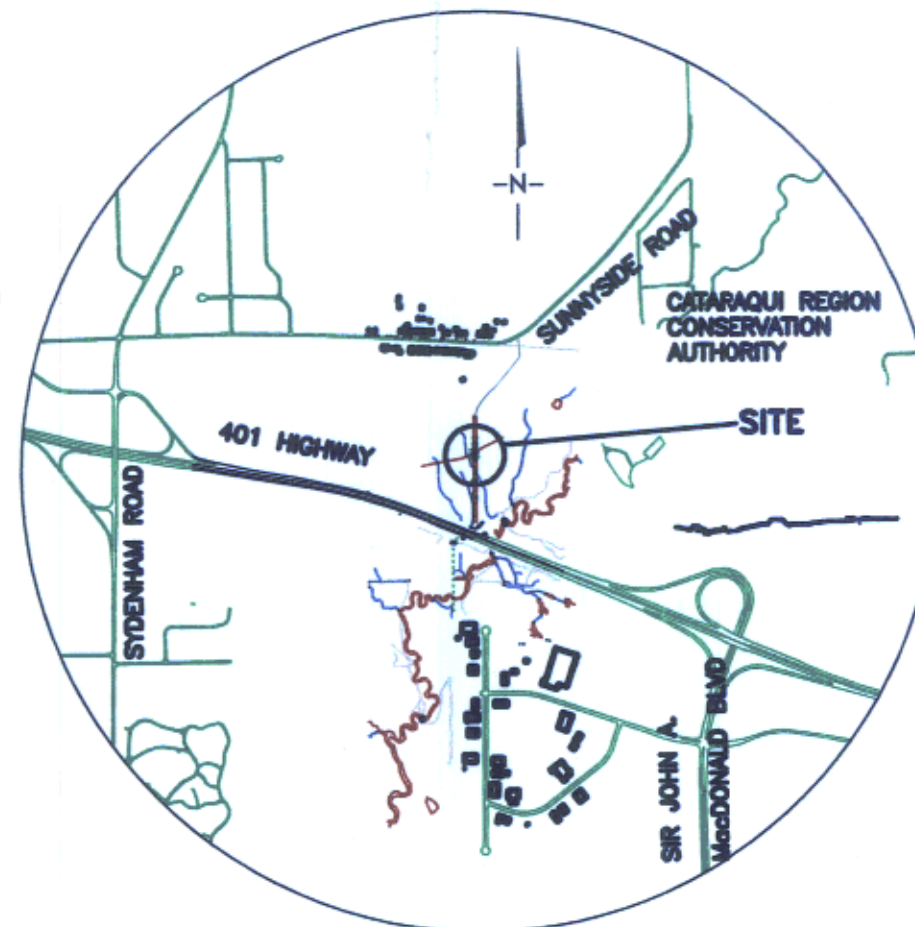
1. ALL WIRES ARE STRANDED.
2. I.R. DROP LEADS TO BE NO. 8 RWU WIRE.
(LEADS ARE TO BE SPACED 4x THE WEIGHT OF ONE FOOT OF PIPE)
3. IF CASING EXISTS, USE NO. 10 RWU GREEN WIRE.

REVISIONS			DRAWN BY: MDE		TRANS-NORTHERN PIPELINES CO. Toronto, Ontario
NO.	DATE	INITIALS	SCALE:	N.T.S	
6	87-03-16	MDE	DATE:	85-04-12	
7	00-08-16	S.K	CHECKED:	<i>BW</i>	dwg. no. CP-1005 sheet 1 of 1 rev. 7
			APPROVED	<i>[Signature]</i>	

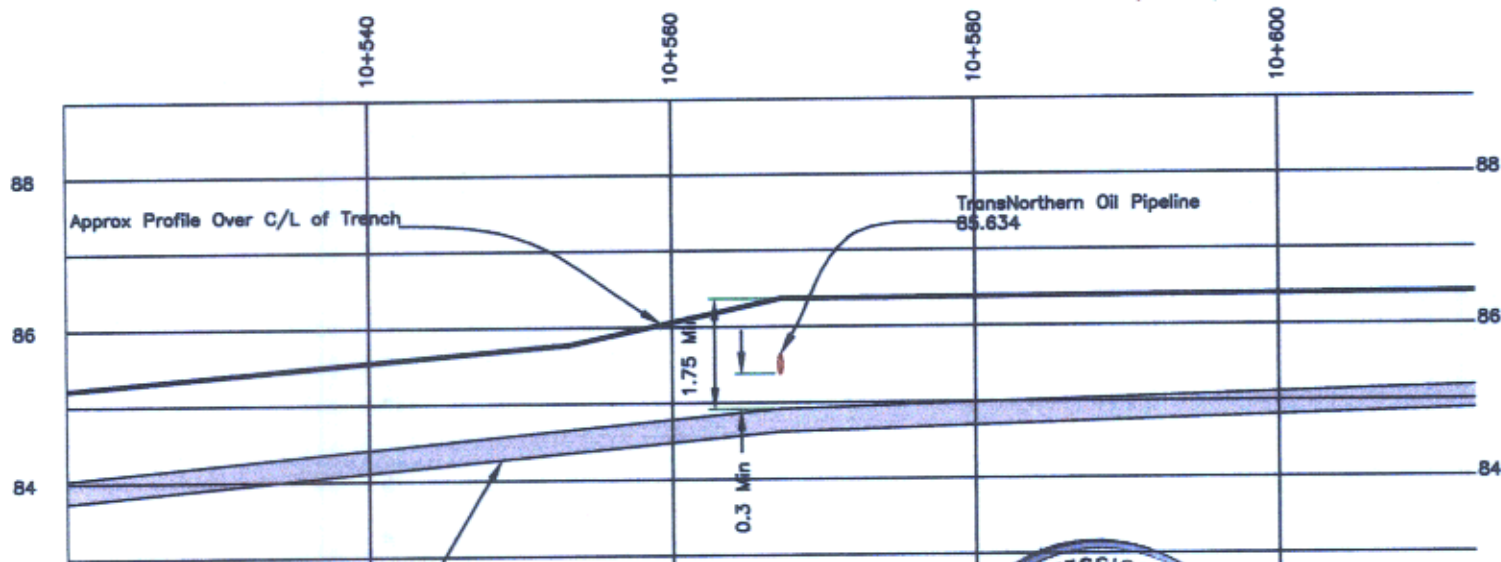


TRANS-NORTHERN PIPELINES INC.
 FILE: 05-E076
 REFERENCE: MP-36, RIW-16
 PERMIT: 05074
 APPROVED: *Sutton K...*
 DATE: 13 July 05

CATARAQUI REGION
 CONSERVATION AREA



LOCATION PLAN
 SCALE 1:10000



NPS 12 Stl, 323.9mm O.D., Grade 359,
 Cat. I, 6.4mm Wall Gas Pipe, 3785 kPa
 MAOP, 5300kPa Test Pressure

PLAN & PROFILE
 SCALE HOR:1:500
 VER:1:100

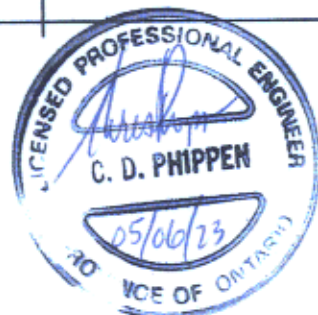
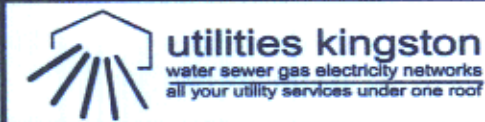


PHOTO 1

**GAS PIPELINE CROSSING
 TRANS NORTHERN OIL PIPELINE
 Approx Location Sta 6455+60**



Date: June 16, 2005 Drawn: drs
 Scale: As Noted
 Dwg No.: E11-14-01/204