



AECOM
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GoGa Cho Building (PO Box 1259)
Yellowknife, NT, Canada X1A 2N9
www.aecom.com

867 873 6316 tel
867 873 6407 fax

May 18, 2010

Gwich'in Land and Water Board
P.O. Box 2018
Inuvik, NT X0E 0T0

Dear Sir/Madam:

Project No: 60143840

Regarding: Applications for Land Use Permit and Water License – Culvert Replacements at 2 NWT Locations

We are pleased to submit the attached applications for land use permits and water licences at 2 sites in the NWT, on behalf of the Department of Transportation, for your review and consideration.

Cheques, each for the amount of \$180, are attached to cover the cost of these permit applications for the 2 locations.

Please also find copies of our consultation letters to the communities and Aboriginal organizations to collect their feedback and concerns about the projects. The names of these stakeholders are included in the attached Consultation – Communication Log for ease of reference, along with responses received to date. We will continue to follow up on these letters and forward any further comments received to the Gwich'in Land and Water Board.

Should you have any questions regarding these applications, please e-mail or call me at 867-873-6316-ext.22.

Sincerely,
AECOM Canada Ltd.

Michel Lanteigne, P. Eng., NWT Manager
michel.lanteigne@aecom.com

ML:sw
Encl.
cc:



April 30, 2010

SAO
Hamlet of Fort McPherson

The Department of Transportation, Structures Section, intends to apply to the Gwich'in Land and Water Board for a Land Use Permit and a Water Licence to allow the replacement of failed culverts at two (2) locations along the Dempster Highway (No.8).

As is customary we are seeking input from the Hamlet of Fort McPherson with respect to this undertaking to ensure that your interests at these sites are considered and proper mitigation measures can be put in place to minimize or avoid any effects of construction that may be detrimental to your interests.

The sites are indicated on the attached highway map. A description of the work at each site is provided below.

Km 146.8, Dempster Highway (No. 8):

There is currently one 1830mm diameter x 60m long CSP culvert at the site. DoT is proposing to replace this culvert with two 1500mm diameter pipes.

Km 209.4, Dempster Highway (No. 8):

There is currently one 1500mm x 24.82m long CSP culvert at the site; DoT is proposing to replace this culvert with a 3050mm diameter pipe.

DESIGN AND CONSTRUCTION

For all sites, the size of new structure proposed was determined by hydrotechnical analysis, and is based on conveying the 1 in 50 year peak flow and for providing fish passage. Drawings showing the existing and proposed structures are attached.

All work will take place within the highway right-of-way. At Km 146.8, DOT is planning to line the existing 1830mm diameter culvert with a 1500mm diameter pipe, and to install a second culvert by drilling horizontally through the embankment. Therefore, a detour will not be required, but a work platform will be required for the Contractor to set-up his equipment along the side of the embankment at the culvert level.



A detour will be constructed to allow traffic to pass back and forth over the creek while it is under construction at Km 209.4.

No silt or debris is expected to report to the creek as a result of construction of the work pad or the detour. Upon completion of the project the contractor will remove these structures and proceed with general site clean-up and re-vegetation. Sediment and erosion control structures will remain in place with regular maintenance by the Contractor until disturbed areas have been stabilized.

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The construction contract will be awarded through a public process. Workers will commute daily back and forth from accommodations in either Inuvik, Tsiigehtchic, or Fort McPherson. No camp will be required. Equipment on site will consist of those pieces listed as follows:

- Loader (950 Caterpillar)
- Backhoe (EL 300/Caterpillar 330)
- Winch trucks (Bed Truck with 50-100 Ton winch)
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- Welding truck
- Drilling equipment
- Crane
- Pick-up trucks as required for servicing and transportation of workers

Note: The specific models of vehicles listed above are for purposes of comparison only. The actual vehicles will be determined through the competitive bid process.

Please forward any comments or concerns to Michel Lanteigne at 867-873-6316, by fax at (867) 873-6407 or michel.lanteigne@aecom.com.

If we have not had a response from you from you May 7, 2010 a representative working on behalf of the Department of Transportation will contact you to confirm whether or not you have comments or concerns relating to this proposed project. Any comments will be given serious consideration and will be forwarded to the Gwich'in Land and Water Board to become part of their review of the application.

In the meantime if you have any questions relating to the project or if you would like to meet with a Department of Transportation representative regarding the proposed construction please call me at (867) 920-6470.

We appreciate your attention to this matter and we look forward to hearing from you.

Sincerely;



Sean Smiley
Senior Project Officer
Department of Transportation
Structures Section



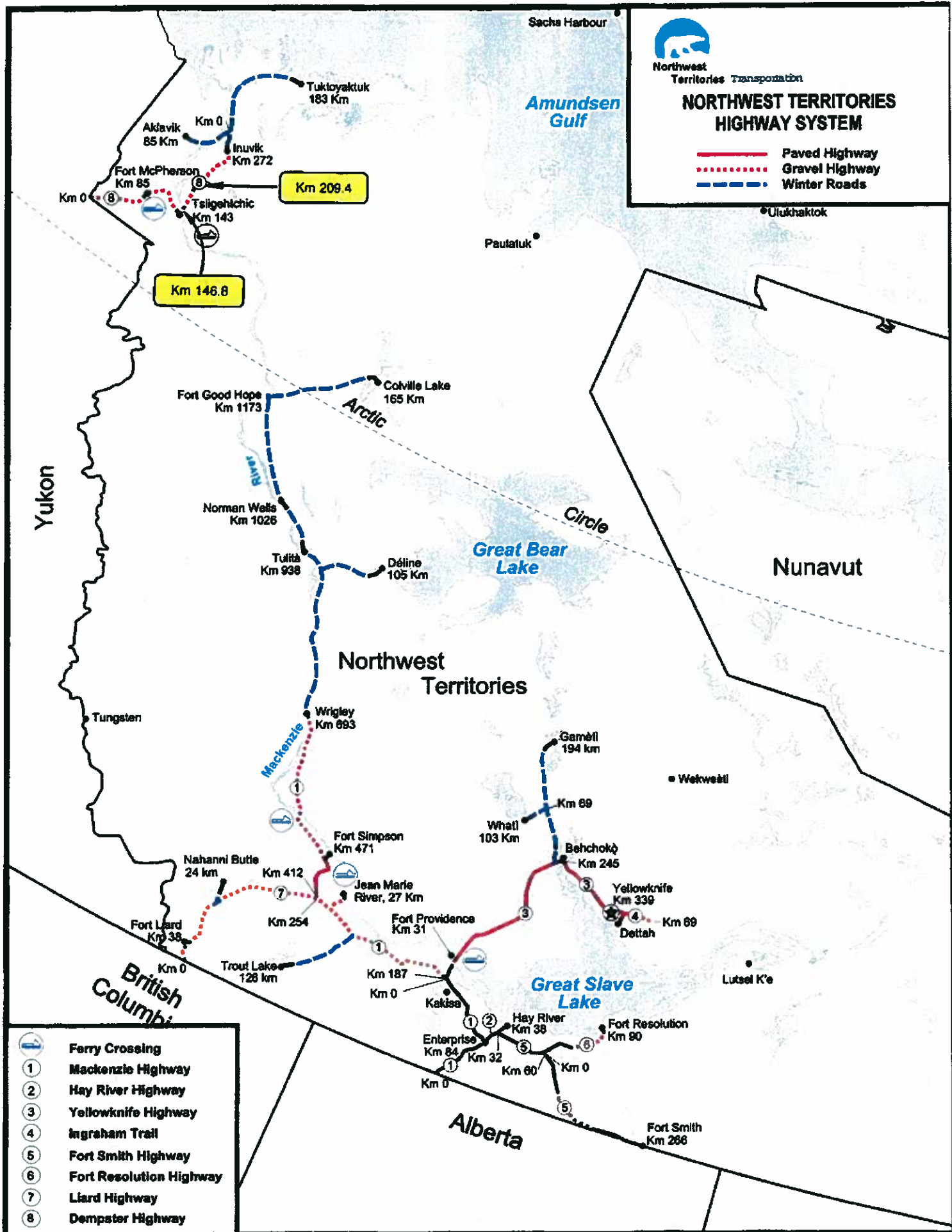


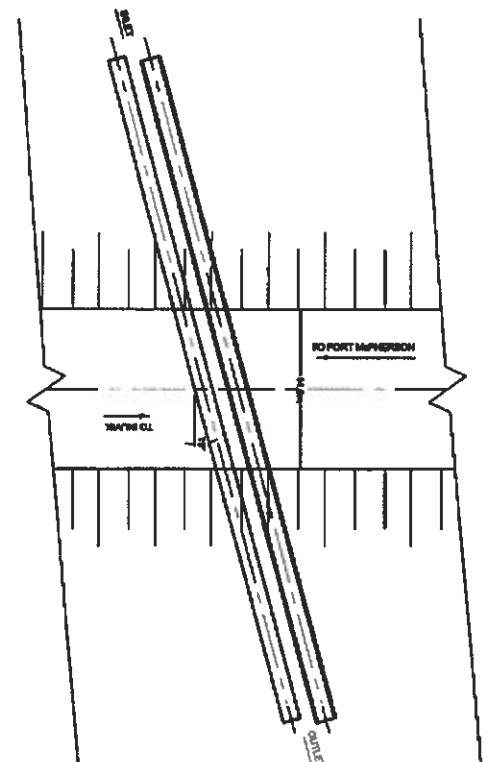
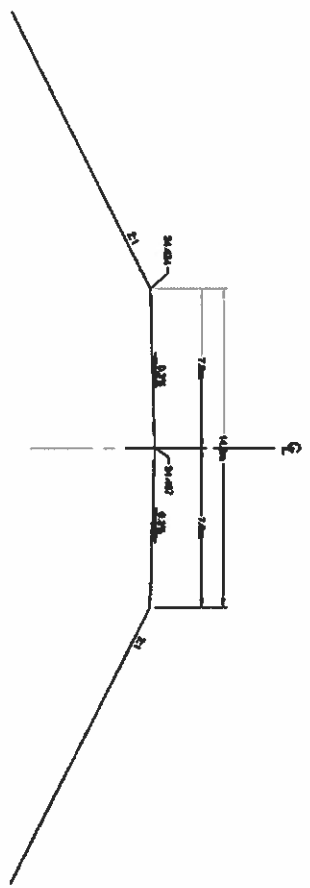
Northwest Territories Transportation

NORTHWEST TERRITORIES HIGHWAY SYSTEM

- Paved Highway
- ⋯ Gravel Highway
- - - Winter Roads

• Ulukhaktok





Designed by:	P. Prud'homme, S. Smith	Drawn by:	Matthew Engineering
Checked by:	P. Erickson	Scale:	As Shown
Approved by:	A. Lumbago	Date:	March 2010
Scale:	As Shown	Sheet No.:	1 of 1

Major Culvert Replacement
Dempster Highway (No. 8), N.W.T. km 148.8



April 30, 2010

Mr. Neil Firth
Coordinator
Nihtat Gwich'in Renewable Resources Council
P.O. Box 2570
Inuvik, NT X0E 0T0

Dear Mr. Firth;

The Department of Transportation, Structures Section, intends to apply to the Gwich'in Land and Water Board for a Land Use Permit and a Water Licence to allow the replacement of failed culverts at two (2) locations along the Dempster Highway (No.8).

As is customary we are seeking input from the Nihtat Gwich'in Renewable Resources Council with respect to this undertaking to ensure that your interests at these sites are considered and proper mitigation measures can be put in place to minimize or avoid any effects of construction that may be detrimental to your interests.

The sites are indicated on the attached highway map. A description of the work at each site is provided below.

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Please forward any comments or concerns to Michel Lanteigne at 867-873-6316, by fax at (867) 873-6407 or michel.lanteigne@aecom.com.

If we have not had a response from you from you May 7, 2010 a representative working on behalf of the Department of Transportation will contact you to confirm whether or not you have comments or concerns relating to this proposed project. Any comments will be given serious consideration and will be forwarded to the Gwich'in Land and Water Board to become part of their review of the application.

In the meantime if you have any questions relating to the project or if you would like to meet with a Department of Transportation representative regarding the proposed construction please call me at (867) 920-6470.

We appreciate your attention to this matter and we look forward to hearing from you.

Sincerely;



Sean Smiley
Senior Project Officer
Department of Transportation
Structures Section

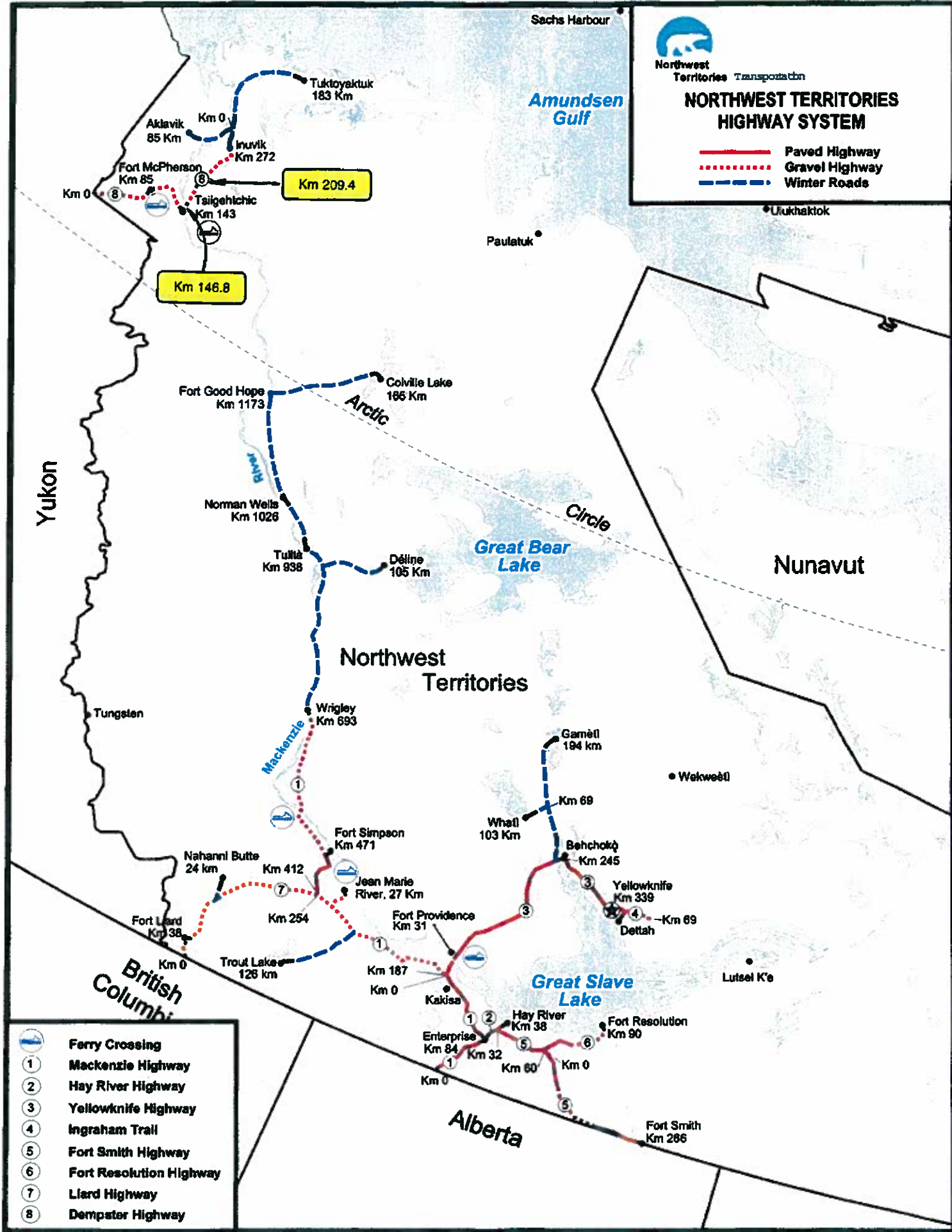


Northwest Territories Transportation

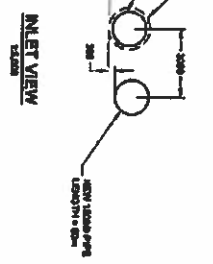
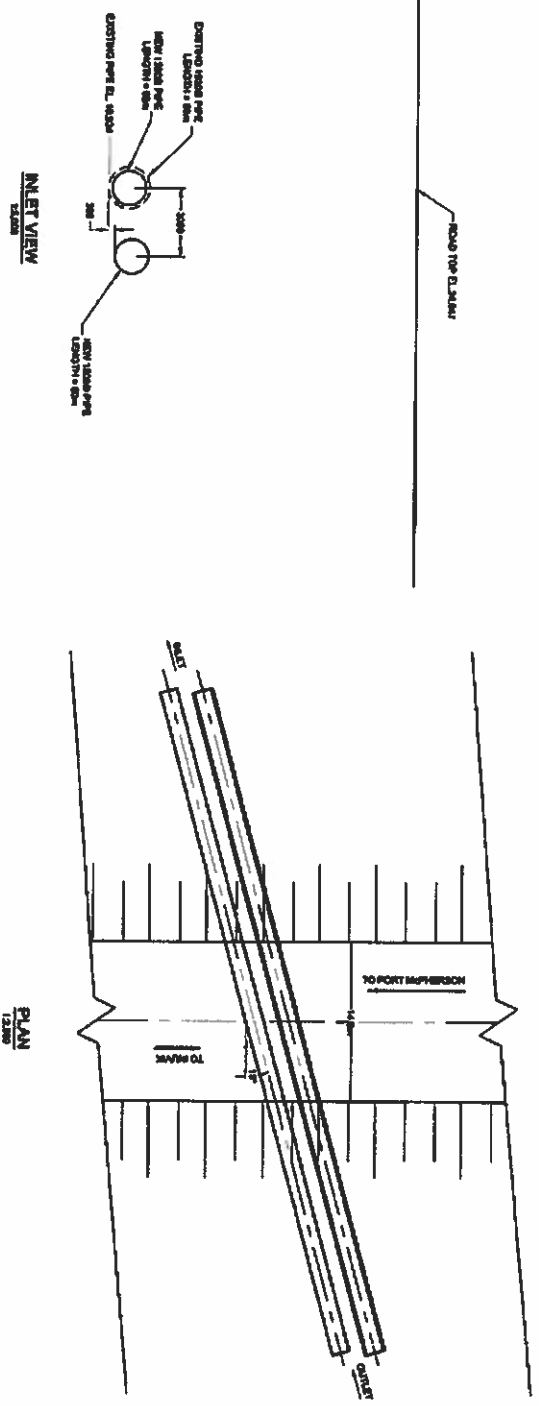
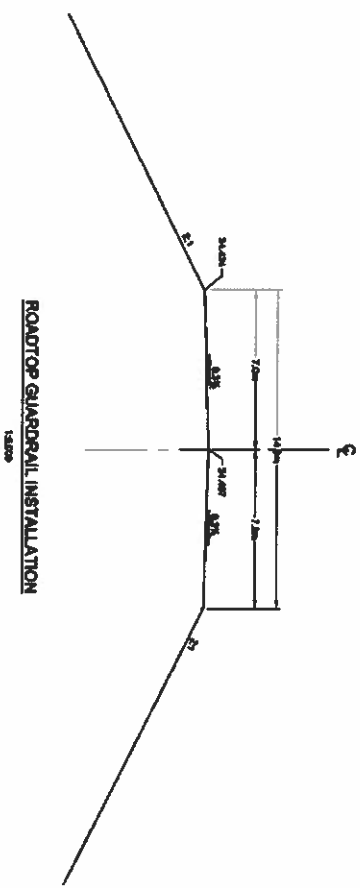
NORTHWEST TERRITORIES HIGHWAY SYSTEM

- Paved Highway
- - - Gravel Highway
- - - Winter Roads

• Uukhaktok



- Ferry Crossing
- 1** Mackenzie Highway
- 2** Hay River Highway
- 3** Yellowknife Highway
- 4** Ingraham Trail
- 5** Fort Smith Highway
- 6** Fort Resolution Highway
- 7** Liard Highway
- 8** Dempster Highway



<p>Northwest Territories Transportation</p>		Designed by: P. Prud'homme, S. Gendry Drawn/Checked by: P. Emberton Approved by: A. Landings Book: As Shown		Survey by: Nelson Engineering Date: March 2010	
Title: Major Culvert Replacement Dempster Highway (No. 8), N.W.T. Km 146.8		Contract No.:		Drawing No.: 1 of 1	



April 30, 2010

Ms. Gina Veneltsi
Coordinator
Tetlit Gwich'in Renewable Resources Council
P.O. Box 30
Fort McPherson, NT X0E 0J0

Dear Ms. Veneltsi;

The Department of Transportation, Structures Section, intends to apply to the Gwich'in Land and Water Board for a Land Use Permit and a Water Licence to allow the replacement of failed culverts at two (2) locations along the Dempster Highway (No.8).

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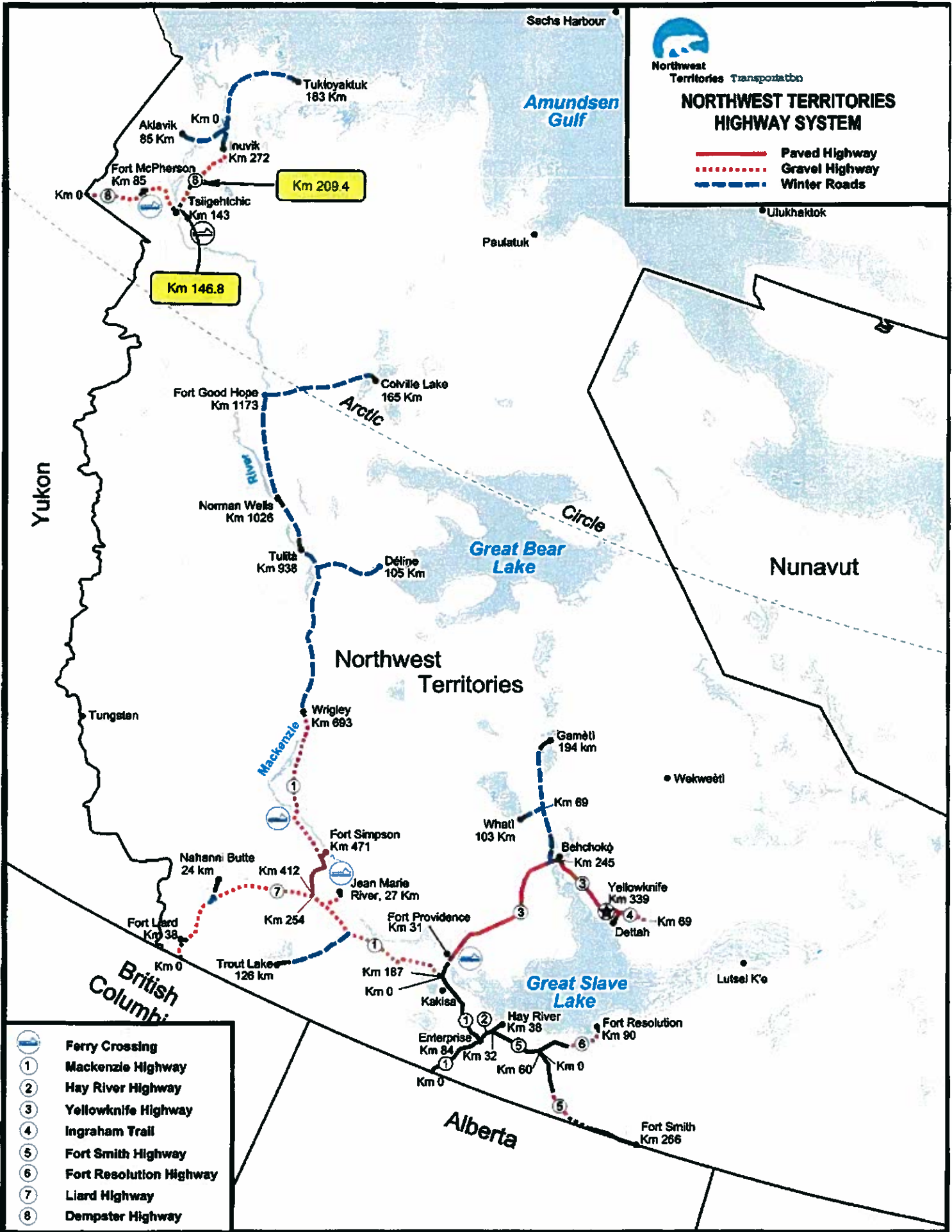
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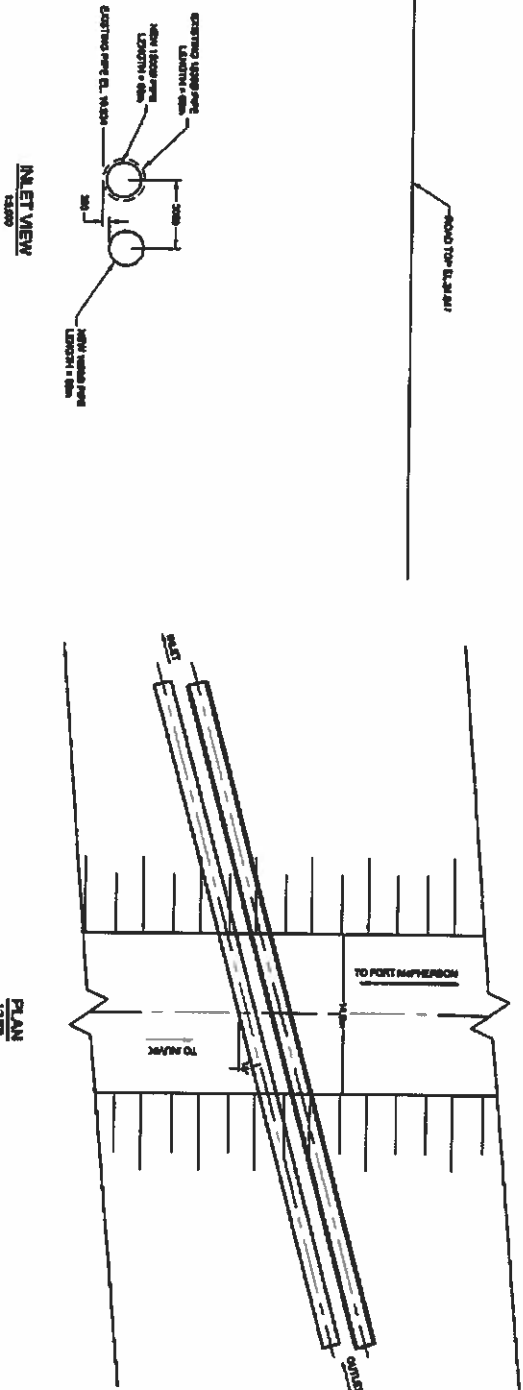
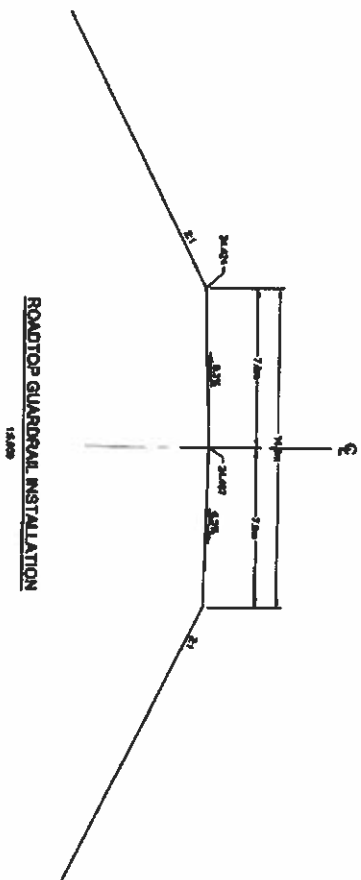
Sincerely;



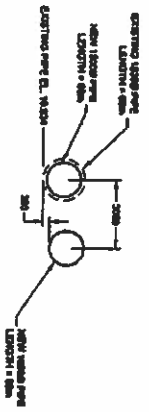
Sean Smiley
Senior Project Officer
Department of Transportation
Structures Section


for.





INLET VIEW
15.000



 <p>Northwest Territories Transportation</p>		<p>Designed by: P. Prud'homme, S. Soudry</p>		<p>THE:</p>	
<p>Manufactured by: P. Emberton</p>		<p>Drawn by: Melissa Engenstedt</p>		<p>Major Culvert Replacement Dempster Highway (No. 8), N.W.T. Km 148.8</p>	
<p>Approved by: A. Landings</p>		<p>Date: March 2010</p>		<p>Sheet No. 1 of 1</p>	
<p>Scale: As Shown</p>		<p>Client: No. 8</p>		<p>Drawing No. 1 of 1</p>	



April 30, 2010

Ms. Sara Brown
SAO
Town of Inuvik
Box 1160
Inuvik, NT X0E 0T0

Dear Ms. Brown;

The Department of Transportation, Structures Section, intends to apply to the Gwich'in Land and Water Board for a Land Use Permit and a Water Licence to allow the replacement of failed culverts at two (2) locations along the Dempster Highway (No.8).

As is customary we are seeking input from the Town of Inuvik with respect to this undertaking to ensure that your interests at these sites are considered and proper mitigation measures can be put in place to minimize or avoid any effects of construction that may be detrimental to your interests.

The sites are indicated on the attached highway map. A description of the work at each site is provided below.

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In the meantime if you have any questions relating to the project or if you would like to meet with a Department of Transportation representative regarding the proposed construction please call me at (867) 920-6470.

We appreciate your attention to this matter and we look forward to hearing from you.

Sincerely;



Sean Smiley
Senior Project Officer
Department of Transportation
Structures Section



Northwest Territories Transportation

NORTHWEST TERRITORIES HIGHWAY SYSTEM

- Paved Highway
- - - Gravel Highway
- - - Winter Roads

• Ulukhaktok

Amundsen Gulf

Paulatuk

Nunavut

Northwest Territories

• Wekwaseti

• Lutsel K'e

Alberta

Yukon

British Columbia

Sachs Harbour
 Tuktoyaktuk 183 Km
 Inuvik Km 272
 Fort McPherson Km 85
 Aklavik 85 Km
 Tasieltaiheic Km 143
 Km 0
 Km 209.4
 Km 146.8

Fort Good Hope Km 1173
 Colville Lake 165 Km
 Arctic Circle

Norman Wells Km 1026
 Tuliá Km 938
 Déline 105 Km
 Mackenzie River

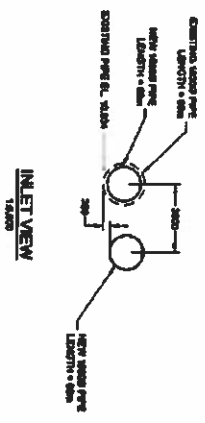
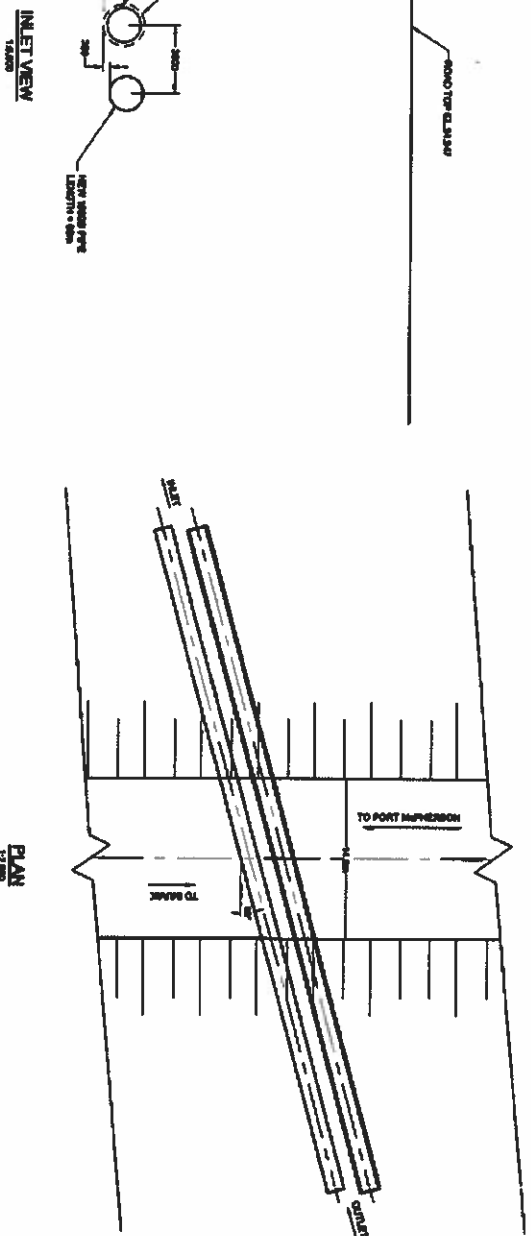
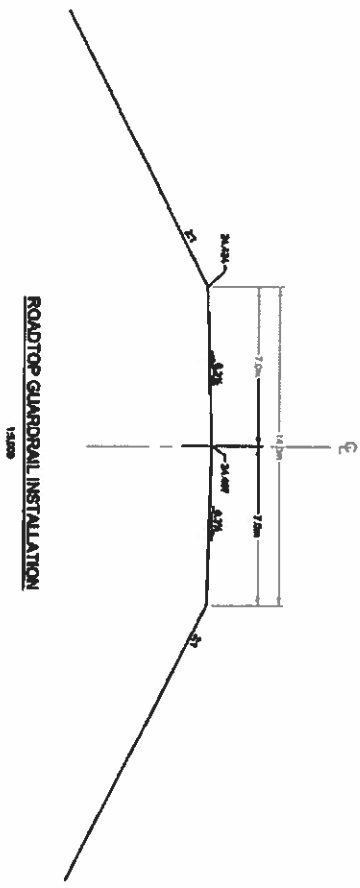
Wrigley Km 693
 Mackenzie Highway 1

Gameti 194 km
 Whati 103 Km
 Behchokó Km 245
 Yellowknife Km 339
 Dettah Km 69
 Fort Resolution Km 90

Nahanni Butte 24 km
 Fort Simpson Km 471
 Jean Marie River, 27 Km
 Fort Providence Km 31
 Fort Lard Km 38
 Trout Lake 126 km
 Km 412
 Km 254
 Km 187
 Km 0
 Kakisa

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 Enterprise Km 84
 Fort Resolution Km 90
 Fort Smith Km 266

- Ferry Crossing
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- ④ Ingraham Trail
- ⑤ Fort Smith Highway
- ⑥ Fort Resolution Highway
- ⑦ Liard Highway
- ⑧ Dempster Highway



 <p>Northwest Territories Transportation</p>		<p>Designed by: P. Prud'homme, S. Smey</p> <p>Checked/Drawn by: P. Embleton</p> <p>Approved by: A. Lanthier</p> <p>Scale: As Shown</p>	
<p>Drawn by: Nathan Engineering</p> <p>Date: March 2010</p>		<p>Title: Major Culvert Replacement Dampster Highway (No. 8), N.W.T. Km 146.8</p> <p>Contract No. -</p> <p>Drawing No. 1 of 1</p>	



April 30, 2010

Ms. Carolyn Lennie
SAO
Charter Community of Tsiigehtchic
General Delivery,
Tsiigehtchic, NT X0E 0B0

Dear Ms. Lennie;

The Department of Transportation, Structures Section, intends to apply to the Gwich'in Land and Water Board for a Land Use Permit and a Water Licence to allow the replacement of failed culverts at two (2) locations along the Dempster Highway (No.8).

As is customary we are seeking input from the Charter Community of Tsiigehtchic with respect to this undertaking to ensure that your interests at these sites are considered and proper mitigation measures can be put in place to minimize or avoid any effects of construction that may be detrimental to your interests.

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Department of Transportation
Structures Section



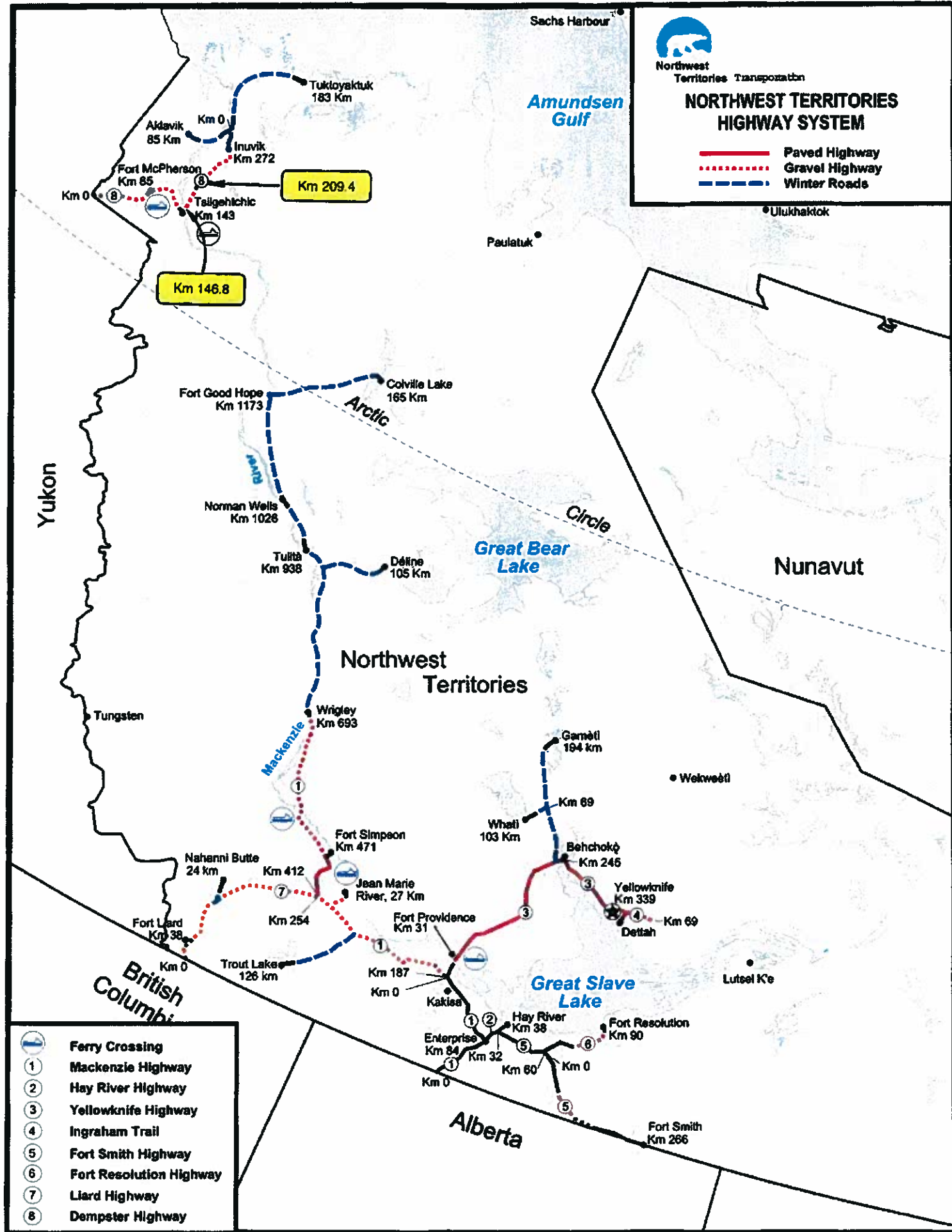


Northwest Territories Transportation

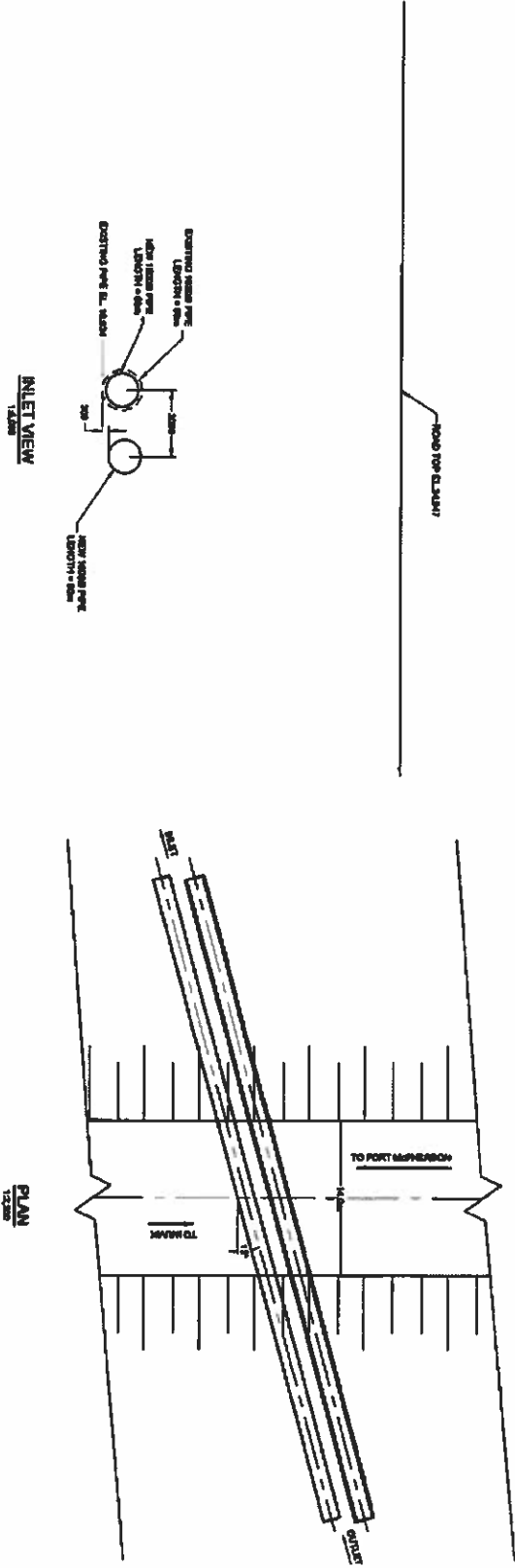
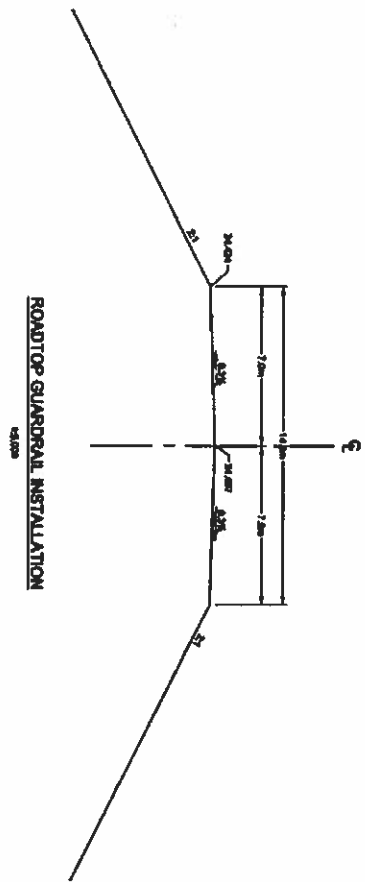
NORTHWEST TERRITORIES HIGHWAY SYSTEM

- Paved Highway
- ⋯ Gravel Highway
- - - Winter Roads

● Ulukhaktok

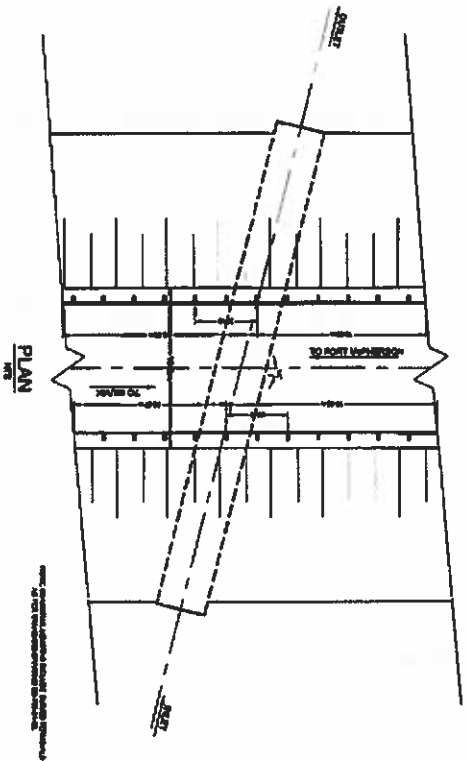
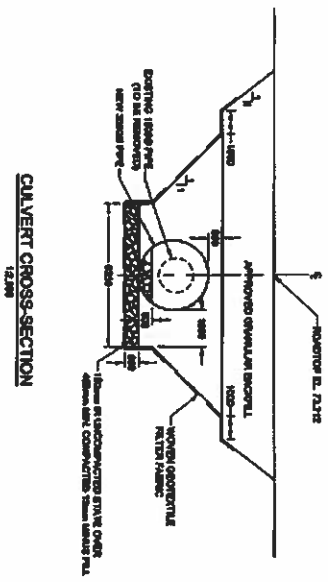
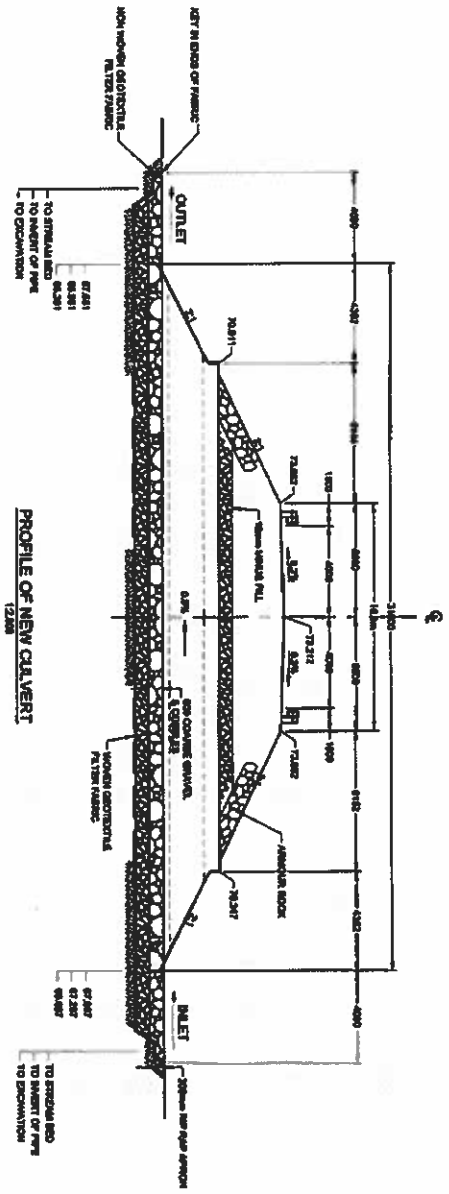


- Ferry Crossing
- Mackenzie Highway
- Hay River Highway
- Yellowknife Highway
- Ingraham Trail
- Fort Smith Highway
- Fort Resolution Highway
- Liard Highway
- Dempster Highway



Designed by:	P. Priestel & Smiley
Drawn/checked by:	P. Eriksson
Approved by:	A. Landry
Scale:	As Shown
Date:	March 2010

Title: Major Culvert Replacement
 Dempster Highway (No. 8), N.W.T., Km 146.8
 Contract No.:
 Drawing No.: 1 of 1



Designed by:	P. Peterson, S. Smith
Checked by:	P. Peterson
Approved by:	A. Landry
Drawn by:	M. Edwards
Date:	March 2010

Major Culvert Replacement
 Dempster Highway (No. 8), N.W.T., Km 209.4



April 30, 2010

Ms. Anna Mae McLeod
Coordinator
Gwichya Gwich'in Renewable Resources Council
P.O. Box 4,
Tsiigehtchic, NT X0E 0B0

Dear Ms. McLeod;

The Department of Transportation, Structures Section, intends to apply to the Gwich'in Land and Water Board for a Land Use Permit and a Water Licence to allow the replacement of failed culverts at two (2) locations along the Dempster Highway (No.8).

As is customary we are seeking input from the Gwichya Gwich'in Renewable Resources Council with respect to this undertaking to ensure that your interests at these sites are considered and proper mitigation measures can be put in place to minimize or avoid any effects of construction that may be detrimental to your interests.

The sites are indicated on the attached highway map. A description of the work at each site is provided below.

Km 146.8, Dempster Highway (No. 8):

There is currently one 1830mm diameter x 60m long CSP culvert at the site. DoT is proposing to replace this culvert with two 1500mm diameter pipes.

Km 209.4, Dempster Highway (No. 8):

There is currently one 1500mm x 24.82m long CSP culvert at the site; DoT is proposing to replace this culvert with a 3050mm diameter pipe.

DESIGN AND CONSTRUCTION

For all sites, the size of new structure proposed was determined by hydrotechnical analysis, and is based on conveying the 1 in 50 year peak flow and for providing fish passage. Drawings showing the existing and proposed structures are attached.



All work will take place within the highway right-of-way. At Km 146.8, DOT is planning to line the existing 1830mm diameter culvert with a 1500mm diameter pipe, and to install a second culvert by drilling horizontally through the embankment. Therefore, a detour will not be required, but a work platform will be required for the Contractor to set-up his equipment along the side of the embankment at the culvert level.

A detour will be constructed to allow traffic to pass back and forth over the creek while it is under construction at Km 209.4.

No silt or debris is expected to report to the creek as a result of construction of the work pad or the detour. Upon completion of the project the contractor will remove these structures and proceed with general site clean-up and re-vegetation. Sediment and erosion control structures will remain in place with regular maintenance by the Contractor until disturbed areas have been stabilized.

At no time during the construction will any activity take place that would cause any silt or other deleterious substance to enter the creek. Erosion control measures will be undertaken at the site that will address both short term and long term risks of erosion. These will include temporary measures such as vegetation mats and flow control structures as well as complete re-vegetation using a proven seed mixture.

The construction contract will be awarded through a public process. Workers will commute daily back and forth from accommodations in either Inuvik, Tsiigehtchic, or Fort McPherson. No camp will be required. Equipment on site will consist of those pieces listed as follows:

- Loader (950 Caterpillar)
- Backhoe (EL 300/Caterpillar 330)
- Winch trucks (Bed Truck with 50-100 Ton winch)
- Bulldozer (D8/D7 Caterpillar)
- Dump trucks (Tandem axle)
- Welding truck
- Drilling equipment
- Crane
- Pick-up trucks as required for servicing and transportation of workers

Note: The specific models of vehicles listed above are for purposes of comparison only. The actual vehicles will be determined through the competitive bid process.

Please forward any comments or concerns to Michel Lanteigne at 867-873-6316, by fax at (867) 873-6407 or michel.lanteigne@aecom.com.

If we have not had a response from you from you May 7, 2010 a representative working on behalf of the Department of Transportation will contact you to confirm whether or not you have comments or concerns relating to this proposed project. Any comments will be given serious consideration and will be forwarded to the Gwich'in Land and Water Board to become part of their review of the application.

In the meantime if you have any questions relating to the project or if you would like to meet with a Department of Transportation representative regarding the proposed construction please call me at (867) 920-6470.

We appreciate your attention to this matter and we look forward to hearing from you.

Sincerely,



Sean Smiley
Senior Project Officer
Department of Transportation
Structures Section



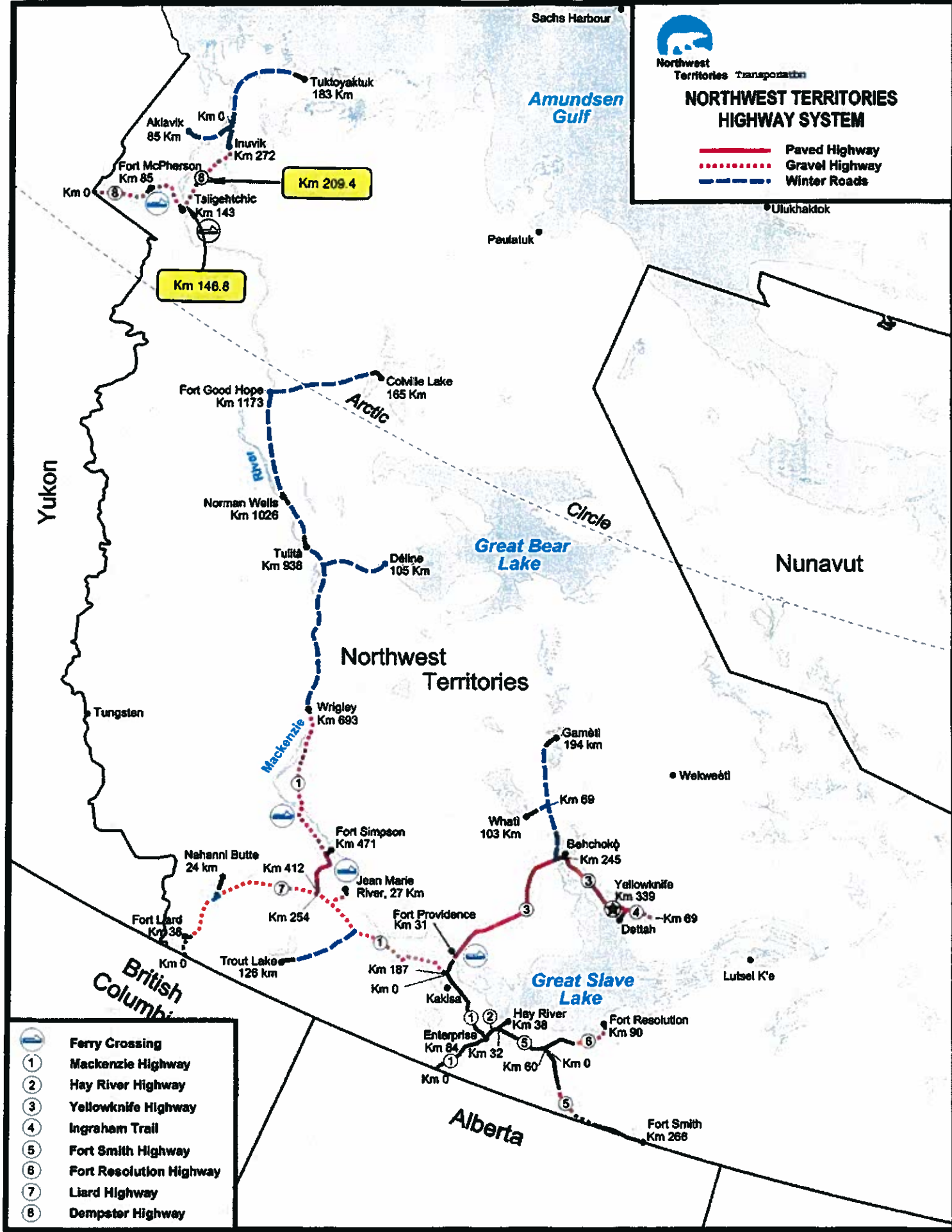


Northwest Territories Transportation

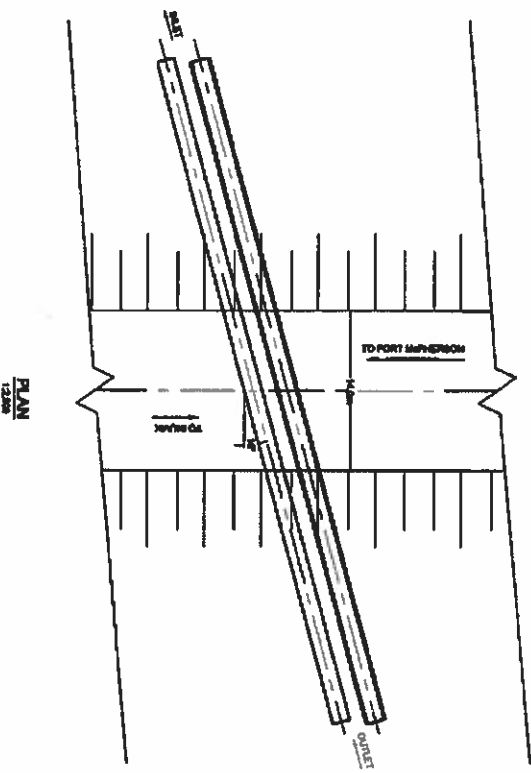
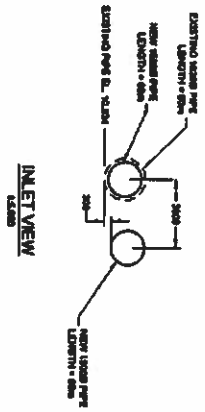
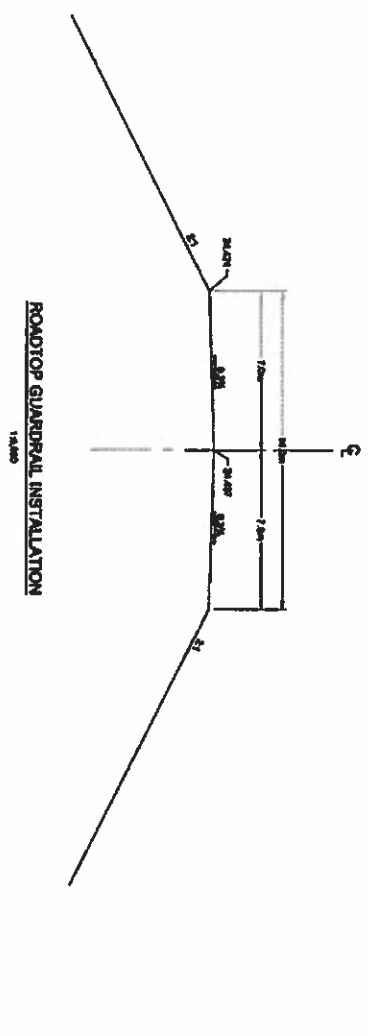
NORTHWEST TERRITORIES HIGHWAY SYSTEM

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- - - Winter Roads

• Ulukhaktok



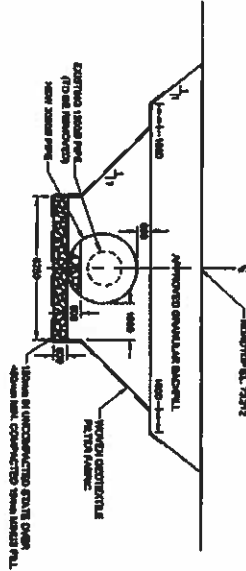
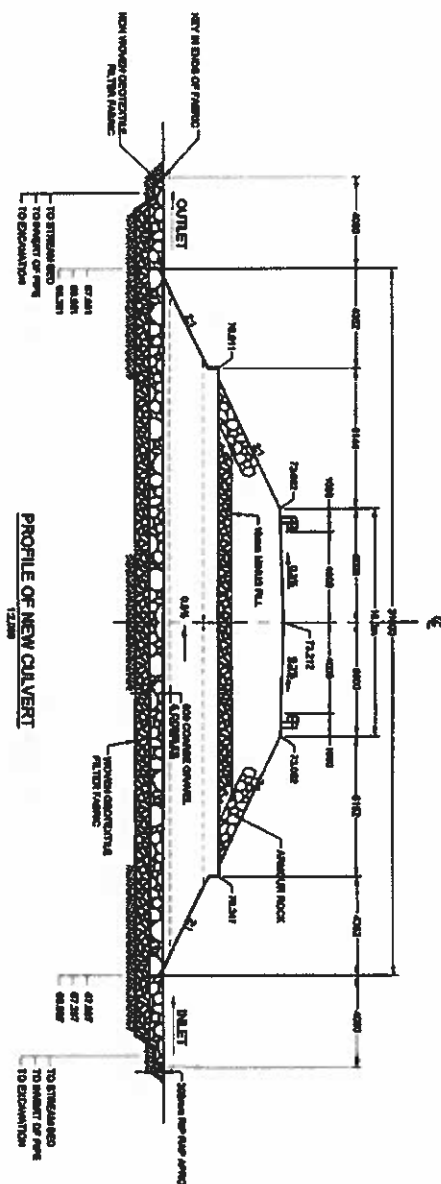
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- 3** Yellowknife Highway
- 4** Ingraham Trail
- 5** Fort Smith Highway
- 6** Fort Resolution Highway
- 7** Liard Highway
- 8** Dempster Highway



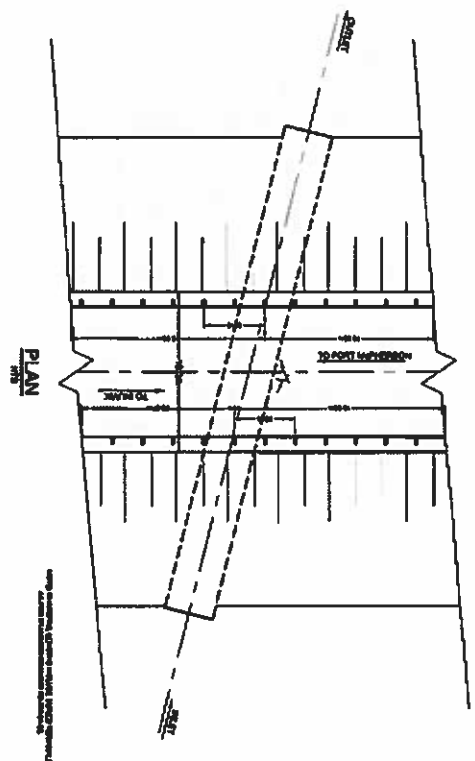
Designed by:	P. Pruvost, S. Saitly
Drawn/Checked by:	P. Erickson
Agreement by:	A. Landings
Scale:	As Shown
Date:	March 2010

Task:
**Major Culvert Replacement
 Dempster Highway (No. 8), N.W.T. Km 148.8**

Contract No. _____
 Drawing No. 1 of 1



CULVERT CROSS-SECTION
12.000



PLAN



Designed by:	P. Pritchard & Smyth	Drawn/Checked by:	P. Pritchard
Approved by:	A. Landings	Shewy Gr:	Madison Engineering
Scale:	As Shown	Date:	March 2010

Task: Major Culvert Replacement Dempster Highway (No. 8), N.W.T. Km 209.4
Drawing No. 1 of 1

**Gwich'in Land and Water Board
 Consultation – Communication Log
 60143840 – Application for Land Use Permit and Water Licence Renewals
 Culvert Replacement – Highway 8**

Organizations	Contact Date	Actions/Comments	Contact Information
Hamlet of Fort McPherson	3-May-10	Consultation letter faxed to SAO in hamlet office – receipt confirmed - no response	867-952-2725(fax)
	13-May-10	Consultation letter emailed to SAO	jwilson@hamlet.fortmcperson.nt.ca
	14-May-10	Phoned hamlet office – James Wilson no longer SAO – left voice mail message for new SAO Richard Wilson	867-952-2428(tel)
Teilit Gwich'in Renewable Resources Council	3-May-10	Consultation letter faxed to Gina Vaneltsi – receipt confirmed – no response	867-952-2212(fax)
	13-May-10	Letter emailed to Gina Vaneltsi – no response	GVaneltsi@teilitgwichin.ca
	14-May-10	Phoned Gina Vaneltsi (3:30 pm) – transferred by secretary to her voice mail – left message	867-952-2330(tel)
Community of Tsigehtchic	3-May-10	Consultation letter faxed to Carolyn Lennie – receipt confirmed – no response	867-953-3302(fax)
	13-May-10	Consultation letter emailed to Carolyn Lennie – responded that band meeting is taking place May 18 th – will respond on May 19 th if any concerns	Sao_tsigehtchic.ca
	3-May-10	Consultation letter faxes to Anna Mae McLeod – receipt confirmed – no response	867-953-3603(fax)
Gwichya Gwich'in Renewable Resources Council	13-May-10	Consultation letter emailed to Anna Mae McLeod – no response	Tgrrc@hotmail.com
	14-May-10	Phoned Anna Mae McLeod – left voice mail message	867-953-3608(tel)
	25-May-10	Voice mail left stated that the council had 2 requests. The first was that local persons be hired to work on the project. The second was that an environmental monitor be hired full-time to oversee the operation and report on issues which might be of concern to the community.	
Town of Inuvik	3-May-10	Consultation letter faxed to Sara Brown, SAO – receipt confirmed – no response	867-777-6651(fax)
	13-May-10	Consultation letter emailed to Sara Brown – emailed response – no concerns	SAO@town.inuvik.nt.ca
Nihlat Gwich'in Renewable Resources Council	3-May-10	Consultation letter faxed to Neil Firth	867-777-6651(fax)
	14-May-10	Phoned Neil Firth, left voice mail message. Mr. Firth returned the call – Council met on May 4 th & discussed the culvert replacement – fully support the project – no concerns.	867-777-6650(tel)