



McElhanney

for / pour



**Parks Canada
Agency
Western and
Northern Region**

**L'Agence Parcs
Canada
Ouest et Nord
Région**

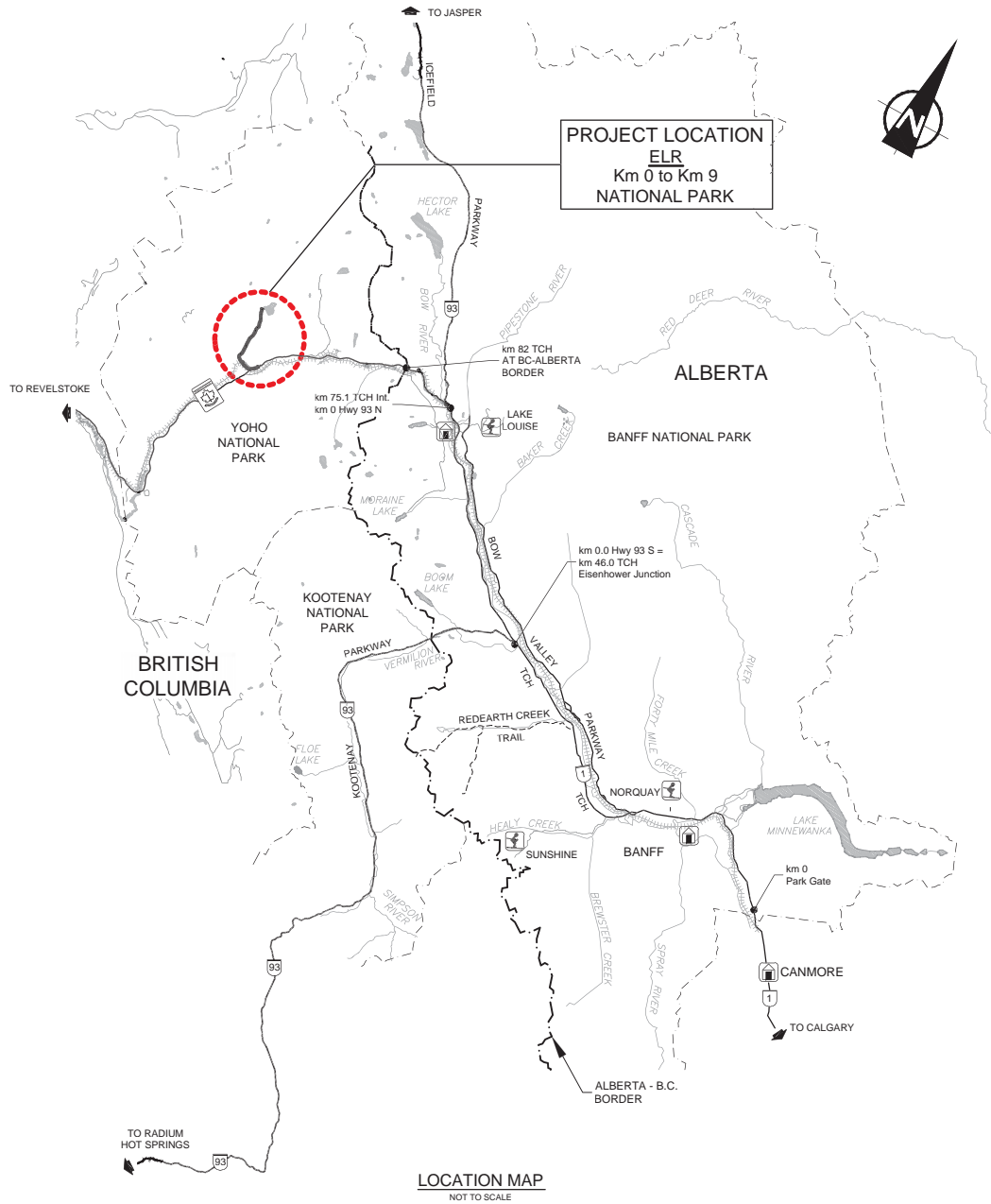
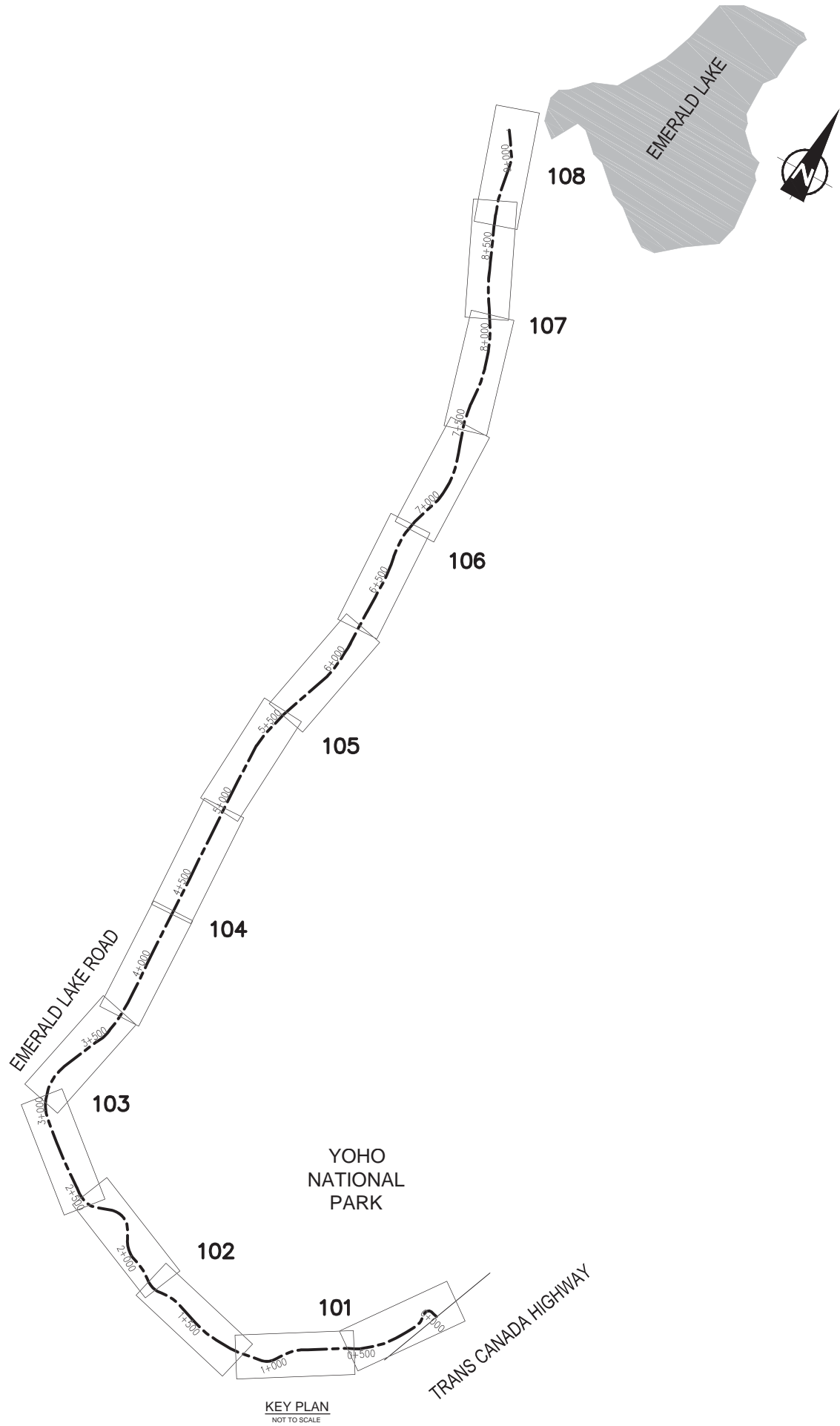
**EMERALD LAKE ROAD KM 0 TO KM 9
TRANS CANADA HIGHWAY KM 17 TO KM 23
PAVEMENT REHABILITATION**

**YOHO NATIONAL PARK, BC
&
BANFF NATIONAL PARK, AB**

PROJECT NO. 201547

MARCH 2016

C01



DRAWING INDEX	
SHEET No.	SHEET TITLE
C01	COVER SHEET
C02	LOCATION MAP – EMERALD LAKE ROAD – STA 0+000 TO 9+000
C03	LOCATION MAP – TRANS CANADA HIGHWAY – STA 17+000 TO 23+000
101–108	PLANS – EMERALD LAKE ROAD – STA 0+000 TO 9+000
109–114	PLANS – TRANS CANADA HIGHWAY – STA 17+000 TO 23+000
301	TYPICAL SECTIONS AND DETAILS – EMERALD LAKE ROAD
302	TYPICAL SECTIONS AND DETAILS – TRANS CANADA HIGHWAY

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A	2016.03.04	ISSUED FOR TENDER	HC	SF
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A	detail number numéro de détail
B	source drawing no. de dessin no.
C	detail on drawing no. détail sur dessin no.

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	
Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil
McElhanney

Project title/Titre du projet
EMERALD LAKE ROAD PAVEMENT REHABILITATION
YOHO NATIONAL PARK, BC

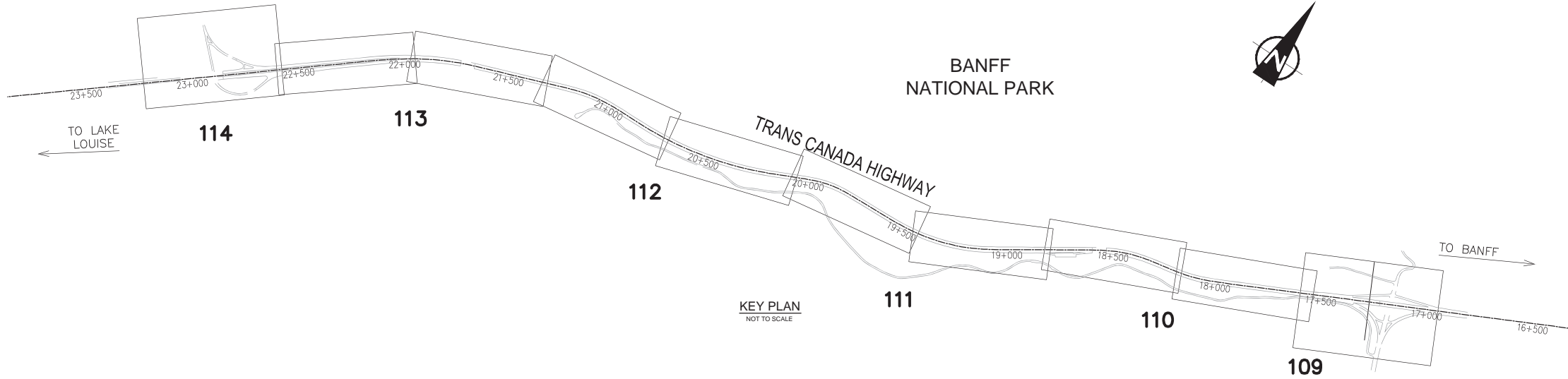
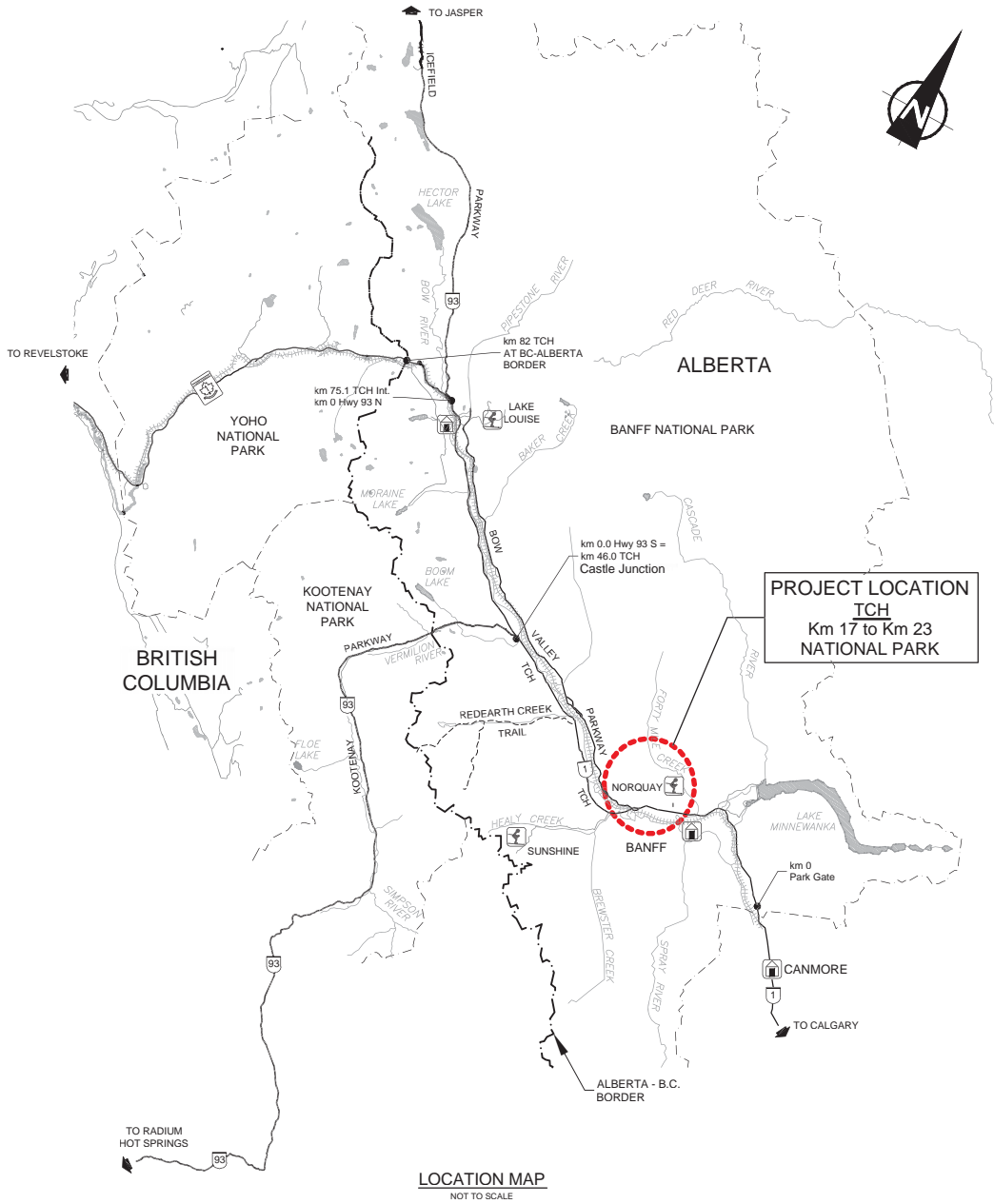
Drawing title/Titre du dessin
LOCATION MAP EMERALD LAKE ROAD STA 0+000 TO 9+000
NOT FOR CONSTRUCTION

Surveyed by/Arpenté par -	Drawn by/Dessiné par HC	Date/Date 2016.03.04
Designed by/Concept par AK	Reviewed by/Revisé par SF	Scale/Echelle NTS

Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Client Acceptance/Acceptation du client	Approved by/Approuvé par

Parks Canada Responsible Officer/Agent Responsable Parcs Canada		Parks Canada Project Manager/Administrateur de Projets Parcs Canada
Project No./No. du projet 201547	Asset No./No. du-bien	Sheet No./No. de la feuille C02
Drawing Reference No./No. de référence du dessin 2121-00546-02-RE		

DRAWING INDEX	
SHEET No.	SHEET TITLE
C01	COVER SHEET
C02	LOCATION MAP - EMERALD LAKE ROAD - STA 0+000 TO 9+000
C03	LOCATION MAP - TRANS CANADA HIGHWAY - STA 17+000 TO 23+000
101-108	PLANS - EMERALD LAKE ROAD - STA 0+000 TO 9+000
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301	TYPICAL SECTIONS AND DETAILS - EMERALD LAKE ROAD
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Revision / Revision	
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Consultant's Stamp Sceau de l'expert-conseil	
Eng. Stamp Sceau de l'ingénieur	

Client/client	
 Parks Canada Agence Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil
 McElhanney

Project title/Titre du projet
TRANS CANADA HIGHWAY PAVEMENT REHABILITATION
BANFF NATIONAL PARK, AB

Drawing title/Titre du dessin
LOCATION MAP TRANS CANADA HIGHWAY STA 17+000 TO 23+000
NOT FOR CONSTRUCTION

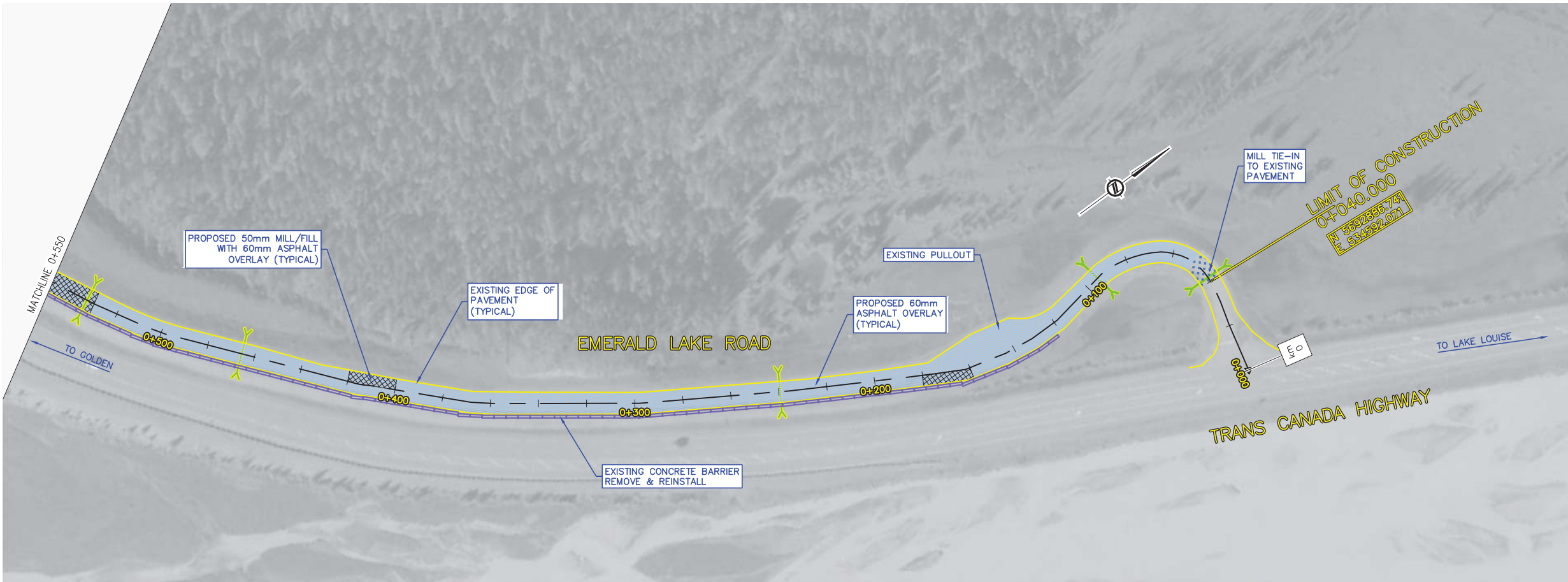
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	NTS

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par

Parks Canada Responsible Officer/Agent Responsable Parcs Canada		Parks Canada Project Manager/Administrateur de Projets Parcs Canada
Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
201547		C03
Drawing Reference No./No. de référence du dessin		
2121-00546-02-RE		

Filename: O:\Proj\2121-00546-02-PCA - BNPT CH Excision Fencing\2121-00546-XX-PCA - BNPT CH and YNP ELP Raw\10.0 DRAWINGS\10.3 Engineering\ELR 0.9km-RE-100.dwg\101
Plotted: March 04, 2016 12:28:56



NOTES:
1. LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
2. DITCH FLOW ARROW DIRECTIONS ARE SHOWN AS APPROXIMATE.
3. LOCATIONS OF THE PROPOSED MILL AND FILL REPAIRS AND FULL DEPTH RECLAMATION PRIOR TO OVERLAY WILL BE REVIEWED AND ADJUSTED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE.
4. IMAGERY FROM ESRI

- LEGEND
- PROPOSED MILLED TIE-IN
 - PROPOSED 60mm OVERLAY
 - PROPOSED 50mm MILL/FILL w/ 60mm OVERLAY
 - PROPOSED FULL DEPTH RECLAMATION
 - BRUSHING LIMIT (typ.)
 - EOP
 - EXISTING W BEAM GUARDRAIL
 - EXISTING CONCRETE BARRIER
 - CLEAN & RESHAPE EXISTING DITCH
 - EXISTING CULVERT

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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	
Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil
McElhanney

Project title/Titre du projet
EMERALD LAKE ROAD PAVEMENT REHABILITATION
YOHO NATIONAL PARK, BC

Drawing title/Titre du dessin
PLAN
STA 0+000 TO 1+180
NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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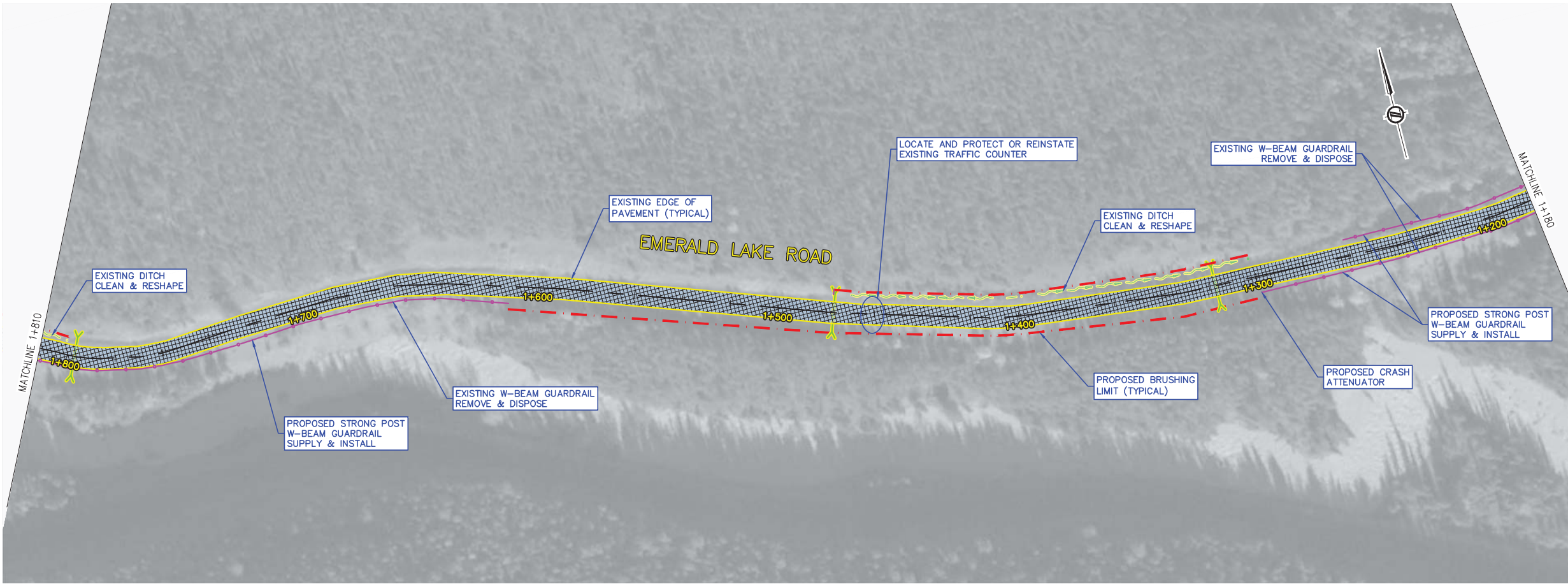
Parks Canada Responsible Officer/Agent Responsable Parcs Canada

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
201547		101

Drawing Reference No./No. de référence du dessin
2121-00546-02-RE

Filename: O:\Proj\2121-00546-02-PCA - BNPTCH Exclusion Fencing\2121-00546-XX PCA - BNPTCH and YNP ELP Raving\10.0 DRAWINGS\10.3 Engineering\ELR 0.9km-RE-100.dwg\102
Plotted: March 04, 2016 12:29:32



- LEGEND**
- PROPOSED MILLED TIE-IN
 - PROPOSED 60mm OVERLAY
 - PROPOSED 50mm MILL/FILL w/ 60mm OVERLAY
 - PROPOSED FULL DEPTH RECLAMATION
 - BRUSHING LIMIT (typ.)
 - EOP
 - EXISTING W BEAM GUARDRAIL
 - EXISTING CONCRETE BARRIER
 - CLEAN & RESHAPE EXISTING DITCH
 - EXISTING CULVERT

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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	
Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil

Project title/Titre du projet
EMERALD LAKE ROAD PAVEMENT REHABILITATION
YOHO NATIONAL PARK, BC

Drawing title/Titre du dessin
PLAN
STA 1+180 TO 2+440
NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

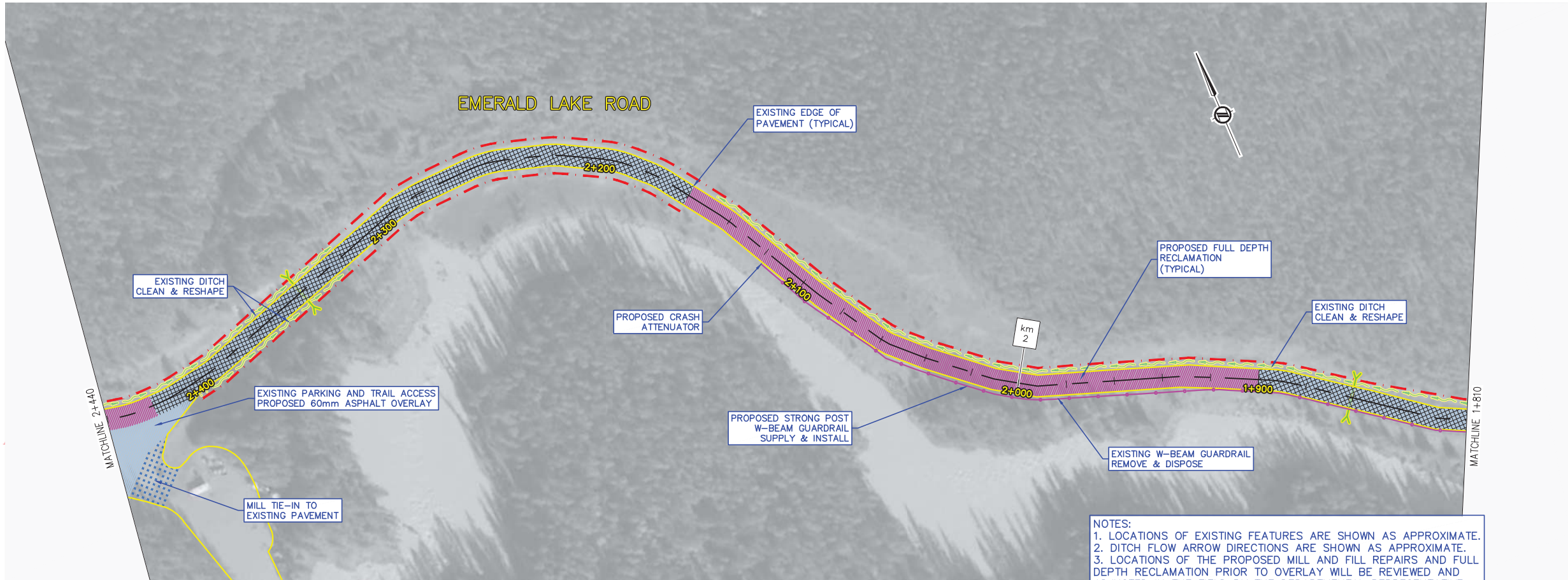
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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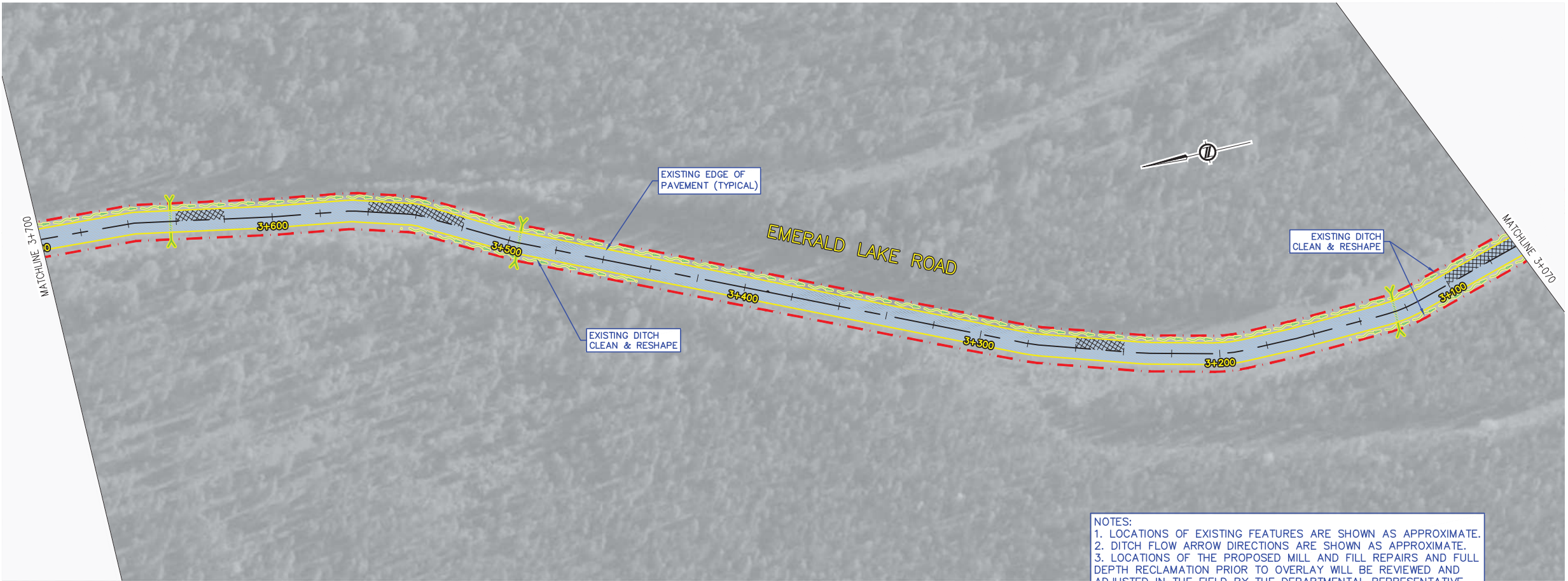
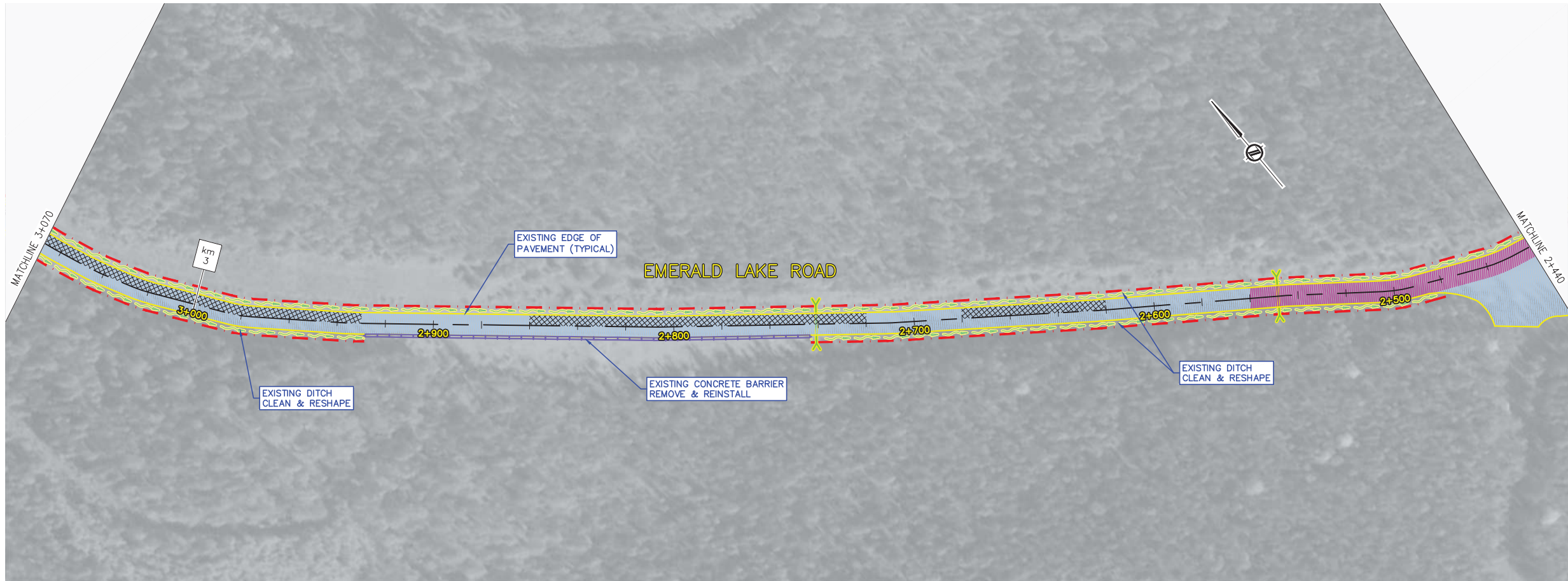
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Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201547		102

Drawing Reference No./No. de référence du dessin
2121-00546-02-RE



- NOTES:**
- LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
 - DITCH FLOW ARROW DIRECTIONS ARE SHOWN AS APPROXIMATE.
 - LOCATIONS OF THE PROPOSED MILL AND FILL REPAIRS AND FULL DEPTH RECLAMATION PRIOR TO OVERLAY WILL BE REVIEWED AND ADJUSTED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE.
 - IMAGERY FROM ESRI



NOTES:
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4. IMAGERY FROM ESRI

- LEGEND
- PROPOSED MILLED TIE-IN
 - PROPOSED 60mm OVERLAY
 - PROPOSED 50mm MILL/FILL w/ 60mm OVERLAY
 - PROPOSED FULL DEPTH RECLAMATION
 - BRUSHING LIMIT (typ.)
 - EOP
 - EXISTING W BEAM GUARDRAIL
 - EXISTING CONCRETE BARRIER
 - CLEAN & RESHAPE EXISTING DITCH
 - EXISTING CULVERT

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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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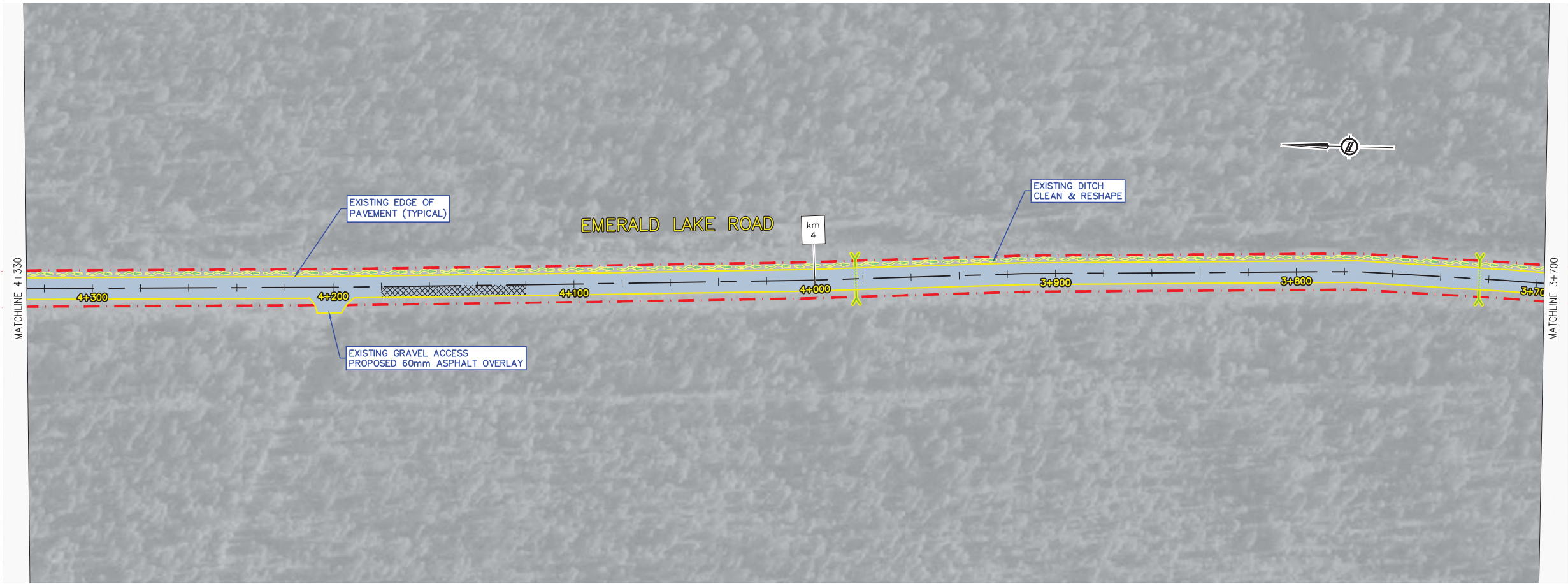
Client/client	
 Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil	
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Project title/Titre du projet	EMERALD LAKE ROAD PAVEMENT REHABILITATION
	YOHO NATIONAL PARK, BC

Drawing title/Titre du dessin	PLAN
	STA 2+440 TO 3+700
	NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
201547		103
Drawing Reference No./No. de référence du dessin		2121-00546-02-RE



- LEGEND**
- PROPOSED MILLED TIE-IN
 - PROPOSED 60mm OVERLAY
 - PROPOSED 50mm MILL/FILL w/ 60mm OVERLAY
 - PROPOSED FULL DEPTH RECLAMATION
 - BRUSHING LIMIT (typ.)
 - EOP
 - EXISTING W BEAM GUARDRAIL
 - EXISTING CONCRETE BARRIER
 - CLEAN & RESHAPE EXISTING DITCH
 - EXISTING CULVERT

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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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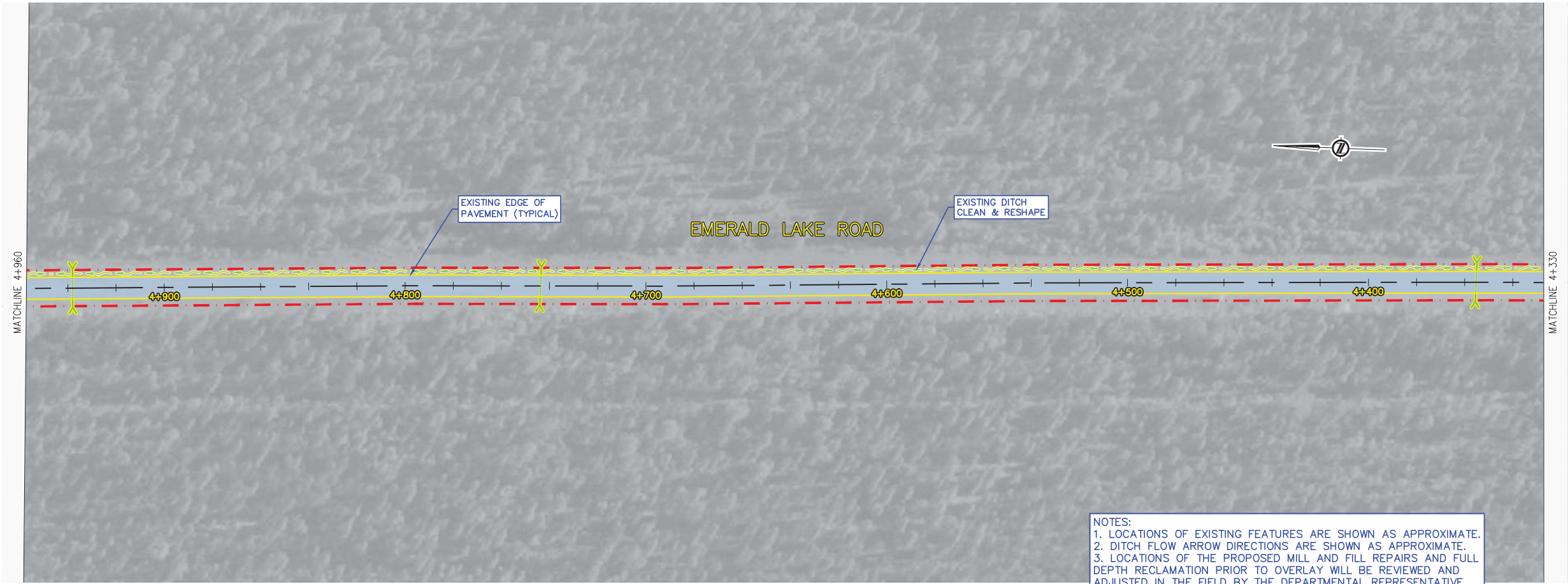
Client/client	
Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil

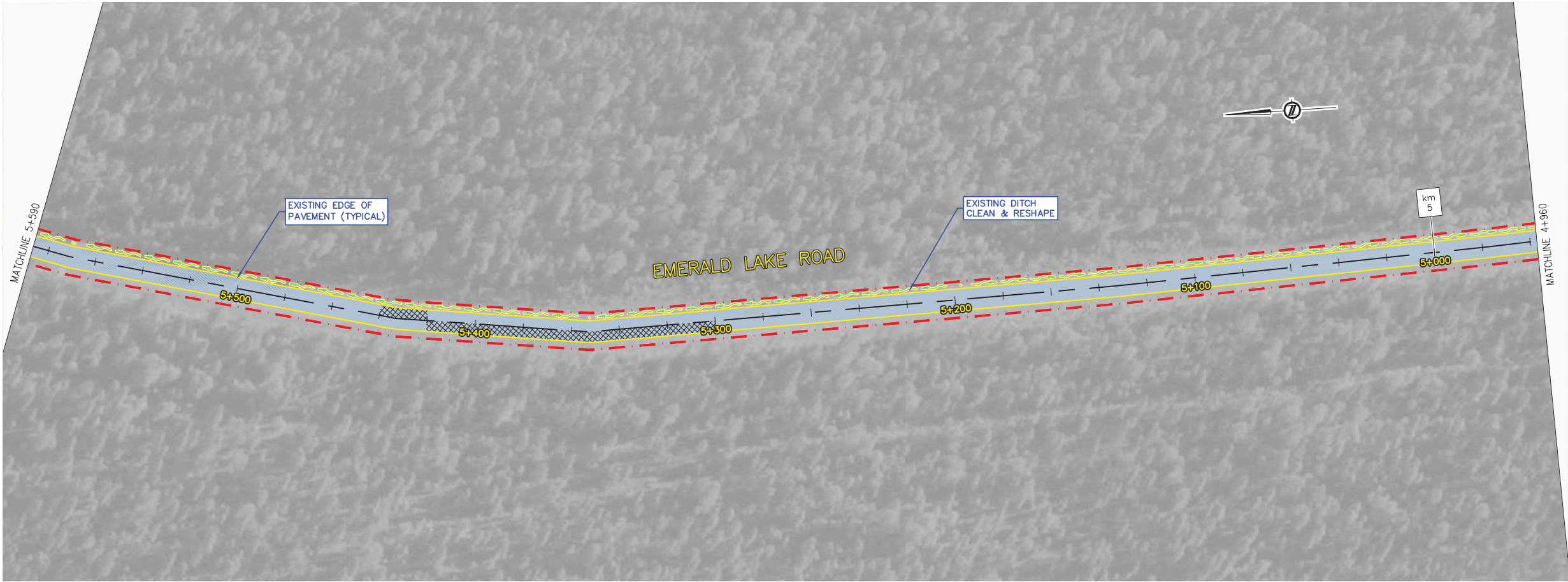
Project title/Titre du projet
EMERALD LAKE ROAD PAVEMENT REHABILITATION
YOHO NATIONAL PARK, BC

Drawing title/Titre du dessin
PLAN
STA 3+700 TO 4+960
NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille
201547		104
Drawing Reference No./No. de référence du dessin		2121-00546-02-RE



- NOTES:**
- LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
 - DITCH FLOW ARROW DIRECTIONS ARE SHOWN AS APPROXIMATE.
 - LOCATIONS OF THE PROPOSED MILL AND FILL REPAIRS AND FULL DEPTH RECLAMATION PRIOR TO OVERLAY WILL BE REVIEWED AND ADJUSTED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE.
 - IMAGERY FROM ESRI



- LEGEND**
- PROPOSED MILLED TIE-IN
 - PROPOSED 60mm OVERLAY
 - PROPOSED 50mm MILL/FILL w/ 60mm OVERLAY
 - PROPOSED FULL DEPTH RECLAMATION
 - BRUSHING LIMIT (typ.)
 - EOP
 - EXISTING W BEAM GUARDRAIL
 - EXISTING CONCRETE BARRIER
 - CLEAN & RESHAPE EXISTING DITCH
 - EXISTING CULVERT

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C detail on drawing no. détail sur dessin no.	C

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	
Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil

Project title/Titre du projet
EMERALD LAKE ROAD PAVEMENT REHABILITATION
YOHO NATIONAL PARK, BC

Drawing title/Titre du dessin
PLAN
STA 4+960 TO 6+220
NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

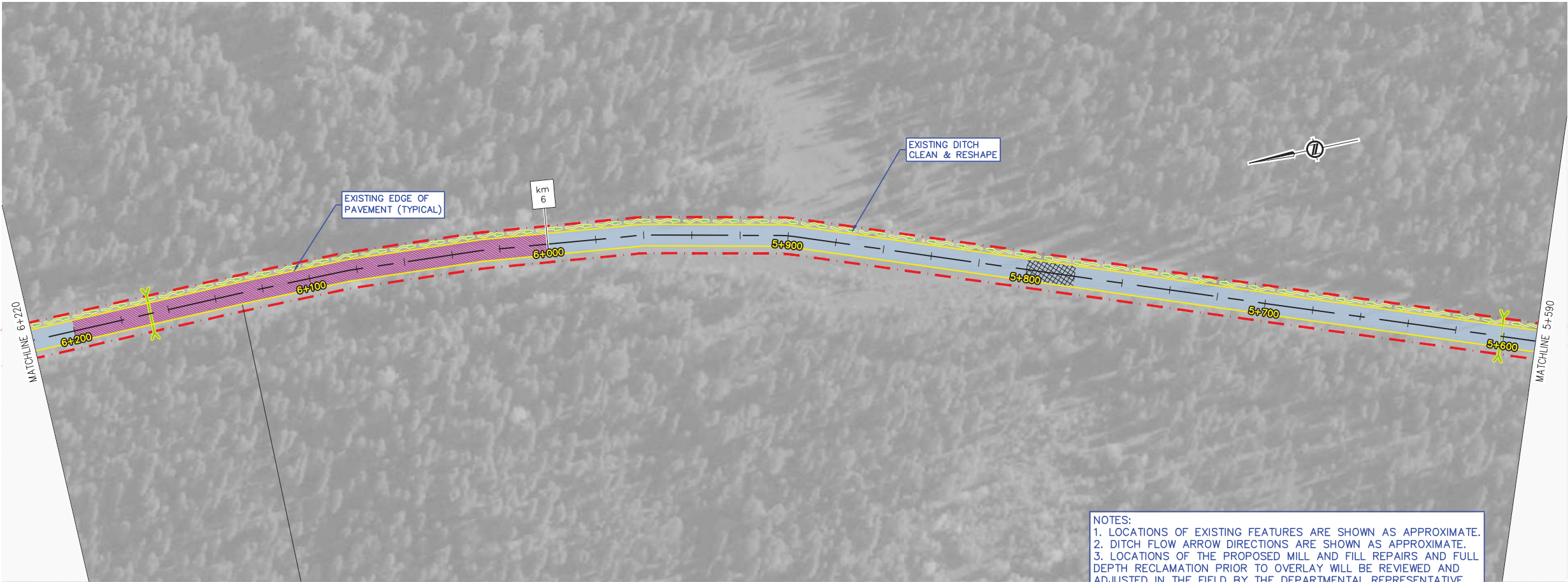
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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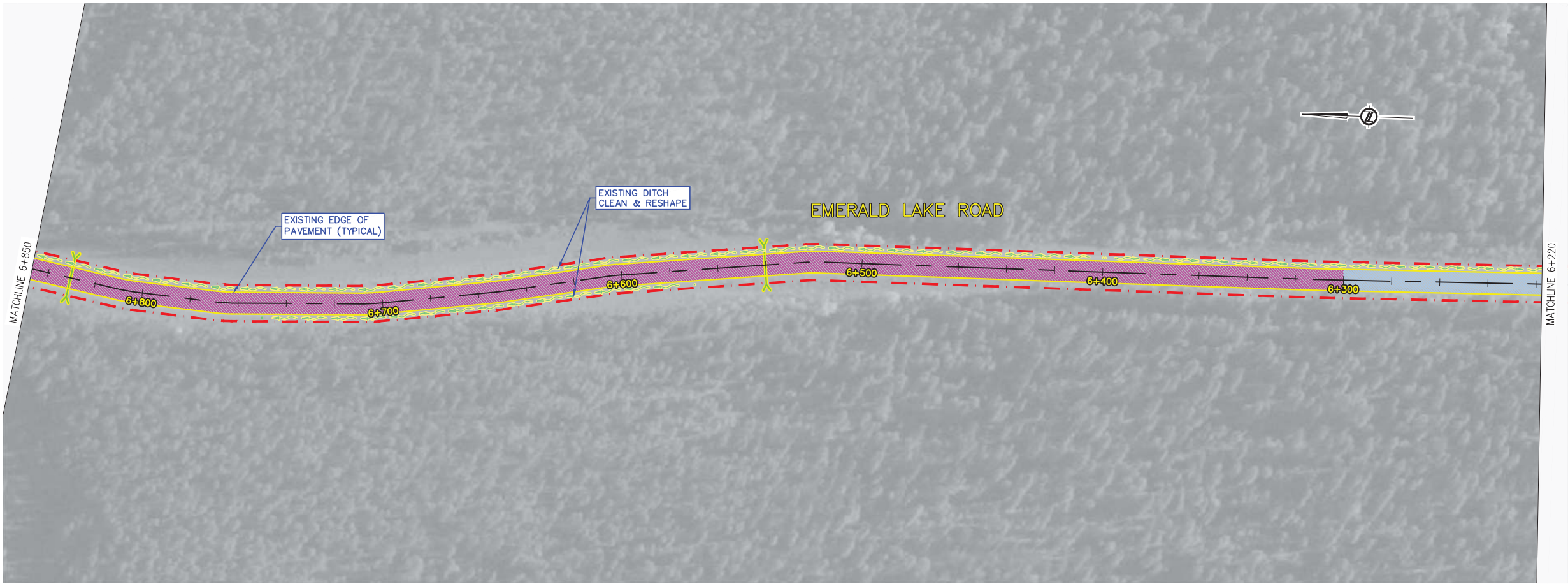
Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada
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Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille
201547		105

Drawing Reference No./No. de référence du dessin
2121-00546-02-RE



- NOTES:**
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 - IMAGERY FROM ESRI



- LEGEND**
- PROPOSED MILLED TIE-IN
 - PROPOSED 60mm OVERLAY
 - PROPOSED 50mm MILL/FILL w/ 60mm OVERLAY
 - PROPOSED FULL DEPTH RECLAMATION
 - BRUSHING LIMIT (typ.)
 - EOP
 - EXISTING W BEAM GUARDRAIL
 - EXISTING CONCRETE BARRIER
 - CLEAN & RESHAPE EXISTING DITCH
 - EXISTING CULVERT

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Client/client	Parks Canada Agence Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région
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Consultant's Name Nom de l'expert-conseil	McElhanney
--	-------------------

Project title/Titre du projet	EMERALD LAKE ROAD PAVEMENT REHABILITATION
	YOHO NATIONAL PARK, BC

Drawing title/Titre du dessin	PLAN
	STA 6+220 TO 7+480
	NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

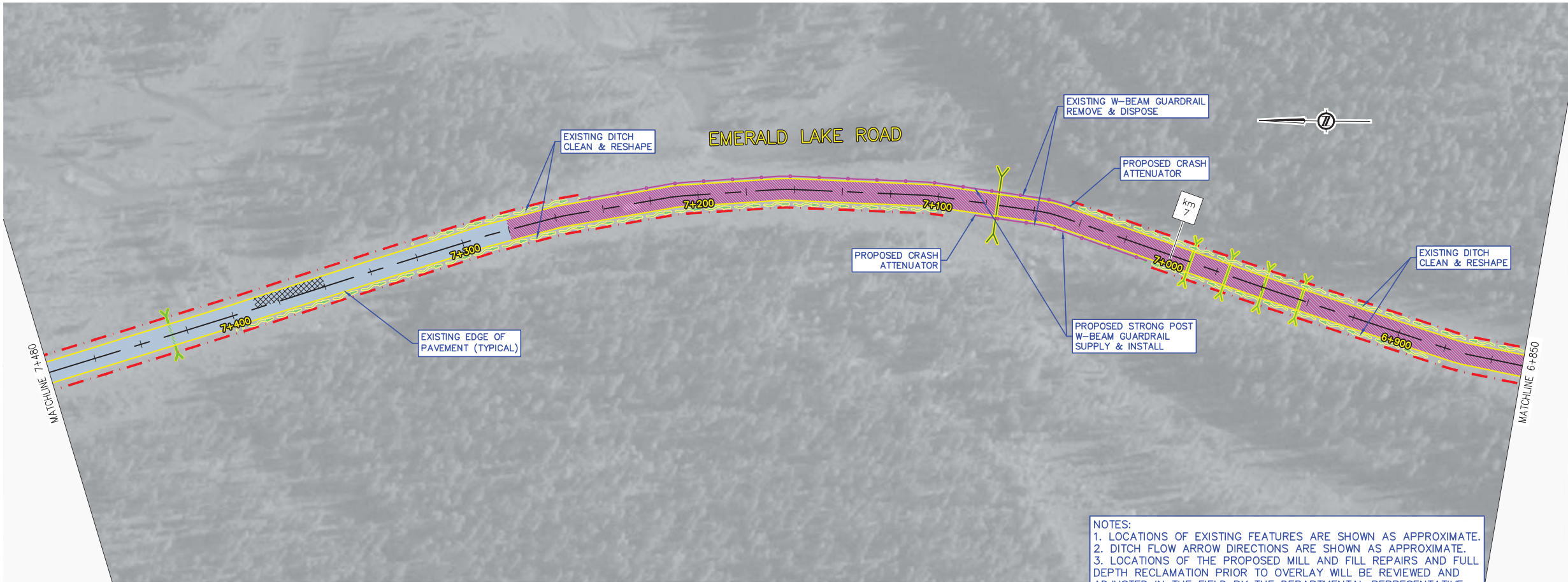
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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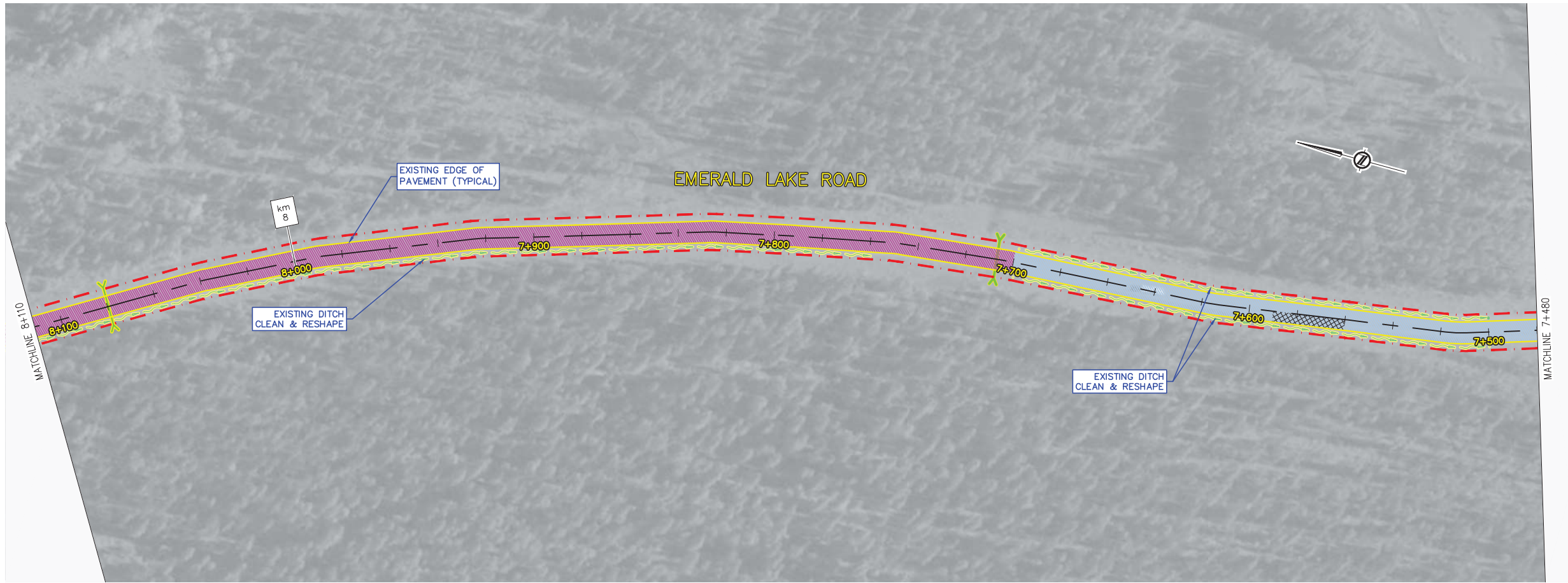
Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada
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Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
201547		106

Drawing Reference No./No. de référence du dessin	2121-00546-02-RE
--	------------------



- NOTES:**
- LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
 - DITCH FLOW ARROW DIRECTIONS ARE SHOWN AS APPROXIMATE.
 - LOCATIONS OF THE PROPOSED MILL AND FILL REPAIRS AND FULL DEPTH RECLAMATION PRIOR TO OVERLAY WILL BE REVIEWED AND ADJUSTED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE.
 - IMAGERY FROM ESRI



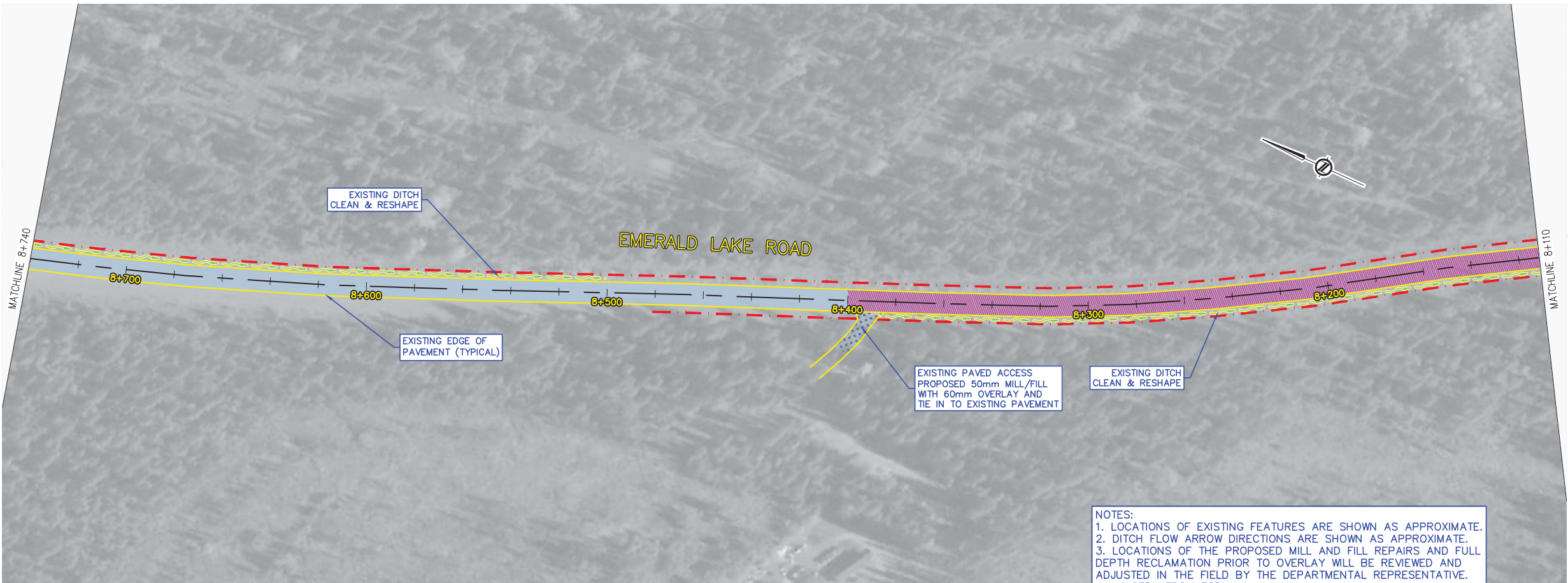
LEGEND

- PROPOSED MILLED TIE-IN
- PROPOSED 60mm OVERLAY
- PROPOSED 50mm MILL/FILL w/ 60mm OVERLAY
- PROPOSED FULL DEPTH RECLAMATION
- BRUSHING LIMIT (typ.)
- EOP
- EXISTING W BEAM GUARDRAIL
- EXISTING CONCRETE BARRIER
- CLEAN & RESHAPE EXISTING DITCH
- EXISTING CULVERT

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A	2016.03.04	ISSUED FOR TENDER	HC	SF
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
A detail number numéro de détail		A detail on drawing no. détail sur dessin no.		
B source drawing no. de dessin no.		B source drawing no. de dessin no.		
C detail on drawing no. détail sur dessin no.		C detail on drawing no. détail sur dessin no.		
Consultant's Stamp Sceau de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur	



NOTES:
1. LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
2. DITCH FLOW ARROW DIRECTIONS ARE SHOWN AS APPROXIMATE.
3. LOCATIONS OF THE PROPOSED MILL AND FILL REPAIRS AND FULL DEPTH RECLAMATION PRIOR TO OVERLAY WILL BE REVIEWED AND ADJUSTED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE.
4. IMAGERY FROM ESRI

Client/client

Parks Canada
Agency
Western and
Northern Region

L'Agence Parcs
Canada
Ouest et Nord
Région

Consultant's Name
Nom de l'expert-conseil

McElhanney

Project title/Titre du projet

**EMERALD LAKE ROAD
PAVEMENT REHABILITATION**

YOHO NATIONAL PARK, BC

Drawing title/Titre du dessin

PLAN

STA 7+480 TO 8+740

NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client

Approved by/Approuvé par

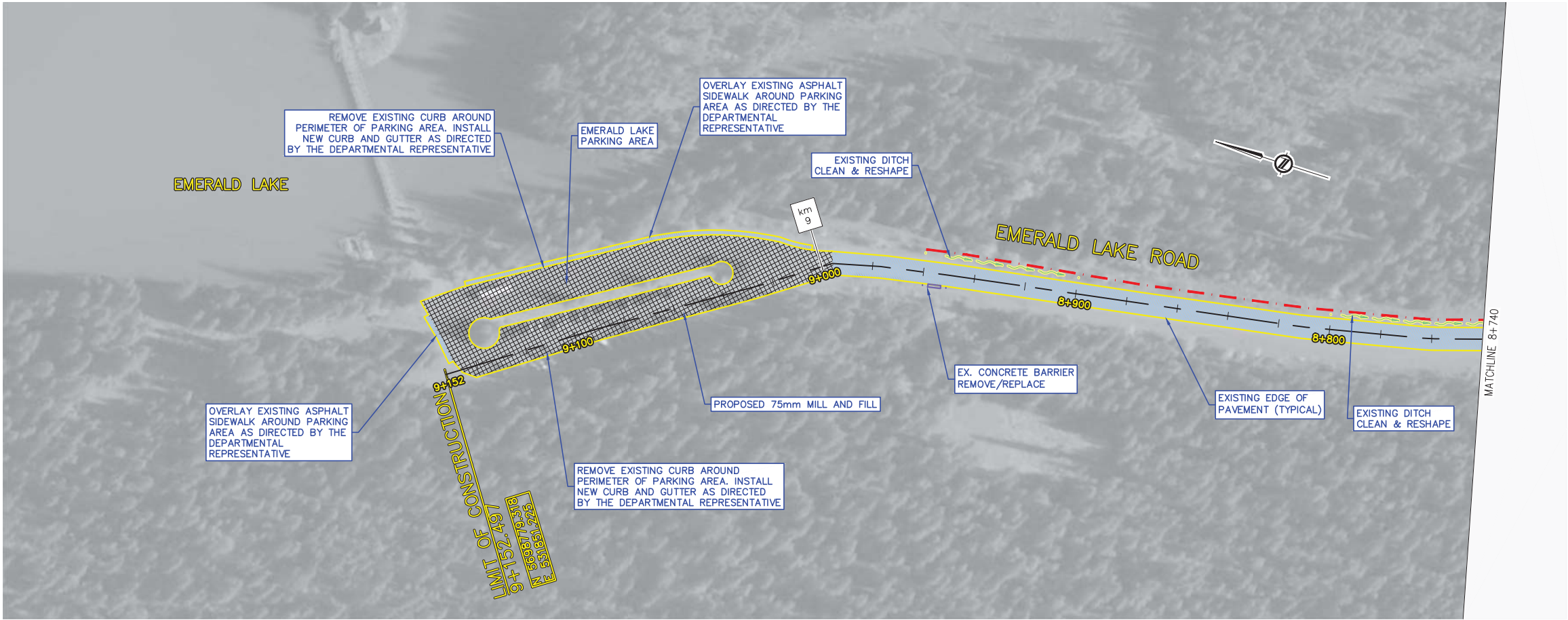
Parks Canada Responsible Officer/Responsable Parcs Canada

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201547		107

Drawing Reference No./No. de référence du dessin

2121-00546-02-RE



NOTES:
1. LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
2. DITCH FLOW ARROW DIRECTIONS ARE SHOWN AS APPROXIMATE.
3. LOCATIONS OF THE PROPOSED MILL AND FILL REPAIRS AND FULL DEPTH RECLAMATION PRIOR TO OVERLAY WILL BE REVIEWED AND ADJUSTED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE.
4. IMAGERY FROM ESRI

- LEGEND
- PROPOSED MILLED TIE-IN
 - PROPOSED 60mm OVERLAY
 - PROPOSED 50mm MILL/FILL w/ 60mm OVERLAY
 - PROPOSED FULL DEPTH RECLAMATION
 - BRUSHING LIMIT (typ.)
 - EOP
 - EXISTING W BEAM GUARDRAIL
 - EXISTING CONCRETE BARRIER
 - CLEAN & RESHAPE EXISTING DITCH
 - EXISTING CULVERT

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A	2016.03.04	ISSUED FOR TENDER	HC	SF
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
C

A detail number
numéro de détail
B source drawing no.
de dessin no.
C detail on drawing no.
détail sur dessin no.

A
B
C

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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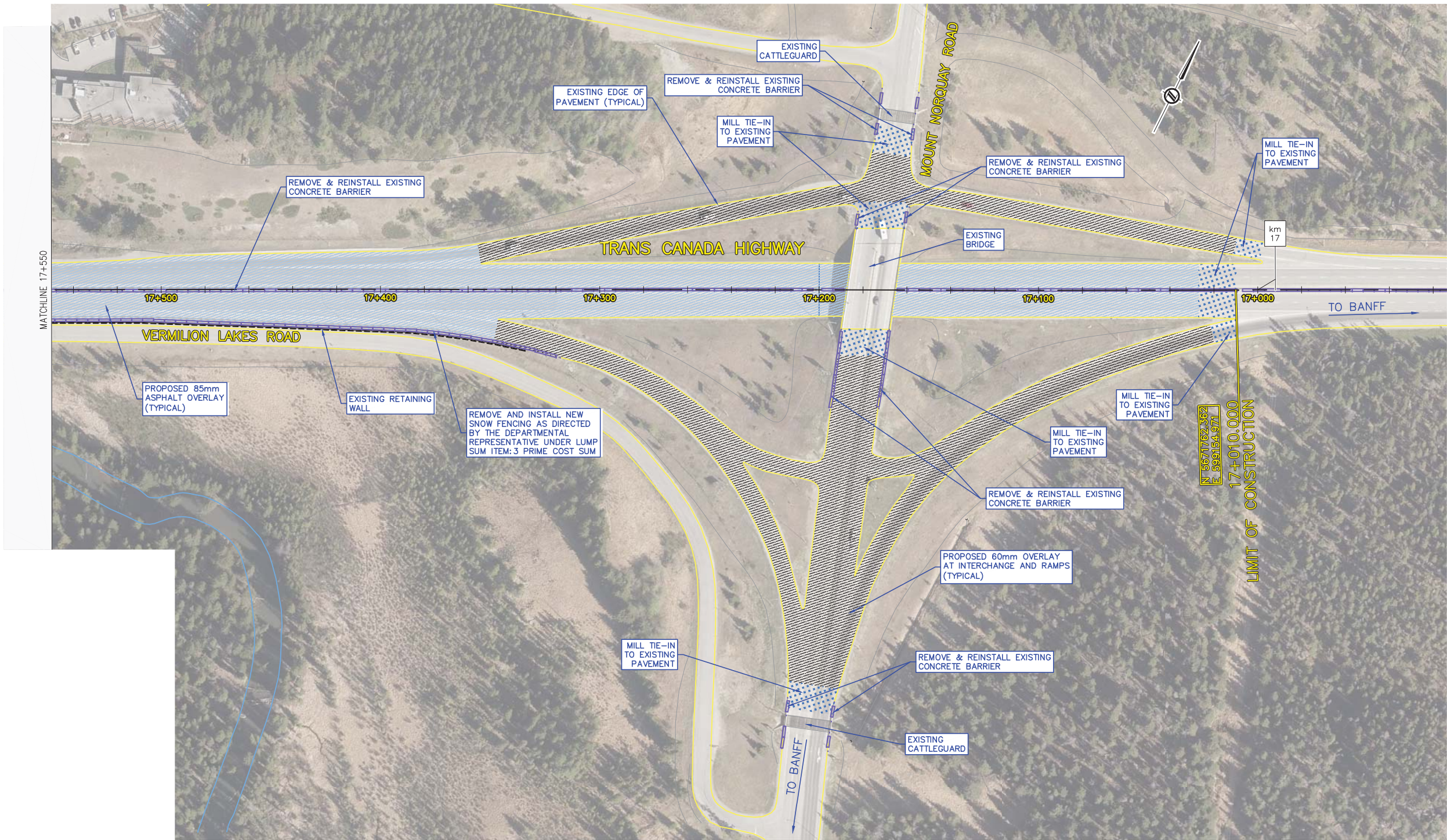
Client/client	
 Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil	 McElhanney
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Project title/Titre du projet	EMERALD LAKE ROAD PAVEMENT REHABILITATION
	YOHO NATIONAL PARK, BC

Drawing title/Titre du dessin	PLAN STA 8+740 TO 9+000 EMERALD LAKE PARKING AREA NOT FOR CONSTRUCTION
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Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201547		108
Drawing Reference No./No. de référence du dessin		2121-00546-02-RE



NOTES:
1. LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
2. DITCH FLOW ARROWS ARE SHOWN AS APPROXIMATE.
3. LOCATE, PROTECT AND REINSTATE EXISTING TRAFFIC COUNTERS AS REQUIRED.
4. LOCATE AND PROTECT EXISTING CATCH BASINS AND MANHOLES.
5. PAINT MARKINGS TO MATCH EXISTING UNLESS NOTED OTHERWISE.

- LEGEND
- PROPOSED 85mm OVERLAY
 - PROPOSED 60mm OVERLAY
 - PROPOSED 50mm MILL/FILL
 - PROPOSED MILL TIE-IN
 - EXISTING CONCRETE BARRIER
 - EXISTING RETAINING WALL
 - CLEAN EXISTING DITCH

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A	2016.03.04	ISSUED FOR TENDER	HC	SF
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A	A detail number numéro de détail
B	B source drawing no. de dessin no.
C	C detail on drawing no. détail sur dessin no.

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	Parks Canada Agence Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région
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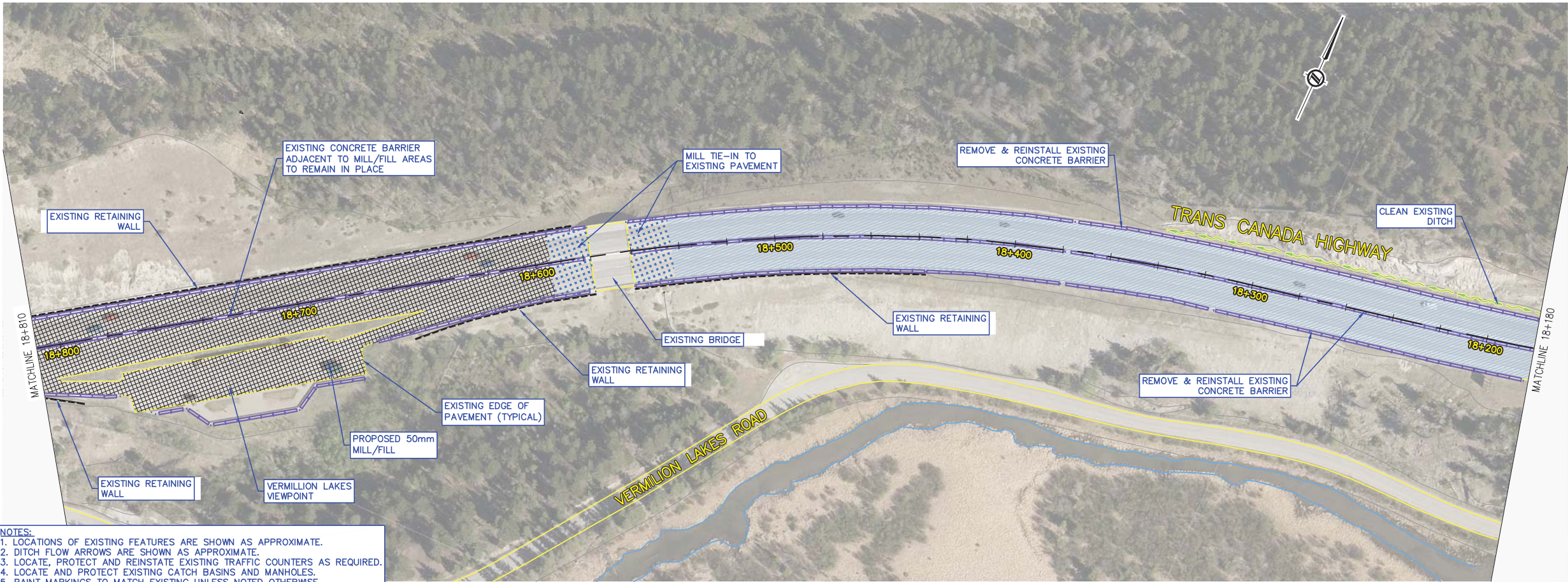
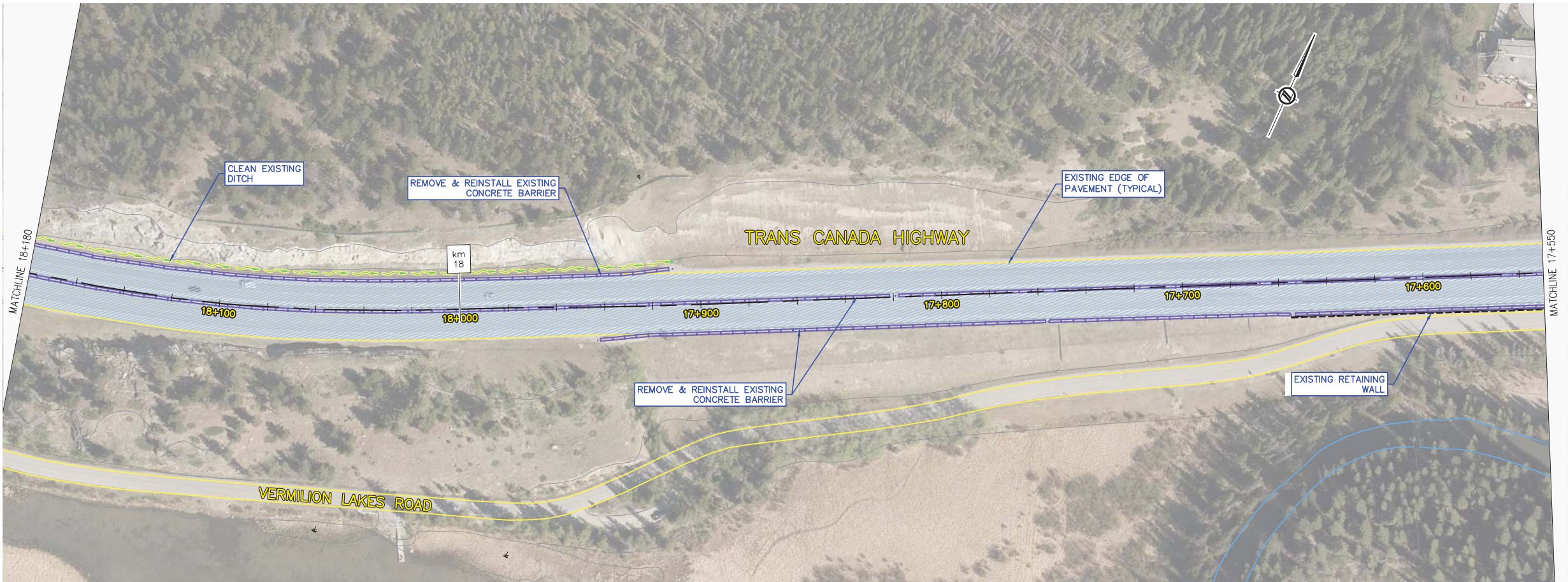
Consultant's Name Nom de l'expert-conseil	
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Project title/Titre du projet	TRANS-CANADA HIGHWAY PAVEMENT REHABILITATION
	BANFF NATIONAL PARK, AB

Drawing title/Titre du dessin	PLAN
	STA: 17+000 TO 17+550
	NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Parks Canada Responsible Officer/Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
201547		109
Drawing Reference No./No. de référence du dessin		2121-00546-02-RE



NOTES:
1. LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
2. DITCH FLOW ARROWS ARE SHOWN AS APPROXIMATE.
3. LOCATE, PROTECT AND REINSTATE EXISTING TRAFFIC COUNTERS AS REQUIRED.
4. LOCATE AND PROTECT EXISTING CATCH BASINS AND MANHOLES.
5. PAINT MARKINGS TO MATCH EXISTING UNLESS NOTED OTHERWISE.

LEGEND

- PROPOSED 85mm OVERLAY
- PROPOSED 60mm OVERLAY
- PROPOSED 50mm MILL/FILL
- PROPOSED MILL TIE-IN
- EXISTING CONCRETE BARRIER
- EXISTING RETAINING WALL
- CLEAN EXISTING DITCH

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A	2016.03.04	ISSUED FOR TENDER	HC	SF
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision			
A	A detail number numéro de détail	A	
B	B source drawing no. de dessin no.	B	C
C	C detail on drawing no. détail sur dessin no.		

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
---	------------------------------------

Client/client	Parks Canada Agence Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région
---------------	--	---

Consultant's Name Nom de l'expert-conseil	McElhanney
--	-------------------

Project title/Titre du projet	TRANS-CANADA HIGHWAY PAVEMENT REHABILITATION
	BANFF NATIONAL PARK, AB

Drawing title/Titre du dessin	PLAN
	STA: 17+550 TO 18+810
	NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

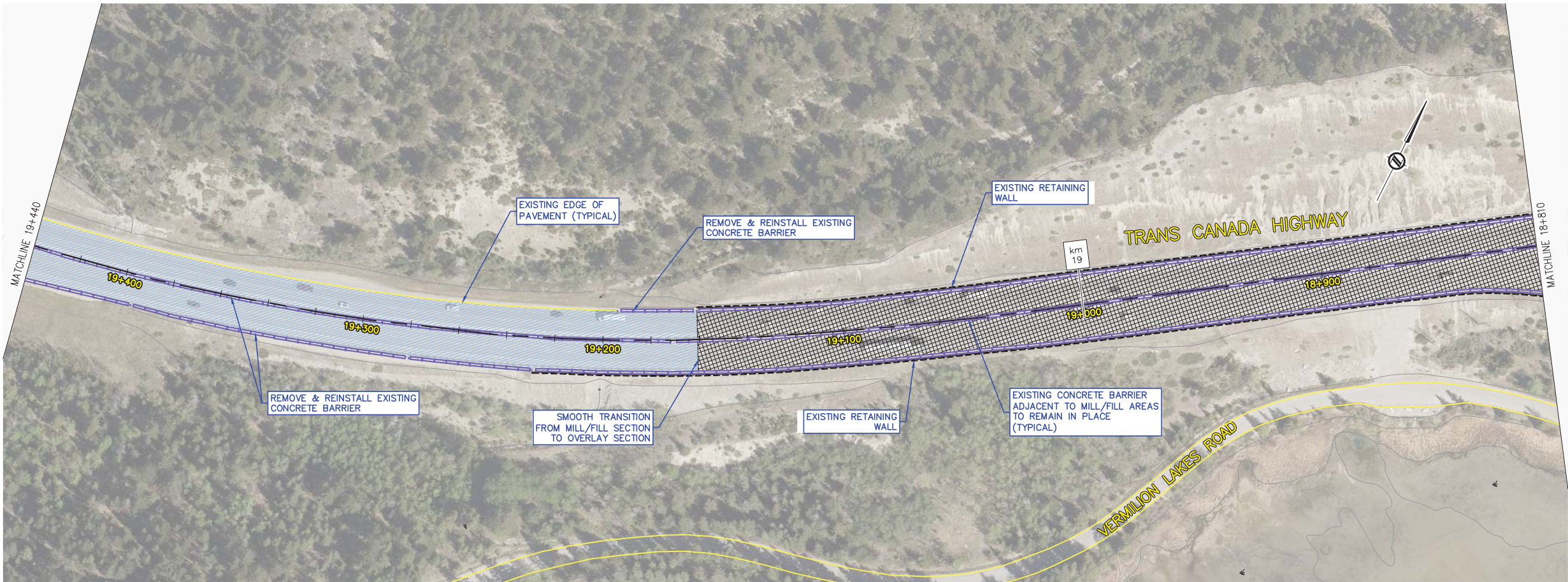
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
---	--------------------------

Parks Canada Responsible Officer/Responsable Parcs Canada

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
201547		110

Drawing Reference No./No. de référence du dessin	2121-00546-02-RE
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LEGEND

- PROPOSED 85mm OVERLAY
- PROPOSED 60mm OVERLAY
- PROPOSED 50mm MILL/FILL
- PROPOSED MILL TIE-IN
- EXISTING CONCRETE BARRIER
- EXISTING RETAINING WALL
- CLEAN EXISTING DITCH

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A	2016.03.04	ISSUED FOR TENDER	HC SF
No.	Date/Date	Description/Description	Drawn by Dessiné par
			Approved Approuvé


Revision / Revision

A	A detail number numéro de détail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. détail sur dessin no.	C

Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client/client

 Parks Canada
Agence
Western and
Northern Region

L'Agence Parcs
Canada
Ouest et Nord
Région

Consultant's Name
Nom de l'expert-conseil



Project title/Titre du projet

TRANS-CANADA HIGHWAY
PAVEMENT REHABILITATION

BANFF NATIONAL PARK, AB

Drawing title/Titre du dessin

PLAN

STA: 18+810 TO 20+070

NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Parks Canada Responsible Officer/Responsable Parcs Canada

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Project No./No. du projet

Asset No./No. du-bien

Sheet No./

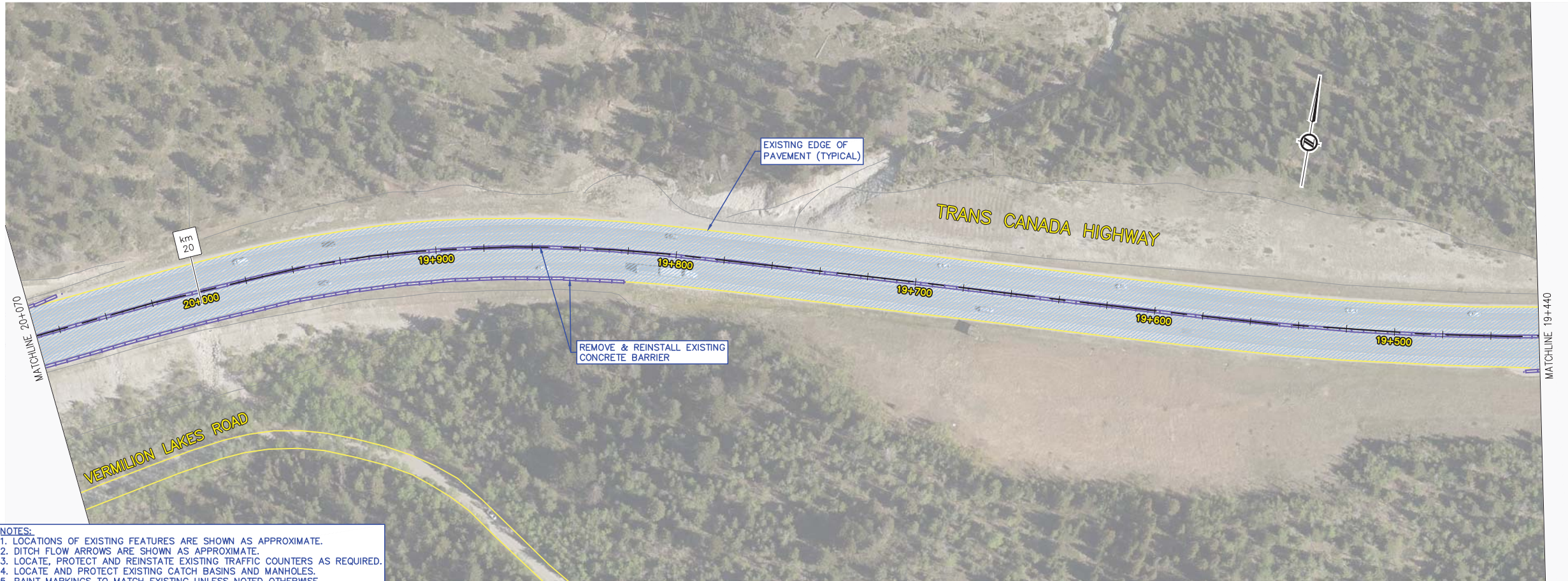
201547

No. de la feuille

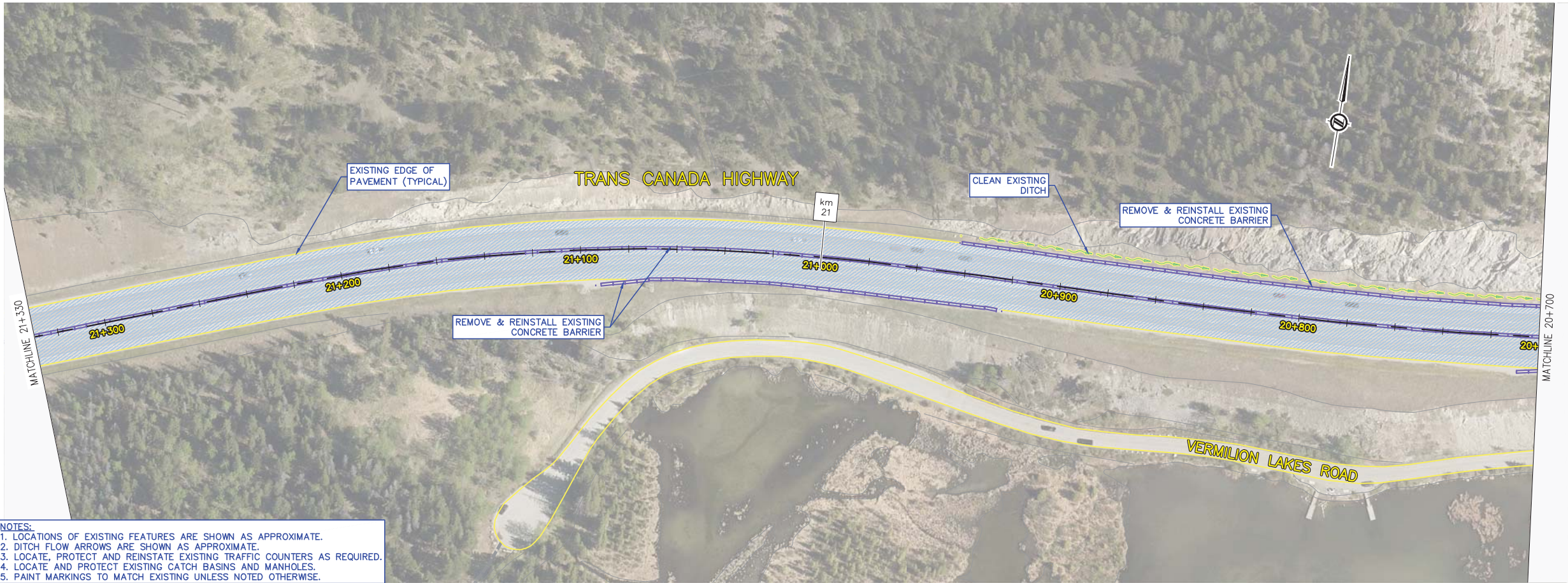
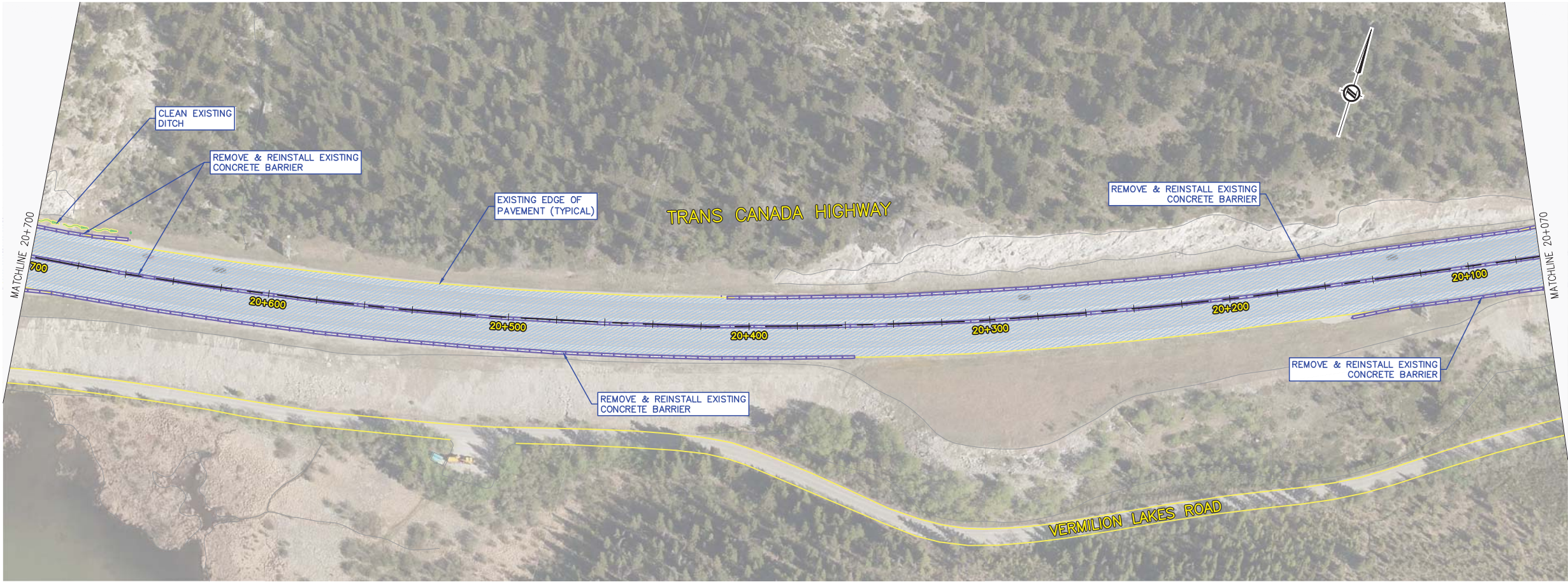
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Drawing Reference No./No. de référence du dessin

2121-00546-02-RE



- NOTES:
- LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
 - DITCH FLOW ARROWS ARE SHOWN AS APPROXIMATE.
 - LOCATE, PROTECT AND REINSTATE EXISTING TRAFFIC COUNTERS AS REQUIRED.
 - LOCATE AND PROTECT EXISTING CATCH BASINS AND MANHOLES.
 - PAINT MARKINGS TO MATCH EXISTING UNLESS NOTED OTHERWISE.



NOTES:
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LEGEND	
	PROPOSED 85mm OVERLAY
	PROPOSED 60mm OVERLAY
	PROPOSED 50mm MILL/FILL
	PROPOSED MILL TIE-IN
	EXISTING CONCRETE BARRIER
	EXISTING RETAINING WALL
	CLEAN EXISTING DITCH

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A	2016.03.04	ISSUED FOR TENDER	HC	SF
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
	A detail number numéro de détail
	B source drawing no. de dessin no.
	C detail on drawing no. détail sur dessin no.

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
---	------------------------------------

Client/client	
	Parks Canada Agency Western and Northern Region
	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil

Project title/Titre du projet
**TRANS-CANADA HIGHWAY
PAVEMENT REHABILITATION**

BANFF NATIONAL PARK, AB

Drawing title/Titre du dessin
PLAN
STA: 20+070 TO 21+330
NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

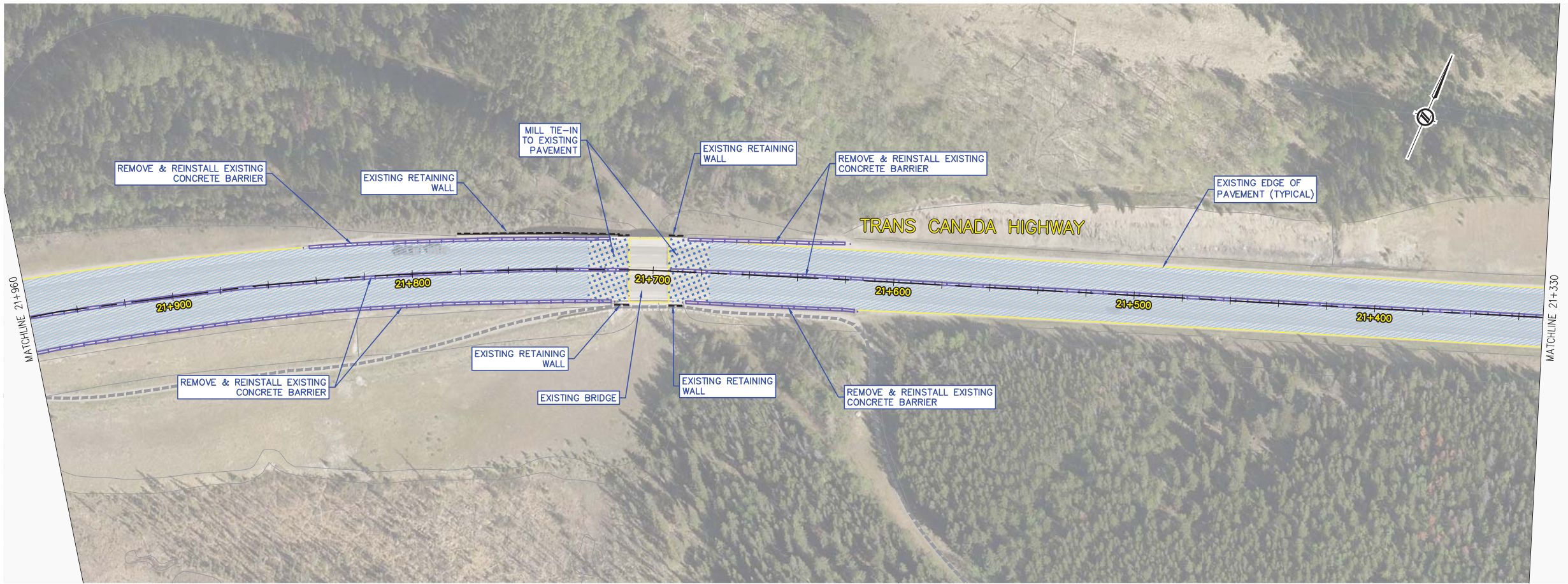
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
---	--------------------------

Parks Canada Responsible Officer/Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada
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Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
201547		112

Drawing Reference No./No. de référence du dessin
2121-00546-02-RE



LEGEND

- PROPOSED 85mm OVERLAY
- PROPOSED 60mm OVERLAY
- PROPOSED 50mm MILL/FILL
- PROPOSED MILL TIE-IN
- EXISTING CONCRETE BARRIER
- EXISTING RETAINING WALL
- CLEAN EXISTING DITCH

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A	2016.03.04	ISSUED FOR TENDER	HC	SF
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A	A detail number numéro de détail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. détail sur dessin no.	C

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	Parks Canada Agence Western and Northern Region	L'Agence Parcs Canada Ouest et Nord Région
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Consultant's Name Nom de l'expert-conseil	
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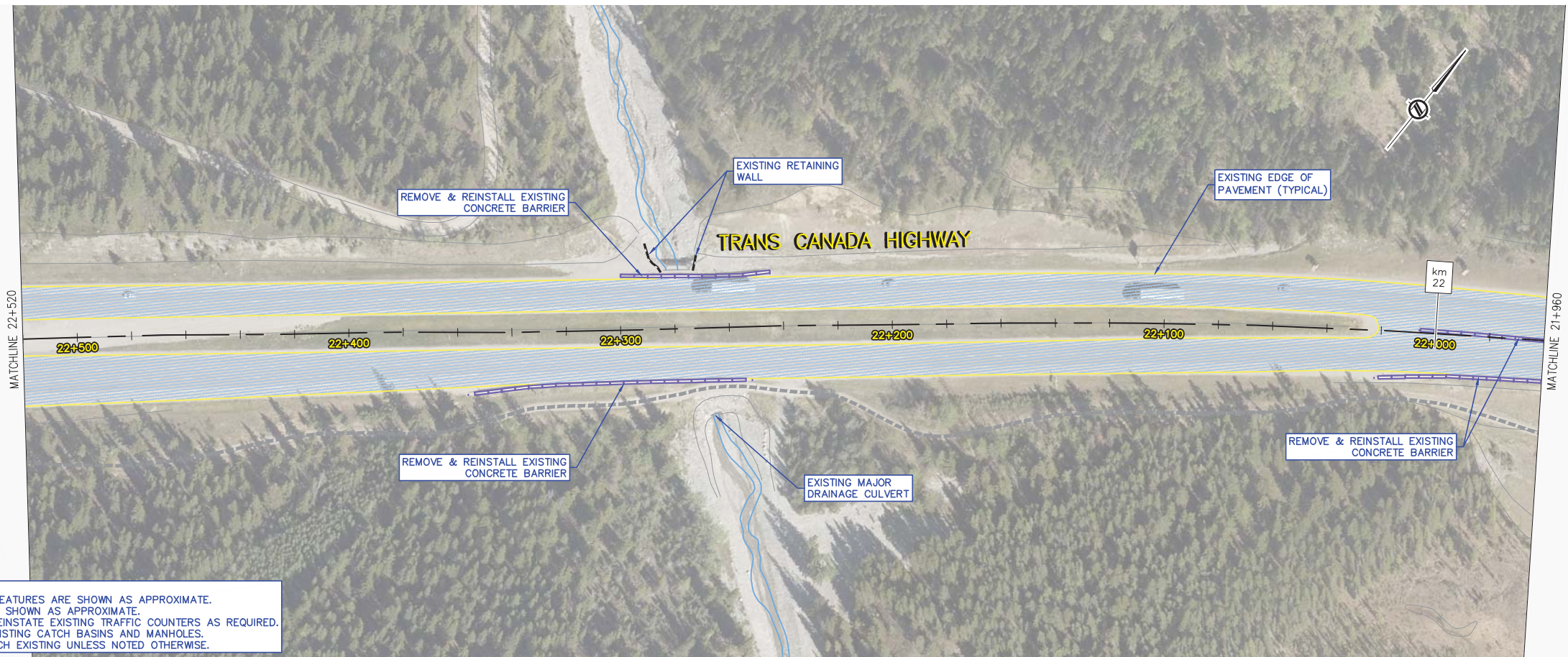
Project title/Titre du projet
**TRANS-CANADA HIGHWAY
PAVEMENT REHABILITATION**

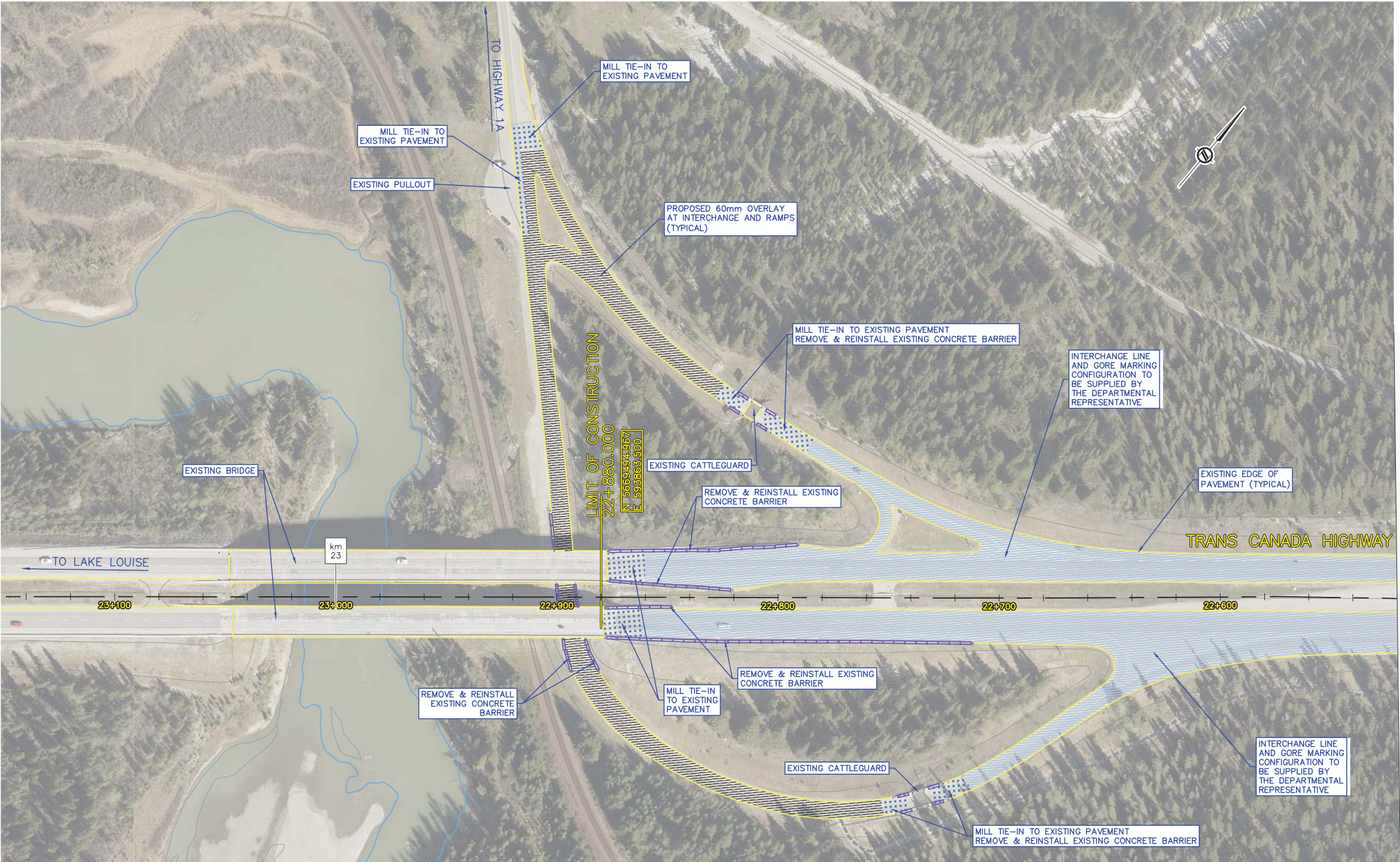
BANFF NATIONAL PARK, AB

Drawing title/Titre du dessin
PLAN
STA: 21+330 TO 22+520
NOT FOR CONSTRUCTION

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Parks Canada Responsible Officer/Agent Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
201547		113
Drawing Reference No./No. de référence du dessin		2121-00546-02-RE

- NOTES:
- LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
 - DITCH FLOW ARROWS ARE SHOWN AS APPROXIMATE.
 - LOCATE, PROTECT AND REINSTATE EXISTING TRAFFIC COUNTERS AS REQUIRED.
 - LOCATE AND PROTECT EXISTING CATCH BASINS AND MANHOLES.
 - PAINT MARKINGS TO MATCH EXISTING UNLESS NOTED OTHERWISE.





LEGEND	
	PROPOSED 85mm OVERLAY
	PROPOSED 60mm OVERLAY
	PROPOSED 50mm MILL/FILL
	PROPOSED MILL TIE-IN
	EXISTING CONCRETE BARRIER
	EXISTING RETAINING WALL
	CLEAN EXISTING DITCH

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
	A detail number numéro de détail
	B source drawing no. de dessin no.
	C detail on drawing no. détail sur dessin no.

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/client	
	Parks Canada Agency Western and Northern Region
	L'Agence Parcs Canada Ouest et Nord Région

Consultant's Name Nom de l'expert-conseil

Project title/Titre du projet
TRANS-CANADA HIGHWAY PAVEMENT REHABILITATION
BANFF NATIONAL PARK, AB

Drawing title/Titre du dessin
PLAN
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Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
-	HC	2016.03.04
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
AK	SF	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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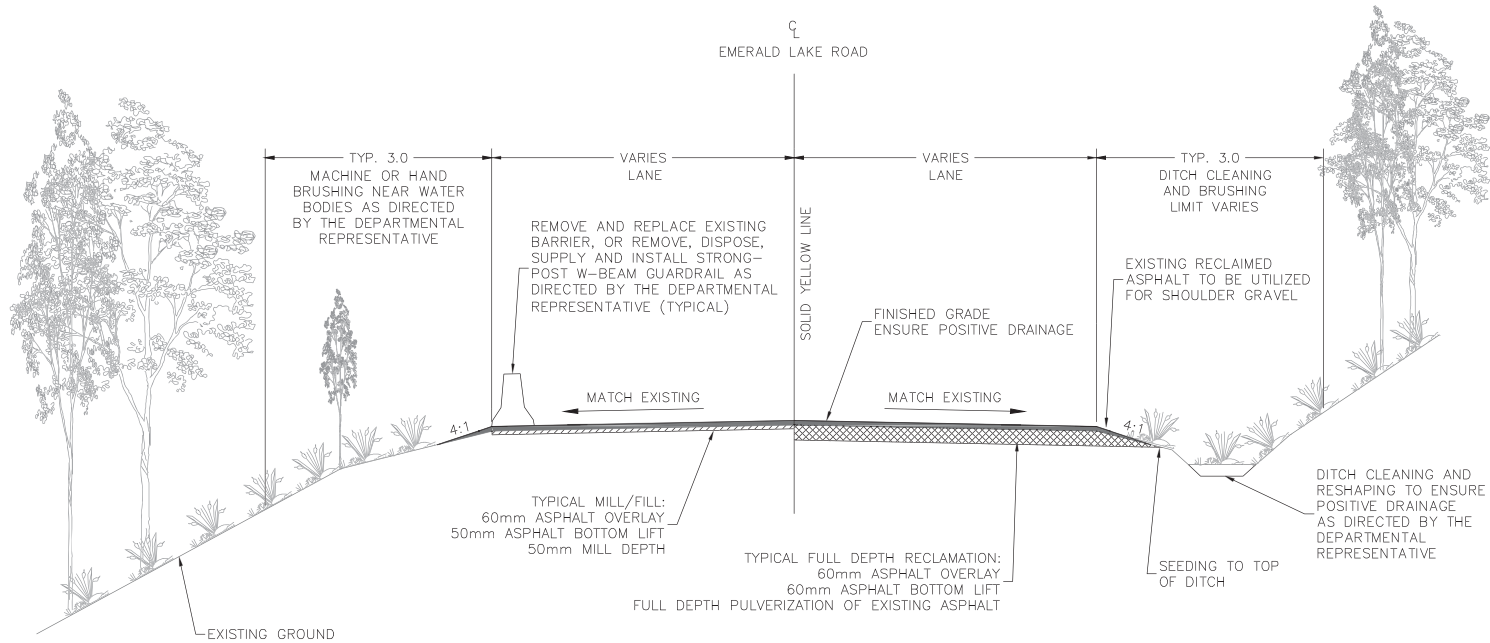
Parks Canada Responsible Officer/Responsable Parcs Canada	Parks Canada Project Manager/Administrateur de Projets Parcs Canada
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Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille
201547		114

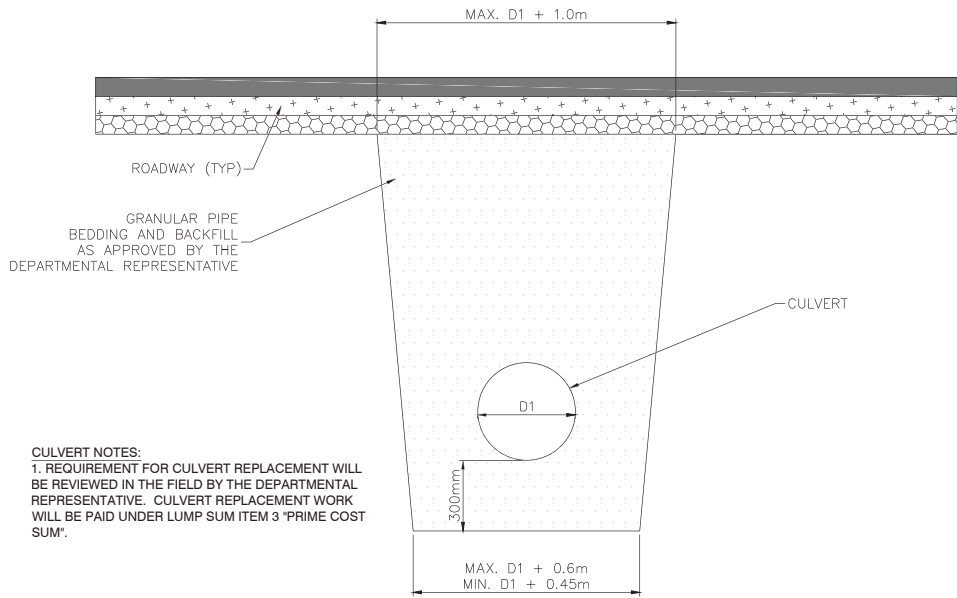
Drawing Reference No./No. de référence du dessin
2121-00546-02-RE

- NOTES:
1. LOCATIONS OF EXISTING FEATURES ARE SHOWN AS APPROXIMATE.
 2. DITCH FLOW ARROWS ARE SHOWN AS APPROXIMATE.
 3. LOCATE, PROTECT AND REINSTATE EXISTING TRAFFIC COUNTERS AS REQUIRED.
 4. LOCATE AND PROTECT EXISTING CATCH BASINS AND MANHOLES.
 5. PAINT MARKINGS TO MATCH EXISTING UNLESS NOTED OTHERWISE.

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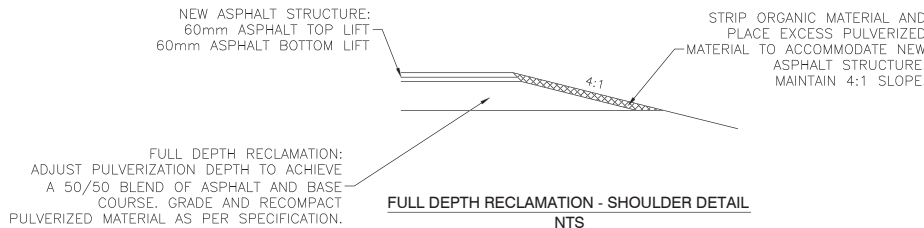


**TYPICAL SECTION - FULL-DEPTH RECLAMATION AND MILL/FILL
EMERALD LAKE ROAD
NTS**



CULVERT NOTES:
1. REQUIREMENT FOR CULVERT REPLACEMENT WILL BE REVIEWED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE. CULVERT REPLACEMENT WORK WILL BE PAID UNDER LUMP SUM ITEM 3 "PRIME COST SUM".

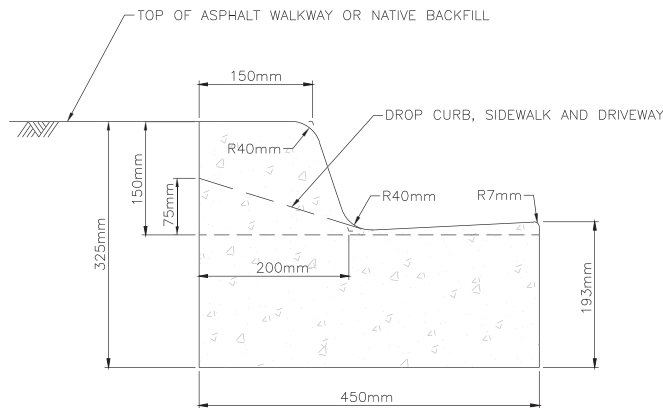
**TYPICAL CULVERT TRENCH INSTALLATION
NTS**



**FULL DEPTH RECLAMATION - SHOULDER DETAIL
NTS**

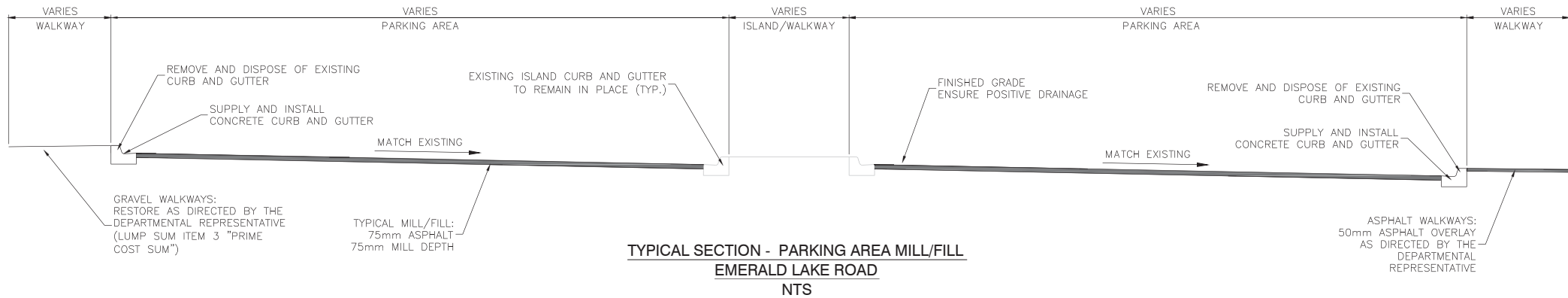


**TYPICAL MILLED TIE-IN TO EXISTING ASPHALT
NTS**



**CURB & GUTTER DETAIL
NTS**

CURB & GUTTER NOTES:
1. THE CONCRETE INCORPORATED IN THE CURB SHALL:
- MINIMUM COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS;
- COURSE AGGREGATE OF MAXIMUM PARTICLE SIZE NOT EXCEEDING 25 mm;
- MINIMUM CEMENT CONTENT OF 350 kg/m³;
- ENTRAINED AIR OF 6% - 8%;
- SLUMP: BETWEEN 10 mm AND 25 mm FOR EXTRUDED;
MAXIMUM 65 mm FOR POURED IN PLACE;
- MAXIMUM WATER - CEMENT RATIO OF 0.45.
2. CONTRACTION JOINTS SHALL BE CUT AND TOOLED INTO THE CONCRETE TO A DEPTH OF 60% OF THE THICKNESS OF THE CONCRETE AT INTERVALS OF 3 m.
3. EXPANSION JOINTS 13 mm IN THICKNESS CUT TO THE CROSS-SECTION OF THE COMBINED CURB AND GUTTER, COMPOSED OF PREMOULDED JOINT FILLER SHALL BE INSTALLED AT APPROXIMATELY 15 m INTERVALS AS WELL AS AT CURB RETURNS, EITHER SIDE OF DRIVEWAYS AND OTHER LOCATIONS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



**TYPICAL SECTION - PARKING AREA MILL/FILL
EMERALD LAKE ROAD
NTS**

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A	2016.03.04	ISSUED FOR TENDER	AK SF
No.	Date/Date	Description/Description	Drawn by Dessiné par

Revision / Revision			
A detail number numéro de détail		A	
B source drawing no. de dessin no.		B C	
C detail on drawing no. détail sur dessin no.			
Consultant's Stamp Sceau de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur	

Client/client			
Parks Canada Agence Western and Northern Region		L'Agence Parcs Canada Ouest et Nord Région	

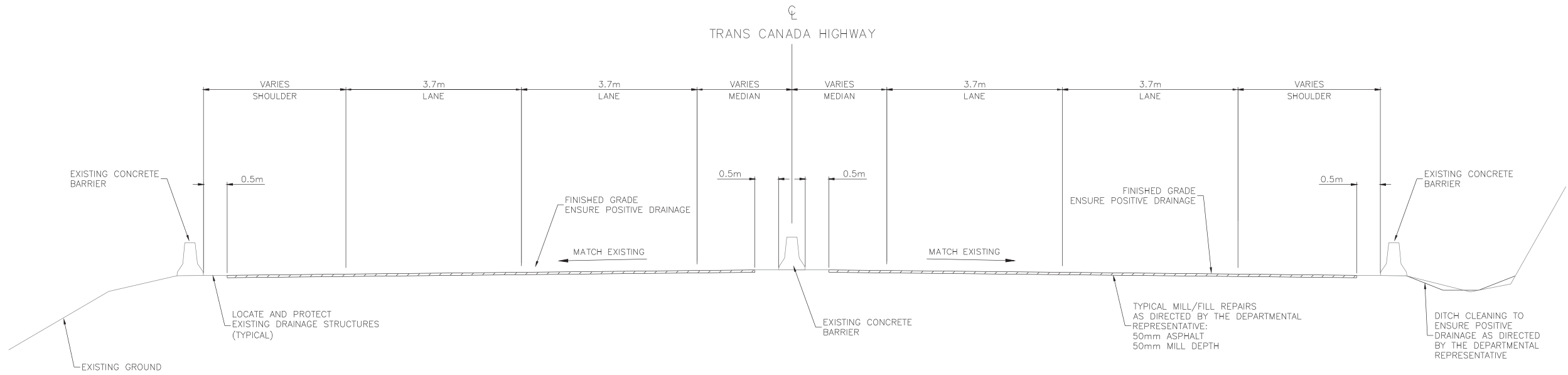
Consultant's Name Nom de l'expert-conseil		McElhanney	
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Project title/Titre du projet		EMERALD LAKE ROAD PAVEMENT REHABILITATION	
		YOHO NATIONAL PARK, BC	

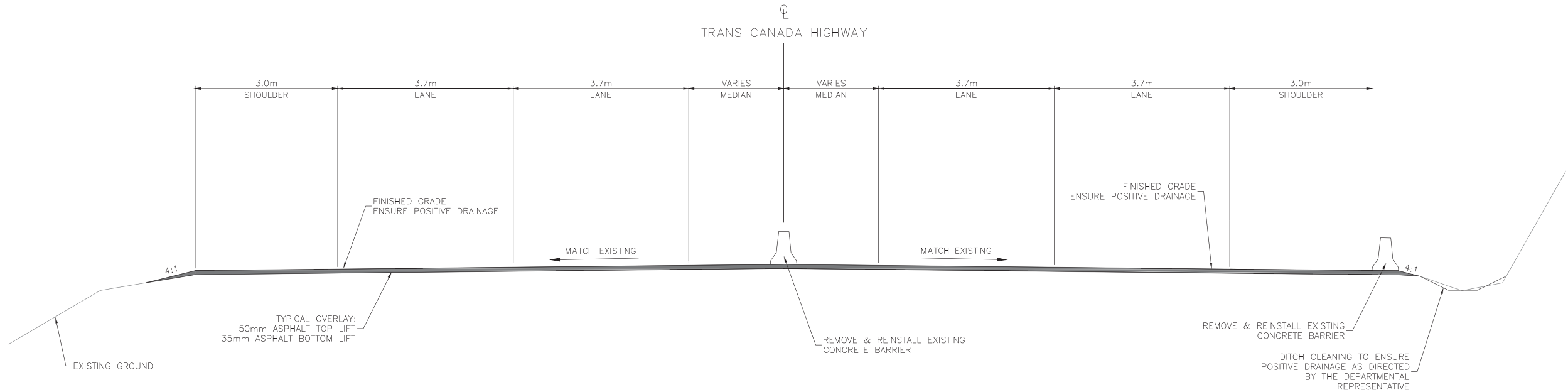
Drawing title/Titre du dessin		TYPICAL SECTIONS AND DETAILS	
		NOT FOR CONSTRUCTION	

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Designed by/Concept par AK	Reviewed by/Revisé par SF	Scale/Echelle NTS
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Parks Canada Responsible Officer/Agent Responsable Parcs Canada		Parks Canada Project Manager/Administrateur de Projets Parcs Canada
Project No./No. du projet 201547	Asset No./No. du bien	Sheet No./ No. de la feuille 301
Drawing Reference No./No. de référence du dessin 2121-00546-02-RE		

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**TYPICAL SECTION - MILL/FILL
TRANS CANADA HIGHWAY
NTS**



**TYPICAL SECTION - OVERLAY
TRANS CANADA HIGHWAY
NTS**

GENERAL NOTES:
1. ADJUST CATCH BASIN FRAMES AND GRATES AS REQUIRED AND AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE. CATCH BASIN GRATES SHALL TYPICALLY BE SET 50mm BELOW FINISHED PAVEMENT GRADES.



**TYPICAL MILLED TIE-IN TO EXISTING ASPHALT
NTS**

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A	2016.03.04	ISSUED FOR TENDER	AK	SF
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
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A detail number numéro de détail	
B source drawing no. de dessin no.	
C detail on drawing no. détail sur dessin no.	
Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur

Client/client
 Parks Canada Agency
Western and Northern Region
L'Agence Parcs Canada
Ouest et Nord Région

Consultant's Name
Nom de l'expert-conseil
 **McElhanney**

Project title/Titre du projet
**TRANS CANADA HIGHWAY
PAVEMENT REHABILITATION**
BANFF NATIONAL PARK, AB

Drawing title/Titre du dessin
**TYPICAL SECTIONS
AND DETAILS**

NOT FOR CONSTRUCTION

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Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Parks Canada Responsible Officer/Agent Responsable Parcs Canada

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Project No./No. du projet 201547	Asset No./No. du bien	Sheet No./ No. de la feuille 302
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Drawing Reference No./No. de référence du dessin
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