



**McElhanney**

for / pour



Parks Canada  
Agency

L'Agence Parcs  
Canada

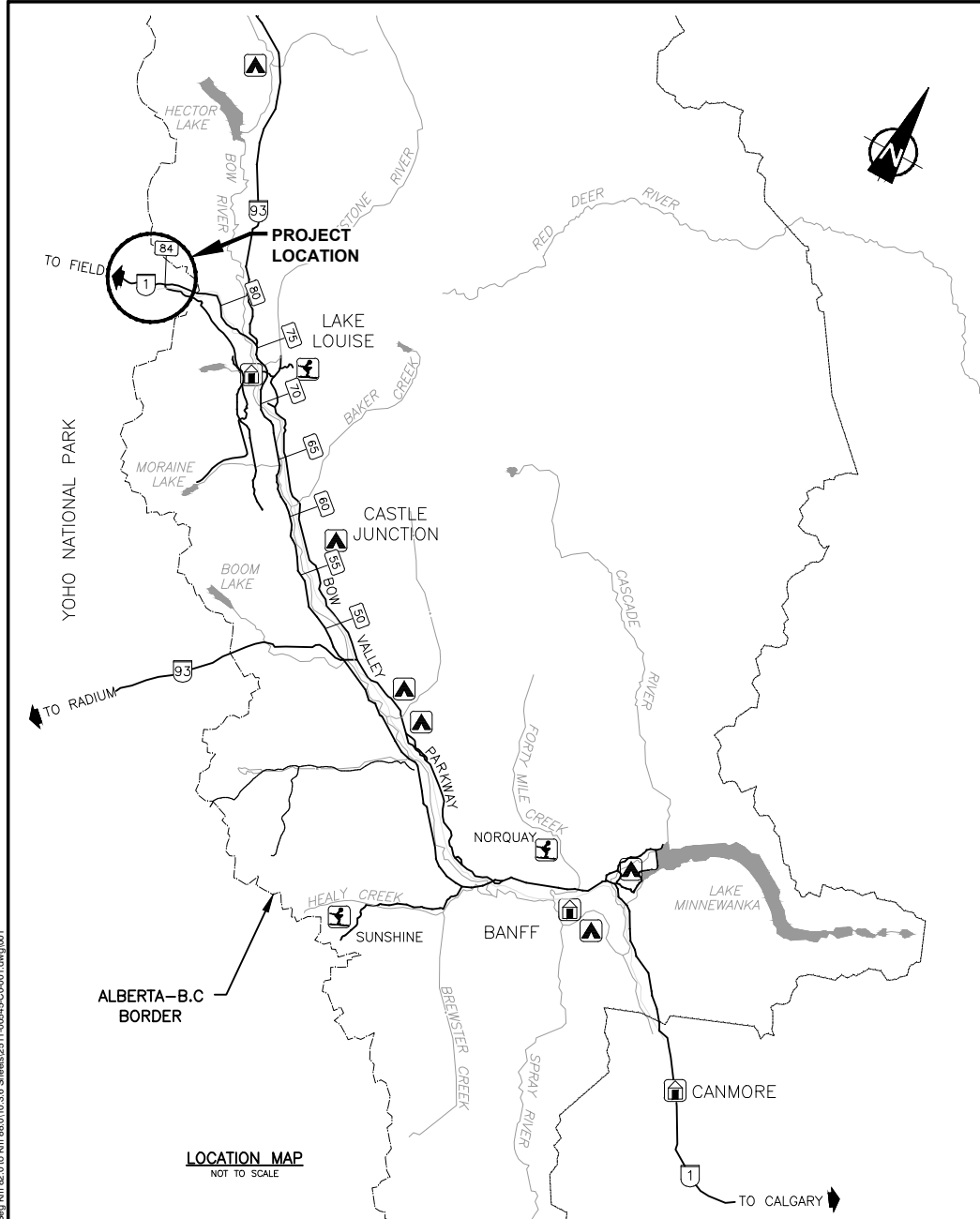
TRANS-CANADA HIGHWAY No.1  
km82 to km88  
TCH TWINNING

YOHO NATIONAL PARK

PROJECT No. 201612

JUNE 2016

File name: O:\proj\2511\_00545\_00\yoho twinning\10.0.DWG\10.3.Engineering\Segment 4\Twinning\Seg Km 82.0 to Km 88.0\10.3.6 Sheets\2511-00545-C001.dwg(001)  
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 Plotter:



**LEGEND**

**ALIGNMENT ABBREVIATIONS**

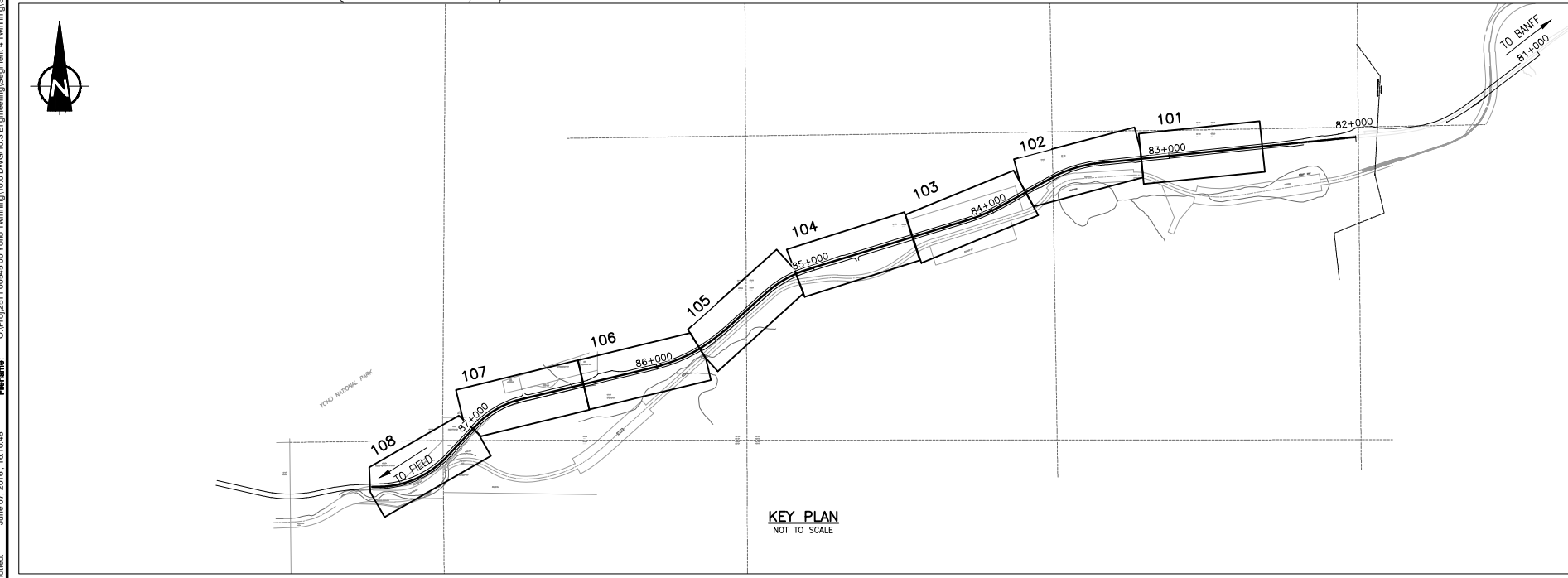
- POC - POINT ON CURVE
- PCC - POINT OF COMPOUND CURVATURE
- PC - POINT OF CURVATURE
- PT - POINT OF TANGENCY
- TC - TANGENT TO CURVE
- CC - CURVE CENTRE
- CS - CURVE TO SPIRAL
- SC - SPIRAL TO CURVE
- CT - CURVE TO TANGENT
- TS - TANGENT TO SPIRAL
- ST - SPIRAL TO TANGENT
- BVC - BEGINNING OF VERTICAL CURVE
- EVC - END OF VERTICAL CURVE
- PVI - POINT OF VERTICAL INTERSECTION
- ELEV - ELEVATION
- PI - POINT OF INTERSECTION
- STA - STATION

**MISCELLANEOUS ABBREVIATIONS**

- BH - BORE HOLE
- BW - BACK OF SIDEWALK
- CB - CATCH BASIN
- C&G - CURB AND GUTTER
- C.I.P. - CAST IN PLACE CONCRETE
- CI - CULVERT INLET
- CO - CULVERT OUTLET
- DES - DESIGN
- EP - EDGE OF PAVEMENT
- EX - EXISTING
- LOG - LIP OF GUTTER
- LS - LIGHT STANDARD
- MH - MANHOLE
- PROP - PROPOSED
- PP - POWER POLE
- S - SANITARY
- ST - STORM
- W - WATER
- NB - NORTHBOUND
- SB - SOUTHBOUND
- EB - EASTBOUND
- WB - WESTBOUND
- N.I.C. - NOT IN CONTRACT

**ROAD CONSTRUCTION**

EXISTING	DESCRIPTION	PROPOSED
	TEST PIT & ID	TP2010-06
	BORE HOLE & ID	AH2010-11
	CONTROL LINE AND STATIONING	67+500
	ALIGNMENT TIE POINTS & STATIONING	T.S. 55+325.101
---	EDGE OF PAVEMENT GRAVEL ROAD	---
---	EDGE OF PAVEMENT	---
---	EDGE OF PAVED SHOULDER	---
1012.14	SUBGRADE ELEVATION	---
---	THROUGH ROCK PAVING	---
---	CURB AND GUTTER	---
---	CONCRETE BARRIER	---
---	GAURD RAIL C/W POSTS	---
---	DRAINAGE BARRIER	DB DB
---	DRAINAGE SIDE DITCH	DIRECTION OF FLOW
---	DRAINAGE MEDIAN DITCH	DIRECTION OF FLOW
---	DAY LIGHT LINE	---
---	CANADIAN PACIFIC RAILWAY	---
---	EXISTING PAVEMENT	---
---	OVERLAY AND LEVELING COURSE	---
---	PAVEMENT REMOVAL	---
N 5643000	SURVEY GRID (NAD 83)	---
---	TREE LINE	---
UT-UT	UNDERGROUND TEL	---
WL-WL	WATER LINE	---
CO-CI	CULVERT	---
---	RETAINING WALL	---
---	DITCH BLOCK	---
---	DITCH DAM	---
---	SMALL CSP CULVERT	---
---	CATCH BASIN AND 300mm PIPE	---
x-x-x	WILDLIFE FENCING	---
---	WILDERNESS ZONE BOUNDARY	WZB
---	CLEARING LINE	---
---	CONTROL POINT	CP 03.01
---	GATE	---
---	BARRIER DRAIN AND 300mm PIPE	BD OR BD
---	RIP-RAP SPILLWAY	---



DRAWING INDEX	
SHEET No.	SHEET TITLE
C000	COVER SHEET
C001	LOCATION PLAN, DRAWING INDEX AND LEGEND
C101	PLAN & PROFILE STA 82+500 TO STA 83+150
C102	PLAN & PROFILE STA 83+150 TO STA 83+800
C103	PLAN & PROFILE STA 83+800 TO STA 84+450
C104	PLAN & PROFILE STA 84+450 TO STA 85+100
C105	PLAN & PROFILE STA 85+100 TO STA 85+750
C106	PLAN & PROFILE STA 85+750 TO STA 86+400
C107	PLAN & PROFILE STA 86+400 TO STA 87+050
C108	PLAN & PROFILE STA 87+050 TO STA 87+700
C301 TO C303	TYPICAL SECTIONS
C305	STANDARD BARRIER DETAIL
C306	TYPICAL DRAINAGE DETAILS
C307	TYPICAL DRAINAGE DETAILS
C351	WILDLIFE CROSSING No.3 STA 84+920
C352	WILDLIFE CROSSING No.4 STA 85+950
C401	INTERSECTION / LAKE O'HARA FIRE ROAD
C402	INTERSECTION / WAPTA ROAD
C501	WALL No.1 GENERAL ARRANGEMENT STA 85+657 TO STA 85+120
C601 TO C604	PAVEMENT MARKING & SIGNAGE PLAN
C901 TO C904	PAVEMENT REMOVAL PLAN
C1000	CROSS SECTION COVER SHEET
C1001 TO C1074	CROSS SECTIONS

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Revision / Revision	
A	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 / 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 No.1**  
 km 82 to km 88  
**TCH TWINNING**  
 YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**LOCATION PLAN, DRAWING INDEX AND LEGEND**

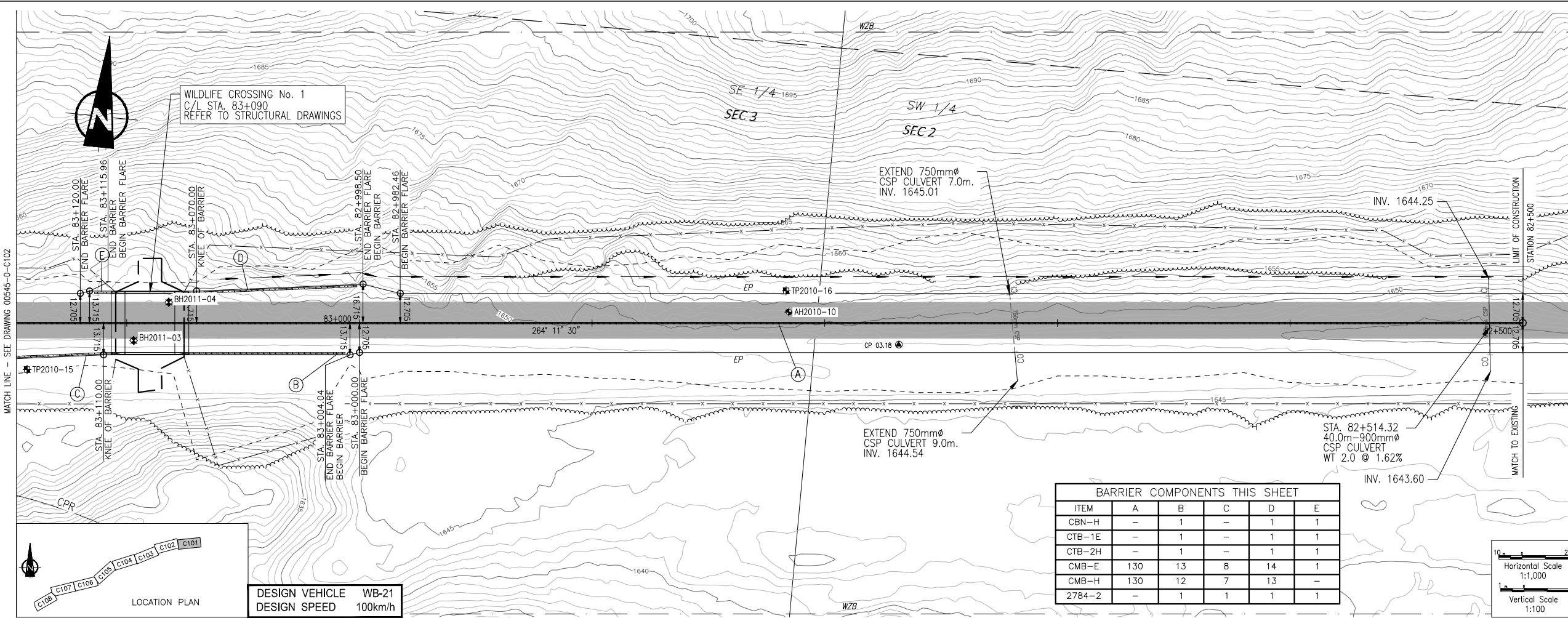
**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	NTS
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
201612		<b>C001</b>
Drawing Reference No./No. de référence du dessin		
<b>2511-00545-0</b>		

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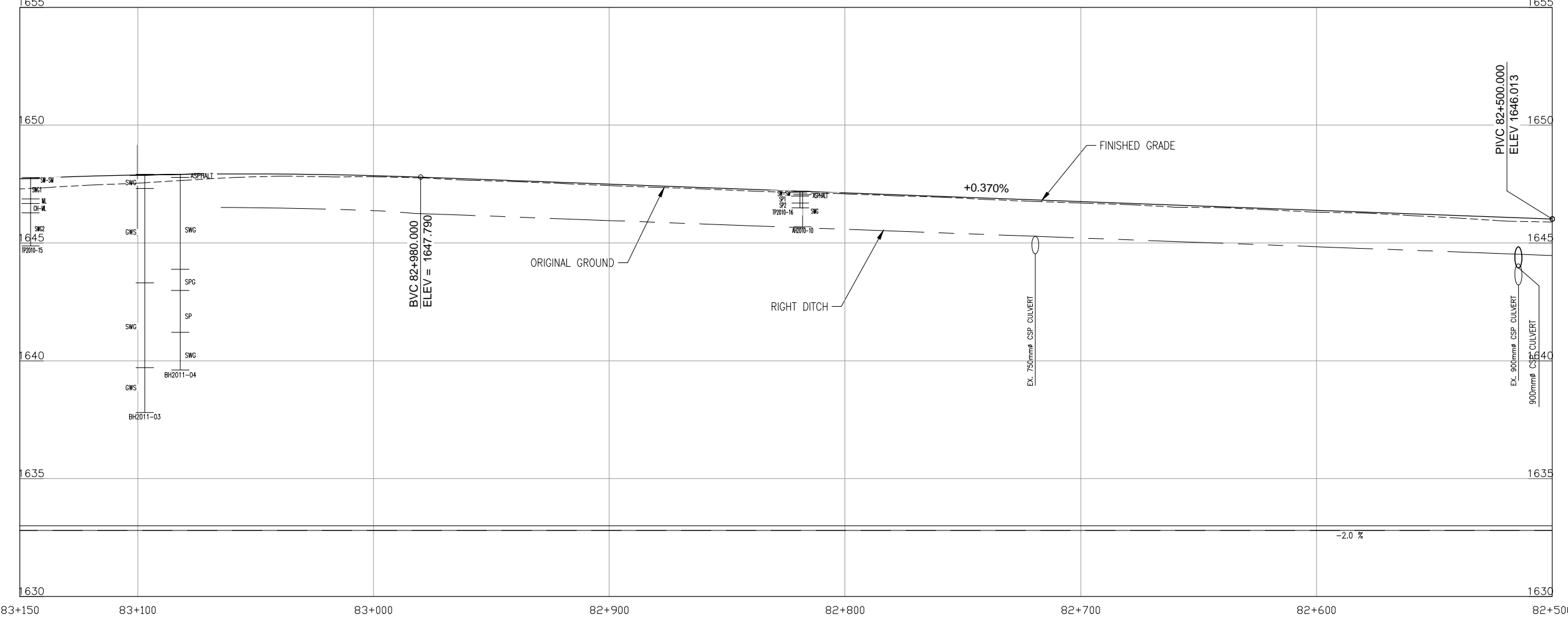
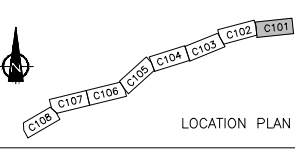
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Point	Northing	Easting	Elevation
03.18	5700383.621	548733.150	1646.268



ITEM	A	B	C	D	E
CBN-H	-	1	-	1	1
CTB-1E	-	1	-	1	1
CTB-2H	-	1	-	1	1
CMB-E	130	13	8	14	1
CMB-H	130	12	7	13	-
2784-2	-	1	1	1	1

DESIGN VEHICLE WB-21  
DESIGN SPEED 100km/h



No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Revision / Revision	
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Consultant's Stamp  
Sceau de l'expert-conseil

Eng. Stamp  
Sceau de l'ingénieur

Client/client

Parks Canada / L'Agence Parcs Canada  
Western and Northern Region / Ouest at Nord Région

Consultant's Name  
Nom de l'expert-conseil

**McElhannay**

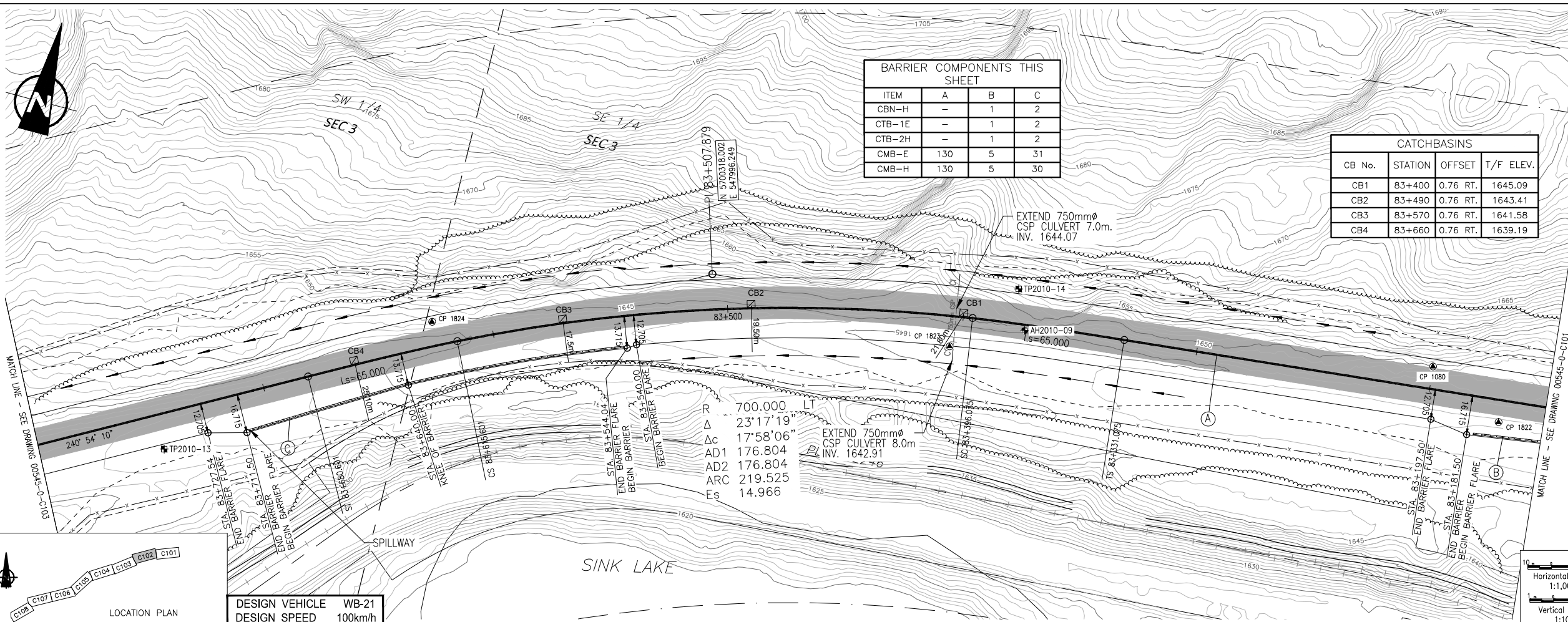
Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK**

Drawing title/Titre du dessin  
**PLAN / PROFILE  
STA 82+500 TO STA 83+150**

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	H: 1:1000 V: 1:100
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		<b>C101</b>
Drawing Reference No./No. de référence du dessin		
<b>2511-00545-0</b>		

June 07, 2016 - 18:49:54  
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**BARRIER COMPONENTS THIS SHEET**

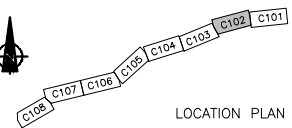
ITEM	A	B	C
CBN-H	-	1	2
CTB-1E	-	1	2
CTB-2H	-	1	2
CMB-E	130	5	31
CMB-H	130	5	30

**CATCHBASINS**

CB No.	STATION	OFFSET	T/F	ELEV.
CB1	83+400	0.76 RT.		1645.09
CB2	83+490	0.76 RT.		1643.41
CB3	83+570	0.76 RT.		1641.58
CB4	83+660	0.76 RT.		1639.19

**CONTROL POINTS TABLE**

Point	Northing	Easting	Elevation
1080	5700358.644	548301.537	1646.623
1822	5700342.927	548334.464	1646.539
1823	5700317.724	548100.415	1644.422
1824	5700287.891	547886.631	1639.924

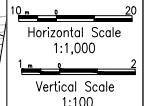


DESIGN VEHICLE WB-21  
DESIGN SPEED 100km/h

R  
Δ  
23°17'19"  
Δc  
AD1 176.804  
AD2 176.804  
ARC 219.525  
Es 14.966

EXTEND 750mmØ  
CSP CULVERT 8.0m  
INV. 1642.91

EXTEND 750mmØ  
CSP CULVERT 7.0m.  
INV. 1644.07



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1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Revision / Revision

A	B	C
Detail number / numéro de détail	Source drawing no. / de dessin no.	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



Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1  
km 82 to km 88  
TCH TWINNING**  
YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**PLAN / PROFILE  
STA 83+150 TO STA 83+800**

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	H: 1:1000 V: 1:100

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client

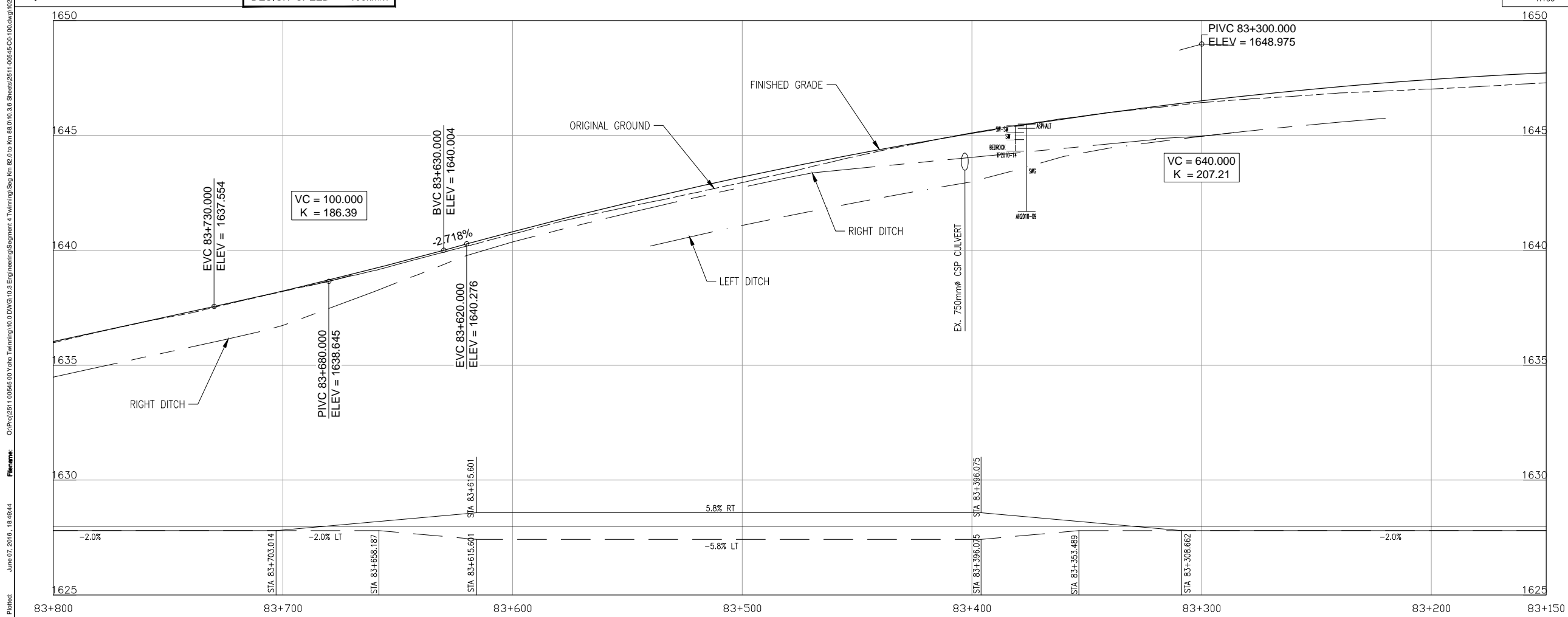
Approved by/Approuvé par

Project No./No. du projet  
201612

Asset No./No. du bien

Sheet No./No. de la feuille  
**C102**

Drawing Reference No./No. de référence du dessin  
**2511-00545-0**



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June 07, 2016 - 18:49:44

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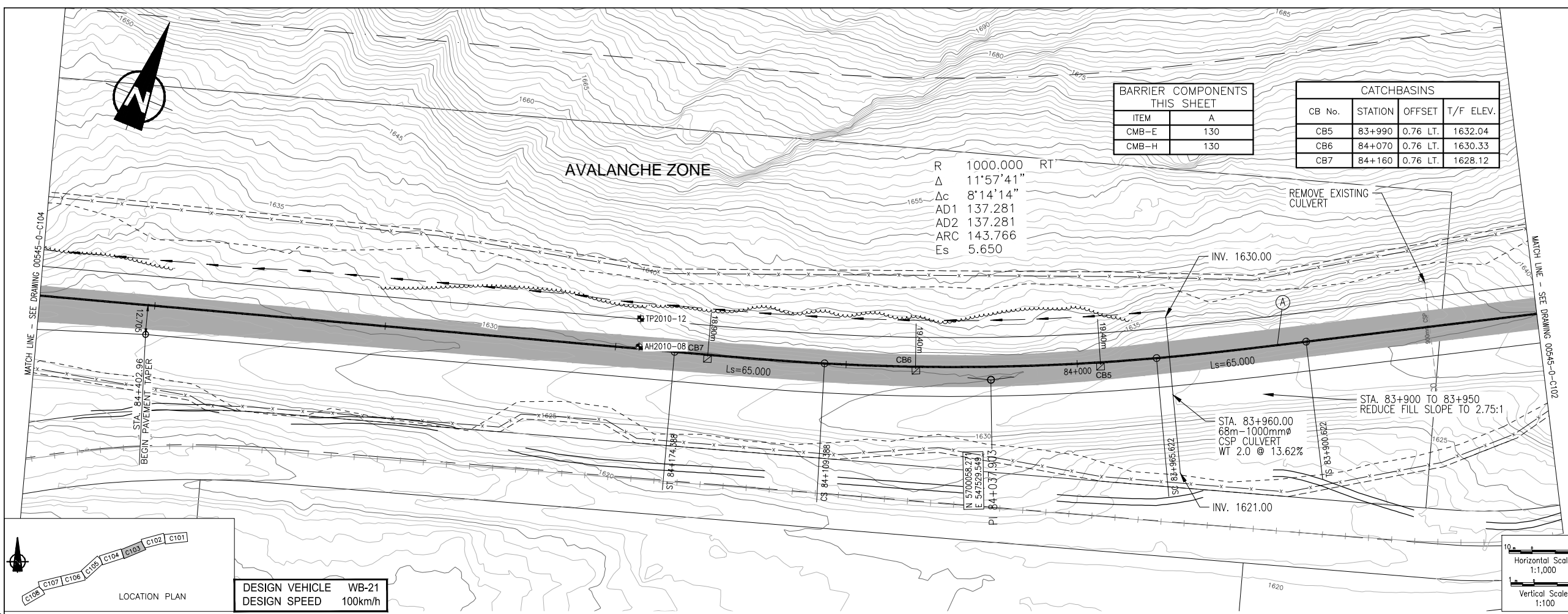
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CONTROL POINTS TABLE			
Point	Northing	Easting	Elevation
1625	5700159.304	54728.780	1635.148
1626	5700062.350	547503.683	1629.802
1622	5699945.972	547198.502	1622.804

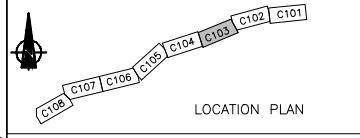
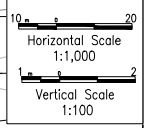
BARRIER COMPONENTS THIS SHEET	
ITEM	A
CMB-E	130
CMB-H	130

CATCHBASINS			
CB No.	STATION	OFFSET	T/F ELEV.
CB5	83+990	0.76 LT.	1632.04
CB6	84+070	0.76 LT.	1630.33
CB7	84+160	0.76 LT.	1628.12

R 1000.000 RT  
 $\Delta$  11°57'41"  
 $\Delta c$  8°14'14"  
AD1 137.281  
AD2 137.281  
ARC 143.766  
Es 5.650



DESIGN VEHICLE WB-21  
DESIGN SPEED 100km/h



No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Revision / Revision  
A detail number / numéro de détail  
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Consultant's Stamp / Sceau de l'expert-conseil  
Eng. Stamp / Sceau de l'ingénieur

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

Consultant's Name / Nom de l'expert-conseil  
**McElhannay**

Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1**  
**km 82 to km 88**  
**TCH TWINNING**  
**YOHO NATIONAL PARK**

Drawing title/Titre du dessin  
**PLAN / PROFILE**  
**STA 83+800 TO STA 84+500**  
**NOT FOR CONSTRUCTION**

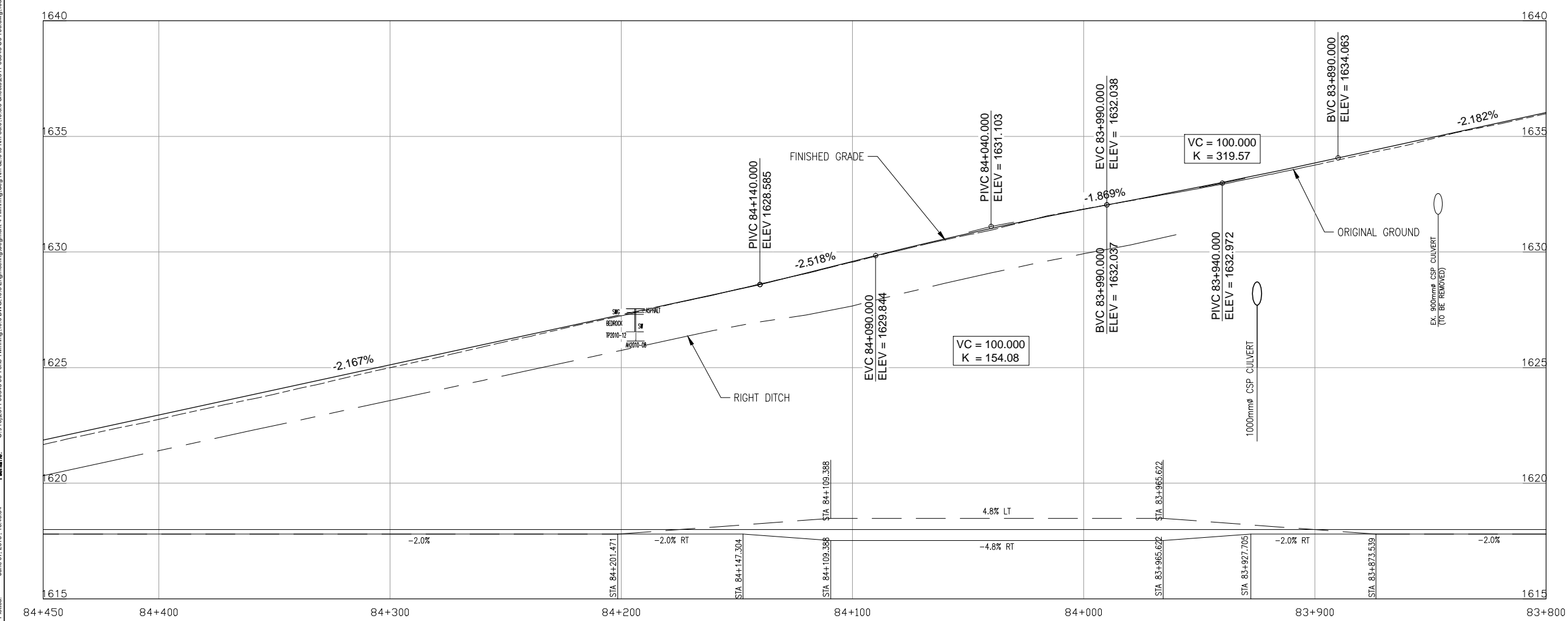
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
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R.P.	S.A.	H: 1:1000 V: 1:100

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

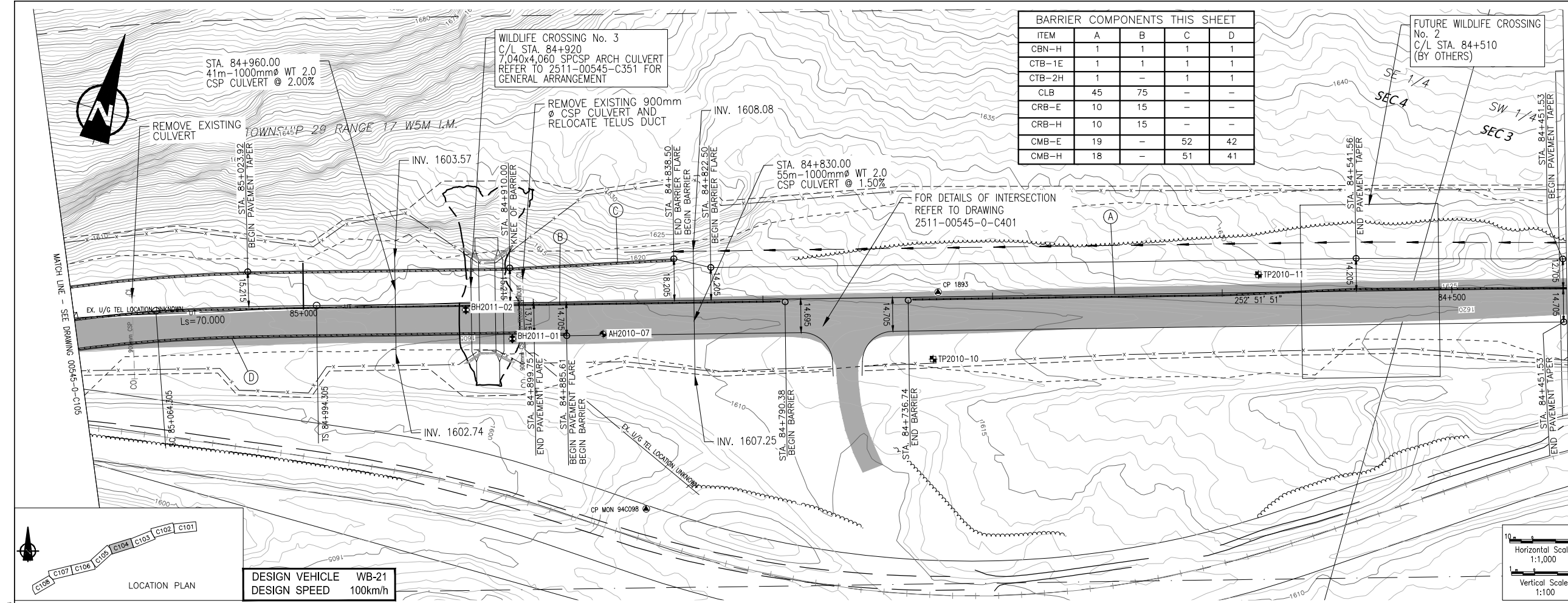
Client Acceptance/Acceptation du client  
Approved by/Approuvé par

Parks Canada Responsible Officer/Agenc Responsable Parcs Canada  
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Project No./No. du projet: 201612  
Asset No./No. du bien:  
Sheet No./No. de la feuille: **C103**  
Drawing Reference No./No. de référence du dessin: **2511-00545-0**



June 07, 2016 - 18:49:34  
Filename: O:\proj\2511\_00545\_00 Yoho Twinning\10.0 DWG\10.3 Engineering\Segment 4\Twinning\Sta Km 82.0 to Km 84.0\10.3.6 Shw\2511-00545-C01.000.dwg\103  
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Point	Northing	Easting	Elevation
1893	569857.952	546872.879	1612.828
MON 94C098	5699731.644	546777.450	1607.054

No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Revision / Revision

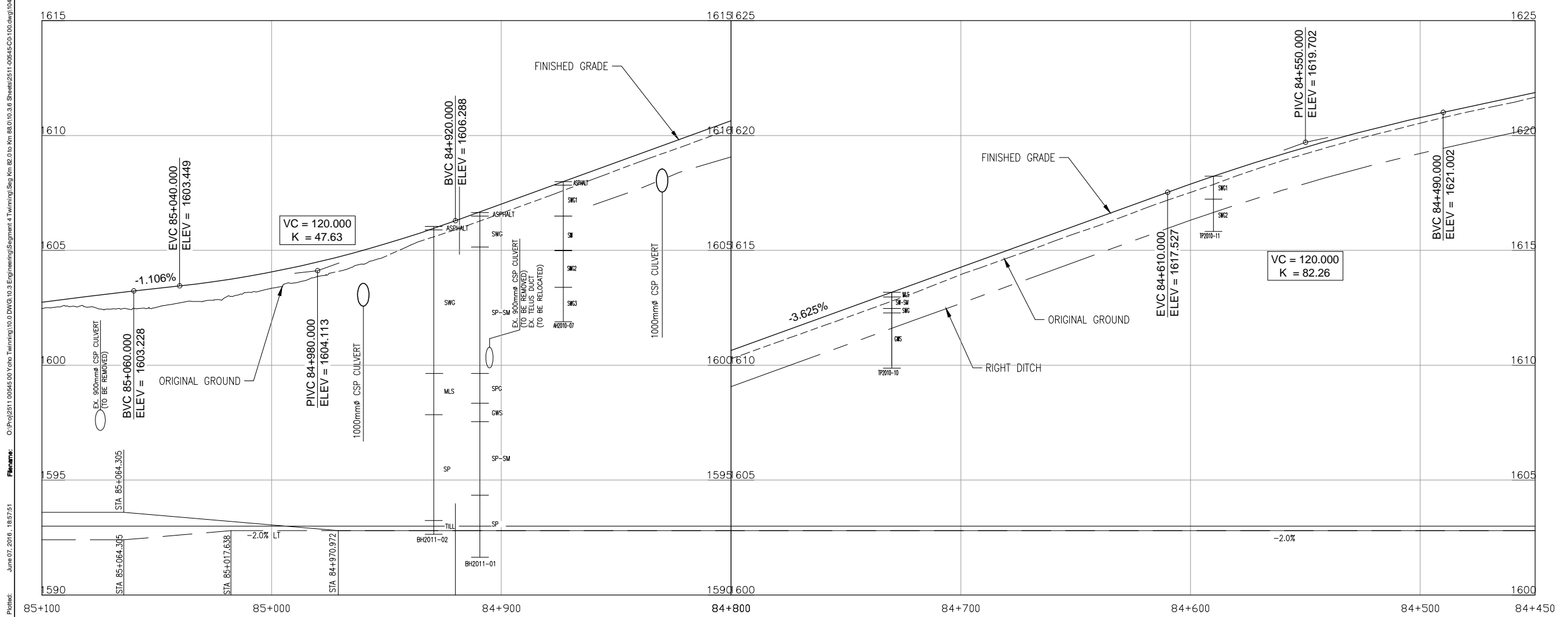
A detail number / numéro de détail

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

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

**McElhanney**

Project title/Titre du projet

**TRANS-CANADA HIGHWAY No.1**  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK

Drawing title/Titre du dessin

**PLAN / PROFILE**  
STA 84+450 TO STA 85+100

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
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R.P.	S.A.	H: 1:1000 V: 1:100

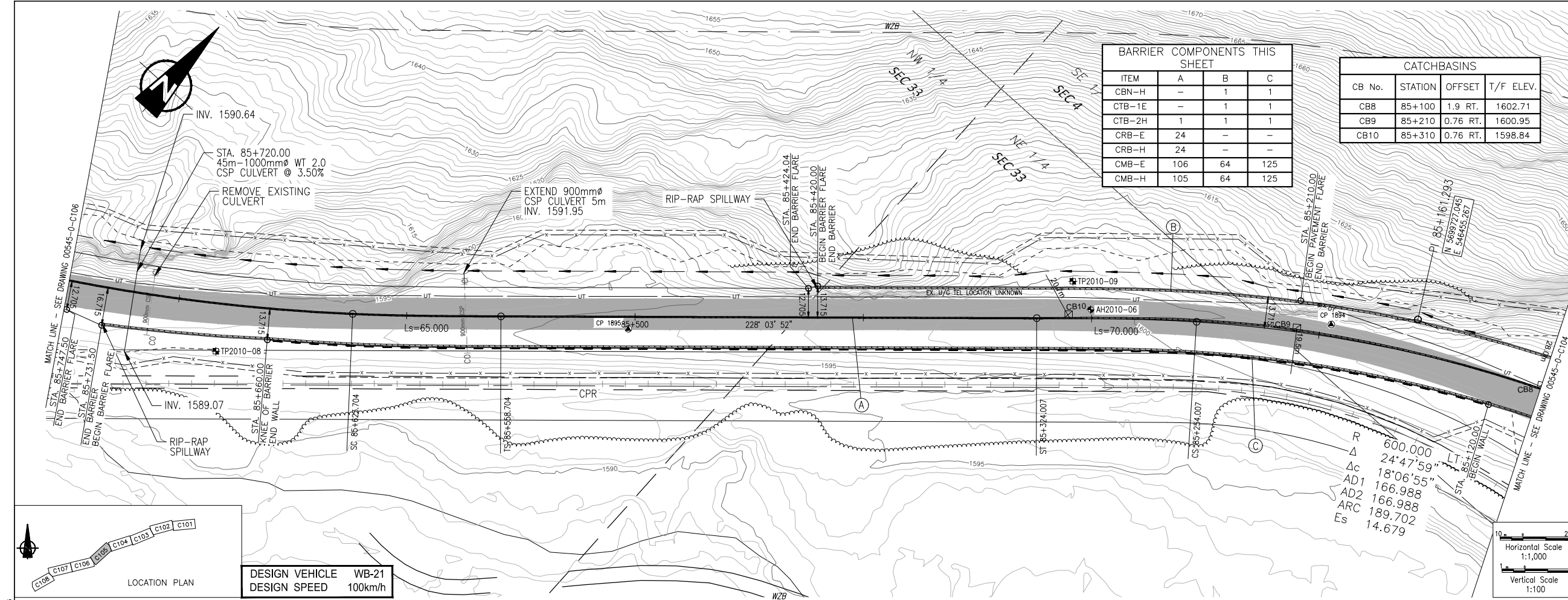
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		C104
Drawing Reference No./No. de référence du dessin		
2511-00545-0		

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Sceau de l'expert-conseil

Eng. Stamp  
Sceau de l'ingénieur

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Agency / Canada  
Western and Northern Region / Ouest at Nord Région

Consultant's Name  
Nom de l'expert-conseil

**McElhanny**

Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK**

Drawing title/Titre du dessin  
**PLAN / PROFILE  
STA 85+100 TO STA 85+750**

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03

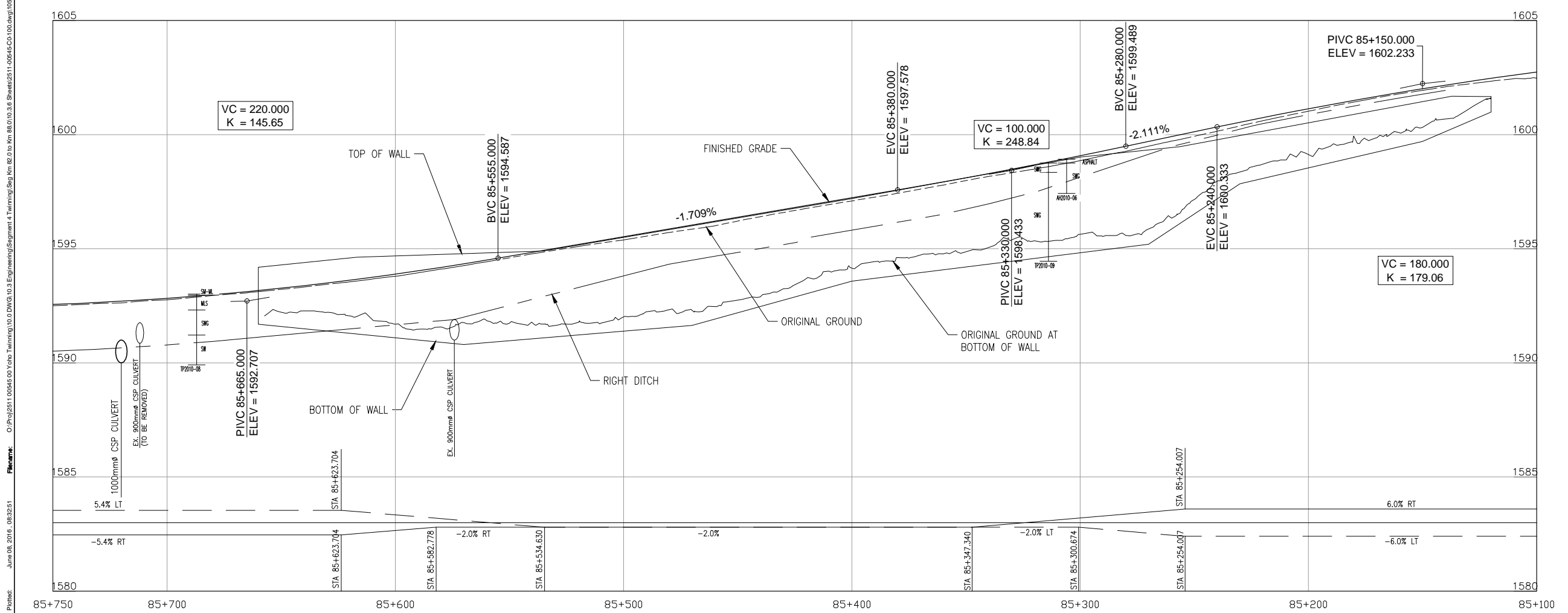
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	H: 1:1000 V: 1:100

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		<b>C105</b>

Drawing Reference No./No. de référence du dessin  
**2511-00545-0**



Filename: O:\proj\2511 00545 00 Yoho Twinning\10.0 DWG\10.3 Engineering\Segment 4\Twinning\Sta Km 82.0 to Km 88.0\10.3.6 Shw\2511-00545-C01-100.dwg\105  
 June 08, 2016, 08:32:51  
 Plotter:

BARRIER COMPONENTS THIS SHEET	
ITEM	A
CBN-H	-
CTB-1E	-
CTB-2H	1
CRB-E	28
CRB-H	28
CMB-E	102
CMB-H	102

WILDLIFE CROSSING No. 4  
 C/L STA. 85+950  
 4,750x3,200 SPCSP ARCH CULVERT  
 REFER TO DRAWING 2511-00545-C352  
 FOR GENERAL ARRANGEMENT

STA. 85+870.00  
 54m-900mmØ WT 2.0  
 CSP CULVERT @ 0.92%

R = 835.000 RT  
 Δ = 28°25'00"  
 Δc = 23°57'24"  
 AD1 = 243.969  
 AD2 = 243.969  
 ARC = 349.131  
 Es = 26.567

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CONTROL POINTS TABLE			
Point	Northing	Easting	Elevation
1839	5699158.235	545461.232	1590.594
1898	5699308.252	545967.829	1592.908
1899	5699220.743	545728.759	1591.39

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

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

**McElhanny**

Project title/Titre du projet

**TRANS-CANADA HIGHWAY No.1**  
 km 82 to km 88  
 TCH TWINNING

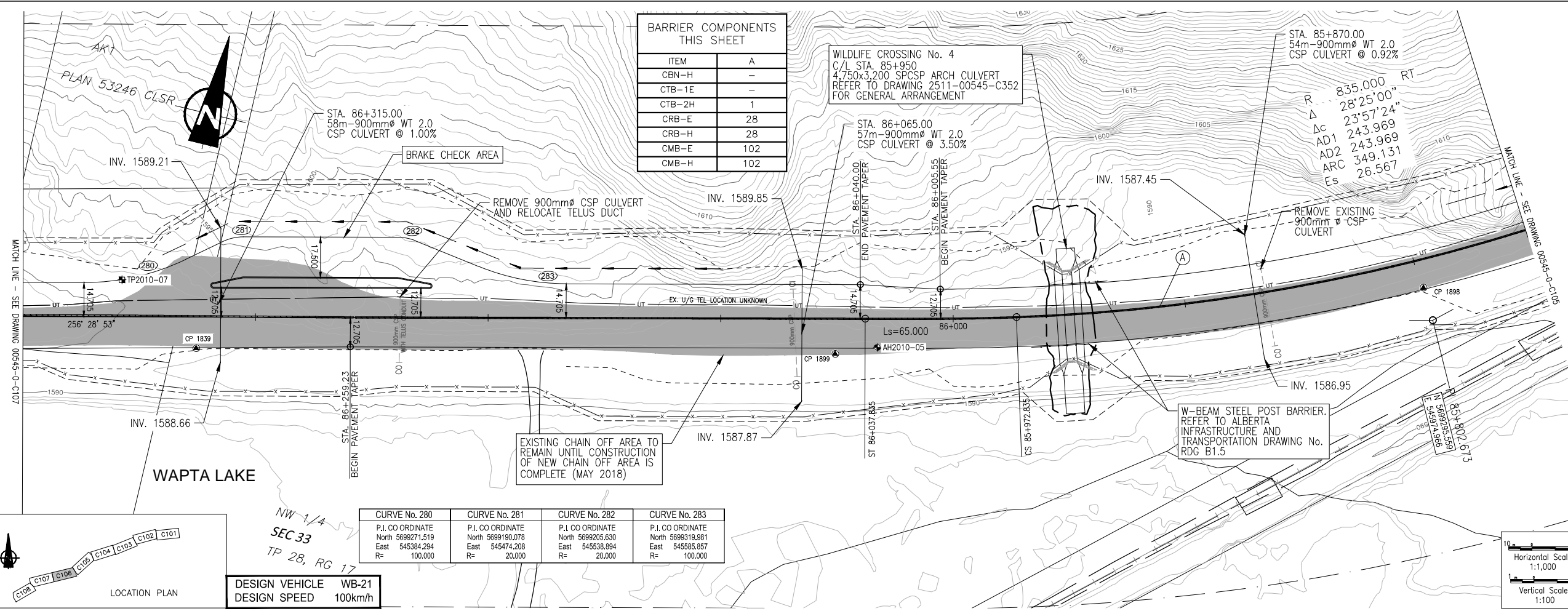
**YOHO NATIONAL PARK**

Drawing title/Titre du dessin

**PLAN / PROFILE**  
 STA 85+750 TO STA 86+400

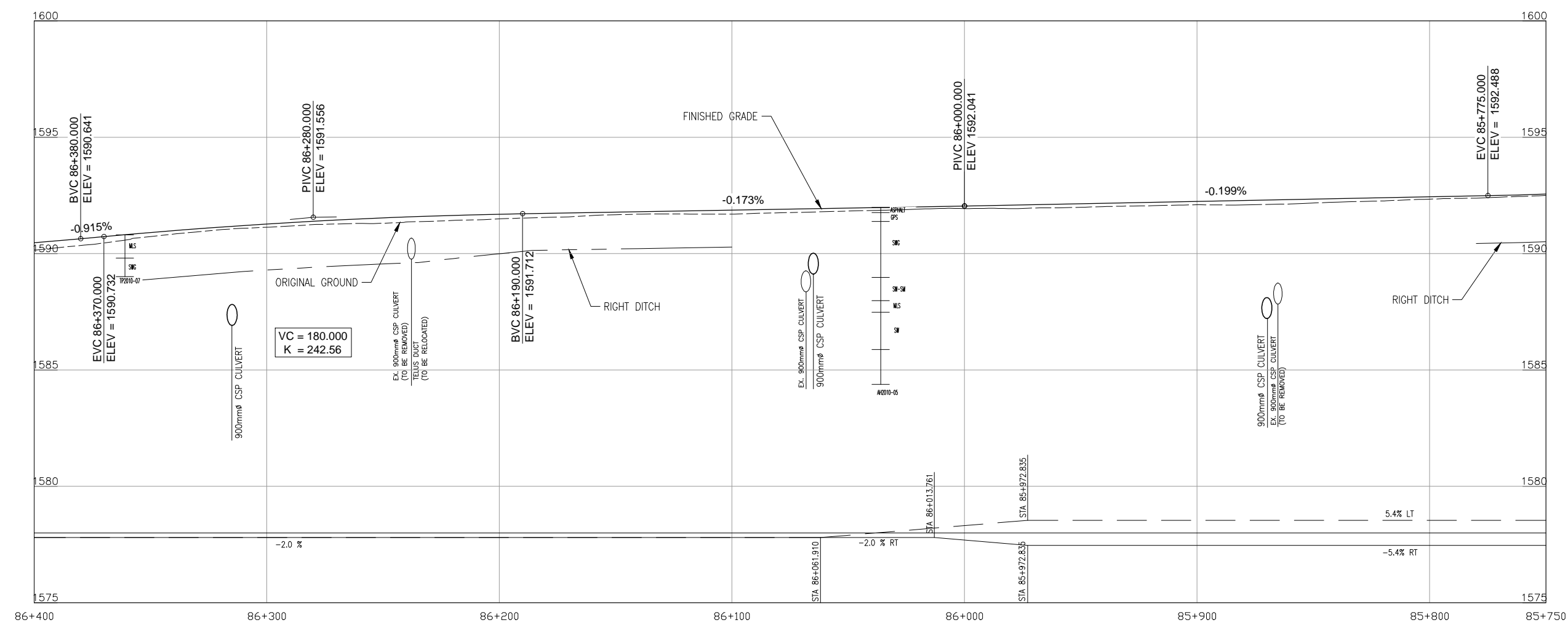
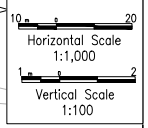
**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	H: 1:1000 V: 1:100
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
201612		<b>C106</b>
Drawing Reference No./No. de référence du dessin		
<b>2511-00545-0</b>		



CURVE No. 280	CURVE No. 281	CURVE No. 282	CURVE No. 283
P.I. CO ORDINATE North 5699271.519 East 545384.294 R= 100.000	P.I. CO ORDINATE North 5699190.078 East 545474.208 R= 20.000	P.I. CO ORDINATE North 5699205.630 East 545538.894 R= 20.000	P.I. CO ORDINATE North 5699319.981 East 545585.857 R= 100.000

DESIGN VEHICLE WB-21  
 DESIGN SPEED 100km/h



File name: C:\proj\2511\_00545\_00\_Yoho\_Twinning\10.0\_DWG\10.3\_Engineering\Segment 4\_Twinning\Sta 85.0 to Km 88.0\10.3.6\_Survey\2511-00545-C01-100.dwg\100  
 June 08, 2016, 08:33:34  
 Plotter:

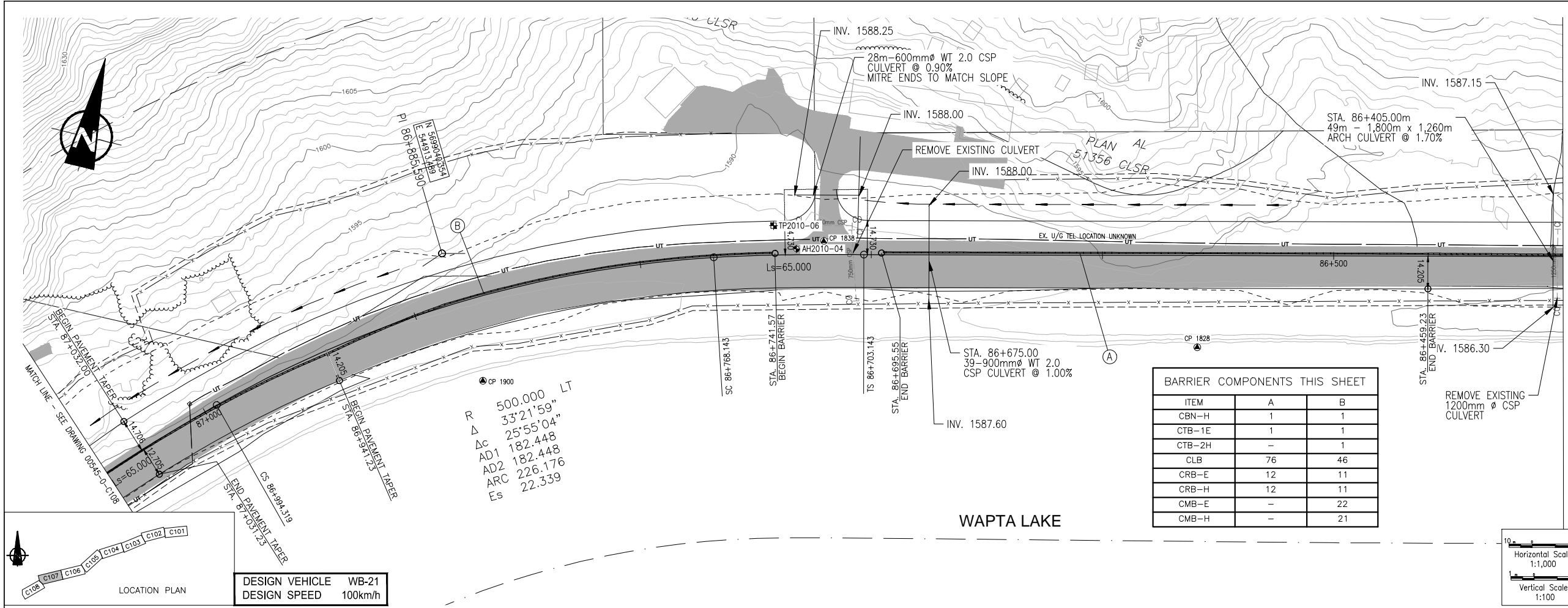


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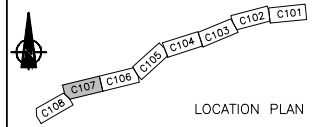
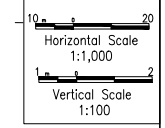
Point	Northing	Easting	Elevation
1828	5699104.329	545244.368	1589.065
1838	5699110.808	545076.588	1588.641
1900	5699077.259	544947.576	1588.08

MATCH LINE - SEE DRAWING 00545-0-C106



ITEM	A	B
CBN-H	1	1
CTB-1E	1	1
CTB-2H	-	1
CLB	76	46
CRB-E	12	11
CRB-H	12	11
CMB-E	-	22
CMB-H	-	21

R 500.000 LT  
 $\Delta$  33'21'59"  
 $\Delta c$  25'55'04"  
 AD1 182.448  
 AD2 182.448  
 ARC 226.176  
 Es 22.339



No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Consultant's Stamp  
 Sceau de l'expert-conseil

Eng. Stamp  
 Sceau de l'ingénieur

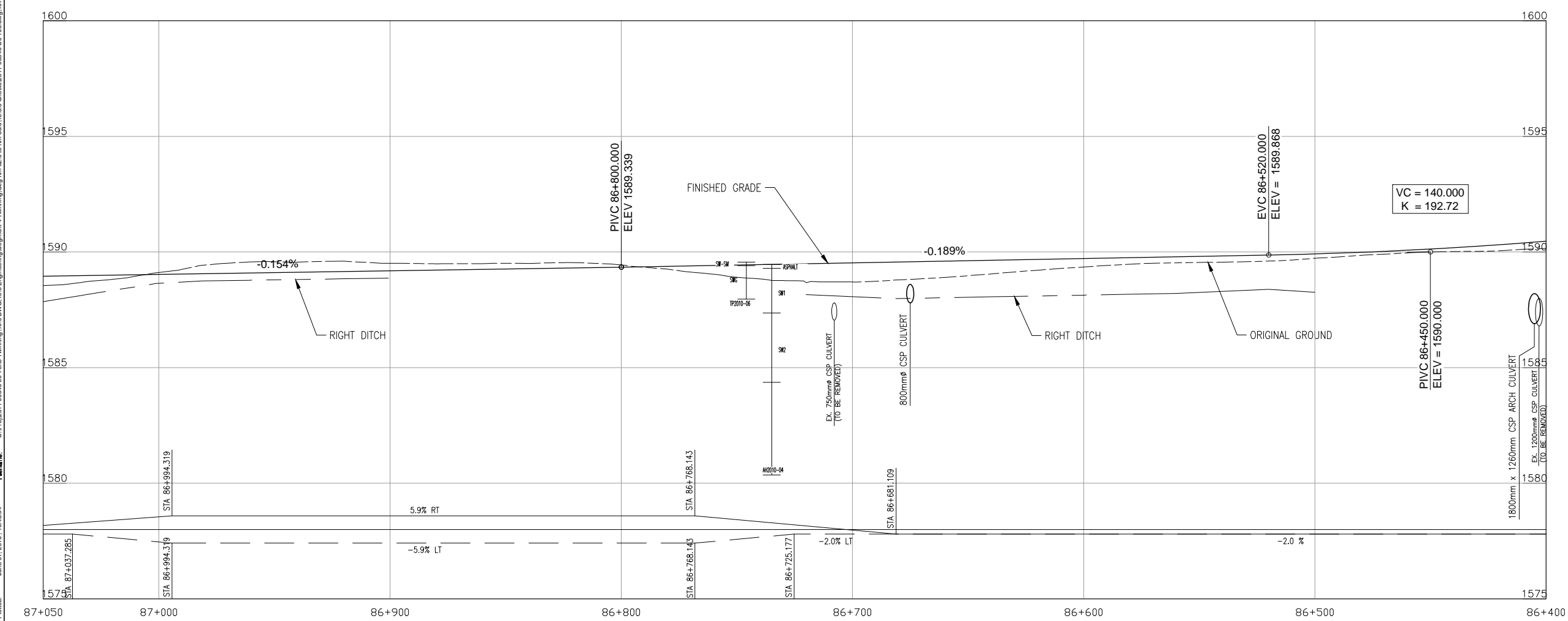
Client/client  
 Parks Canada / L'Agence Parcs Canada  
 Western and Northern Region / Ouest et Nord Région

Consultant's Name  
 Norm de l'expert-conseil  
**McElhanny**

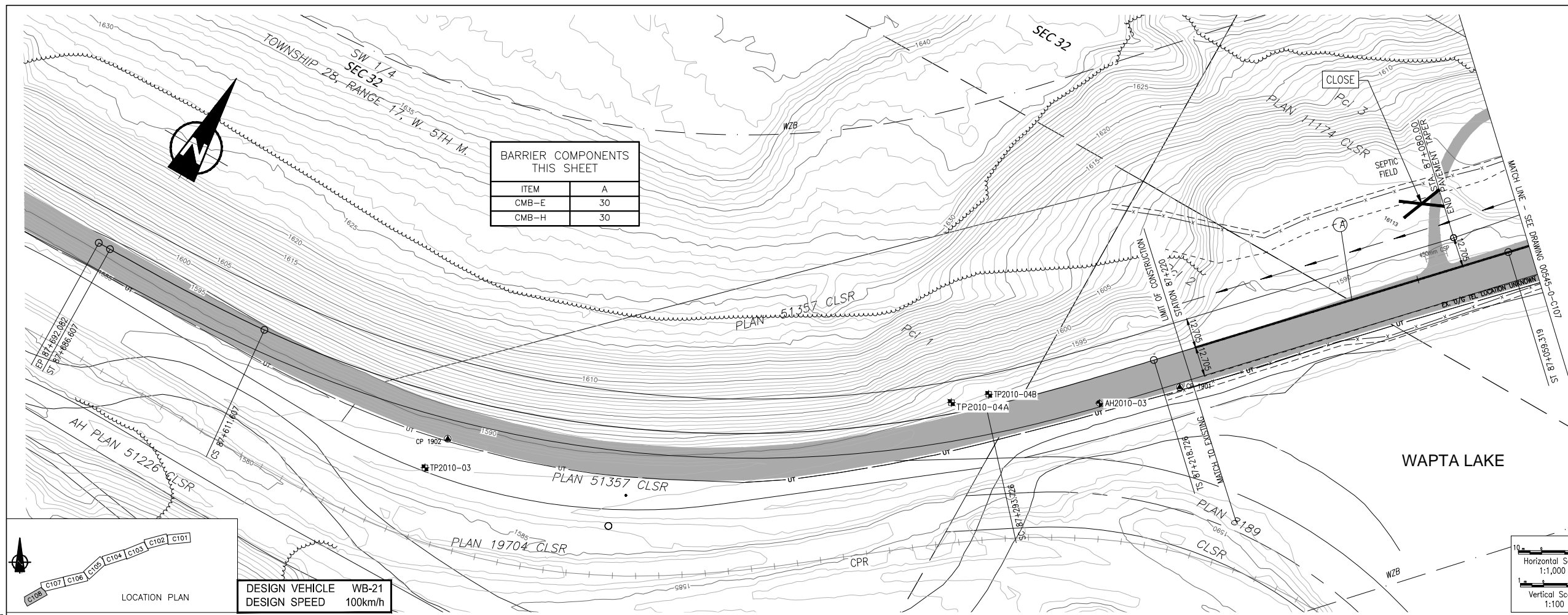
Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1**  
**km 82 to km 88**  
**TCH TWINNING**  
**YOHO NATIONAL PARK**

Drawing title/Titre du dessin  
**PLAN / PROFILE**  
**STA 86+400 TO STA 87+050**  
**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	H: 1:1000 V: 1:100
Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		<b>C107</b>
Drawing Reference No./No. de référence du dessin		
<b>2511-00545-0</b>		



June 07, 2016 - 18:48:54  
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 Plotter:



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CONTROL POINTS TABLE			
Point	Northing	Easting	Elevation
1901	569786.208	544695.297	1588.428
1902	569869.625	544433.505	1586.971

No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

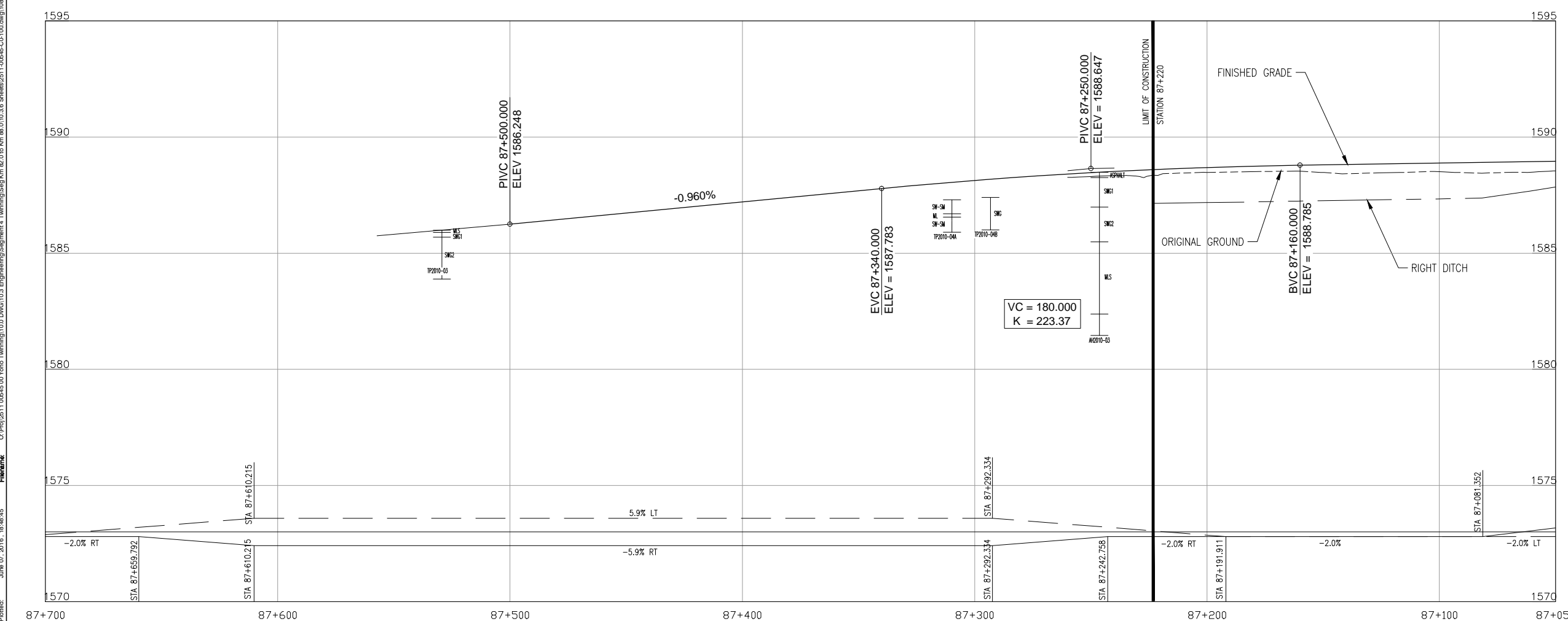
Revision / Revision	
A	detail number / numéro de détail
B	source drawing no. / de dessin no.
C	detail on drawing no. / détail sur dessin no.

Consultant's Stamp  
Seau de l'expert-conseil

Eng. Stamp  
Seau de l'ingénieur

Horizontal Scale  
1:1,000

Vertical Scale  
1:100



Client/client

Parks Canada Agency Western and Northern Region

L'Agence Parcs Canada Ouest at Nord Région

Consultant's Name  
Nom de l'expert-conseil

**McElhanny**

Project title/Titre du projet

**TRANS-CANADA HIGHWAY No.1  
km 82 to km 88  
TCH TWINNING**

**YOHO NATIONAL PARK**

Drawing title/Titre du dessin

**PLAN / PROFILE  
STA 87+050 TO STA 87+220**

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	H: 1:1000 V: 1:100

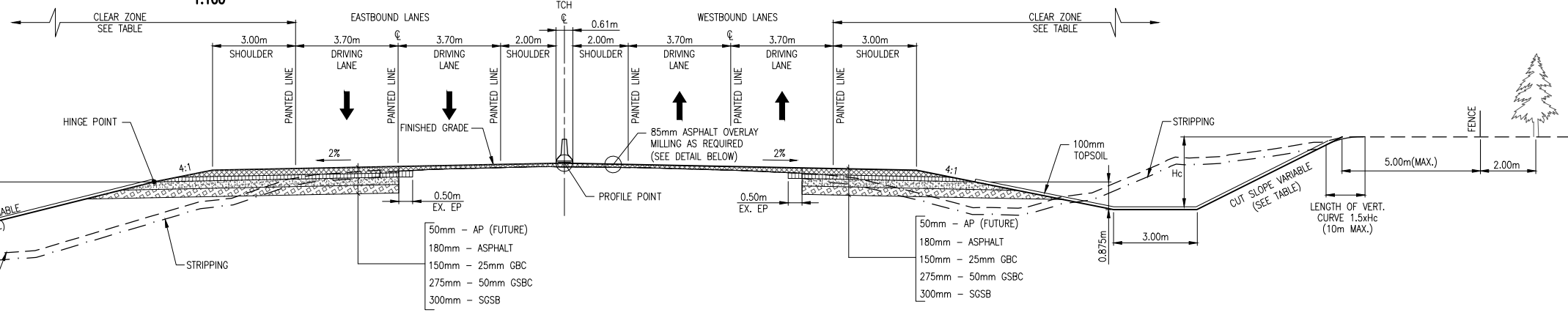
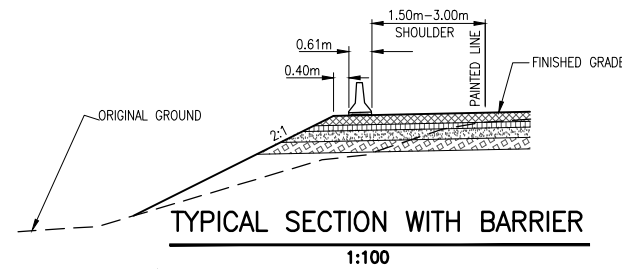
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

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
201612		<b>C108</b>
Drawing Reference No./No. de référence du dessin		
<b>2511-00545-0</b>		

June 07, 2016, 10:49:45  
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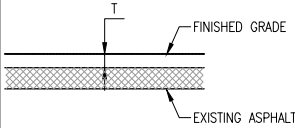
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 June 07, 2016 - 16:33:41  
 Plotter:

THICKNESS (T)mm	TREATMENT
T<85	PULVERIZE EXISTING ASPHALT TO A MIN. DEPTH OF 400mm BELOW TOP OF EXISTING ASPHALT. REGRADE PULVERIZED MATERIAL TO A DEPTH OF 180mm BELOW FINISH GRADE
T-85-180	OVERLAY + LEVELING COURSE
T>180	PULVERIZE EXISTING ASPHALT TO A MIN. DEPTH OF 400mm BELOW TOP OF EXISTING ASPHALT. REGRADE PULVERIZED MATERIAL PLUS 20mm GBC TO A DEPTH OF 180mm BELOW FINISH GRADE



CUT SLOPE TABLE	
CUT DEPTH (Hc)	SLOPE
≤1.0m	5:1
1.0m - 3.0m	4:1
3.0m - 4.0m	3:1
1.0m - 8.0m	2:1
≤15.0m	1.5:1
>15.0m	BENCHED
ROCK CUT	80'

\*BENCHES 3.0m WIDE TO BE PROVIDED AT 10.0m VERTICAL INTERVALS OR AS ACCEPTED BY THE ENGINEER

FILL SLOPE TABLE	
FILL HEIGHT (H)	SLOPE
≤4.0m	4:1
>4.0m	3:1
WITH BARRIER	2:1

CLEAR ZONE HORIZONTAL CURVE ADJUSTMENT FACTORS *	
RADIUS	FACTOR
>900	1.0
900	1.2
700	1.2
600	1.3
500	1.3

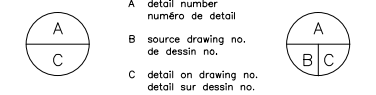
\* OUTSIDE OF CURVE ONLY

CLEAR ZONE DISTANCES			
FILL SLOPES		CUT SLOPES	
4:1	3:1	<3:1	3:1
11.0	VARIES 5m BEYOND TOE DESIRABLE	8.0	6.0

**ASPHALT OVERLAY DETAIL**  
N.T.S.  
DESIGN VEHICLE WB-21  
DESIGN SPEED 100km/h

1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				



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 No.1  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK**

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

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Project No./No. du projet  
201612

Asset No./No. du bien

Sheet No./No. de la feuille  
**C301**

Drawing Reference No./No. de référence du dessin  
**2511-00545-0**

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1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
---	------------	-------------------	------	------

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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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 / L'Agence Parcs Canada  
 Agency / Agence  
 Western and Northern Region / Ouest et Nord Région

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

Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1**  
**km 82 to km 88**  
**TCH TWINNING**  
**YOHO NATIONAL PARK**

Drawing title/Titre du dessin  
**TYPICAL SECTIONS**  
**NOT FOR CONSTRUCTION**

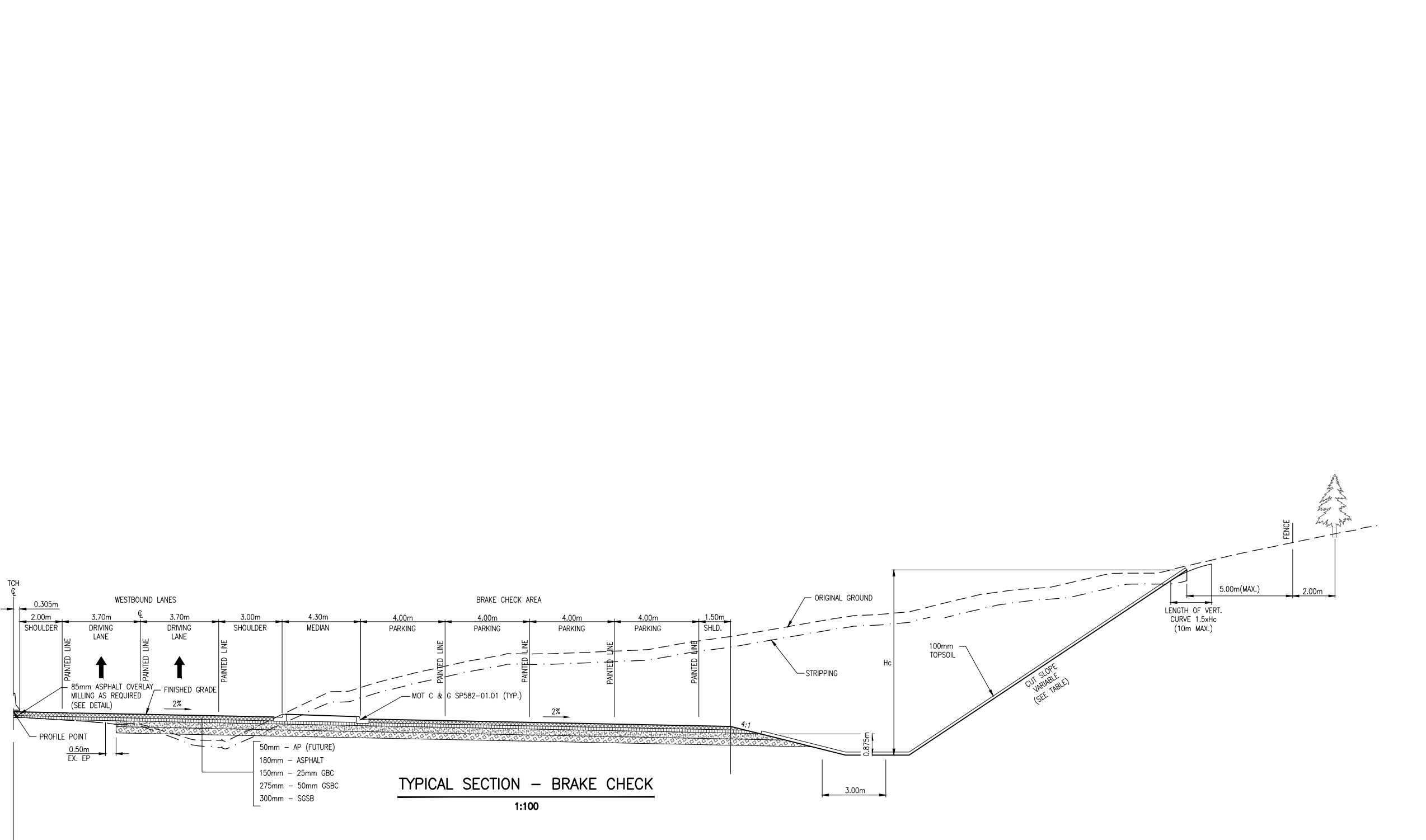
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client  
 Approved by/Approuvé par

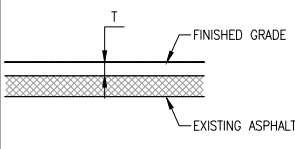
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		C302

Drawing Reference No./No. de référence du dessin  
**2511-00545-0**



**TYPICAL SECTION - BRAKE CHECK**  
 1:100

THICKNESS (T)mm	TREATMENT
T<85	PULVERIZE EXISTING ASPHALT TO A MIN. DEPTH OF 400mm BELOW TOP OF EXISTING ASPHALT. REGRADE PULVERIZED MATERIAL TO A DEPTH OF 180mm BELOW FINISH GRADE
T=85-180	OVERLAY + LEVELING COURSE
T>180	PULVERIZE EXISTING ASPHALT TO A MIN. DEPTH OF 400mm BELOW TOP OF EXISTING ASPHALT. REGRADE PULVERIZED MATERIAL PLUS 20mm GBC TO A DEPTH OF 180mm BELOW FINISH GRADE



**ASPHALT OVERLAY DETAIL**  
 N.T.S.  
 DESIGN VEHICLE WB-21  
 DESIGN SPEED 100km/h

CUT SLOPE TABLE	
CUT DEPTH (Hc)	SLOPE
≤1.0m	5:1
1.0m - 3.0m	4:1
3.0m - 4.0m	3:1
1.0m - 8.0m	2:1
≤15.0m	1.5:1
>15.0m	BENCHED
ROCK CUT	8°

FILL SLOPE TABLE	
FILL HEIGHT (Hf)	SLOPE
≤4.0m	4:1
>4.0m	3:1
WITH BARRIER	2:1

CLEAR ZONE HORIZONTAL CURVE ADJUSTMENT FACTORS *	
RADIUS	FACTOR
>900	1.0
900	1.2
700	1.2
600	1.3
500	1.3

CLEAR ZONE DISTANCES			
FILL SLOPES		CUT SLOPES	
4:1	3:1	<3:1	3:1
11.0	VARIABLE	8.0	6.0
5m BEYOND TOE DESIRABLE			

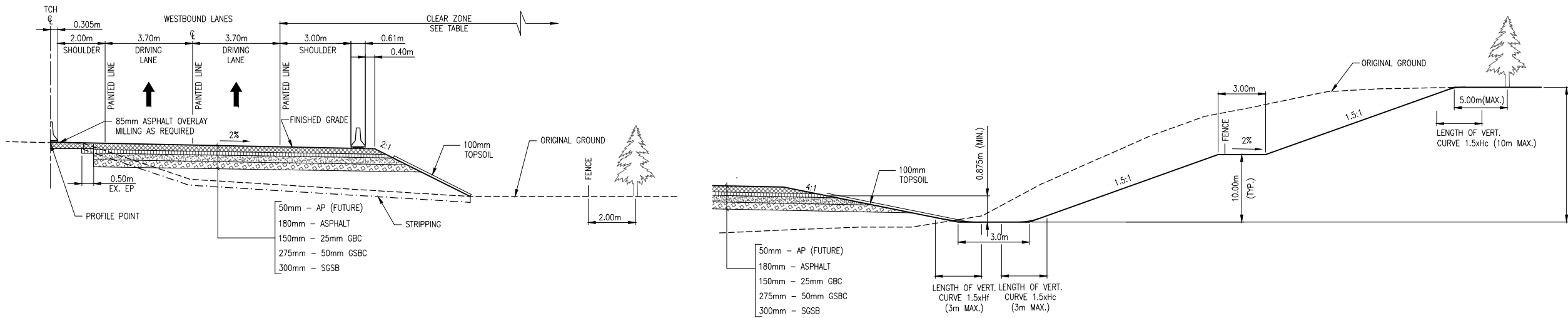
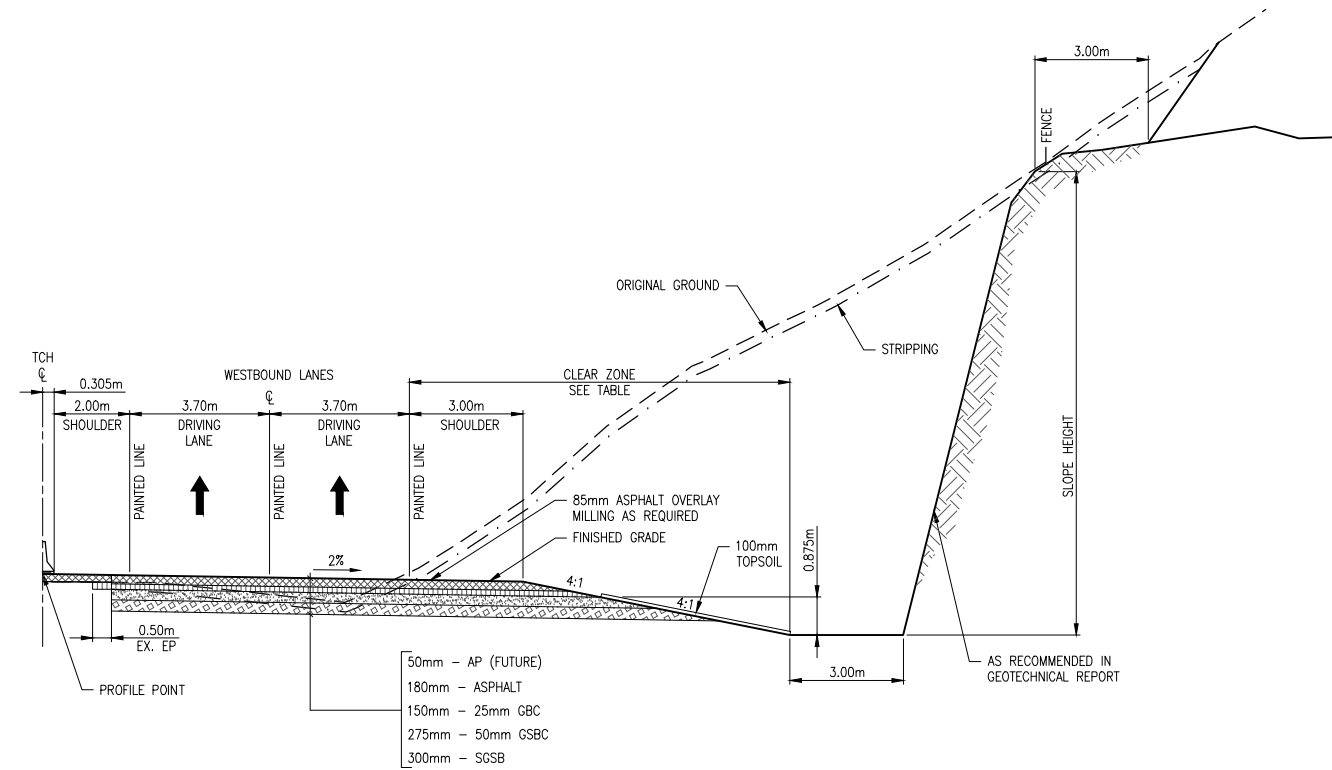
\* OUTSIDE OF CURVE ONLY

\*BENCHES 3.0m WIDE TO BE PROVIDED AT 10.0m VERTICAL INTERVALS OR AS ACCEPTED BY THE ENGINEER

File name: O:\Proj\2511\_00545\_00\_Yoho\_Twinning\10.0.DWG\10.3.Engineering\Segment 4\_Twinning\_Seg\_Km 82.0 to Km 88.0\10.3.0\_Sheets\2511-00545-C302.dwg\$32  
 June 07, 2016 - 16:33:46  
 Plotter:

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CUT DEPTH (Hc)	SLOPE
≤1.0m	5:1
1.0m - 3.0m	4:1
3.0m - 4.0m	3:1
1.0m - 8.0m	2:1
≤15.0m	1.5:1
>15.0m	BENCHED
ROCK CUT	80°

FILL HEIGHT (Hf)	SLOPE
≤4.0m	4:1
>4.0m	3:1
WITH BARRIER	2:1

RADIUS	FACTOR
>900	1.0
900	1.2
700	1.2
600	1.3
500	1.3

FILL SLOPES		CUT SLOPES	
4:1	3:1	<3:1	3:1
11.0	VARIES 5m BEYOND TOE DESIRABLE	8.0	6.0

DESIGN VEHICLE WB-21  
DESIGN SPEED 100km/h

\*BENCHES 3.0m WIDE TO BE PROVIDED AT 10.0m VERTICAL INTERVALS OR AS ACCEPTED BY THE ENGINEER

\* OUTSIDE OF CURVE ONLY

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

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 / Sciau de l'expert-conseil  
Eng. Stamp / Sciau de l'ingénieur

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

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

Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK**

Drawing title/Titre du dessin  
**TYPICAL SECTIONS**  
**NOT FOR CONSTRUCTION**

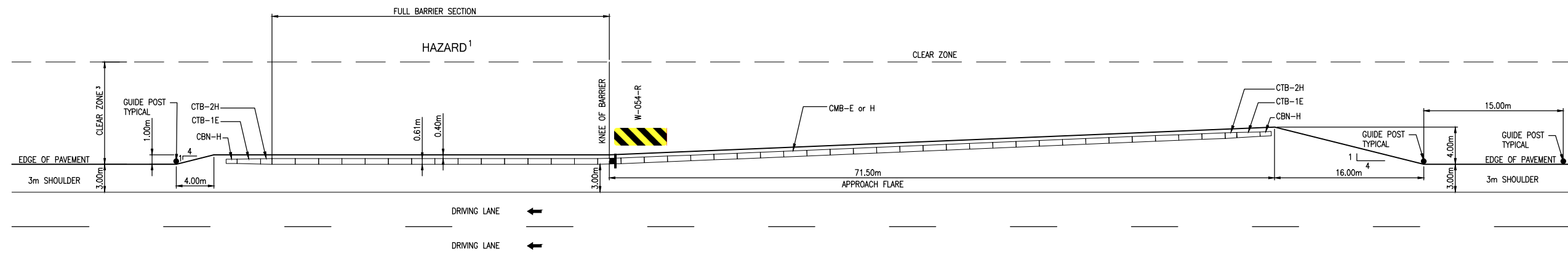
Surveyed by/Représenté par	Drawn by/Dessiné par	Date/Date
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	AS SHOWN

Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Client Acceptance/Acceptation du client	Approved by/Approuvé par
Project No./No. du projet	Asset No./No. du bien
201612	
Drawing Reference No./No. de référence du dessin	
2511-00545-0	
Sheet No./No. de la feuille	
C303	

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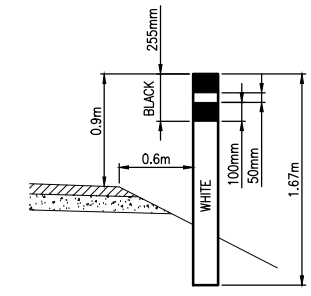
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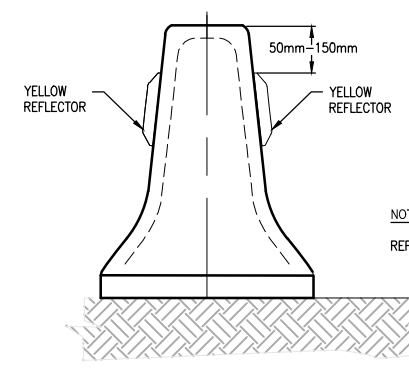


- NOTE:**
- HAZARDS INCLUDE CULVERTS, ANIMAL UNDERPASSES AND LOCATIONS WHERE THE HIGH WATER MARK COMES WITHIN 2m OF THE CLEAR ZONE.
  - FOR BARRIER SECTION DETAILS REFER TO BC MOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 941.
  - FOR CLEAR ZONE DISTANCE REFER TO TYPICAL SECTION DRAWINGS.

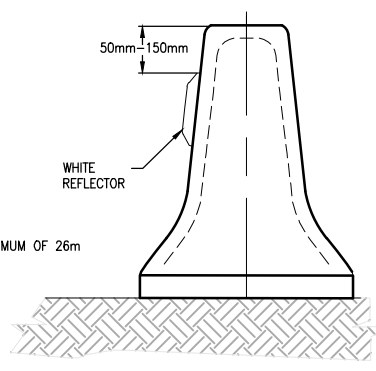
**STANDARD BARRIER DETAIL**  
1:250



**TYPICAL GUIDE POST INSTALLATION**  
N.T.S.



**NOTE:**  
REFLECTORS TO BE SPACED AT A MAXIMUM OF 26m



**TYPICAL BARRIER REFLECTOR INSTALLATION**  
N.T.S.

1	2016.06.03	ISSUED FOR CONSTRUCTION	M.B.	S.A.
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision	
A	A detail number numéro de détail
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C	C detail on drawing no. détail sur dessin no.

Consultant's Stamp Sciau de l'expert-conseil	Eng. Stamp Sciau 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 No.1**  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**STANDARD BARRIER DETAIL**

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
R.P.	S.A.	AS SHOWN

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

Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
201612		C305

Drawing Reference No./No. de référence du dessin  
**2511-00545-0**

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DRAINAGE LOCATION SHOWN ON PLAN AND PROFILE DRAWINGS

1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
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No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé

Revision / Révision	
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Consultant's Stamp Sciau de l'expert-conseil	Eng. Stamp Sciau de l'ingénieur
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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 No. 1**  
km 82 to km 88  
**TCH TWINNING**  
YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**TYPICAL DRAINAGE DETAILS**

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
R.P.	S.A.	AS SHOWN

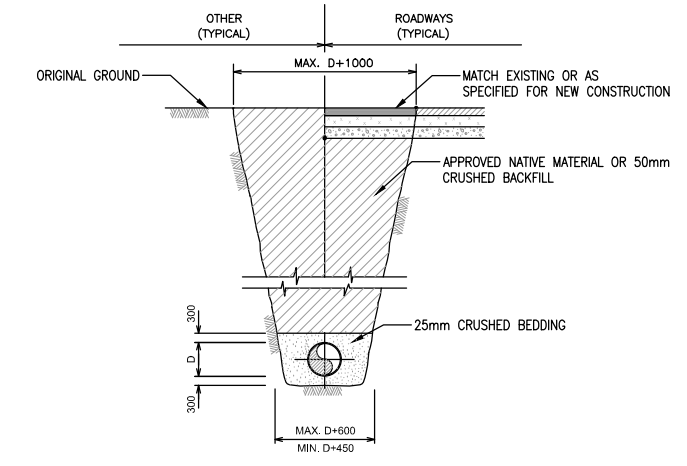
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

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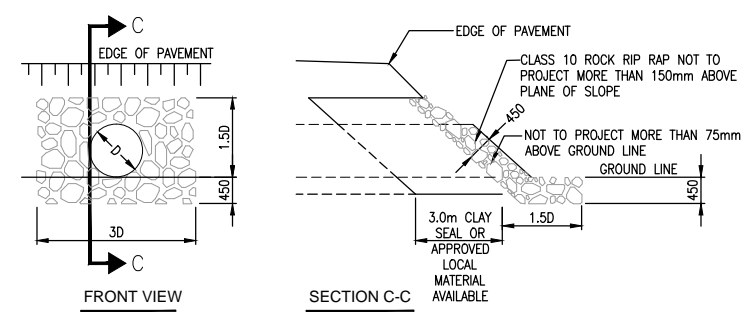
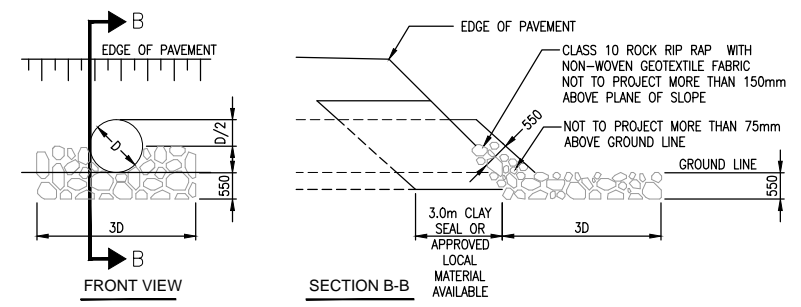
Parcs Canada Responsable Office/Agenc Responsable Parcs Canada      Parcs Canada Project Manager/Administrateur de Projets Parcs Canada

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		C306

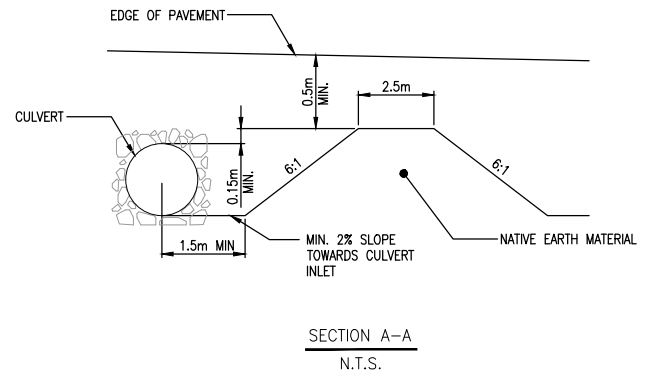
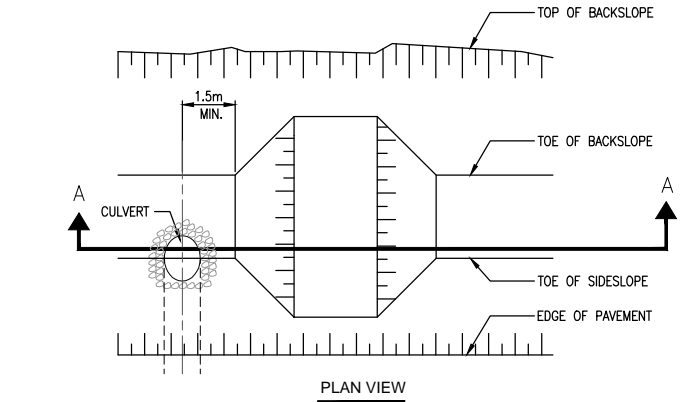
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**2511-00545-0**



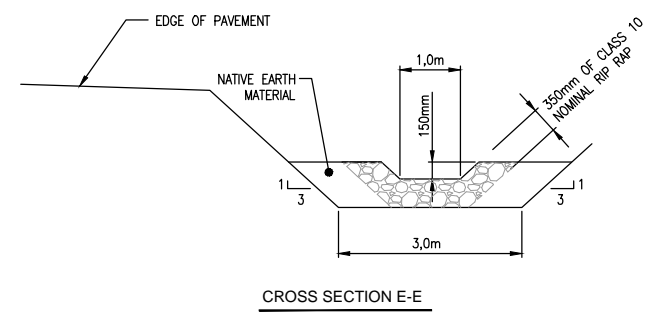
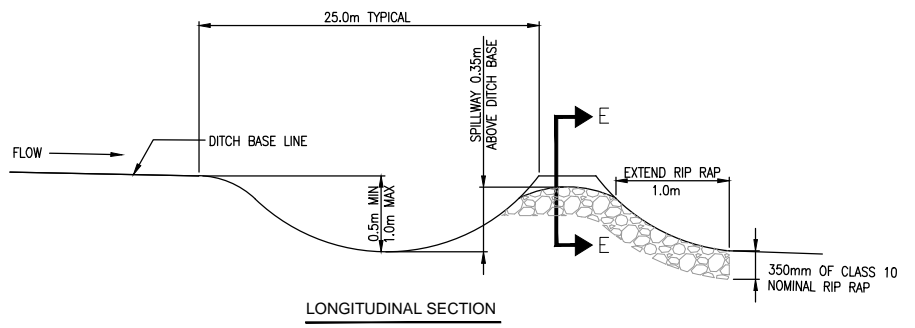
**TYPICAL CULVERT TRENCH INSTALLATION**  
N.T.S.



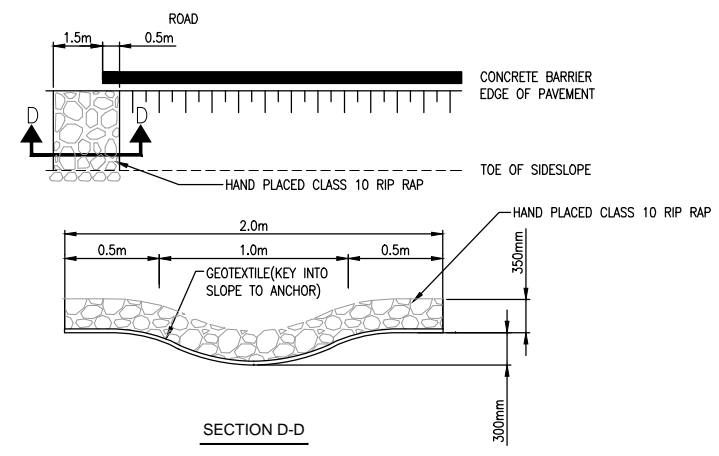
**HAND PLACED RIP RAP FOR CSP CULVERTS**  
N.T.S.



**DITCH BLOCK DETAILS**



**TYPICAL DITCH DAM DETAIL**  
N.T.S.



**RIP RAP SPILLWAY**  
N.T.S.

File name: O:\Proj\2511\_00545\_00\_Yoho\_Twinning\10.0\_DWG\10.3\_Engineering\Segment 4\_Twinning\Seg\_Km 82.0 to Km 88.0\10.3.6\_Sheets\2511-00545-C306-307.dwg\$008  
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 Plotter:

**NOTES:**

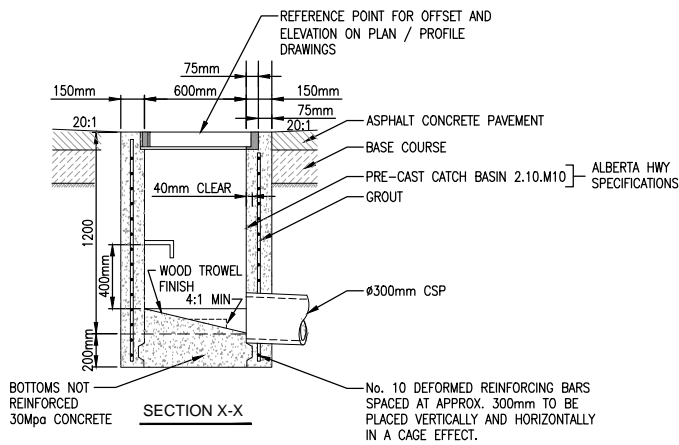
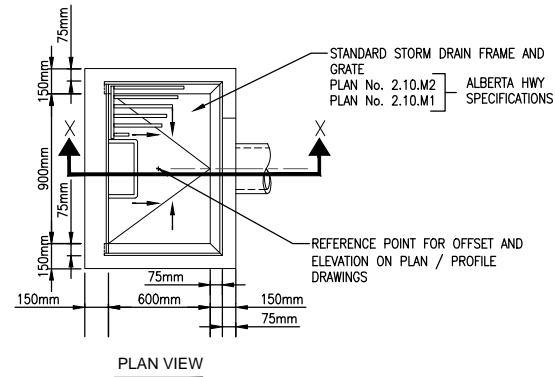
STEEL LADDER RUNGS TO BE INSTALLED AT 400mm INTERVALS IN BOXES HAVING A DEPTH OF MORE THAN 1.0m.  
eg. BOXES OF DEPTH 1.0m TO 1.5m TO HAVE ONE 19mm STEEL RUNG 40cm FROM BOTTOM

DRAIN PIPES TO BE EITHER REINFORCED CONCRETE OR CORRUGATED STEEL PIPE AS SPECIFIED.

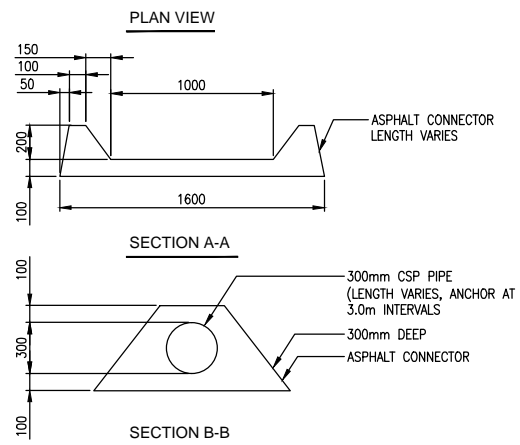
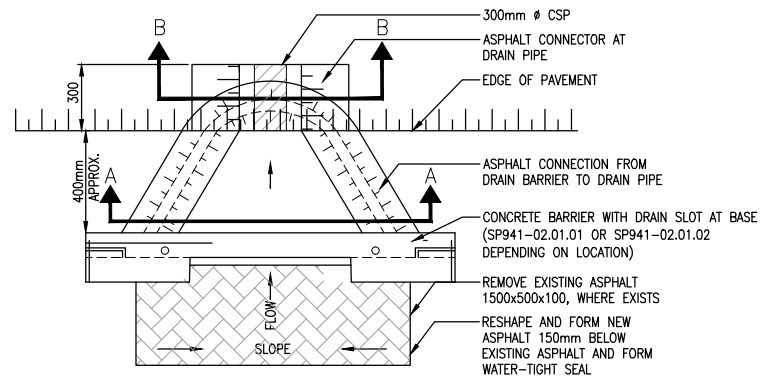
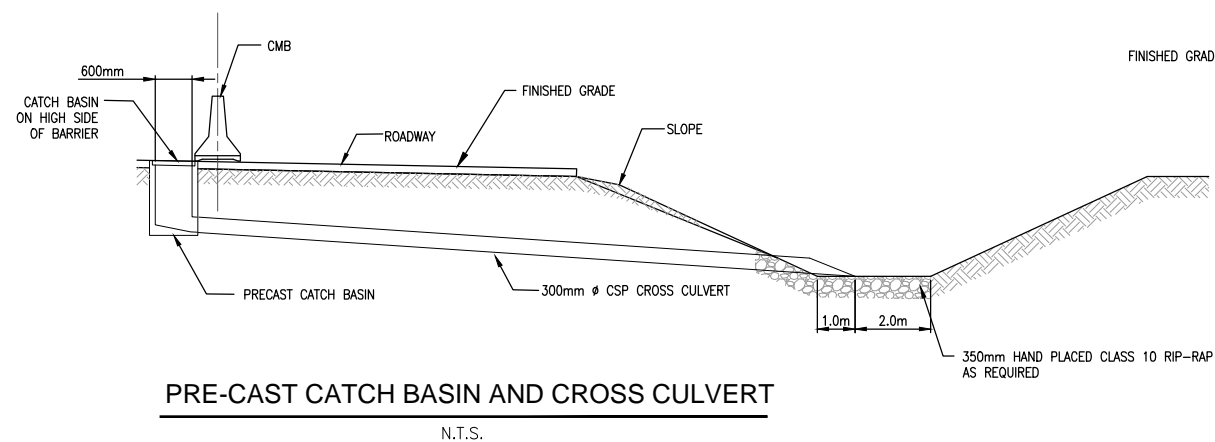
PIPE OR PIPES TO BE INSTALLED IN ANY WALL OR WALLS AS REQUIRED.

TOP OF INLET TO BE FLUSH WITH TOP OF FINISHED PAVEMENT. PROVISION SHALL BE MADE IN CONSTRUCTION OF INLET TO ACCOMMODATE SURFACE DRAINAGE WHEN HIGHWAY CONSTRUCTION IS IN STAGES.

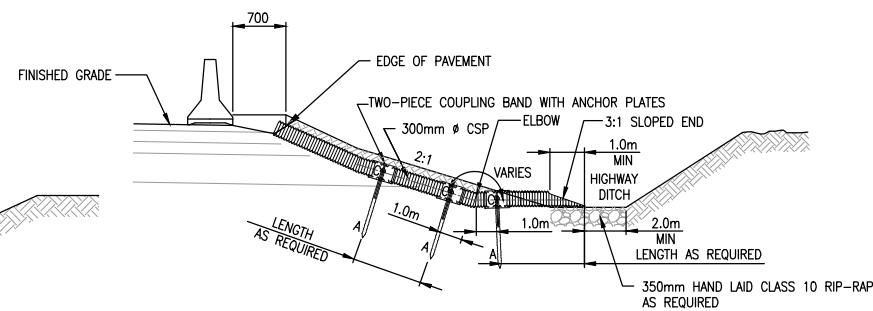
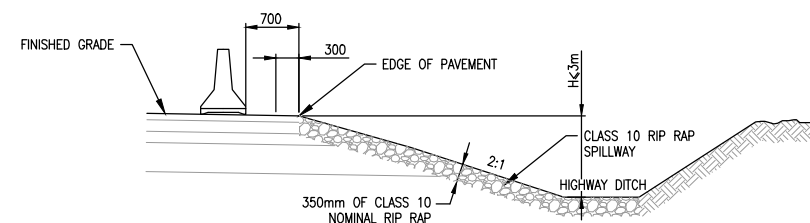
STANDARD STRUCTURE SHOWN.



**PRE-CAST CATCH BASIN**  
N.T.S.



**BARRIER DRAIN INLET DETAIL**  
N.T.S.



- A. METAL ANCHOR 40mm STEEL PIPE OR EQUIVALENT MIN. LENGTH 2.0m MIN. WEIGHT 5.4kg PER m (2 REQUIRED FOR EACH COUPLING BAND ON DOWN DRAIN PIPE).
- C. TWO PIECE COUPLING BAND WITH ANCHOR PLATES.

- NOTES:**
1. ALL JOINTS TO BE ANCHORED.
  2. MAXIMUM SPACING OF ANCHORS NOT TO EXCEED 9m.
  3. ALL 40mm ANCHOR PIPE TO BE DRILLED 15mm FROM TOP END TO RECEIVE 12mm DIAMETER BOLT.
  4. 15mm-12mm DIAMETER BOLT TO BE SUPPLIED WITH EACH ANCHOR.

**BARRIER DRAIN - WITH CSP OR RIP-RAP**  
N.T.S.

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DRAINAGE LOCATION SHOWN ON PLAN AND PROFILE DRAWINGS

1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

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Consultant's Stamp Sciau de l'expert-conseil	Eng. Stamp Sciau 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 No. 1**  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**TYPICAL DRAINAGE DETAILS**

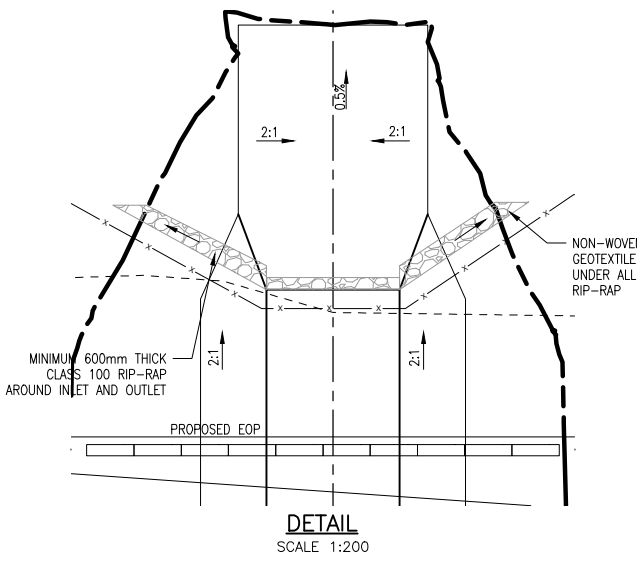
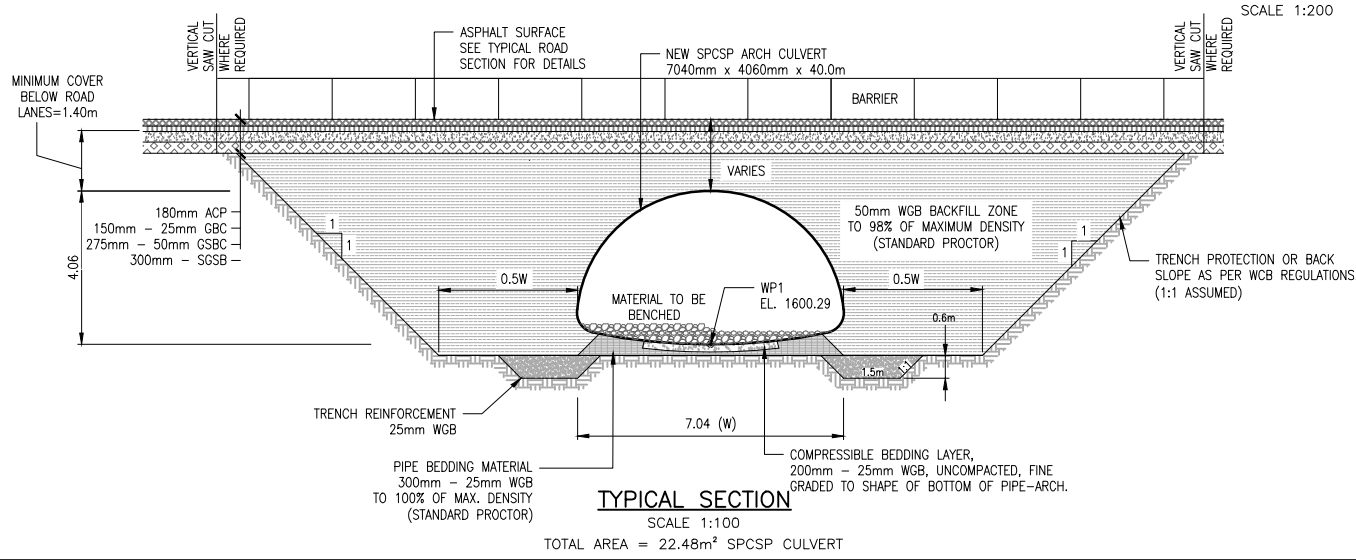
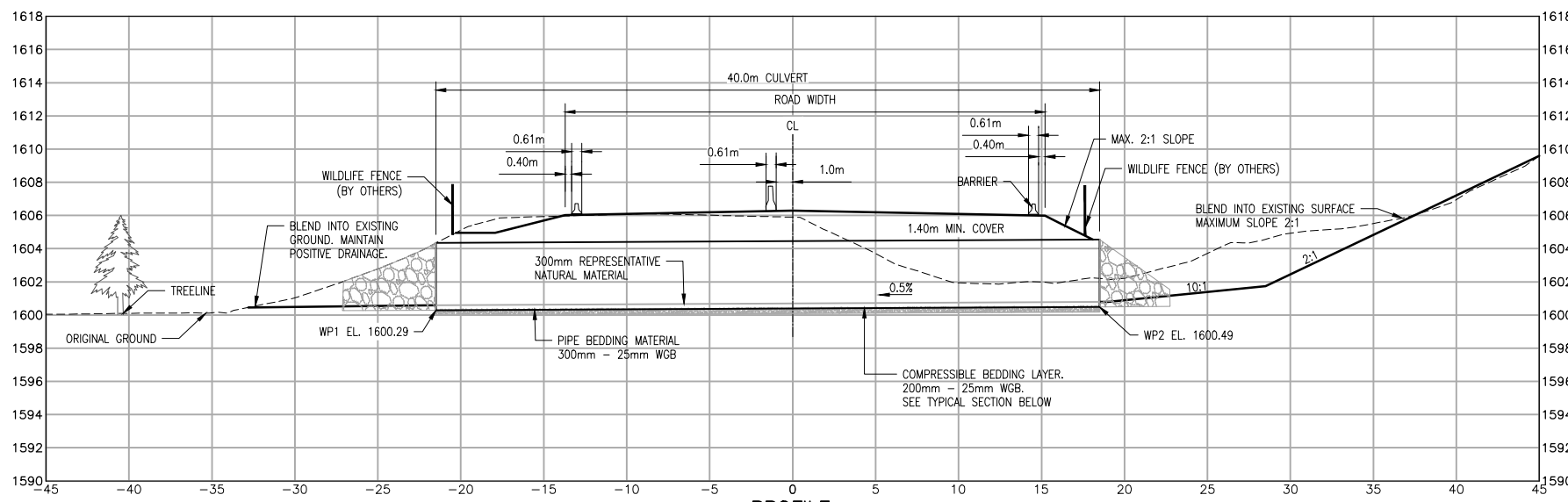
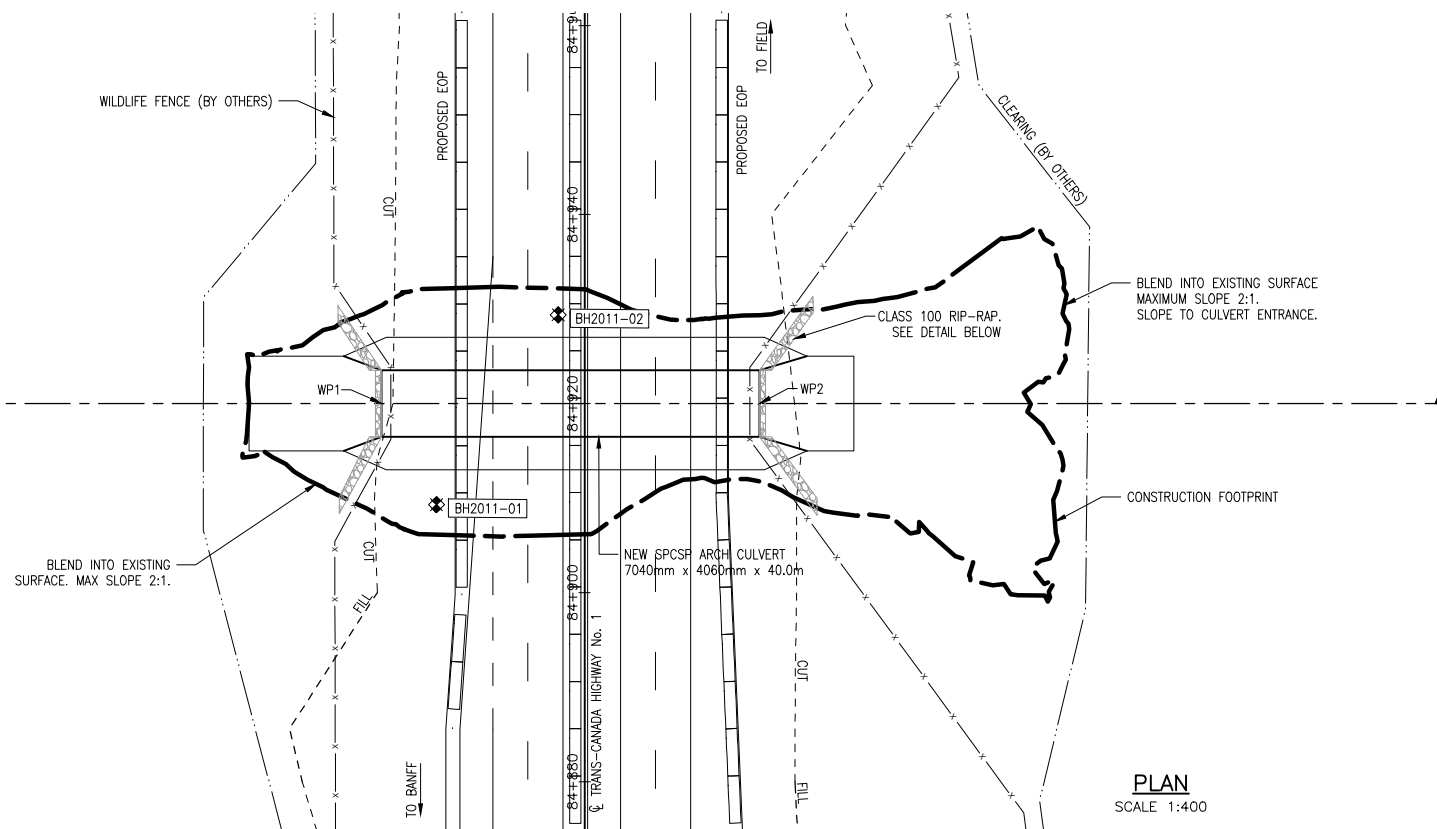
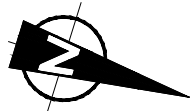
**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	AS SHOWN

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
201612		C307
Drawing Reference No./No. de référence du dessin		
2511-00545-0		

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 June 08, 2016 08:37:42  
 Plotter:





DESCRIPTION	NORTHING	EASTING	ELEVATION
WP1	5699777.59	546692.18	1600.29
WP2	5699815.82	546680.40	1600.49

WP'S LOCATED AT CULVERT ENDS AT INSIDE CREST OF CULVERT

DESIGN REFERENCES:  
 1. BC SUPPLEMENT TO TAC GEOMETRIC DESIGN GUIDE  
 2. DESIGN GUIDE FOR CANADIAN ROADS TAC  
 DESIGN SPEED 100 KM/H

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Consultant's Stamp  
Sciau de l'expert-conseil

Eng. Stamp  
Sciau 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 No.1**  
 km 82 to km 88  
 TCH TWINNING

**YOHO NATIONAL PARK**

Drawing title/Titre du dessin

**WILDLIFE CROSSING No. 3**  
 STA 84+920  
 GENERAL ARRANGEMENT

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03

Designed by/Concept par  
RP

Reviewed by/Revisé par  
S.A.

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par

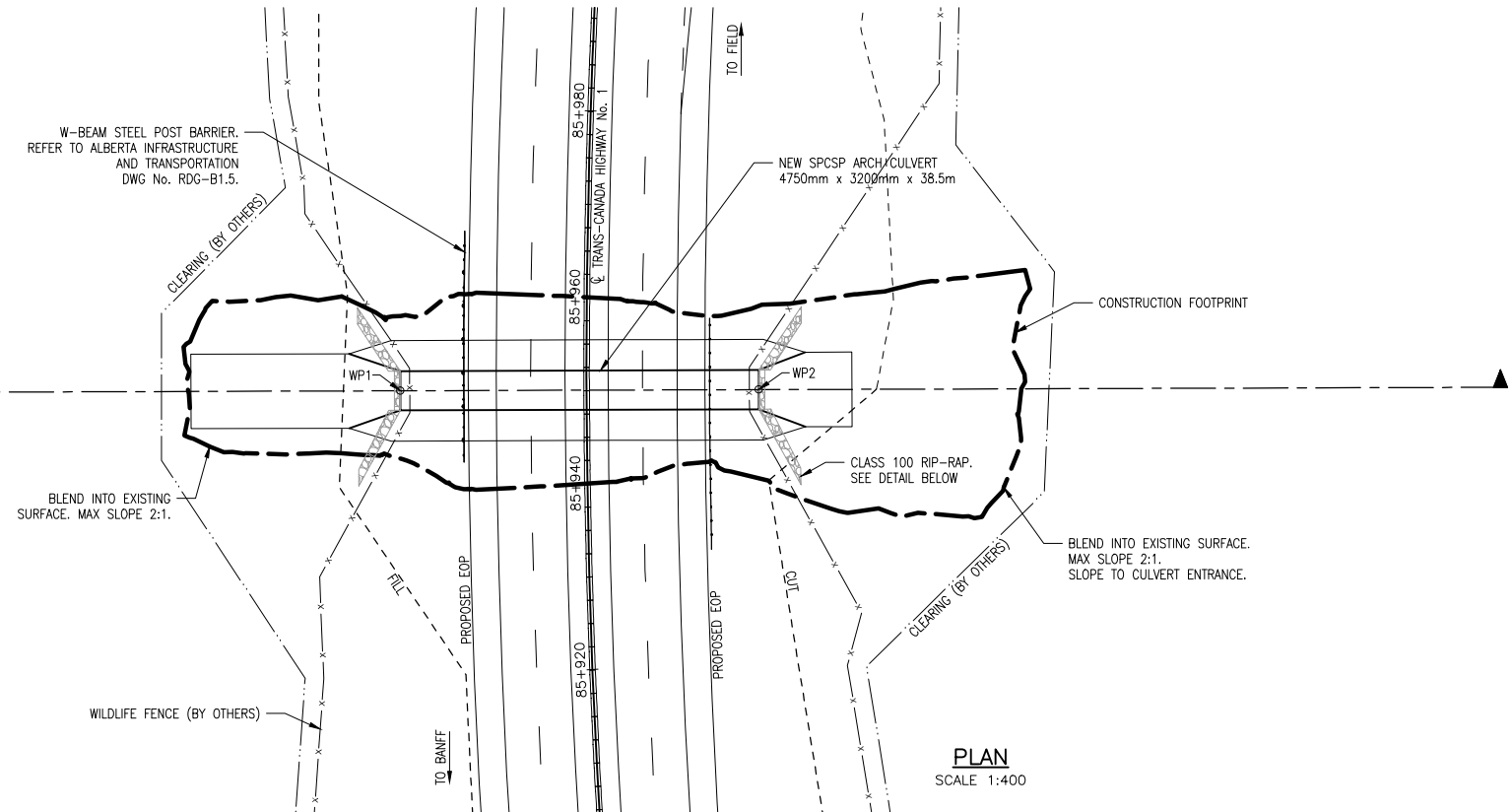
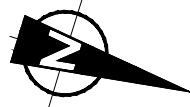
Parks Canada Responsible Officer/Agent Responsable Parcs Canada

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

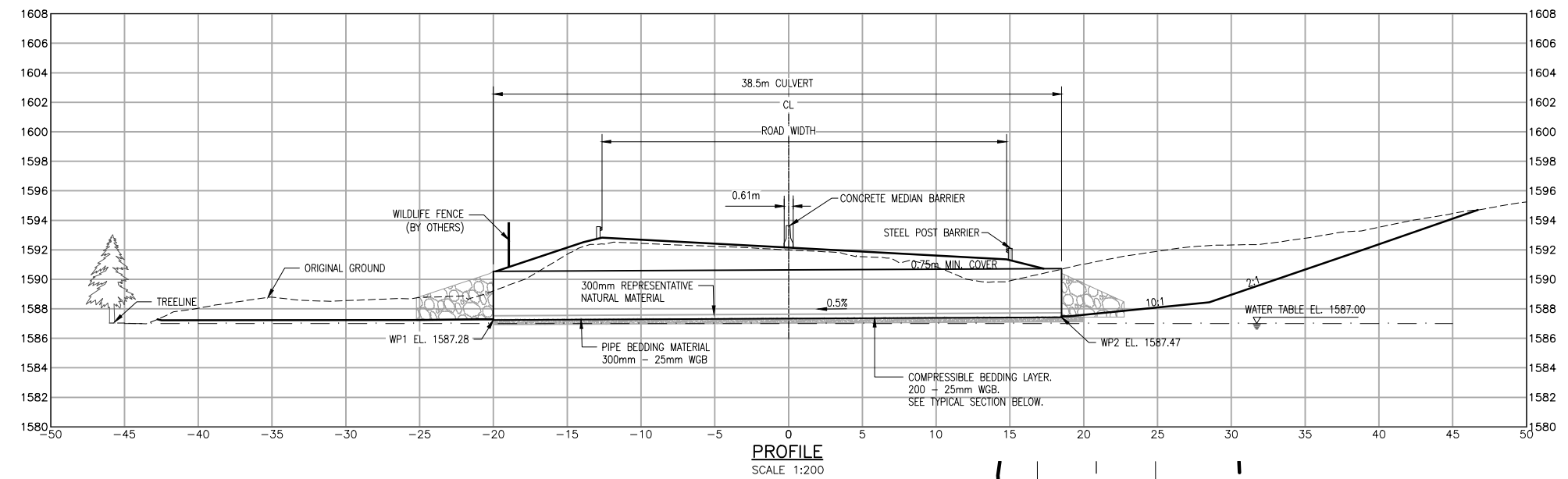
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201612		<b>C351</b>

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**2511 00545-0**

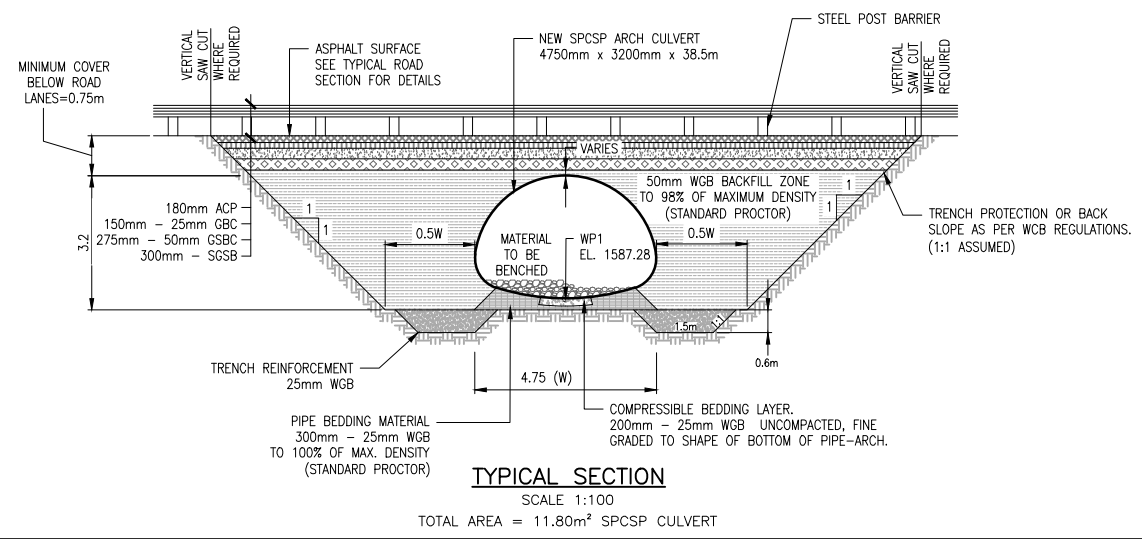
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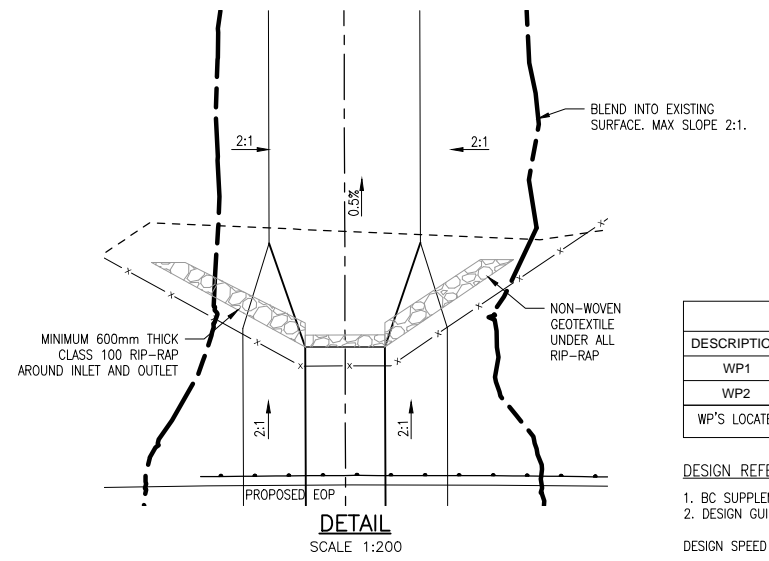
**PLAN**  
SCALE 1:400



**PROFILE**  
SCALE 1:200



**TYPICAL SECTION**  
SCALE 1:100  
TOTAL AREA = 11.80m<sup>2</sup> SPCSP CULVERT



**DETAIL**  
SCALE 1:200

DESCRIPTION	NORTHING	EASTING	ELEVATION
WP1	5699241.94	545828.59	1587.28
WP2	5699278.70	545817.13	1587.47

WP'S LOCATED AT CULVERT ENDS AT INSIDE CREST OF CULVERT

**DESIGN REFERENCES:**  
1. BC SUPPLEMENT TO TAC GEOMETRIC DESIGN GUIDE  
2. DESIGN GUIDE FOR CANADIAN ROADS TAC  
DESIGN SPEED 100 KM/H

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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
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Consultant's Name  
Nom de l'expert-conseil

Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1**  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**WILDLIFE CROSSING No. 4**  
STA 85+950  
**GENERAL ARRANGEMENT**  
**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
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Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
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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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Parcs Canada Responsible Officer/Agent Responsable Parcs Canada Parcs Canada Project Manager/Responsable des Projets Parcs Canada

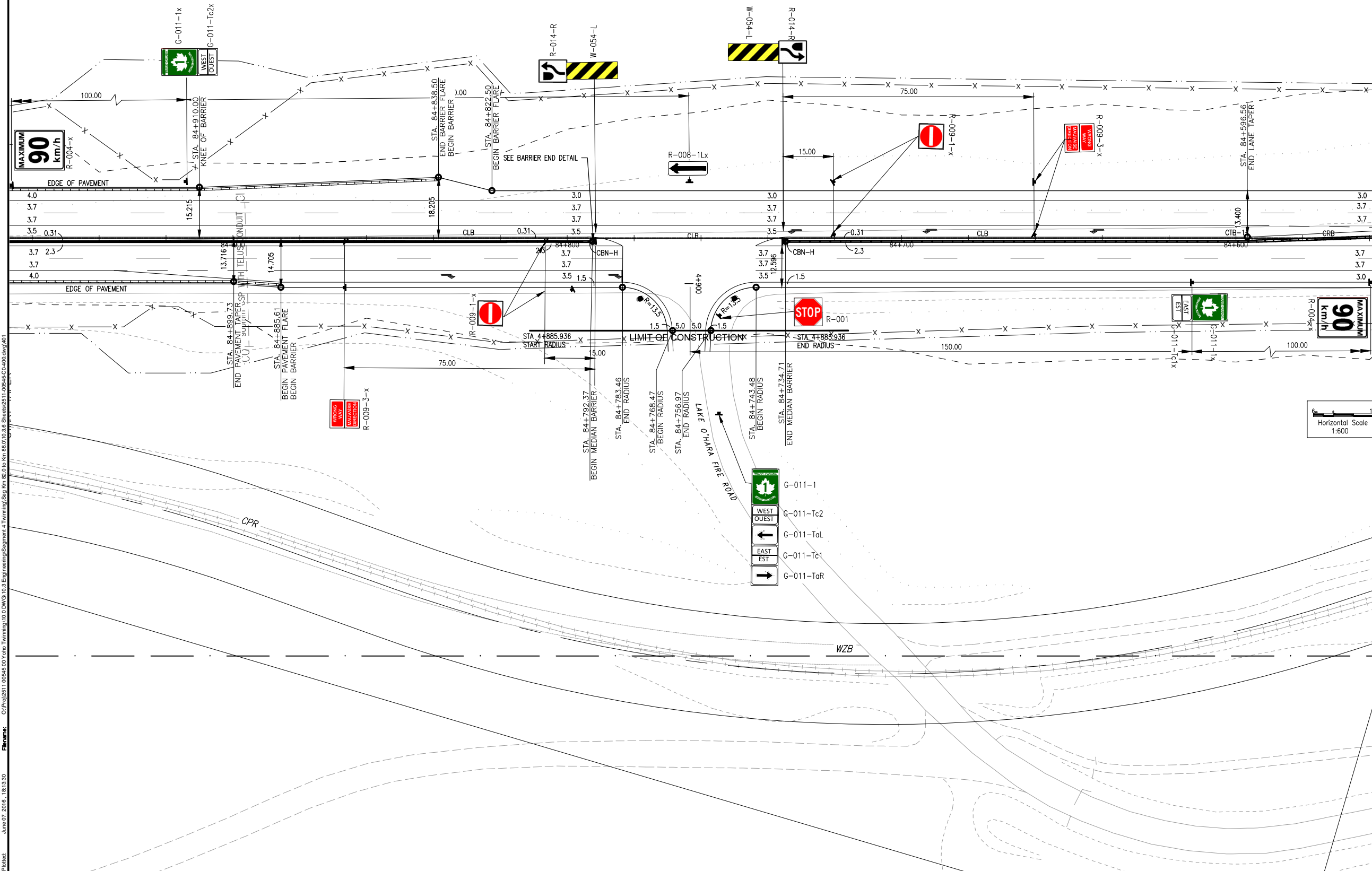
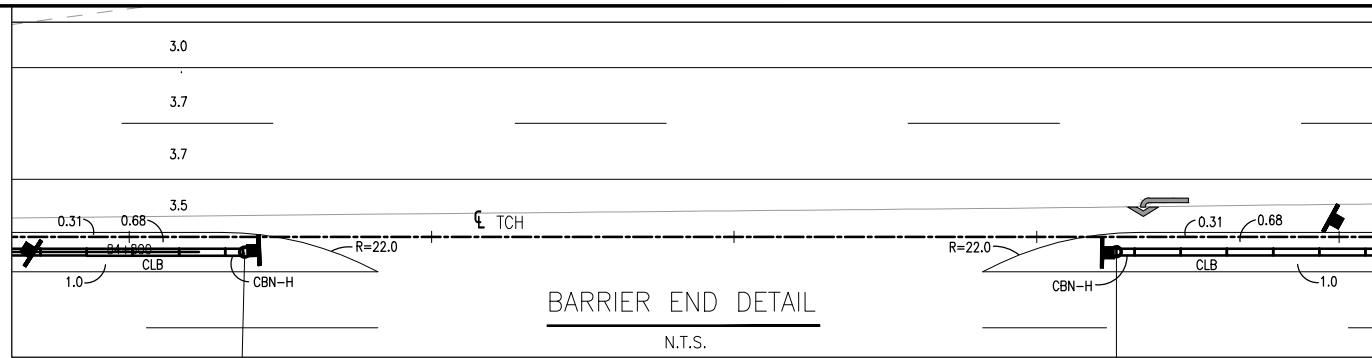
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Drawing Reference No./No. de référence du dessin  
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 June 07, 2016 - 15:28:45  
 Plotter:



17 W5M I.M.



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1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision	
A	A
B	B
C	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



Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No.1  
km 82 to km 88  
TCH TWINNING**

YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**TCH / LAKE O'HARA FIRE ROAD  
INTERSECTION PLAN  
STA 84+560 TO STA 84+960  
NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	1:600

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client

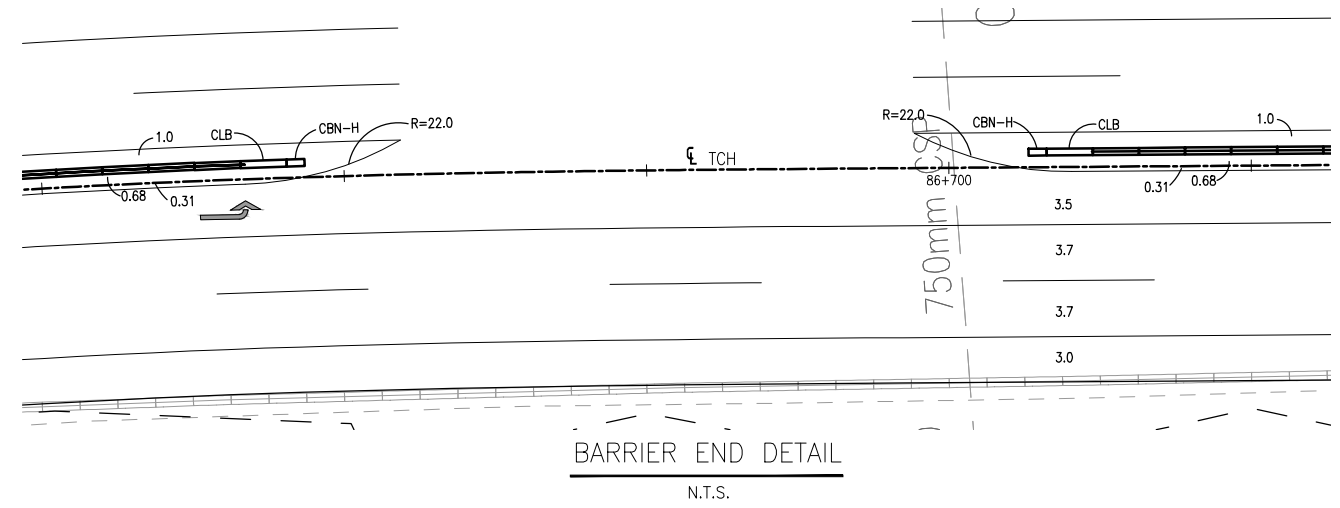
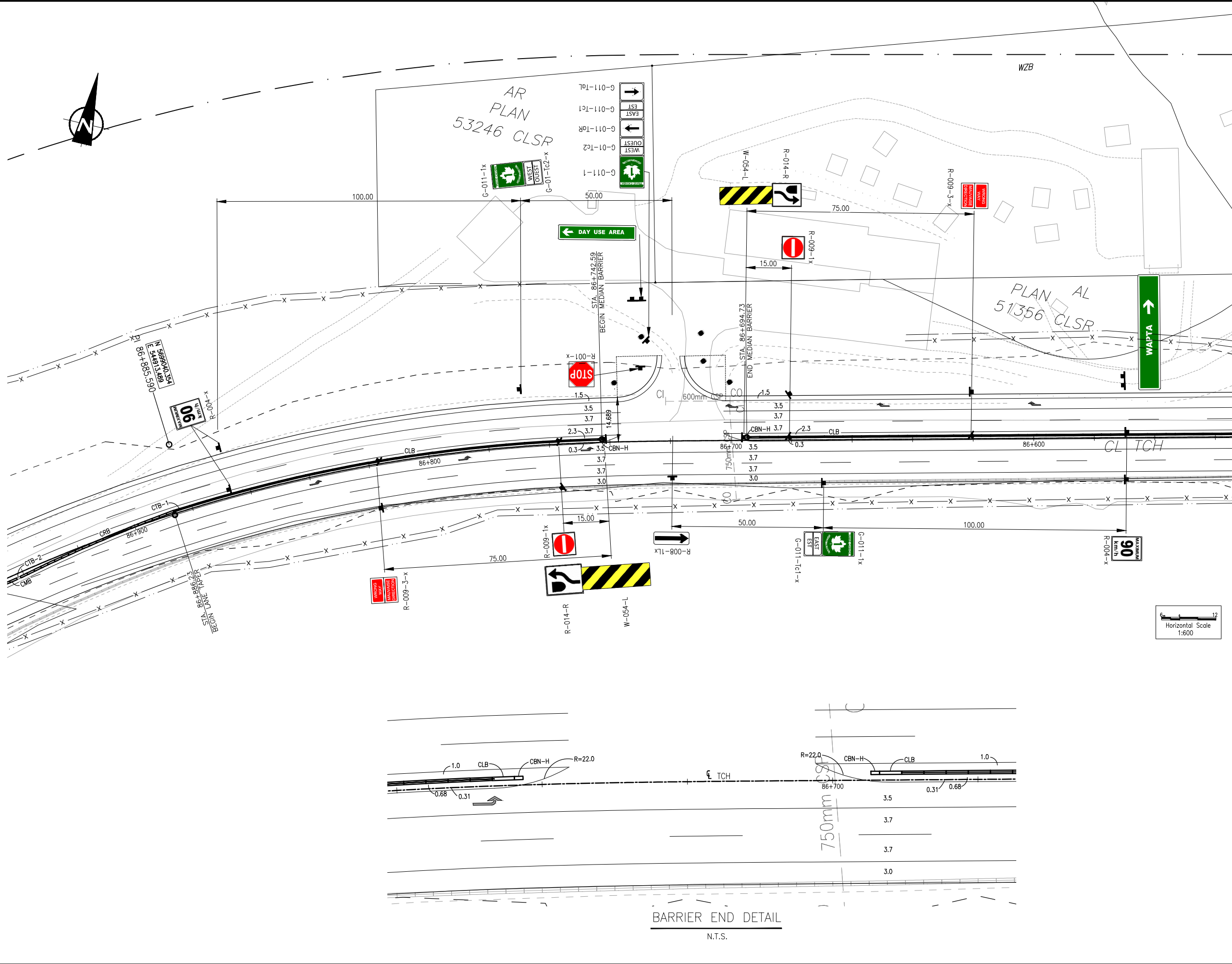
Approved by/Approuvé par

Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
201612		C401
Drawing Reference No./No. de référence du dessin		
2511-00545-0		

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 June 07, 2016 - 18:13:30  
 Plotter:

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BARRIER END DETAIL  
N.T.S.

1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A	A
B	B
C	C

Consultant's Stamp  
Scou de l'expert-conseil

Eng. Stamp  
Scou 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 No.1**  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK

Drawing title/Titre du dessin

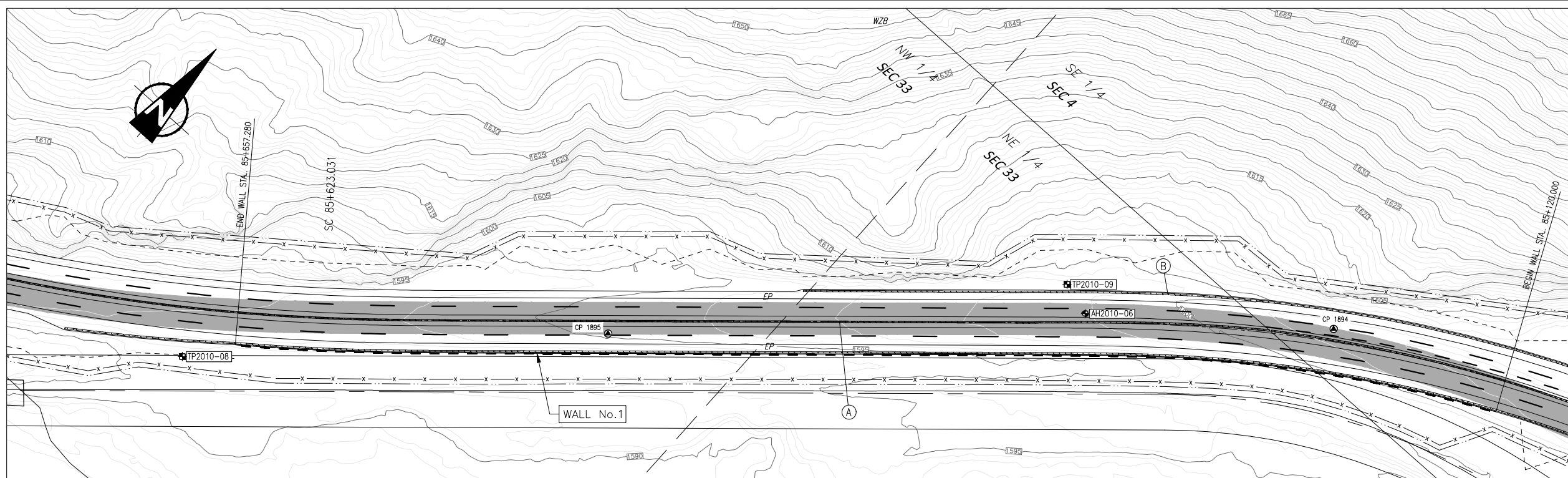
**TCH / WAPTA ROAD  
INTERSECTION PLAN  
STA 86+500 TO STA 86+900  
NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
R.P.	S.A.	1:600

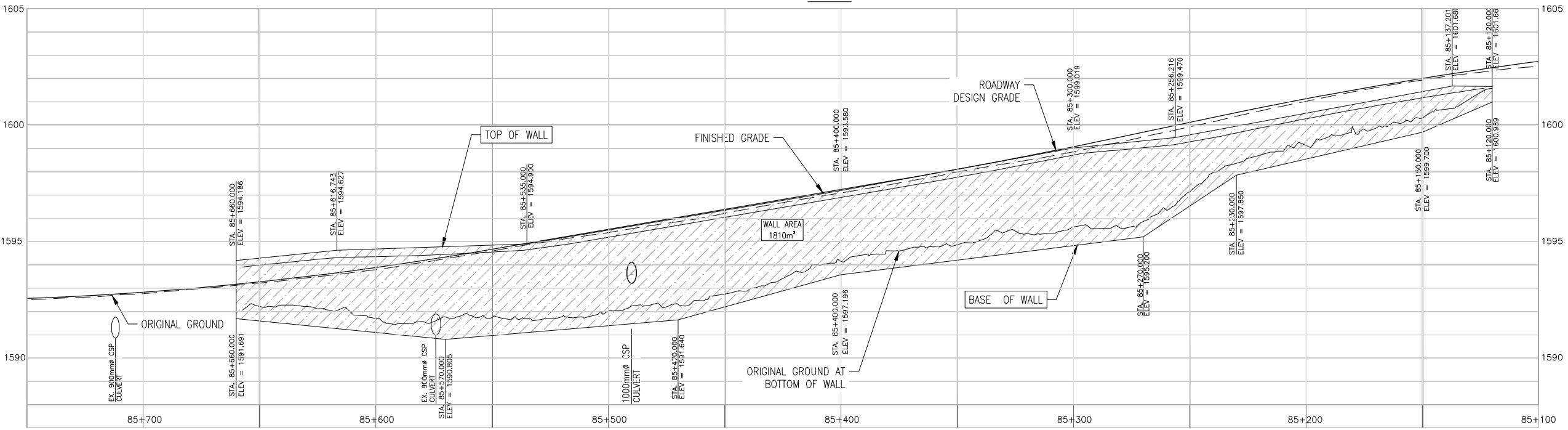
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Project No./No. du projet	Asset No./No. du bien
201612	
Drawing Reference No./No. de référence du dessin	Sheet No./No. de la feuille
2511-00545-0	C402

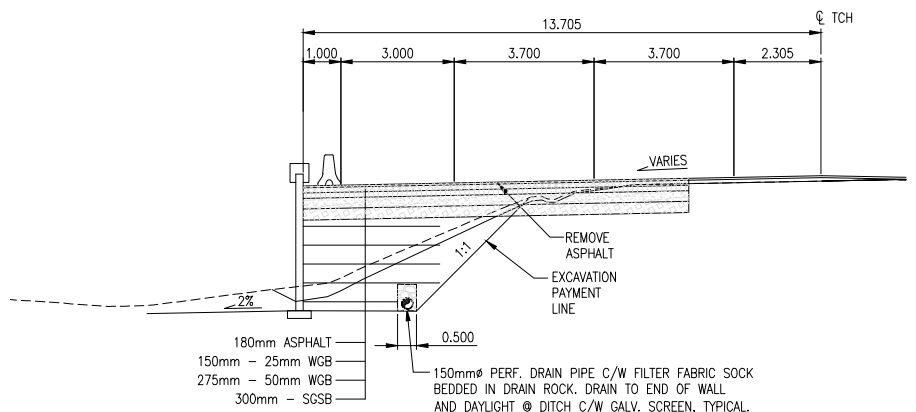
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 Plotter:



PLAN



PROFILE



TYPICAL SECTION (@ STA. 85+400)  
SCALE: 1:100

CONTROL POINTS TABLE			
Point	Northing	Easting	Elevation
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1895	5699491.939	546201.500	1595.075

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	2016.06.03	ISSUED FOR TENDER	K.W.	S.A.

Revision / Révision	
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 STA.m.p  
Sceau de l'expert-conseil

Eng. STA.m.p  
Sceau de l'ingénieur

Client/client

**Parks Canada** L'Agence Parcs  
Canada Canada  
Western and Northern Region Ouest et Nord  
Northern Region Région

Consultant's Name  
Nom de l'expert-conseil

**McElhanney**

Project title/Titre du projet

**TRANS-CANADA HIGHWAY No.1**  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK

Drawing title/Titre du dessin

**GENERAL ARRANGEMENT**  
STA. 85+657.28 TO STA. 85+120.00  
WALL No. 1

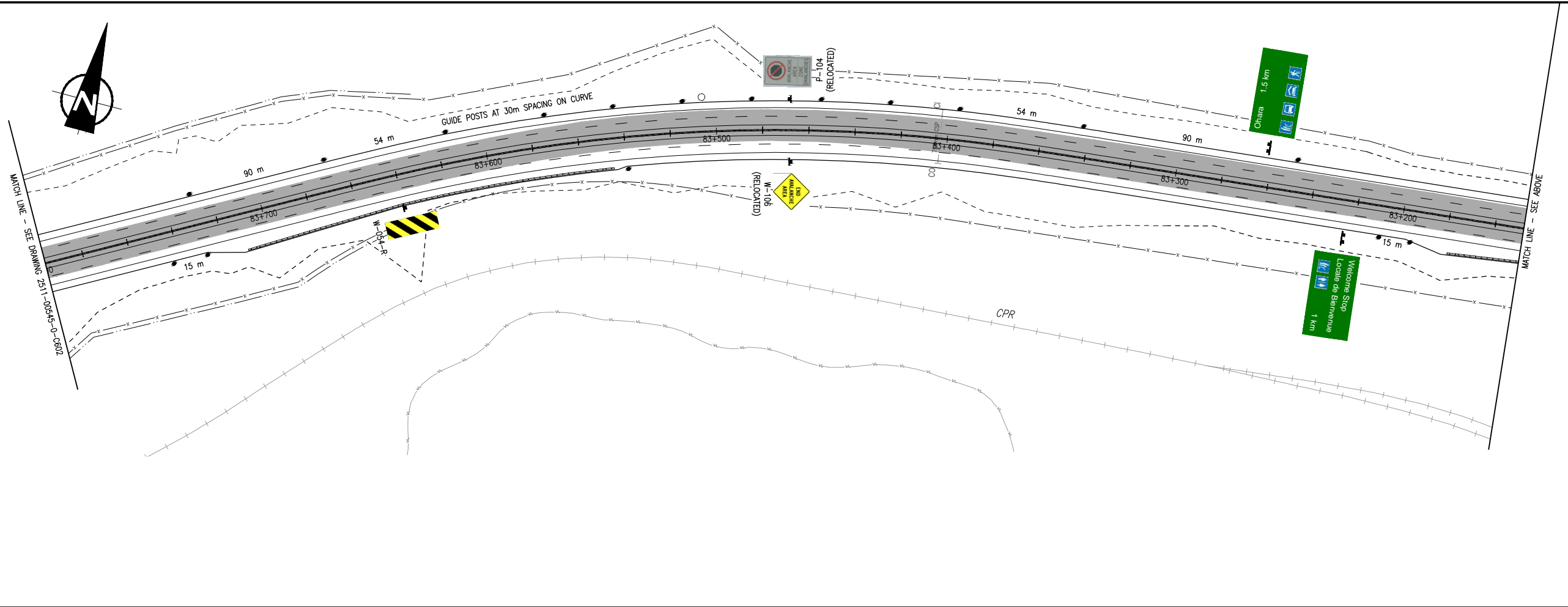
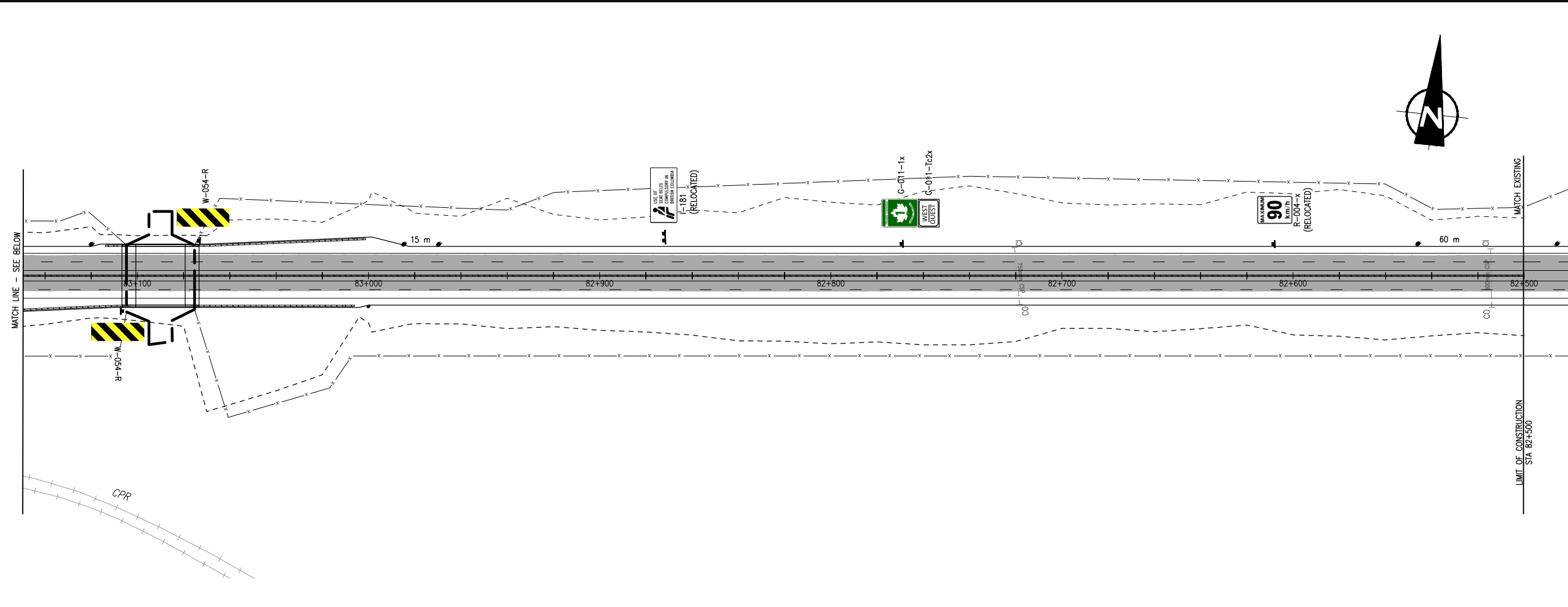
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	K.W.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.B.	R.B.	H: 1:1000 V: 1:100

Parks Canada Project Manager/Administrateur de Projets Parcs Canada		
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		<b>C501</b>
Drawing Reference No./No. de référence du dessin		
<b>2511-00545-0</b>		

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1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

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

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

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

Consultant's Name  
Nom de l'expert-conseil

Project title/Titre du projet  
**TRANS-CANADA HIGHWAY No. 1**  
 km 80 to km 88  
**TCH TWINNING**  
 YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**PAVEMENT MARKING  
 & SIGNAGE PLAN**  
 STA 82+500 TO STA 83+800  
**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
R.P.	S.A.	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

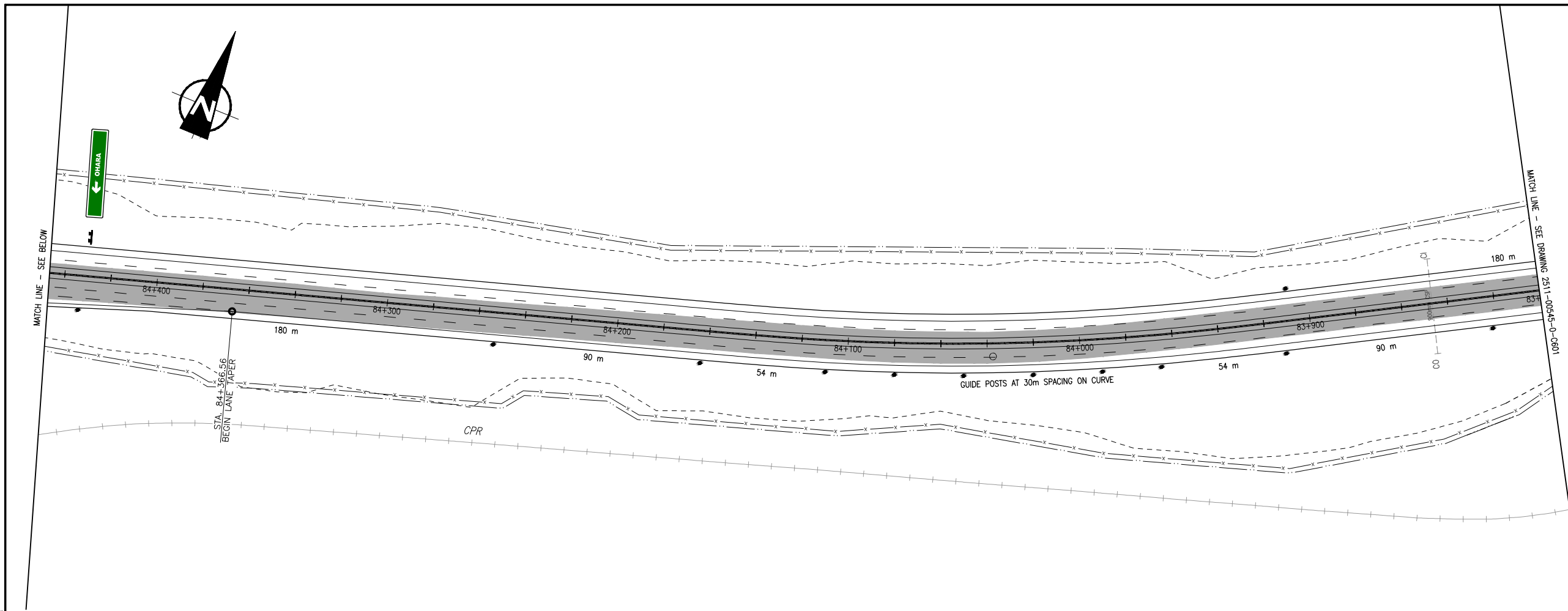
Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
201612		C601
Drawing Reference No./No. de référence du dessin		
2511-00545-0		

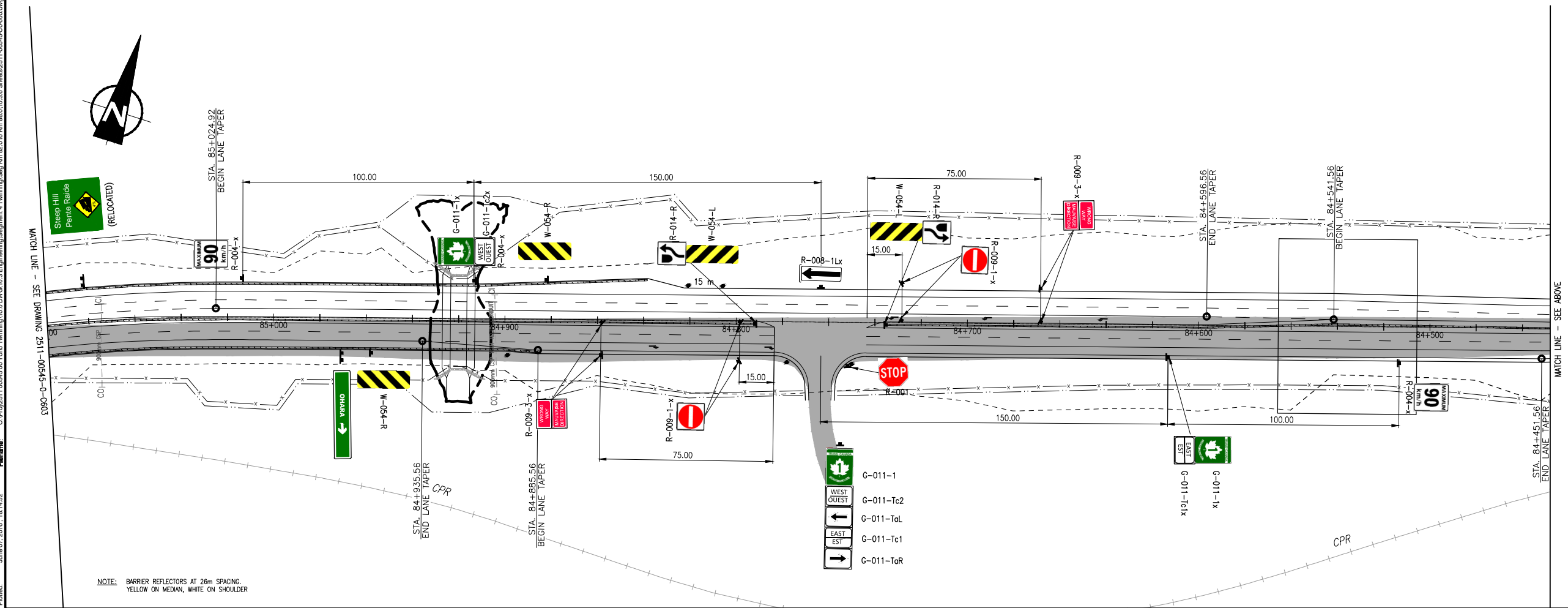
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 Plotter:

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1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
A detail number numéro de détail		A		
B source drawing no. de dessin no.		B		
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

**McElhanny**

Project title/Titre du projet

**TRANS-CANADA HIGHWAY No. 1**  
km 80 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK

Drawing title/Titre du dessin

**PAVEMENT MARKING  
& SIGNAGE PLAN  
STA 83+800 TO STA 85+100  
NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	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
201612		C602

Drawing Reference No./No. de référence du dessin

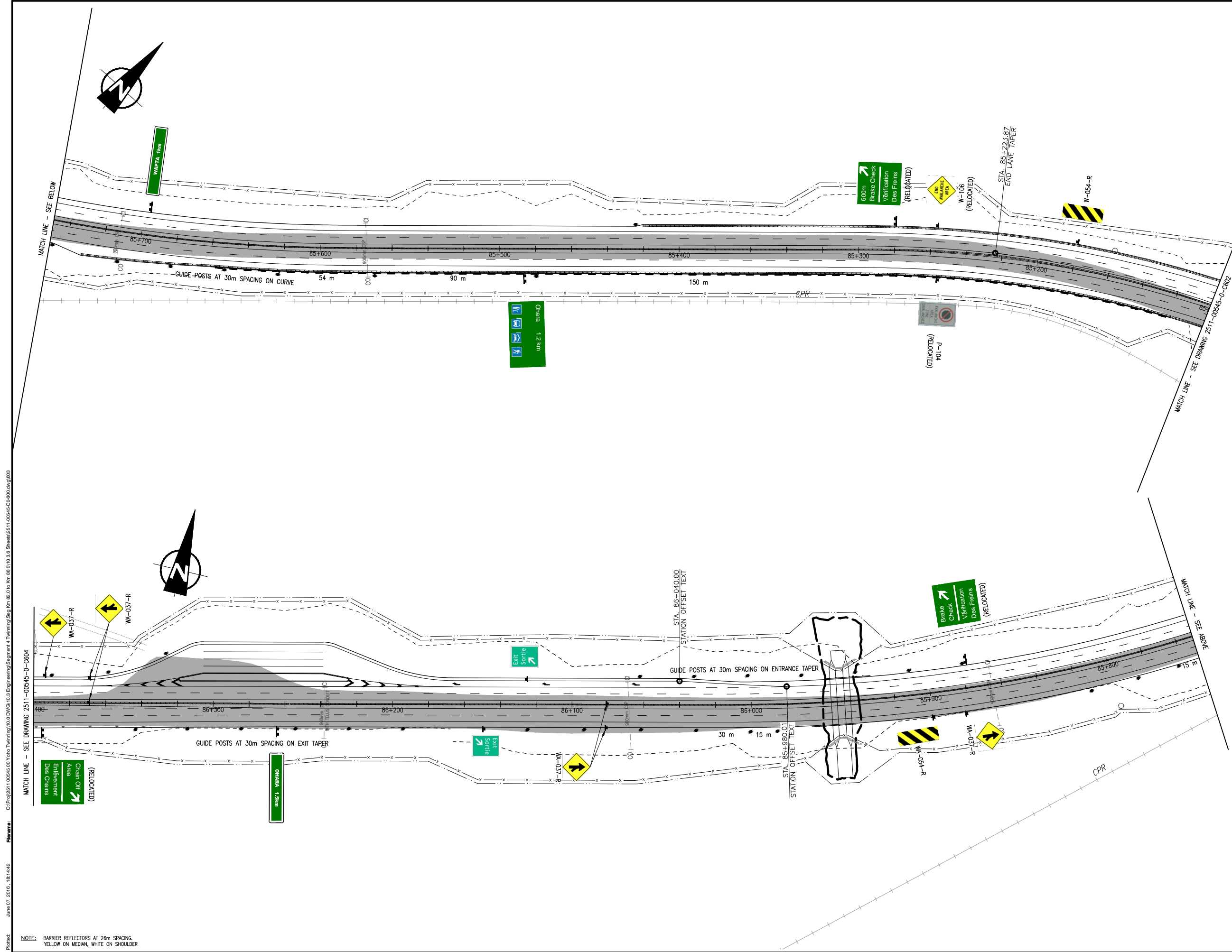
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 Plotter: June 07, 2016 - 18:14:52

NOTE: BARRIER REFLECTORS AT 26m SPACING,  
YELLOW ON MEDIAN, WHITE ON SHOULDER

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Revision / Revision	
A	A
B	B
C	C

Consultant's Stamp Scou de l'expert-conseil	Eng. Stamp Scou 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 No. 1**  
 km 80 to km 88  
**TCH TWINNING**  
 YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**PAVEMENT MARKING  
 & SIGNAGE PLAN**  
 STA 85+100 TO STA 86+400  
**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
R.P.	S.A.	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada	
Client Acceptance/Acceptation du client	Approved by/Approuvé par
Project No./No. du projet	Asset No./No. du bien
201612	
Drawing Reference No./No. de référence du dessin	Sheet No./No. de la feuille
2511-00545-0	C603

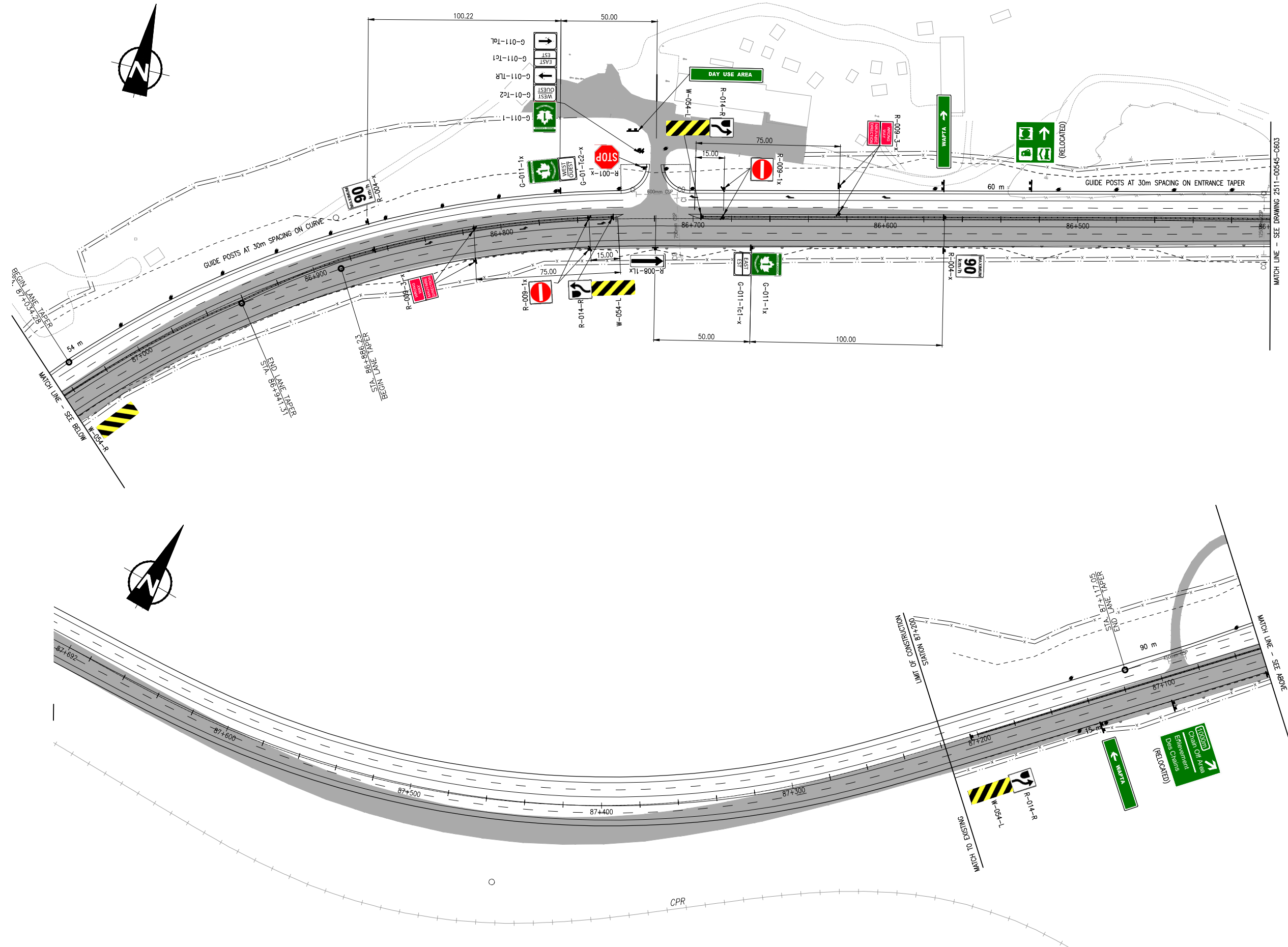
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 June 07, 2016 - 18:44:42  
 Plotter:

NOTE: BARRIER REFLECTORS AT 26m SPACING.  
 YELLOW ON MEDIAN, WHITE ON SHOULDER



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MATCH LINE - SEE DRAWING 2511-00545-C603

MATCH LINE - SEE BELOW

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Revision / Revision	
A	A
B	B
C	C

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 No. 1**  
km 80 to km 88  
TCH TWINNING

**YOHO NATIONAL PARK**

Drawing title/Titre du dessin

**PAVEMENT MARKING  
& SIGNAGE PLAN**  
STA 86+400 TO STA 87+200  
**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
R.P.	S.A.	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

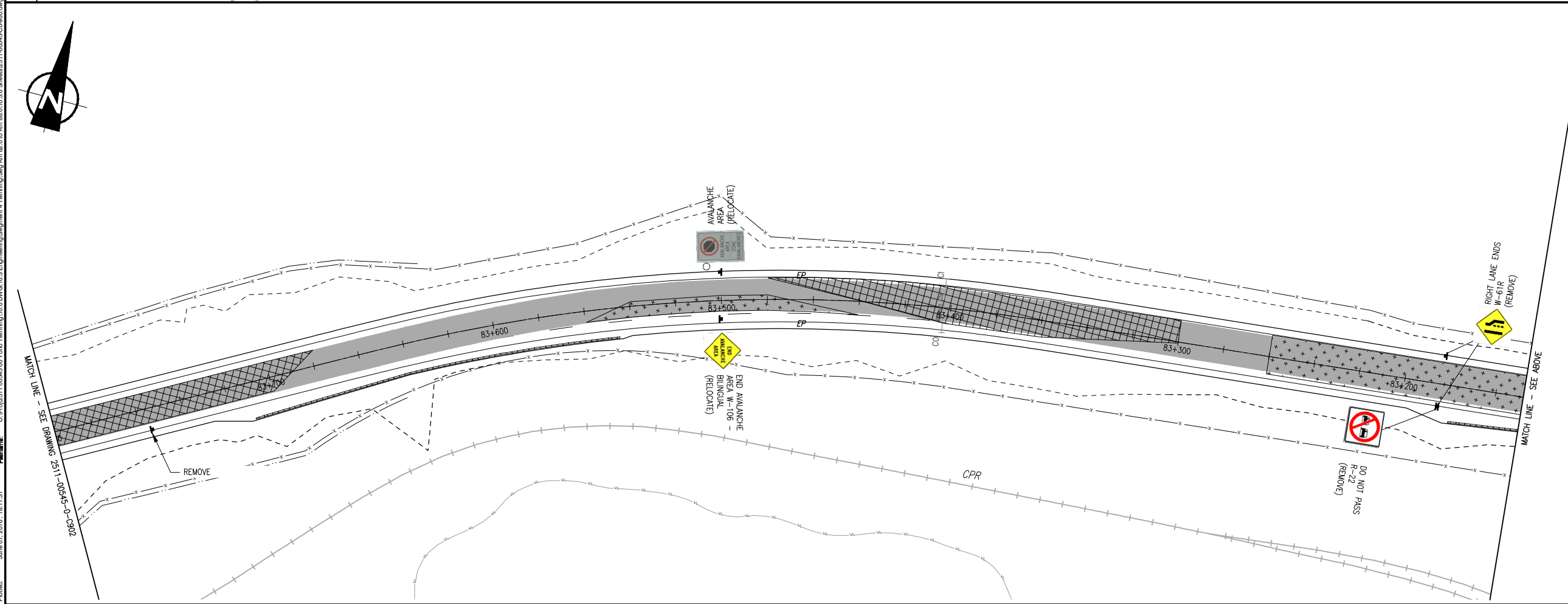
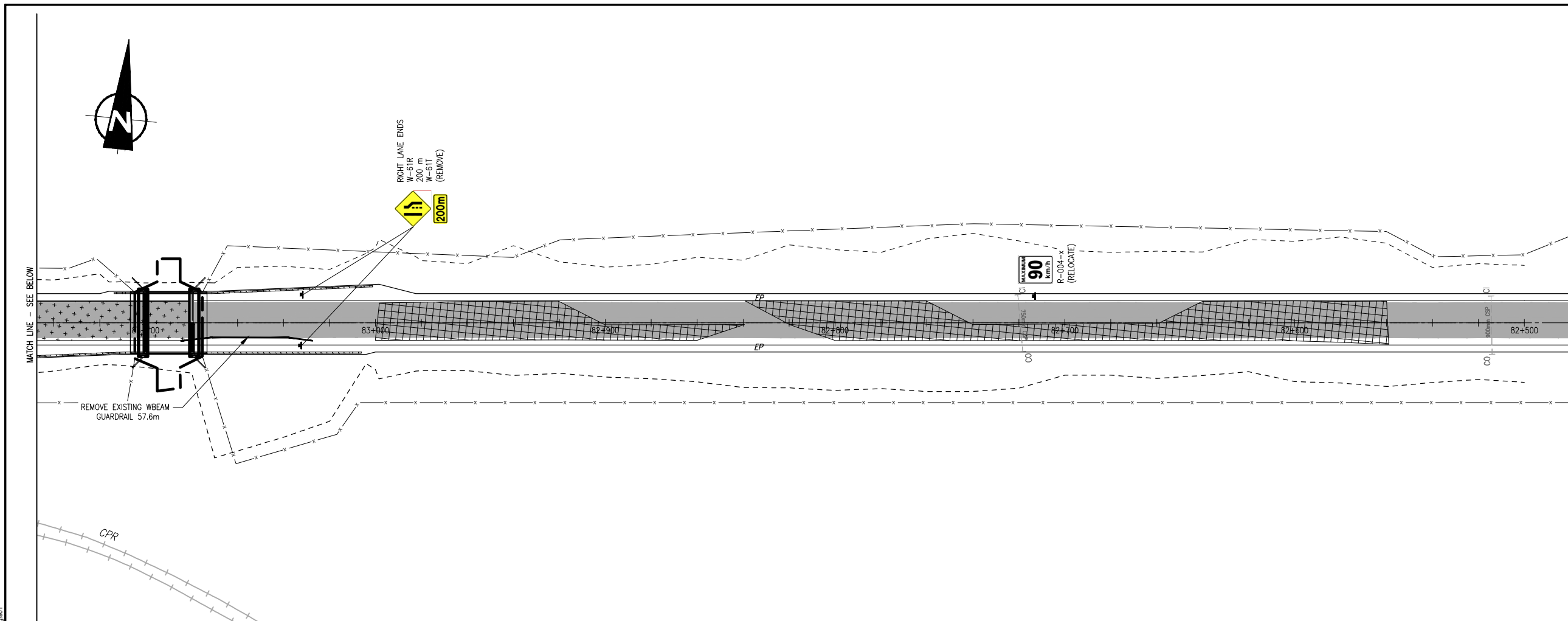
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
201612		<b>C604</b>
Drawing Reference No./No. de référence du dessin		
<b>2511-00545-0</b>		

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June 07, 2016 - 18:14:34  
Plotter:

NOTE: BARRIER REFLECTORS AT 26m SPACING.  
YELLOW ON MEDIAN, WHITE ON SHOULDER

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.

Revision / Revision	
A	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 / Sciau de l'expert-conseil

Eng. Stamp / Sciau de l'ingénieur

Client/client

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

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

**McElhanney**

Project title/Titre du projet

**TRANS-CANADA HIGHWAY No.1  
 km 82 to km 88  
 TCH TWINNING  
 YOHO NATIONAL PARK**

Drawing title/Titre du dessin

**PAVEMENT REMOVAL PLAN  
 STA 82+500 TO STA 83+800**

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

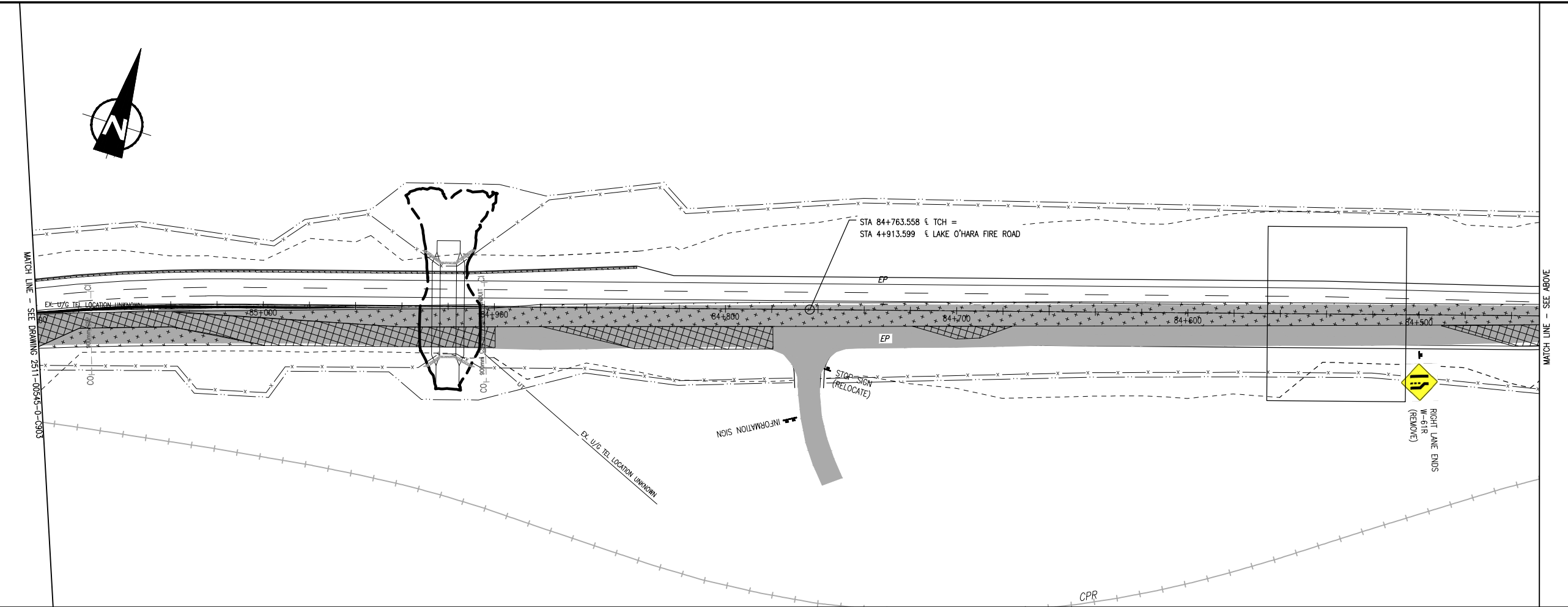
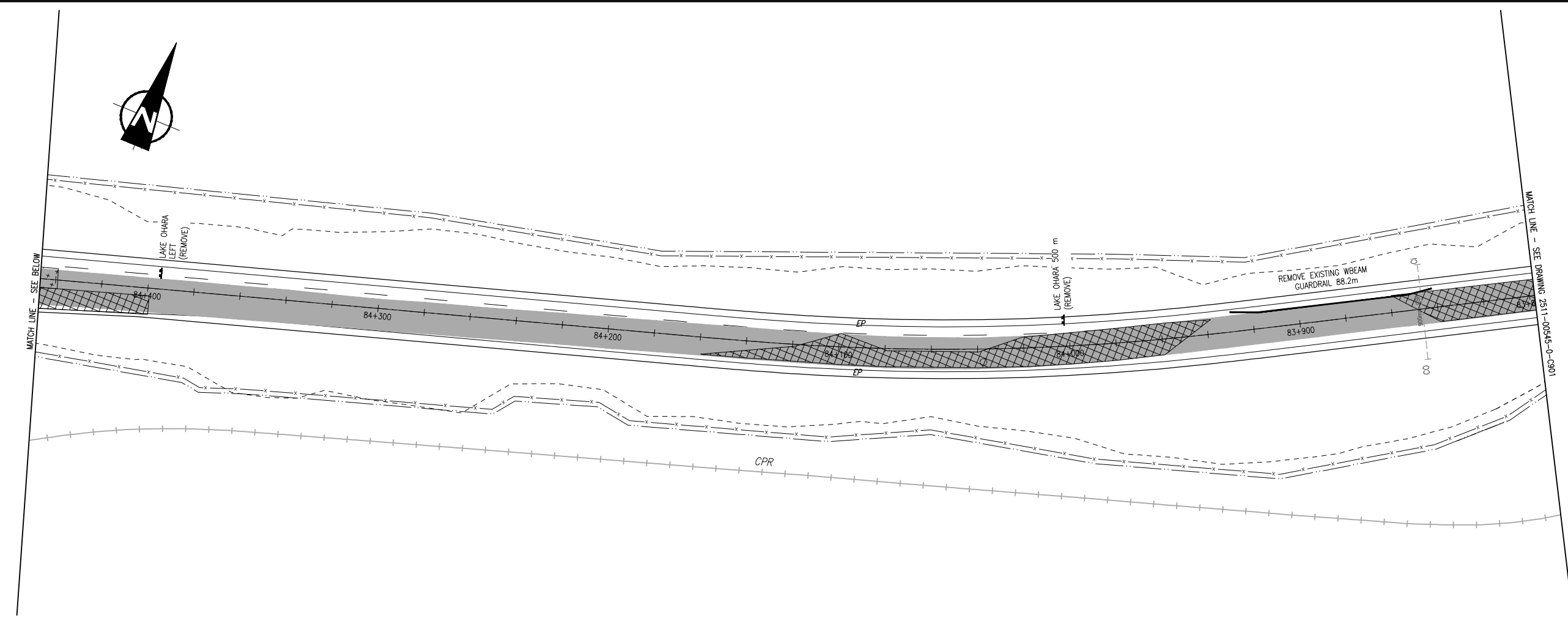
Client Acceptance/Acceptation du client

Approved by/Approuvé par

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		C901
Drawing Reference No./No. de référence du dessin		
2511-00545-0		

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 Plotter:

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 Plotter: June 07, 2016 - 18:17:27



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1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A	A
C	B
	C

Consultant's Stamp  
Scouu de l'expert-conseil

Eng. Stamp  
Scouu de l'ingénieur

Client/client

Parks Canada Agency 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  
**TRANS-CANADA HIGHWAY No.1  
km 82 to km 88  
TCH TWINNING  
YOHO NATIONAL PARK**

Drawing title/Titre du dessin  
**PAVEMENT REMOVAL PLAN  
STA 83+800 TO STA 85+100**

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	1:1000

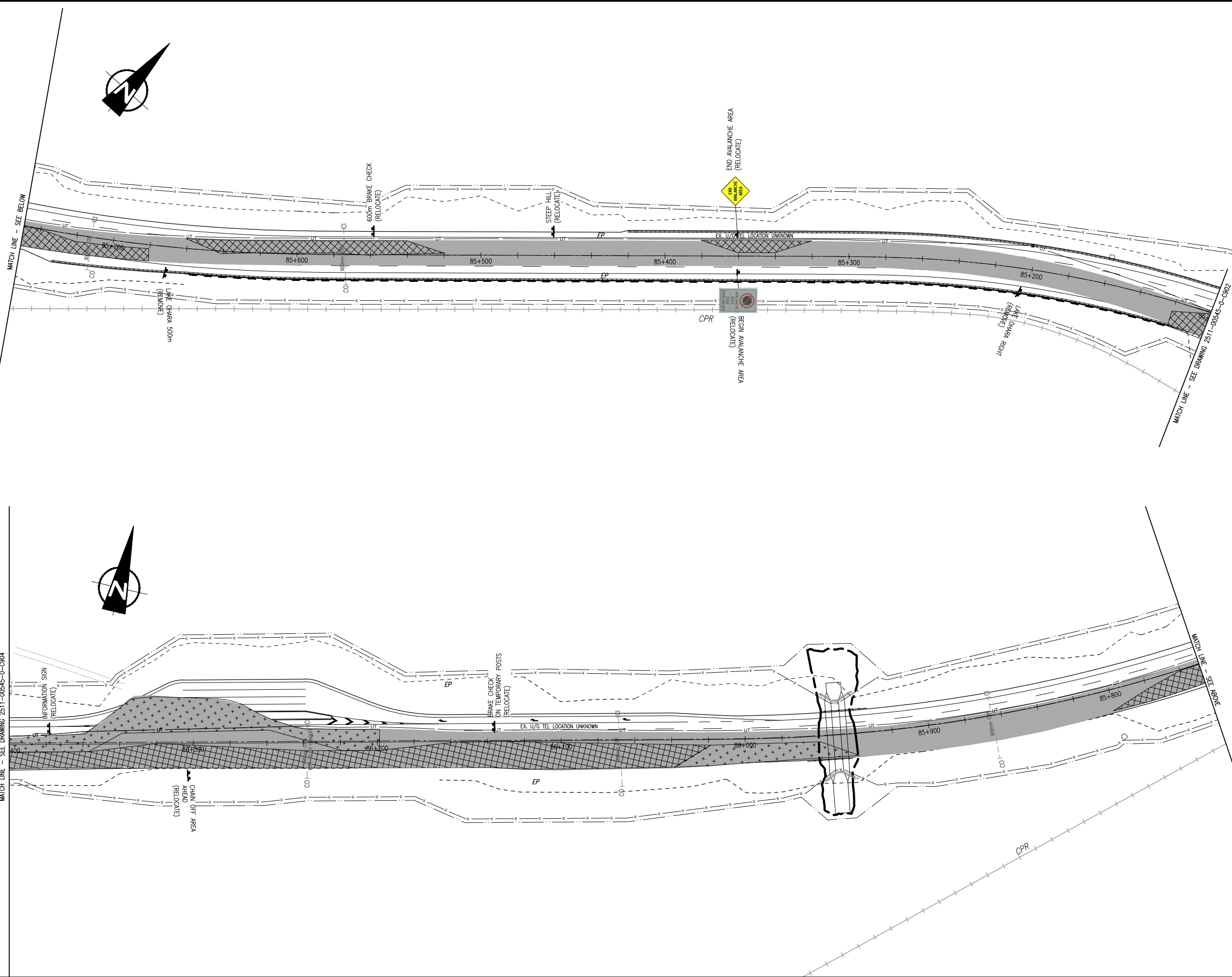
Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acceptation du client	Approved by/Approuvé par

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		C902

Drawing Reference No./No. de référence du dessin  
**2511-00545-0**

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1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A	A
B	B
C	C

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  
**TRANS-CANADA HIGHWAY No.1**  
 km 82 to km 88  
**TCH TWINNING**  
 YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**PAVEMENT REMOVAL PLAN**  
 STA 85+100 TO STA 86+400

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
R.P.	S.A.	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

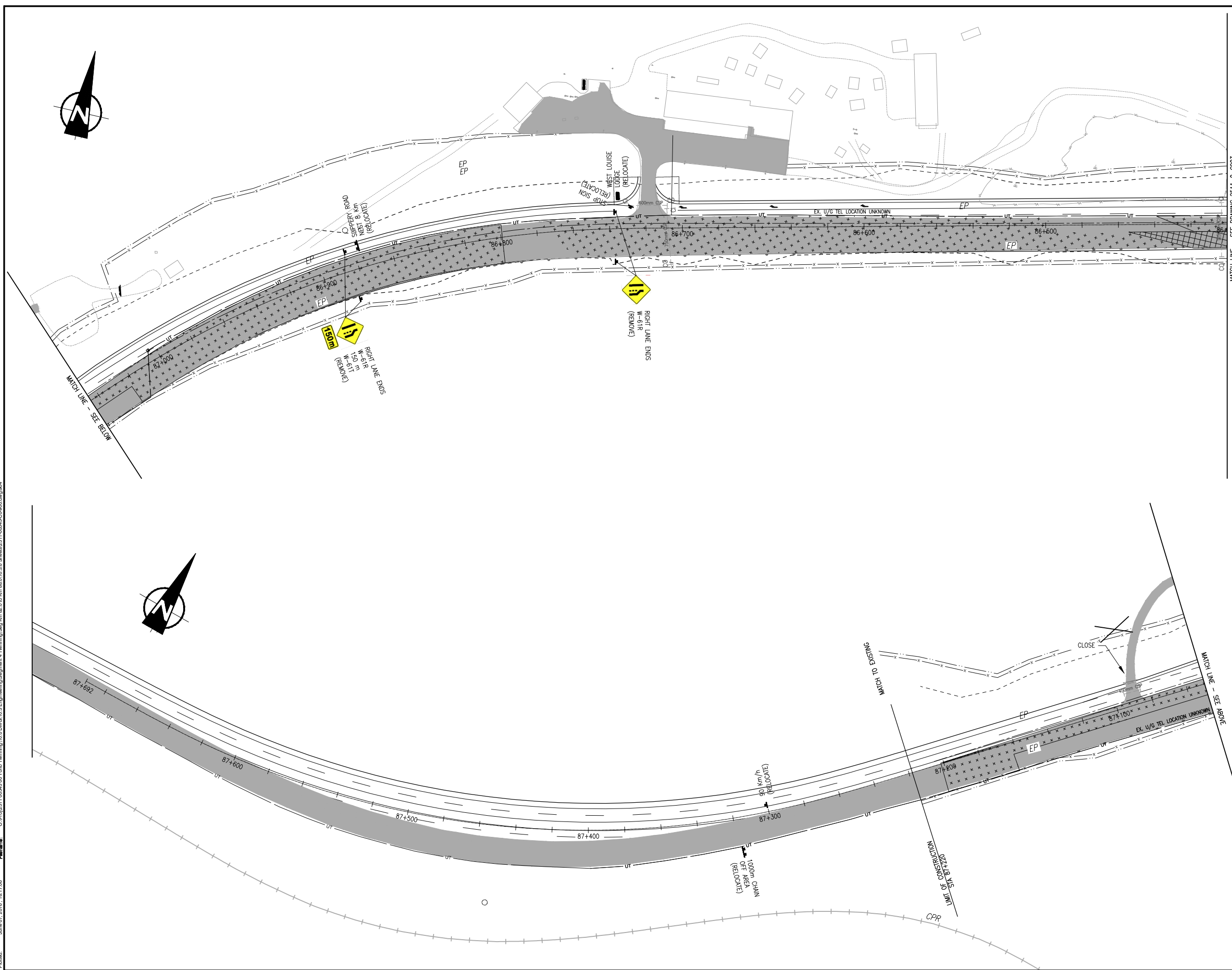
Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Parks Canada Responsible Officer/Agent Responsable Parcs Canada      Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Project No./No. du projet	Asset No./No. du bien	Sheet No./ No. de la feuille
201612		<b>C903</b>

Drawing Reference No./No. de référence du dessin  
**2511-00545-0**

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 June 07, 2016 - 18:17:06  
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MATCH LINE - SEE DRAWING 2511-0-C903

1	2016.06.03	ISSUED FOR TENDER	M.B.	S.A.
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

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

Consultant's Stamp Scellé de l'expert-conseil	Eng. Stamp Scellé 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 No.1**  
 km 82 to km 88  
**TCH TWINNING**  
 YOHO NATIONAL PARK

Drawing title/Titre du dessin  
**PAVEMENT REMOVAL PLAN**  
 STA 86+400 TO STA 87+200

**NOT FOR CONSTRUCTION**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	M.B.	2016.06.03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
R.P.	S.A.	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		
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
201612		C904
Drawing Reference No./No. de référence du dessin		
2511-00545-0		