



McElhanney

McElhanney Consulting Services Ltd.

for / pour



Parks Canada Agency
Western and Northern
Region

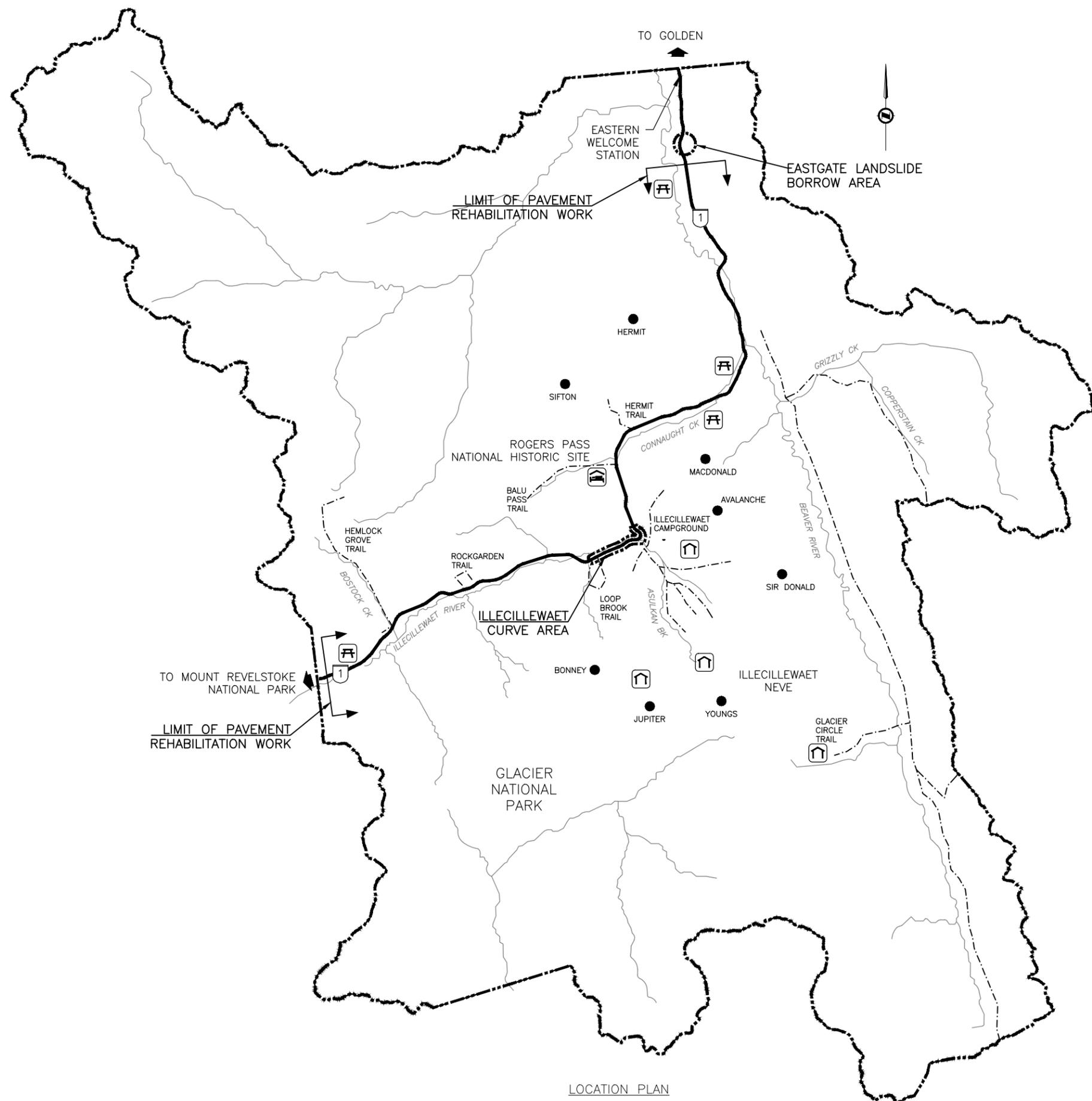
L'Agence Parcs Canada
Ouest et Nord
du Canada

TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS - PHASE 1A
KM 26.1 TO KM 28.2
PAVEMENT REHABILITATION KM 3.8 TO KM 43.8

ROGERS PASS
GLACIER NATIONAL PARK, BC

ISSUED FOR TENDER

FILE: G:\PROJECTS\511.0361.00.PARKS - ENG.CONST.SVCS.GLACIER.TCPAVING\10.DRAWINGS\10.3.SHEET.FEES\PIA.001.LOC.PLDWG - PLOTTED: 2018/02/16 8:29 AM



LOCATION PLAN

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0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Eng. Stamp / Soceau de l'ingénieur

Client

Parks Canada Agency
Western and Northern
Region

L'Agence Parcs Canada
Ouest et Nord
du Canada

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

McElhanney
McElhanney Consulting Services Ltd.

Project Title / Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**
ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title / Titre du dessin

LOCATION PLAN

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.15
Designed by / Conçu par DRL	Reviewed by / Revisé par RAS	Scale / Echelle

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du-bien	Sheet No. / No. de la feuille 02
Drawing Reference No. / No. de référence du dessin 001		

SURVEY CONTROL POINTS			
ID	NORTHING	EASTING	ELEVATION
CPT 780	5680526.976	464493.298	1248.560
CPT 796	5679837.261	464497.815	1192.992
CPT 814	5680297.993	464607.869	1234.304
CPT 1455	5680052.290	464902.744	1211.146
CPT 1456	5679814.582	464759.060	1200.668
CPT 1994	5679449.611	463599.055	1149.788
CPT 1995	5679896.317	464863.279	1204.969
CPT 2659	5680365.660	464547.542	1239.457
CPT 2660	5680189.946	464829.658	1220.311
CPT 2661	5679920.042	464875.619	1205.581
CPT 2662	5679806.887	464632.247	1196.654
CPT 2663	5679800.752	464351.926	1188.966
CPT 2664	5679782.617	464365.371	1188.082
CPT 2665	5679742.208	464280.176	1184.554
CPT 2666	5679512.319	463926.810	1168.607
CPT 2668	5679398.622	463599.539	1155.523
CPT 2669	5679251.460	463249.711	1148.318
CPT 2670	5679365.386	463558.829	1154.659
CPT 2675	5679660.324	464165.548	1179.148
CPT 2743	5679448.484	463770.281	1161.534

ALL COORDINATES INDICATED WITHIN THIS DRAWING SET ARE GRID (NAD83 CSRS UTM ZONE 11).
ALL ELEVATIONS ARE GEODETIC.



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0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS
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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Eng. Stamp / Sceau de l'ingénieur

[Signature]

18/02/16

Client

Parks Canada Agency / Western and Northern Region

L'Agence Parcs Canada / Ouest et Nord du Canada

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

McElhanney
McElhanney Consulting Services Ltd.

Project Title / Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title / Titre du dessin

**LEGEND
& DRAWING INDEX**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du-bien	Sheet No. / No. de la feuille 03
Drawing Reference No. / No. de référence du dessin 002		

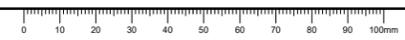
DRAWING INDEX				CURRENT
SHEET	DWG	DRAWING TITLE		REVISION
1	000	COVER		0 1 2 3 4 5 6
2	001	LOCATION PLAN		0 1 2 3 4 5 6
3	002	LEGEND & DRAWING INDEX		0 1 2 3 4 5 6
4	110	PLAN & PROFILE STA 25+850 TO STA 26+500		0 1 2 3 4 5 6
5	111	PLAN & PROFILE STA 26+500 TO STA 27+150		0 1 2 3 4 5 6
6	112	PLAN & PROFILE STA 27+150 TO STA 27+800		0 1 2 3 4 5 6
7	113	PLAN & PROFILE STA 27+800 TO STA 28+450		0 1 2 3 4 5 6
8	115	PLAN & PROFILE - WESTBOUND STA 125+800 TO STA 126+300		0 1 2 3 4 5 6
9	116	PLAN & PROFILE - WESTBOUND STA 126+300 TO STA 126+800		0 1 2 3 4 5 6
10	117	PLAN & PROFILE - WESTBOUND STA 126+800 TO STA 127+300		0 1 2 3 4 5 6
11	118	PLAN & PROFILE - EASTBOUND STA 225+850 TO STA 226+500		0 1 2 3 4 5 6
12	119	PLAN & PROFILE - EASTBOUND STA 226+500 TO STA 227+150		0 1 2 3 4 5 6
13	301	TYPICAL SECTIONS TRANS-CANADA HIGHWAY		0 1 2 3 4 5 6
14	302	TYPICAL SECTIONS MISCELLANEOUS DETAILS		0 1 2 3 4 5 6
15	406	INTERSECTION DETAILS ILLECILLEWAET CAMPGROUND & ASULKAN TRAILHEAD		0 1 2 3 4 5 6
16	407	INTERSECTION DETAILS CP ACCESS & WEST TURNAROUND		0 1 2 3 4 5 6
17	408	INTERSECTION DETAILS GUN PLATFORM RELOCATION (GLACIER CP)		0 1 2 3 4 5 6
18	605	SIGNAGE & PAVEMENT MARKINGS STA 25+850 TO STA 27+150		0 1 2 3 4 5 6
19	606	SIGNAGE & PAVEMENT MARKINGS STA 27+150 TO STA 28+450		0 1 2 3 4 5 6
20	700	CULVERT INSTALLATION TABLE		0 1 2 3 4 5 6
21	901	EAST GATE LANDSLIDE BORROW EXCAVATION AREA STA 2+900 TO STA 4+200		0 1 2 3 4 5 6
22	1001	PAVEMENT REHABILITATION & ROADWAY REPAIRS STA 0+000 TO STA 5+650		0 1 2 3 4 5 6
23	1002	PAVEMENT REHABILITATION & ROADWAY REPAIRS STA 5+650 TO STA 12+150		0 1 2 3 4 5 6
24	1003	PAVEMENT REHABILITATION & ROADWAY REPAIRS STA 12+150 TO STA 18+650		0 1 2 3 4 5 6
25	1004	PAVEMENT REHABILITATION & ROADWAY REPAIRS STA 18+650 TO STA 25+150		0 1 2 3 4 5 6
26	1005	PAVEMENT REHABILITATION & ROADWAY REPAIRS STA 25+150 TO STA 31+650		0 1 2 3 4 5 6
27	1006	PAVEMENT REHABILITATION & ROADWAY REPAIRS STA 31+650 TO STA 38+150		0 1 2 3 4 5 6
28	1007	PAVEMENT REHABILITATION & ROADWAY REPAIRS STA 38+150 TO STA 43+794		0 1 2 3 4 5 6

REVISIONS SHADING REPRESENTS CURRENT REVISION FOR EACH DRAWING

0 ISSUED FOR TENDER - FEBRUARY 16, 2018

ROAD CONSTRUCTION			HATCHES		
EXISTING	DESCRIPTION	PROPOSED	EXISTING	DESCRIPTION	PROPOSED
	KM MARKER			EXISTING PAVED ROAD	
	CONTROL LINE AND STATIONING	21+500		PARTIAL DEPTH MILLING & INLAY (50mm)	
	ALIGNMENT TIE POINTS & STATIONING	ST 21+525.847		NEW PAVEMENT	
	EDGE OF GRAVEL SHOULDER			PROFILE MILLING & INLAY (VARIABLE DEPTH)	
	EDGE OF ROAD			FULL RECONSTRUCTION	
	ARCHAEOLOGICAL SITE			OVERLAY (50mm)	
	APPROXIMATE BOTTOM OF FILL	B.O.F.		REMOVALS	
	APPROXIMATE TOP OF CUT	T.O.C.			
	DITCH				
	DRAINAGE FLOW DIRECTION				
	RETAINING WALL	RETAINING WALL			
	LIGHT STANDARD				
	SURVEY CONTROL POINT	CPT 870			
	DELINEATOR POST	ODP			
	OVERHEAD POWER POLE				
	FIBRE OPTIC LINE				
	FIBRE OPTIC MANHOLE				
	UNDERGROUND POWER LINE				
	TREE LINE				
	CULVERT				
	RIP RAP APRON/FLUME				
	BOREHOLE				
	LANE INFORMATION	PROP 3.70			
	ALIGNMENT SEGMENT LABEL	C2			
	CURVE INFO (NON ALIGNMENT)	C203			
	GUN PLATFORM				
	CONCRETE BARRIER				
	CLEARING LIMIT DAYLIGHT				
	CONTOUR	1210			
	SIGN				
PROFILES			ALIGNMENT ABBREVIATIONS		
EXISTING	DESCRIPTION	PROPOSED	BP - ALIGNMENT BEGINNING		
	FINISHED GROUND		EP - ALIGNMENT END		
	EXISTING GROUND		PC - POINT OF CURVATURE		
	LEFT DITCH		PT - POINT OF TANGENCY		
	RIGHT DITCH		TC - TANGENT TO CURVE		
	CULVERT END		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		
PROFILES			MISCELLANEOUS ABBREVIATIONS		
EXISTING	DESCRIPTION	PROPOSED	SHLD - SHOULDER		
	FINISHED GROUND		EOP - EDGE OF PAVEMENT		
	EXISTING GROUND		EX - EXISTING		
	LEFT DITCH		GP - GUN PLATFORM		
	RIGHT DITCH		CSP - CORRUGATED STEEL PIPE		
	CULVERT END		CP - CANADIAN PACIFIC		
			RW - RIGHT OF WAY		

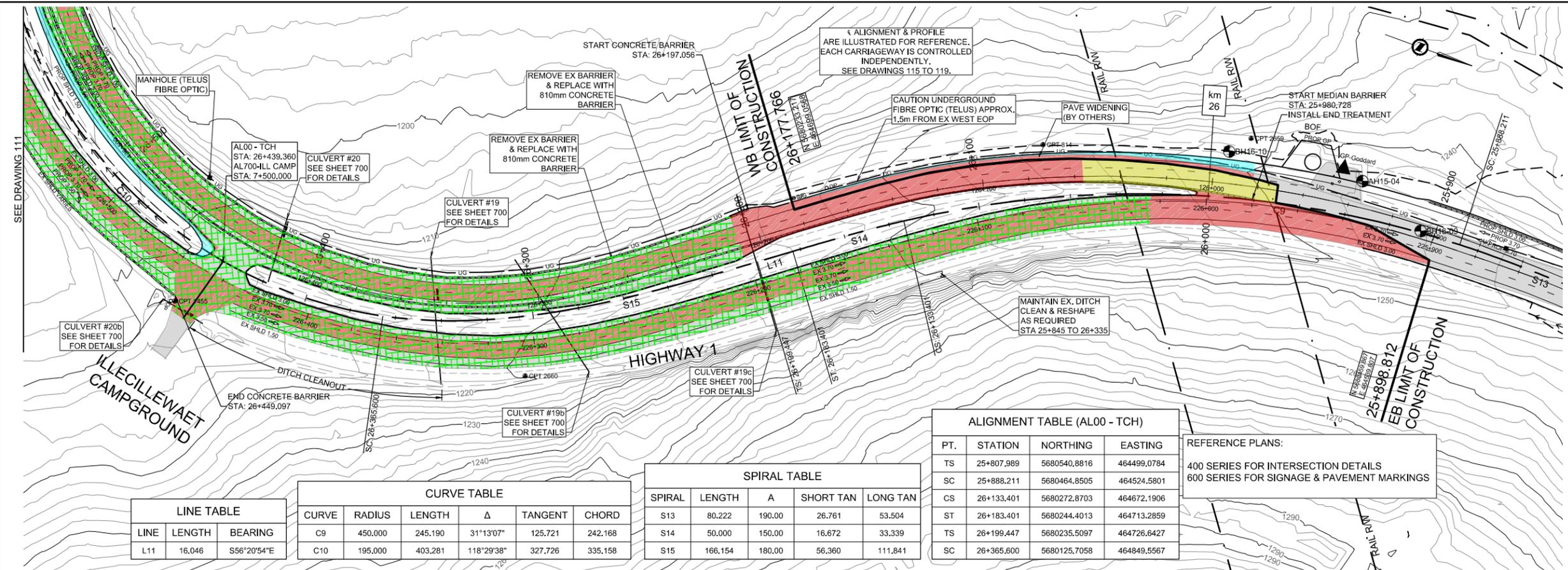
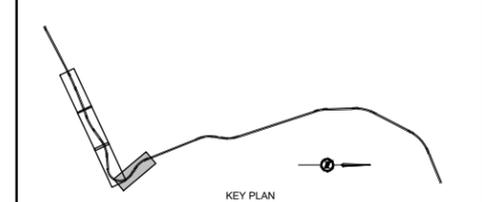
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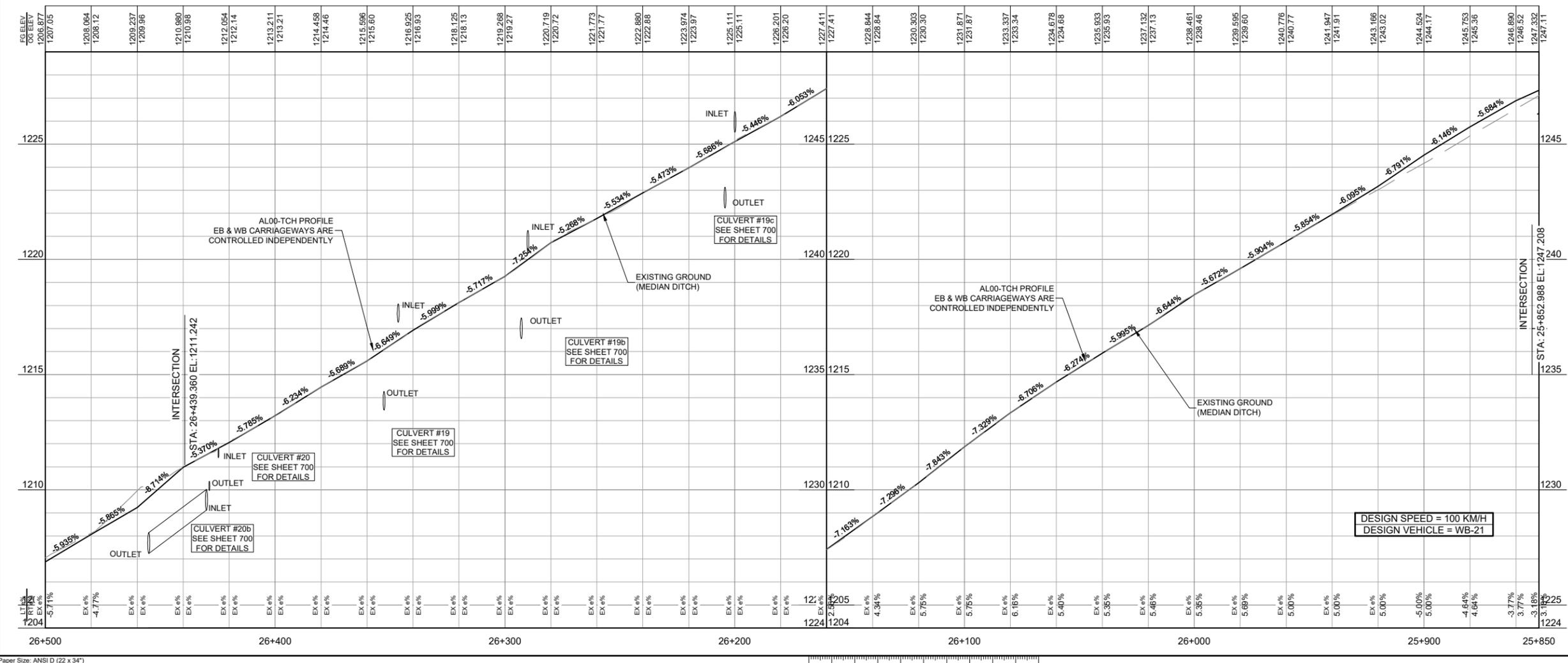
LINE TABLE		
LINE	LENGTH	BEARING
L11	16,046	S56°20'54"E

CURVE TABLE					
CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C9	450,000	245.190	31°13'07"	125.721	242.168
C10	195,000	403.281	118°29'38"	327.726	335.158

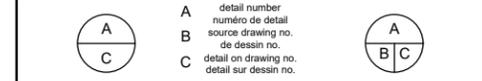
SPIRAL TABLE				
SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S13	80.222	190.00	26.761	53.504
S14	50.000	150.00	16.672	33.339
S15	166.154	180.00	56.360	111.841

ALIGNMENT TABLE (AL00 - TCH)			
PT.	STATION	NORTHING	EASTING
TS	25+807.989	5680540.8816	464499.0784
SC	25+888.211	5680464.8505	464524.5801
CS	26+133.401	5680272.8703	464672.1906
ST	26+183.401	5680244.4013	464713.2859
TS	26+199.447	5680235.5097	464726.6427
SC	26+365.600	5680125.7058	464849.5567

REFERENCE PLANS:
400 SERIES FOR INTERSECTION DETAILS
600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS



Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS



Consultant's Stamp: Soeur de l'expert-conseil
 Eng. Stamp: R. ELIASSON, 5711 COLLEGE AVENUE, WESTYORK, ONTARIO M2L 1A7
 18/02/16

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

Consultant's Name: McElhanney
 McElhanney Consulting Services Ltd.

Project Title: TRANS-CANADA HIGHWAY ILLECILLEWAET CURVE SAFETY IMPROVEMENTS PHASE 1A & PAVEMENT REHABILITATION ROGERS PASS GLACIER NATIONAL PARK, BC

Drawing Title: PLAN & PROFILE
 TRANS-CANADA HIGHWAY STA 25+850 TO STA 26+500

Surveyed by / Arpenté par: MCSL	Drawn by / Dessiné par: JKR	Date: 2018.02.15
Designed by / Conçu par: DRL	Reviewed by / Révisé par: RAS	Scale / Echelle: 1:1000

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

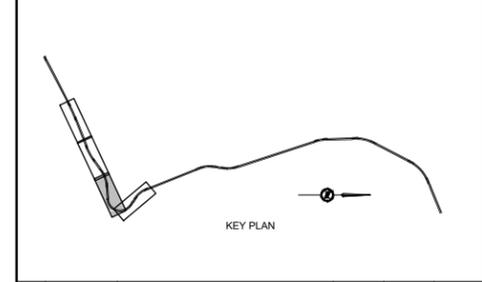
Project No. / No. du projet: 566-04	Asset No. / No. du bien: ---	Sheet No. / No. de la feuille: 04
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FILE: G:\PROJECTS\511-0351-00-PARKS-ENG-CONS-EVCS-GLACIER-TCH-DRAWINGS\10-DRAWINGS\10.3-SHEET FILES\PIA_00-PLAN PROFILE.DWG - PLOTTED: 2018/02/16 8:29 AM
 Paper Size: ANSI D (22 x 34")

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0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS

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

Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

Parks Canada Agency
Western and Northern Region

L'Agence Parcs Canada
Ouest et Nord du Canada

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAEET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**
ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

PLAN & PROFILE

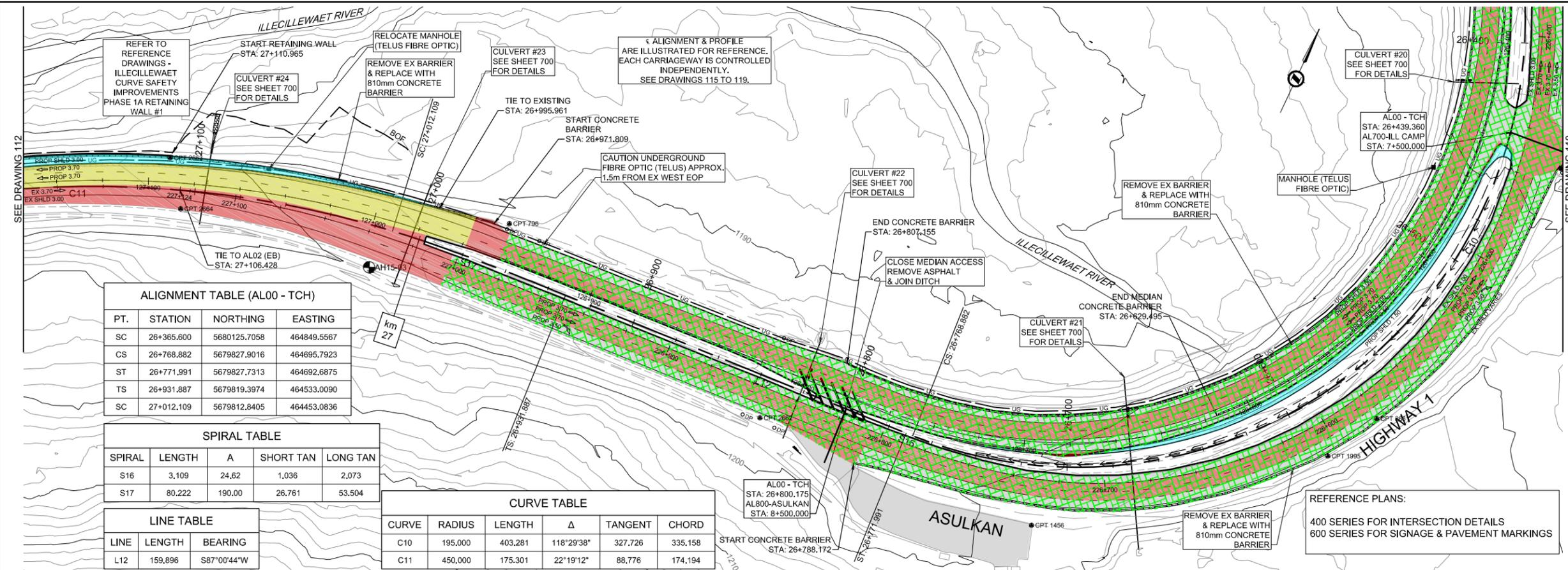
**TRANS-CANADA HIGHWAY
STA 26+500 TO STA 27+150**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.15
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 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 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 05
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ALIGNMENT TABLE (AL00 - TCH)

PT.	STATION	NORTHING	EASTING
SC	26+365.600	5680125.7058	464849.5567
CS	26+768.882	5679827.9016	464695.7923
ST	26+771.991	5679827.7313	464692.6875
TS	26+931.887	5679819.3974	464533.0090
SC	27+012.109	5679812.8405	464453.0836

SPIRAL TABLE

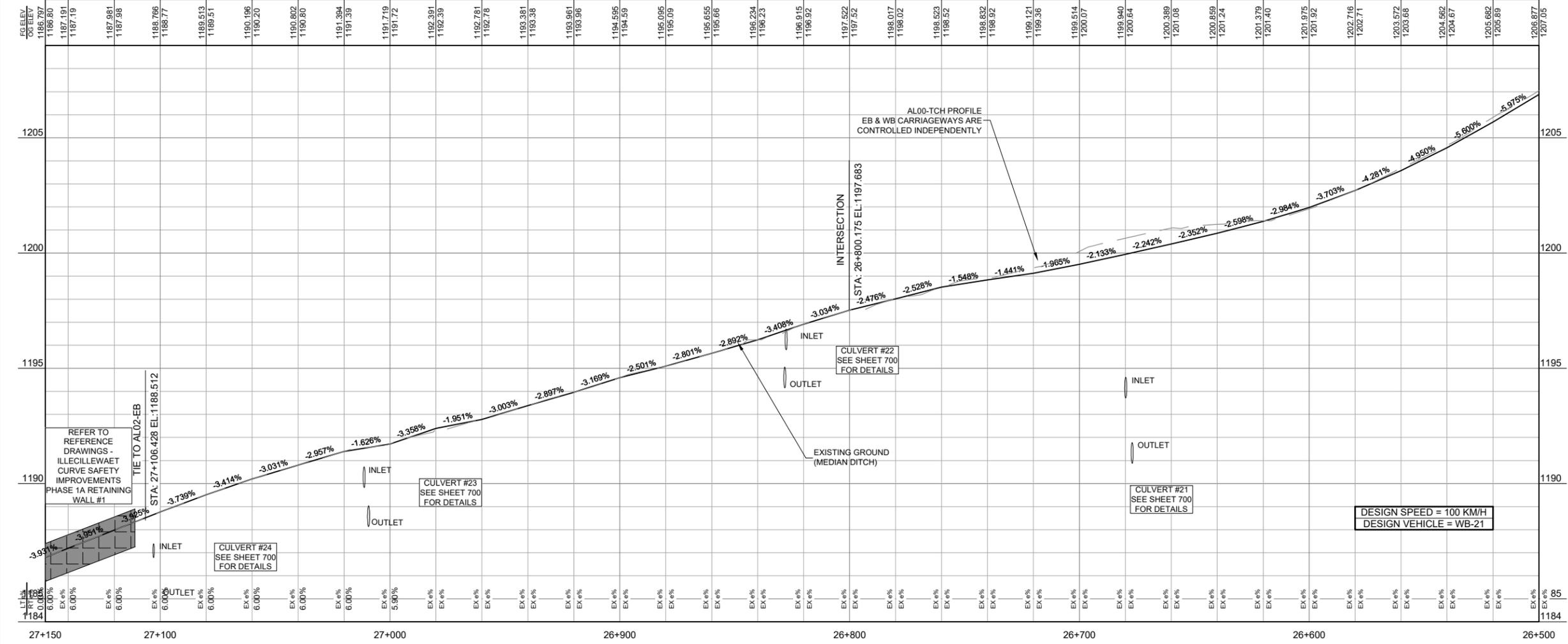
SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S16	3.109	24.62	1.036	2.073
S17	80.222	190.00	26.761	53.504

LINE TABLE

LINE	LENGTH	BEARING
L12	159.896	S87°00'44"W

CURVE TABLE

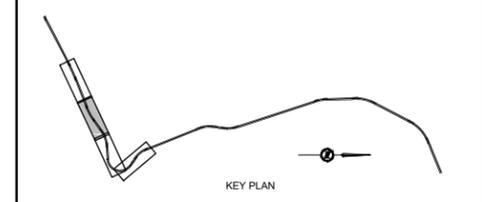
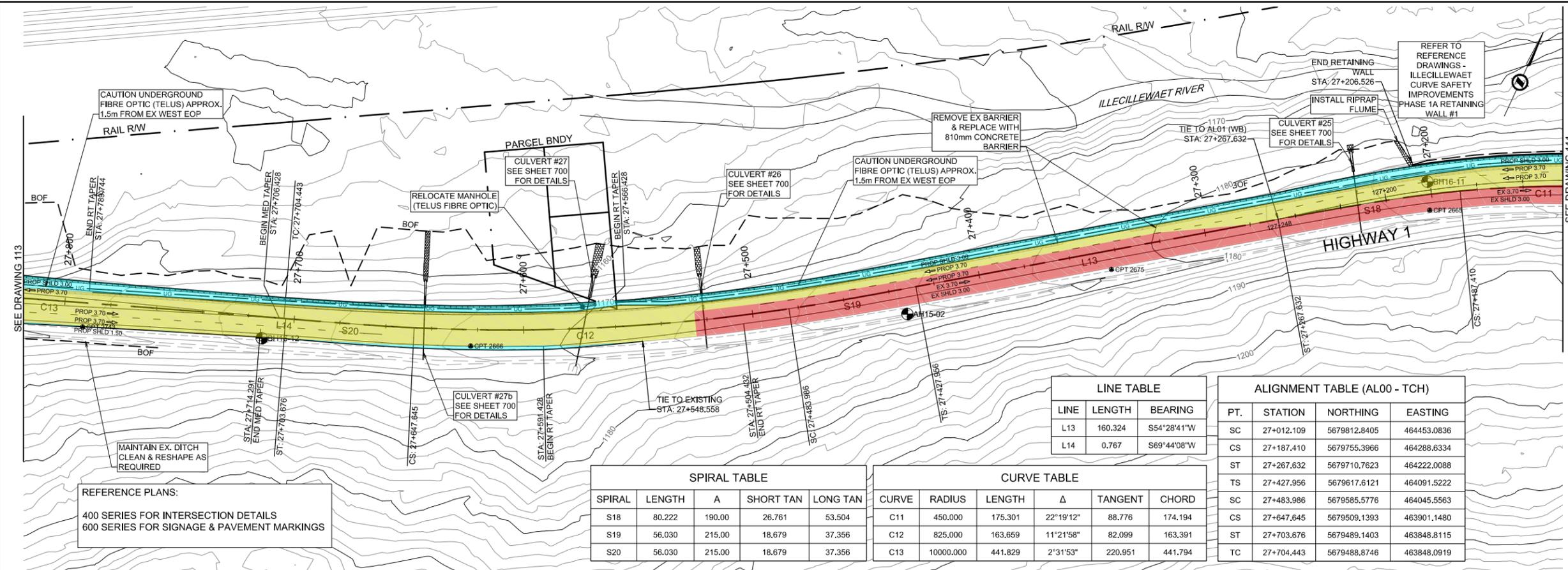
CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C10	195.000	403.281	118°29'38"	327.726	335.158
C11	450.000	175.301	22°19'12"	88.776	174.194



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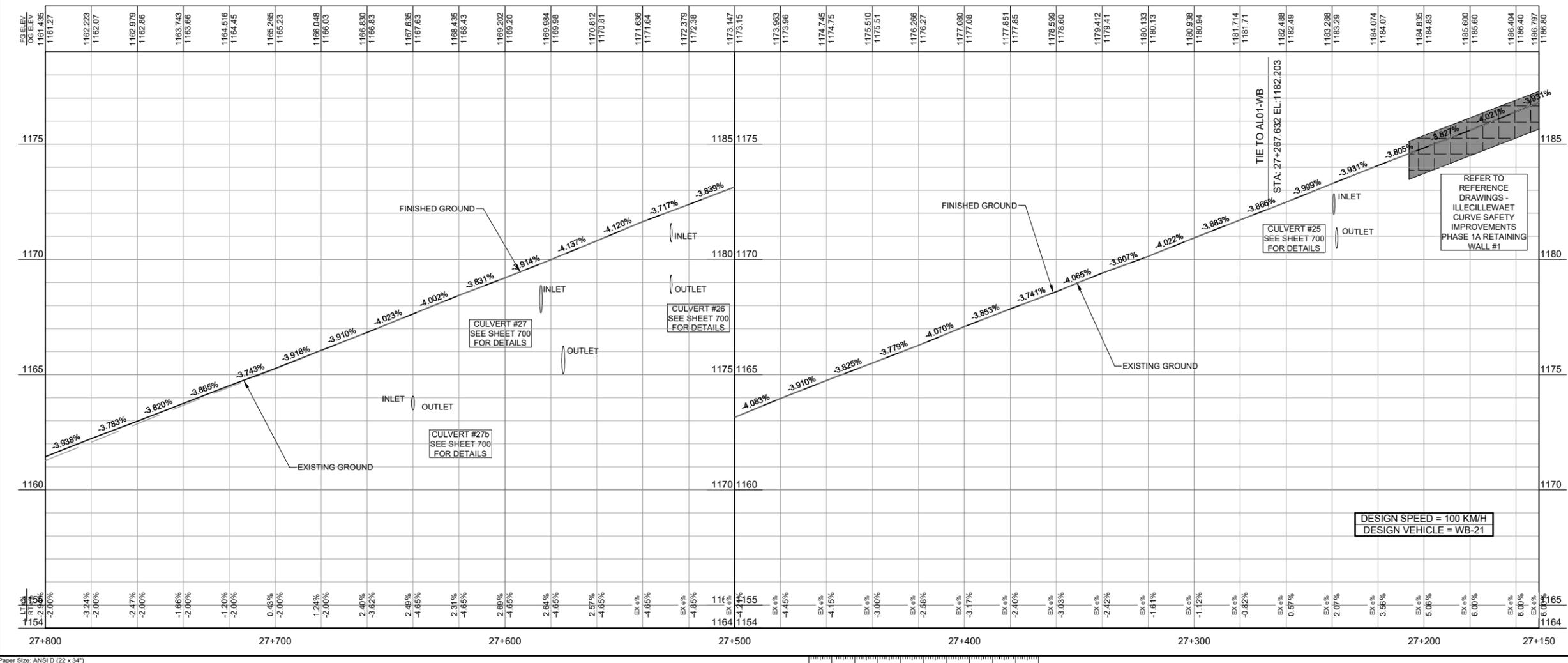
LINE	LENGTH	BEARING
L13	160.324	S54°28'41"W
L14	0.767	S69°44'08"W

PT.	STATION	NORTHING	EASTING
SC	27+012.109	5679812.8405	464453.0836
CS	27+187.410	5679755.3966	464288.6334
ST	27+267.632	5679710.7623	464222.0088
TS	27+427.956	5679617.6121	464091.5222
SC	27+483.986	5679585.5776	464045.5563
CS	27+647.645	5679509.1393	463901.1480
ST	27+703.676	5679489.1403	463848.8115
TC	27+704.443	5679488.8746	463848.0919

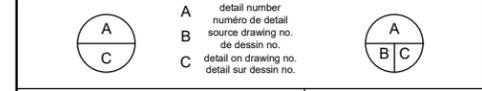
SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S18	80.222	190.00	26.761	53.504
S19	56.030	215.00	18.679	37.356
S20	56.030	215.00	18.679	37.356

CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C11	450.000	175.301	22°19'12"	88.776	174.194
C12	825.000	163.659	11°21'58"	82.099	163.391
C13	10000.000	441.829	2°31'53"	220.951	441.794

REFERENCE PLANS:
400 SERIES FOR INTERSECTION DETAILS
600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS



Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS



Consultant's Stamp: Soeau de l'expert-conseil
 Eng. Stamp: Soeau de l'ingénieur
 R. ELKANN
 8721
 CONSULTANT
 ENGINEER
 18/02/16

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

Consultant's Name / Nom de l'expert-conseil:
McElhanney
 McElhanney Consulting Services Ltd.

Project Title / Titre du projet:
**TRANS-CANADA HIGHWAY
 ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
 PHASE 1A & PAVEMENT REHABILITATION**
 ROGERS PASS
 GLACIER NATIONAL PARK, BC

Drawing Title / Titre du dessin:
PLAN & PROFILE
**TRANS-CANADA HIGHWAY
 STA 27+150 TO STA 27+800**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.15
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:1000

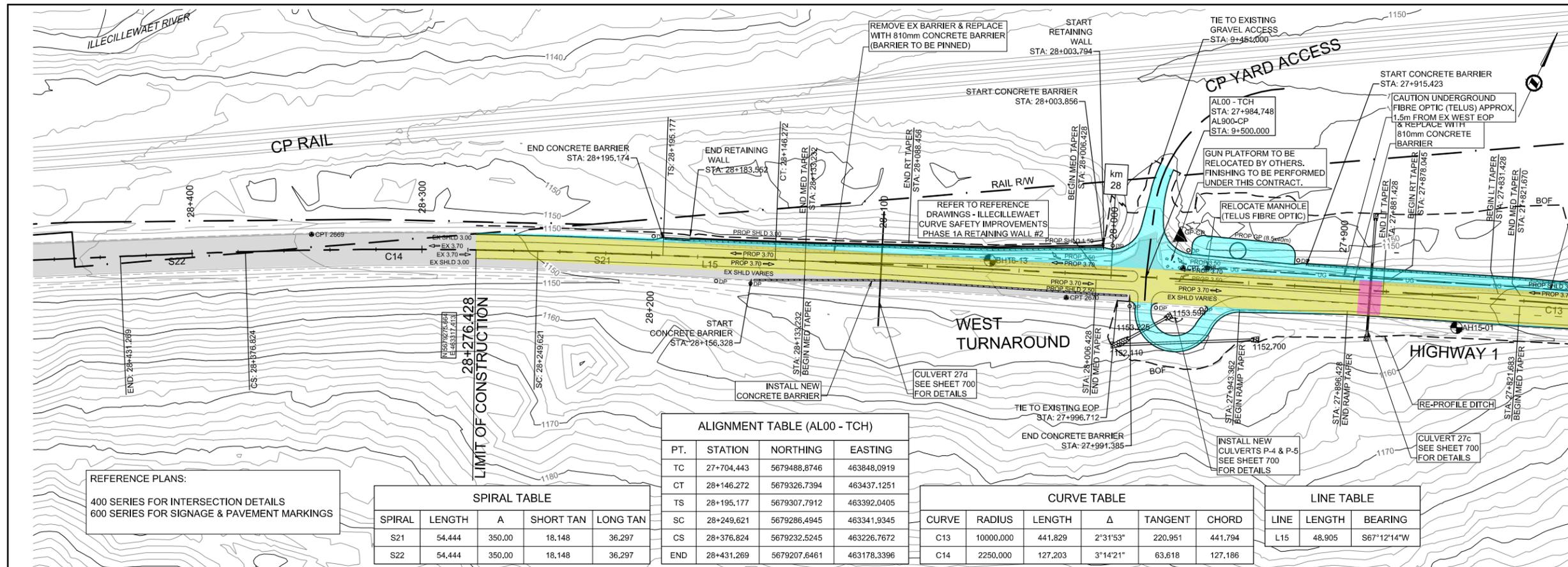
Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client: _____
 Approved by / Approuvé par: _____

Project No. / No. du projet 566-04	Asset No. / No. du-bien	Sheet No. / No. de la feuille 06
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Drawing Reference No. / No. de référence du dessin: 112

FILE: G:\PROJECTS\110861\00 PARKS - ENG CONST SVCS\GLACIER\DRAWINGS\103 SHEET FILES\PIA_00_Plan_Profile.dwg - PLOTTED: 2018/02/16 8:29 AM
 Paper Size: ANSI D (22 x 34")



ALIGNMENT TABLE (AL00 - TCH)

PT.	STATION	NORTHING	EASTING
TC	27+704.443	5679488.8746	463848.0919
CT	28+146.272	5679326.7394	463437.1251
TS	28+195.177	5679307.7912	463392.0405
SC	28+249.621	5679286.4945	463341.9345
CS	28+376.824	5679232.5245	463226.7672
END	28+431.269	5679207.6461	463178.3396

CURVE TABLE

CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C13	10000.000	441.829	2°31'53"	220.951	441.794
C14	2250.000	127.203	3°14'21"	63.618	127.186

LINE TABLE

LINE	LENGTH	BEARING
L15	48.905	S67°12'14"W

SPIRAL TABLE

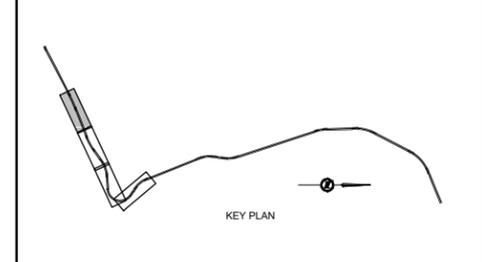
SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S21	54.444	350.00	18.148	36.297
S22	54.444	350.00	18.148	36.297

REFERENCE PLANS:
400 SERIES FOR INTERSECTION DETAILS
600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS

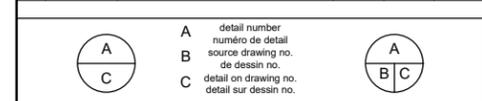
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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS



Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

Parks Canada Agency
Western and Northern Region

L'Agence Parcs Canada
Ouest et Nord du Canada

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

PLAN & PROFILE

**TRANS-CANADA HIGHWAY
STA 27+800 TO STA 28+450**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.15
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:1000

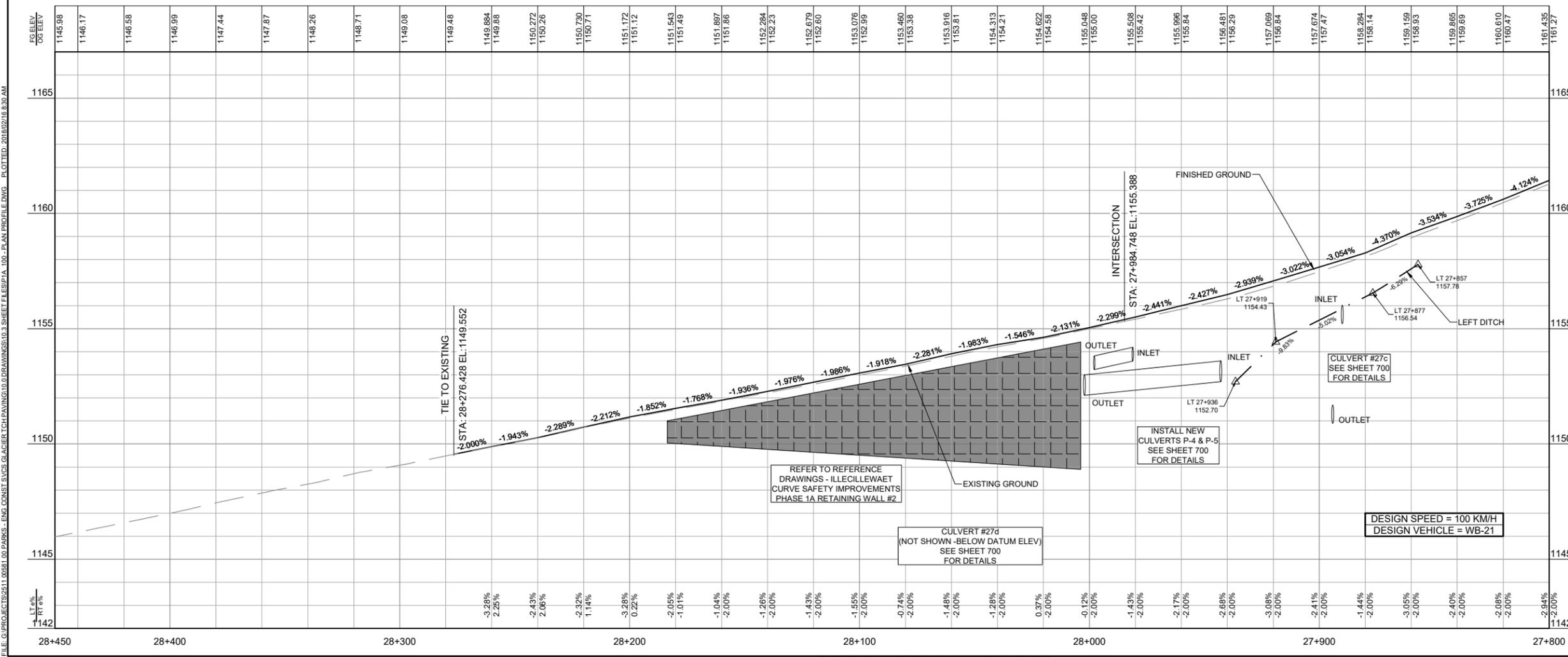
Parks Canada Project Manager / Administrateur de Projets Parcs Canada

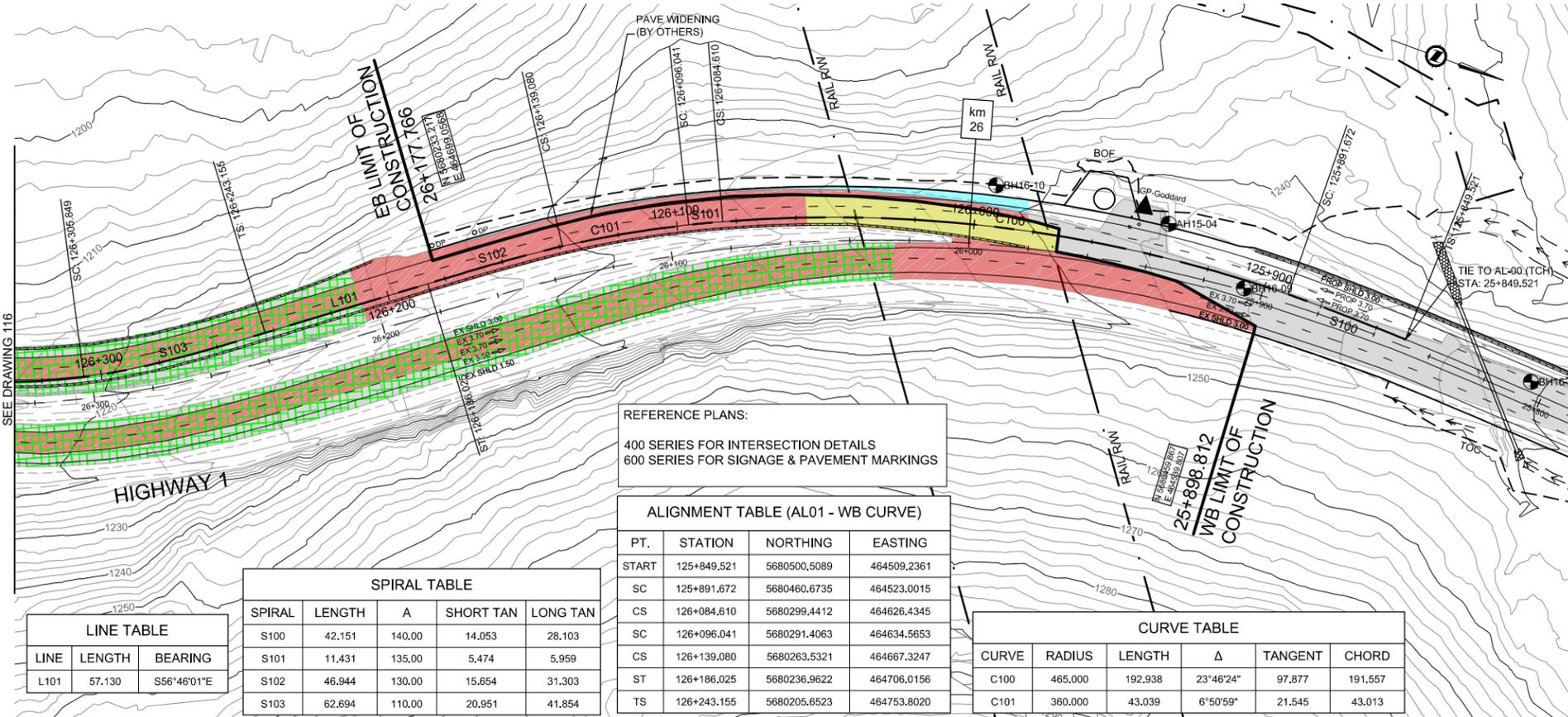
Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du-bien	Sheet No. / No. de la feuille 07
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Drawing Reference No. / No. de référence du dessin
113





LINE TABLE		
LINE	LENGTH	BEARING
L101	57.130	S56°46'01"E

SPIRAL TABLE				
SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S100	42.151	140.00	14.053	28.103
S101	11.431	135.00	5.474	5.959
S102	46.944	130.00	15.654	31.303
S103	62.694	110.00	20.951	41.854

REFERENCE PLANS:
 400 SERIES FOR INTERSECTION DETAILS
 600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS

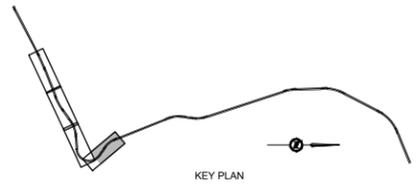
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START	125+849.521	5680500.5089	464509.2361	
SC	125+891.672	5680460.6735	464523.0015	
CS	126+084.610	5680299.4412	464626.4345	
SC	126+096.041	5680291.4063	464634.5653	
CS	126+139.080	5680263.5321	464667.3247	
ST	126+186.025	5680236.9622	464706.0156	
TS	126+243.155	5680205.6523	464753.8020	

CURVE TABLE					
CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C100	465.000	192.938	23°46'24"	97.877	191.557
C101	360.000	43.039	6°50'59"	21.545	43.013

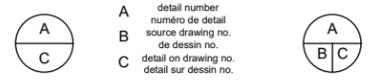
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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS



Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

Parks Canada Agency
Western and Northern
Region

L'Agence Parcs Canada
Ouest et Nord
du Canada

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

**PLAN & PROFILE
WESTBOUND LANES
TRANS-CANADA HIGHWAY
STA 125+800 TO STA 126+300**

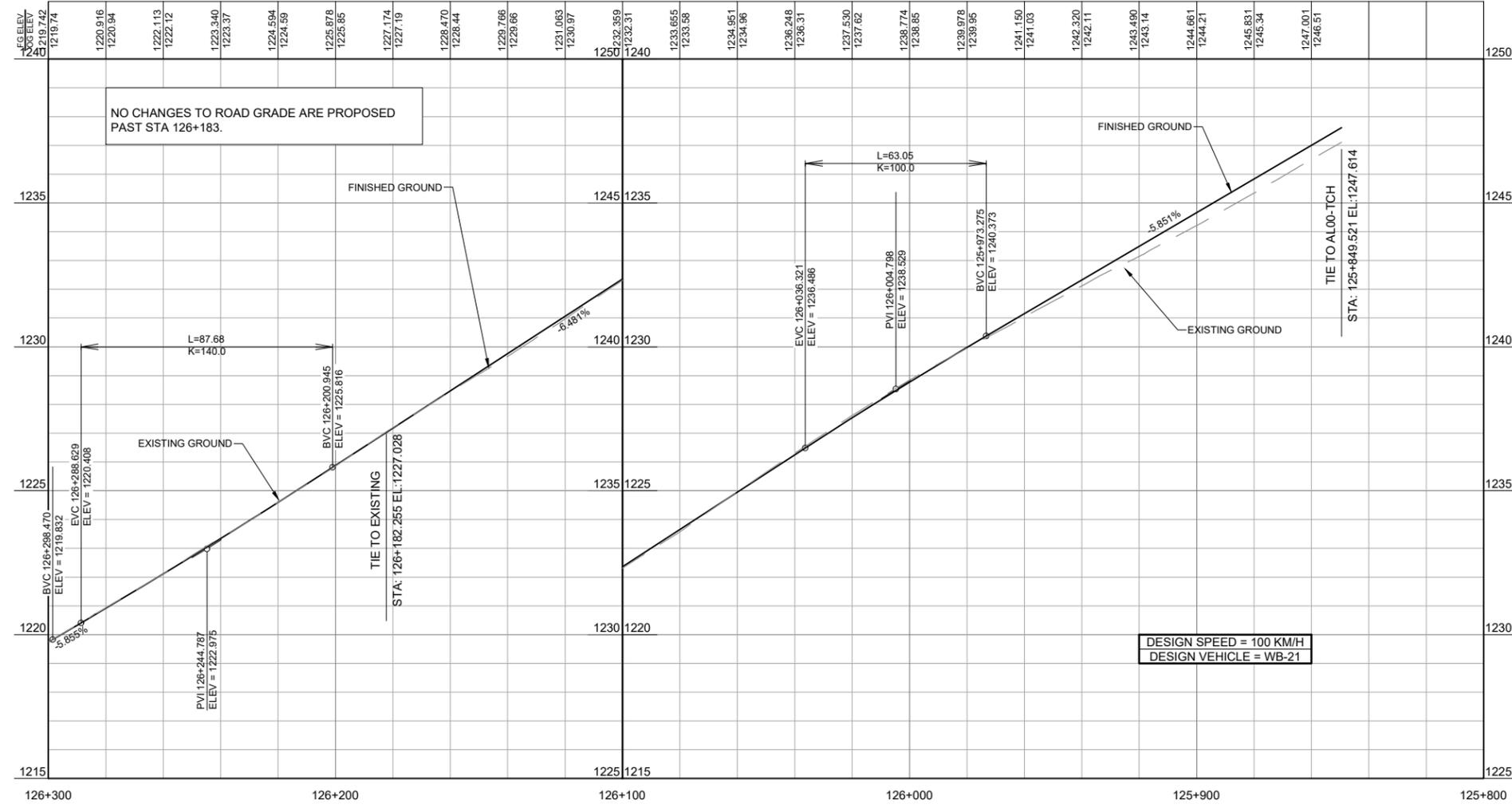
Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.15
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:1000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 08
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DESIGN SPEED = 100 KM/H
 DESIGN VEHICLE = WB-21

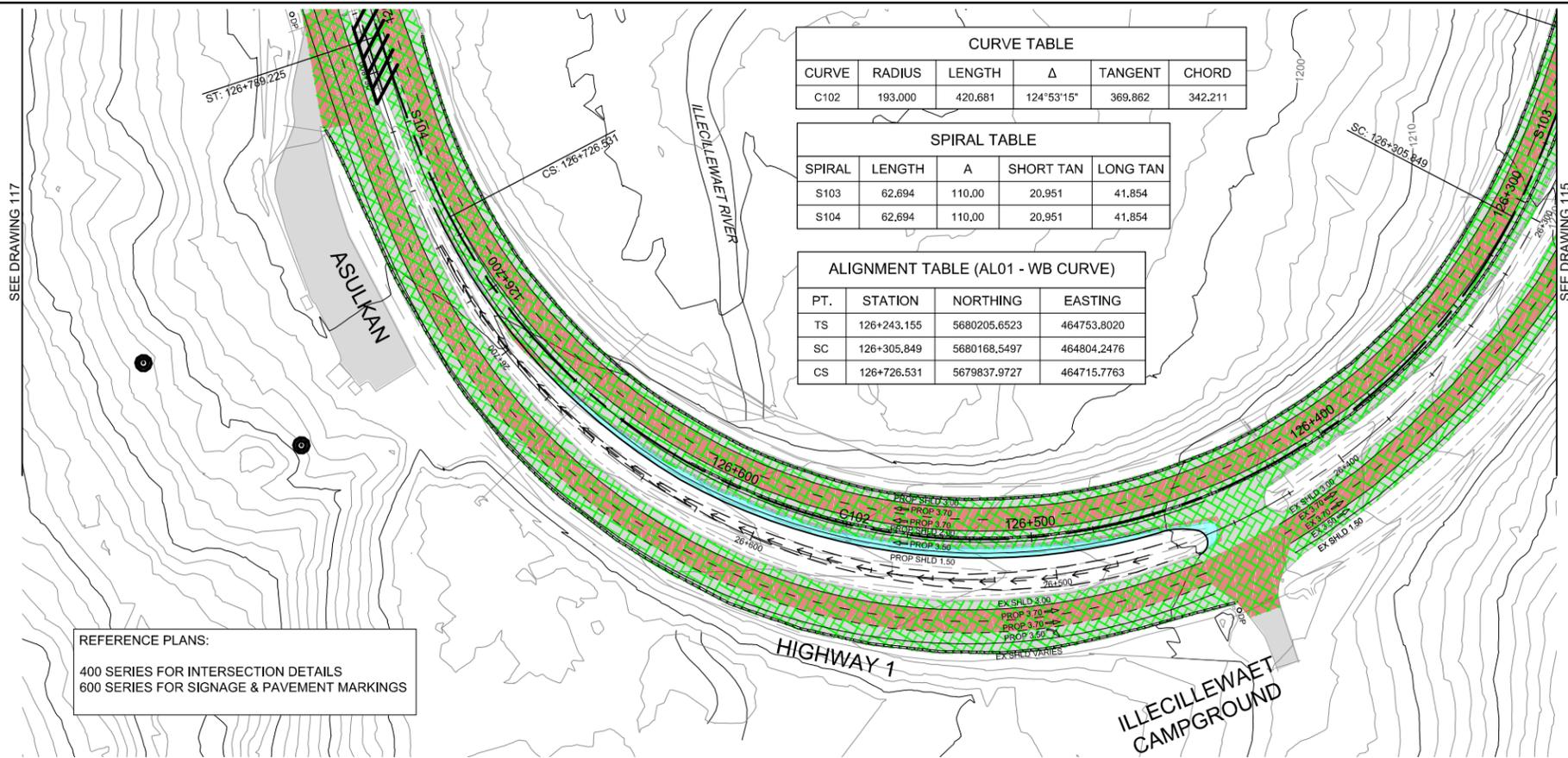
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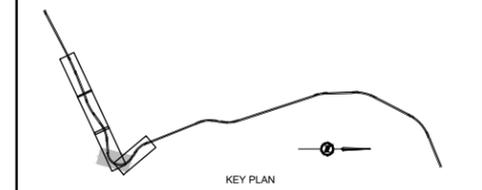


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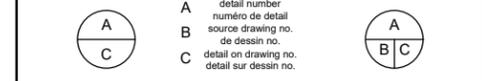
SPIRAL TABLE				
SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S103	62.694	110.00	20.951	41.854
S104	62.694	110.00	20.951	41.854

ALIGNMENT TABLE (AL01 - WB CURVE)				
PT.	STATION	NORTHING	EASTING	
TS	126+243.155	5680205.6523	464753.8020	
SC	126+305.849	5680168.5497	464804.2476	
CS	126+726.531	5679837.9727	464715.7763	

REFERENCE PLANS:
400 SERIES FOR INTERSECTION DETAILS
600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS



Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS



Consultant's Stamp: Soeau de l'expert-conseil
 Eng. Stamp: Soeau de l'ingénieur
 R. ELIASSON
 18/02/16

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

Consultant's Name: McElhanney Consulting Services Ltd.

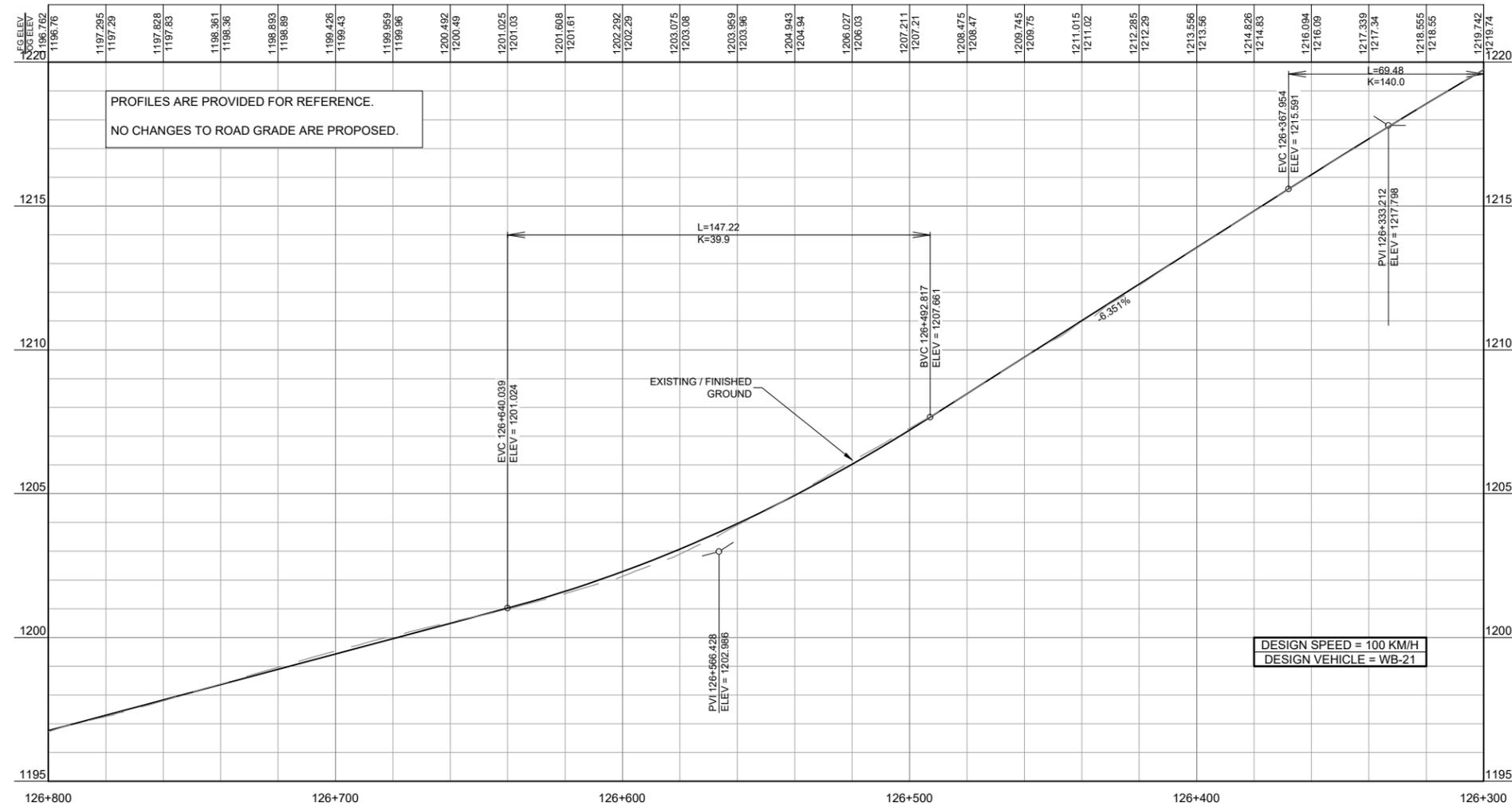
Project Title: TRANS-CANADA HIGHWAY ILLECILLEWAET CURVE SAFETY IMPROVEMENTS PHASE 1A & PAVEMENT REHABILITATION ROGERS PASS GLACIER NATIONAL PARK, BC

Drawing Title: PLAN & PROFILE WESTBOUND LANES TRANS-CANADA HIGHWAY STA 126+300 TO STA 126+800

Surveyed by / Arpenté par: MCSL
 Drawn by / Dessiné par: JKR
 Date: 2018.02.15
 Designed by / Conçu par: DRL
 Reviewed by / Révisé par: NSJ
 Scale / Echelle: 1:1000

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

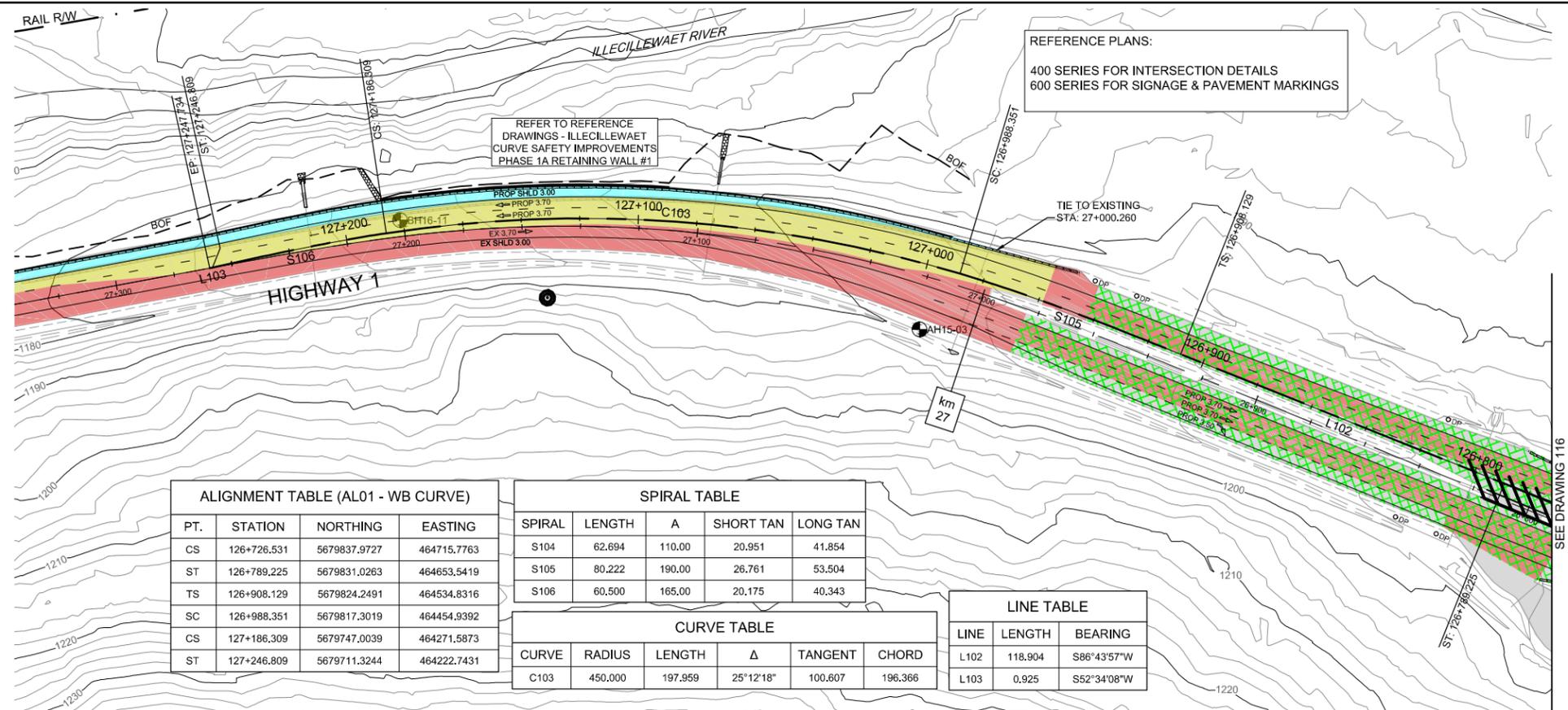
Project No. / No. du projet: 566-04
 Asset No. / No. du-bien
 Sheet No. / No. de la feuille: 09



PROFILES ARE PROVIDED FOR REFERENCE.
NO CHANGES TO ROAD GRADE ARE PROPOSED.

FILE: G:\PROJECTS\5611_00561_00_PARKS - ENG_CONSTR_SVCS_GLACIER_TCH_PAVING\10_DRAWINGS\10.3_SHEET_FILES\PIA_115_Plan_Profile_Curve.dwg PLOTTED: 2018/02/16 8:38 AM





REFERENCE PLANS:
400 SERIES FOR INTERSECTION DETAILS
600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS

REFER TO REFERENCE DRAWINGS - ILLECILLEWAET CURVE SAFETY IMPROVEMENTS PHASE 1A RETAINING WALL #1

PT.	STATION	NORTHING	EASTING
CS	126+726.531	5679837.9727	464715.7763
ST	126+789.225	5679831.0263	464653.5419
TS	126+908.129	5679824.2491	464534.8316
SC	126+988.351	5679817.3019	464454.9392
CS	127+186.309	5679747.0039	464271.5873
ST	127+246.809	5679711.3244	464222.7431

SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S104	62.694	110.00	20.951	41.854
S105	80.222	190.00	26.761	53.504
S106	60.500	165.00	20.175	40.343

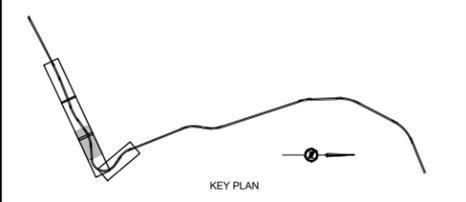
CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C103	450.000	197.959	25°12'18"	100.607	196.366

LINE	LENGTH	BEARING
L102	118.904	S86°43'57"W
L103	0.925	S52°34'08"W

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0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

Parks Canada Agency
Western and Northern Region

L'Agence Parcs Canada
Ouest et Nord du Canada

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

**PLAN & PROFILE
WESTBOUND LANES
TRANS-CANADA HIGHWAY
STA 126+800 TO STA 127+300**

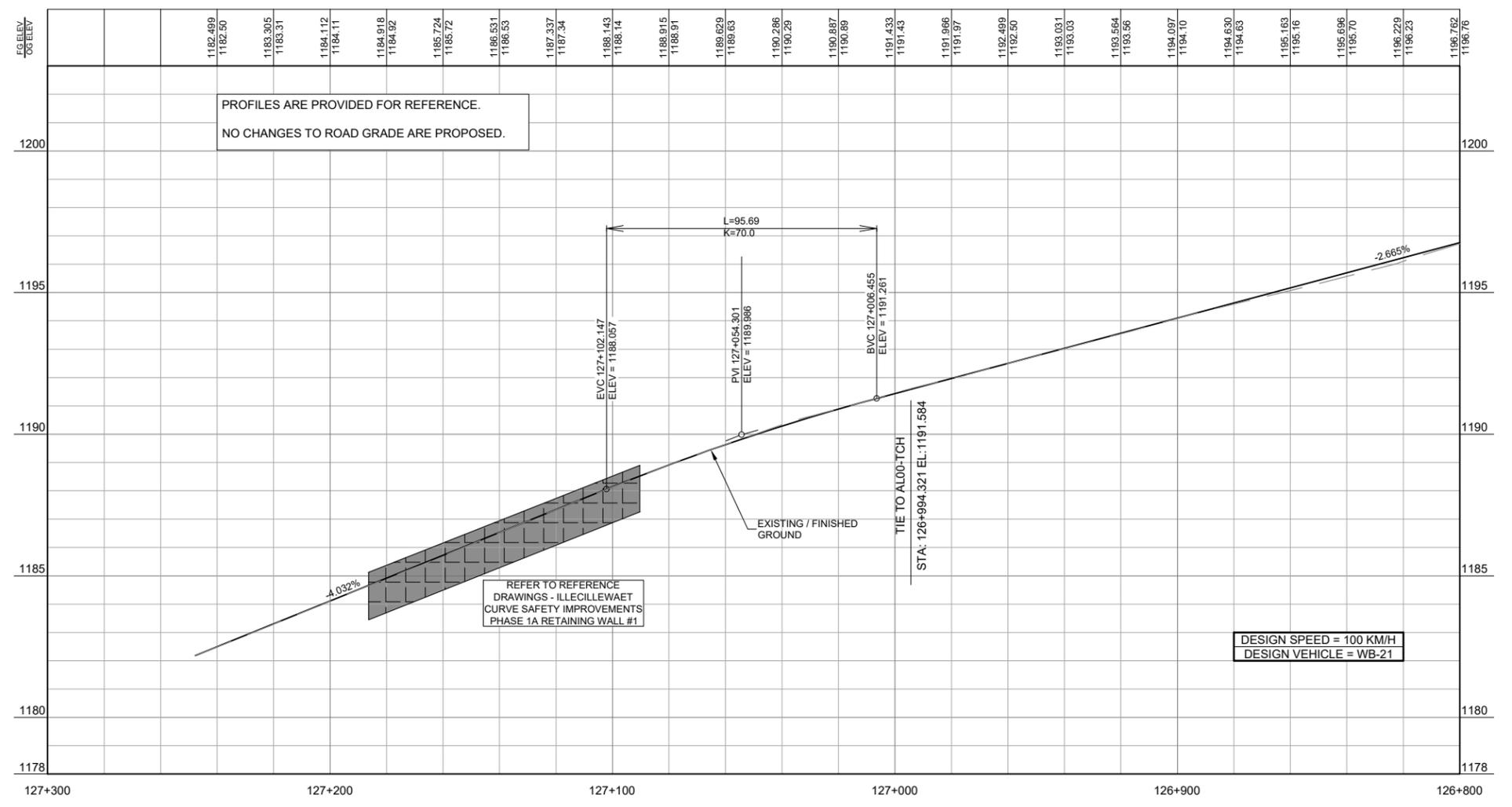
Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.15
Designed by / Conçu par DRL	Reviewed by / Revisé par RAS	Scale / Echelle 1:1000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 10
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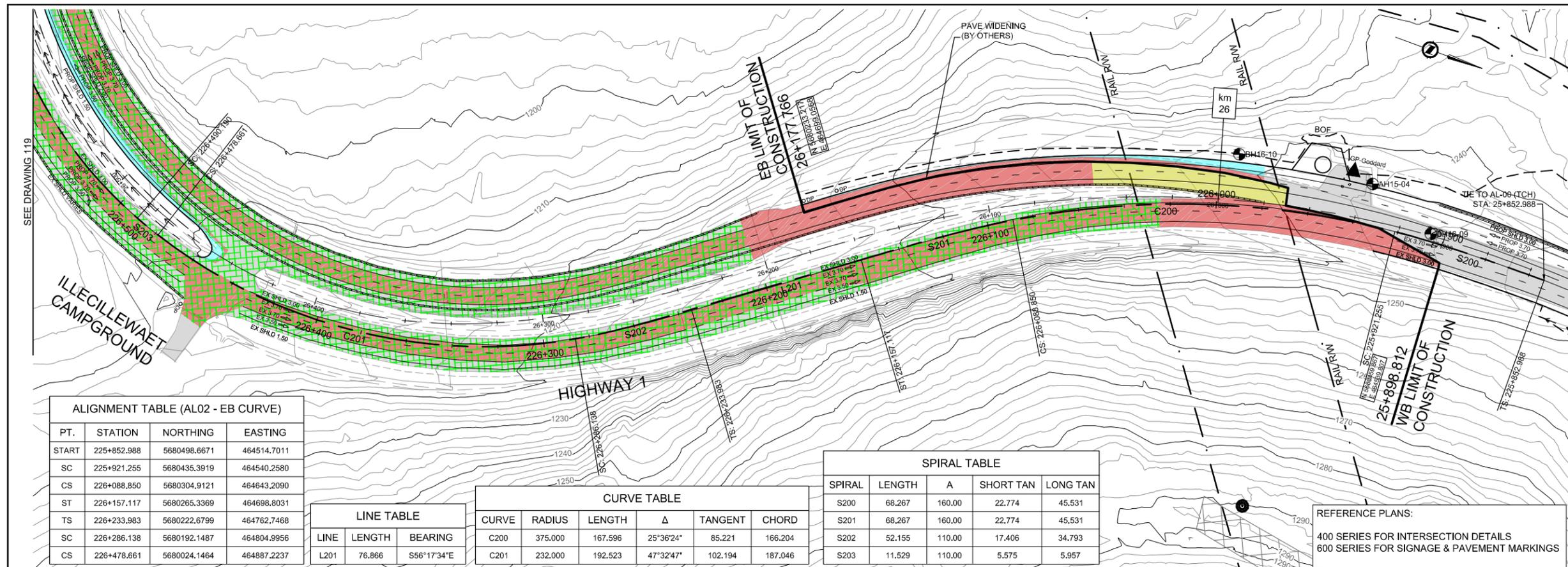


REFER TO REFERENCE DRAWINGS - ILLECILLEWAET CURVE SAFETY IMPROVEMENTS PHASE 1A RETAINING WALL #1

DESIGN SPEED = 100 KM/H
DESIGN VEHICLE = WB-21

FILE G:\PROJECTS\566-04 PARKS - ENG CONST SVCS GLACIER TCH PAVING\10 DRAWINGS\10.3 SHEET FILES\PIA_115 - PLAN PROFILE CURVE.DWG PLOTTED: 2018/02/16 8:37 AM





ALIGNMENT TABLE (AL02 - EB CURVE)

PT.	STATION	NORTHING	EASTING
START	225+852.988	5680498.6671	464514.7011
SC	225+921.255	5680435.3919	464540.2580
CS	226+088.850	5680304.9121	464643.2090
ST	226+157.117	5680265.3369	464698.8031
TS	226+233.983	5680222.6799	464762.7468
SC	226+286.138	5680192.1487	464804.9956
CS	226+478.661	5680024.1464	464887.2237

LINE TABLE

LINE	LENGTH	BEARING
L201	76.866	S56°17'34"E

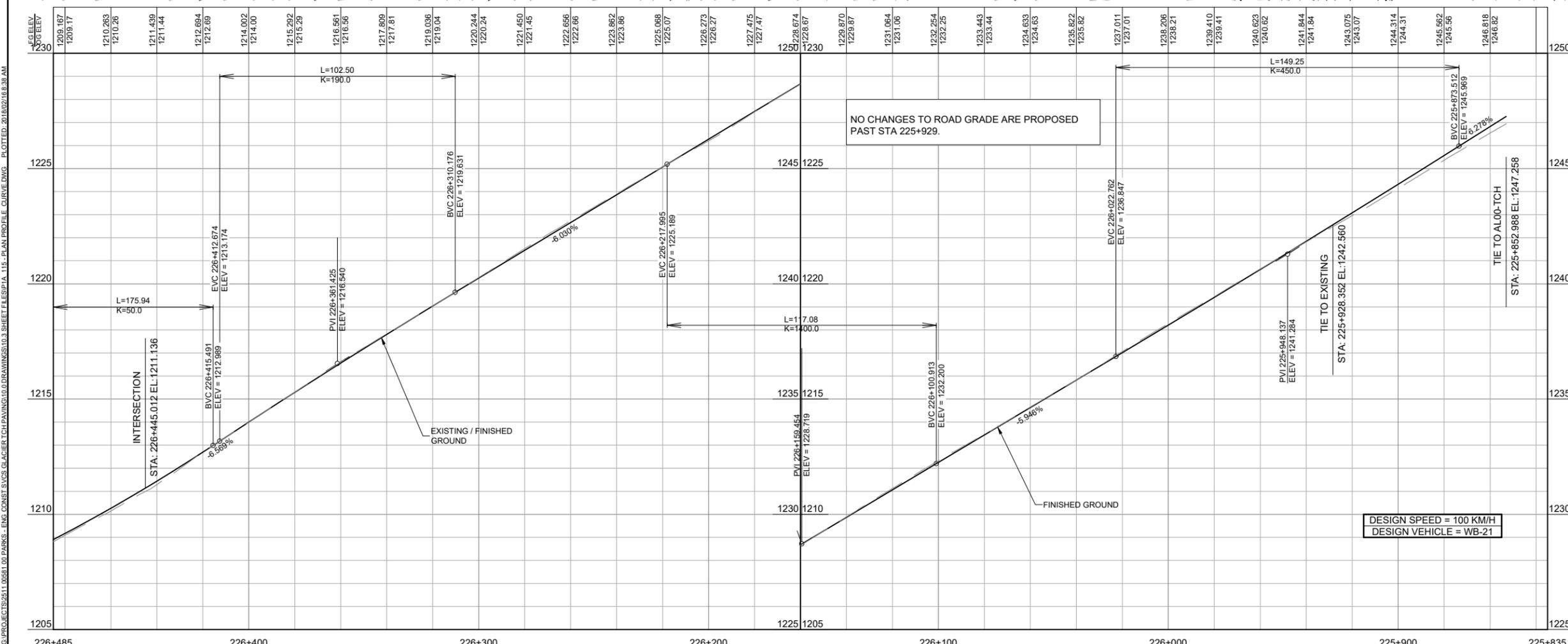
CURVE TABLE

CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C200	375.000	167.596	25°36'24"	85.221	166.204
C201	232.000	192.523	47°32'47"	102.194	187.046

SPIRAL TABLE

SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S200	68.267	160.00	22.774	45.531
S201	68.267	160.00	22.774	45.531
S202	52.155	110.00	17.406	34.793
S203	11.529	110.00	5.575	5.957

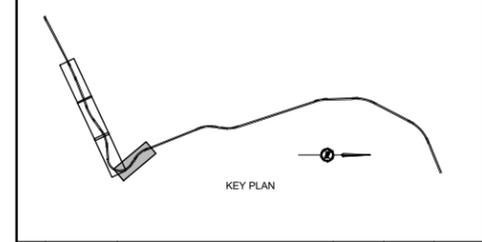
REFERENCE PLANS:
 400 SERIES FOR INTERSECTION DETAILS
 600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS



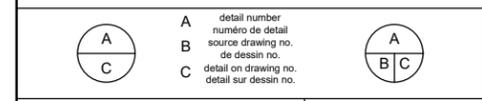
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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS



Consultant's Stamp: Soeur de l'expert-conseil
 Eng. Stamp: Soeur de l'ingénieur
 R. ELIASSY
 PROFESSIONAL ENGINEER
 18/02/16

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

Consultant's Name: McElhanney
 McElhanney Consulting Services Ltd.

Project Title: TRANS-CANADA HIGHWAY ILLECILLEWAET CURVE SAFETY IMPROVEMENTS PHASE 1A & PAVEMENT REHABILITATION
 ROGERS PASS GLACIER NATIONAL PARK, BC

Drawing Title: PLAN & PROFILE EASTBOUND LANES TRANS-CANADA HIGHWAY STA 225+850 TO STA 226+500

Surveyed by / Arpenté par: MCSL	Drawn by / Dessiné par: JKR	Date: 2018.02.15
Designed by / Conçu par: DRL	Reviewed by / Révisé par: RAS	Scale / Echelle: 1:1000

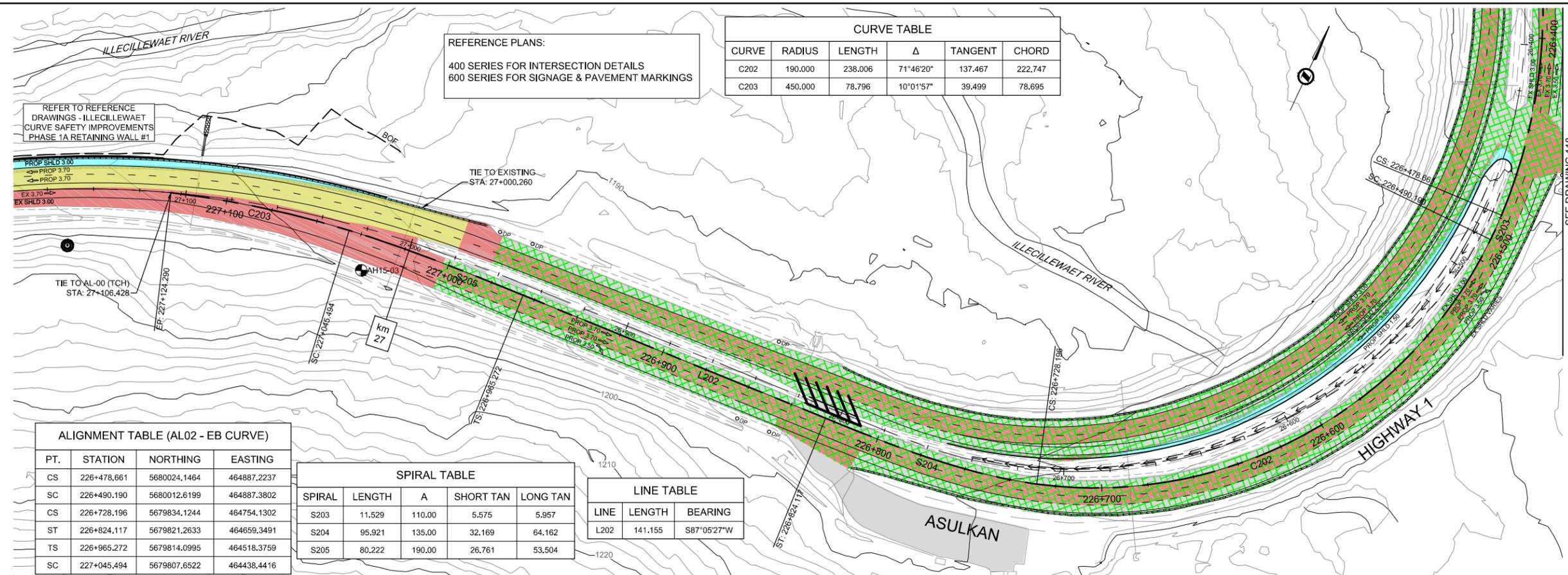
Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client	Approved by / Approuvé par
Project No. / No. du projet: 566-04	Asset No. / No. du bien
Drawing Reference No. / No. de référence du dessin: 118	

FILE: G:\PROJECTS\511.00561.00 PARKS - ENG CONSR SVCS GLACIER TCH PAVING\10.DRAWINGS\10.3 SHEET\FLESP1A_115_Plan_Profile_Curve.dwg PLOTTED: 2018/02/16 8:38 AM



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CURVE TABLE					
CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C202	190.000	238.006	71°46'20"	137.467	222.747
C203	450.000	78.796	10°01'57"	39.499	78.695

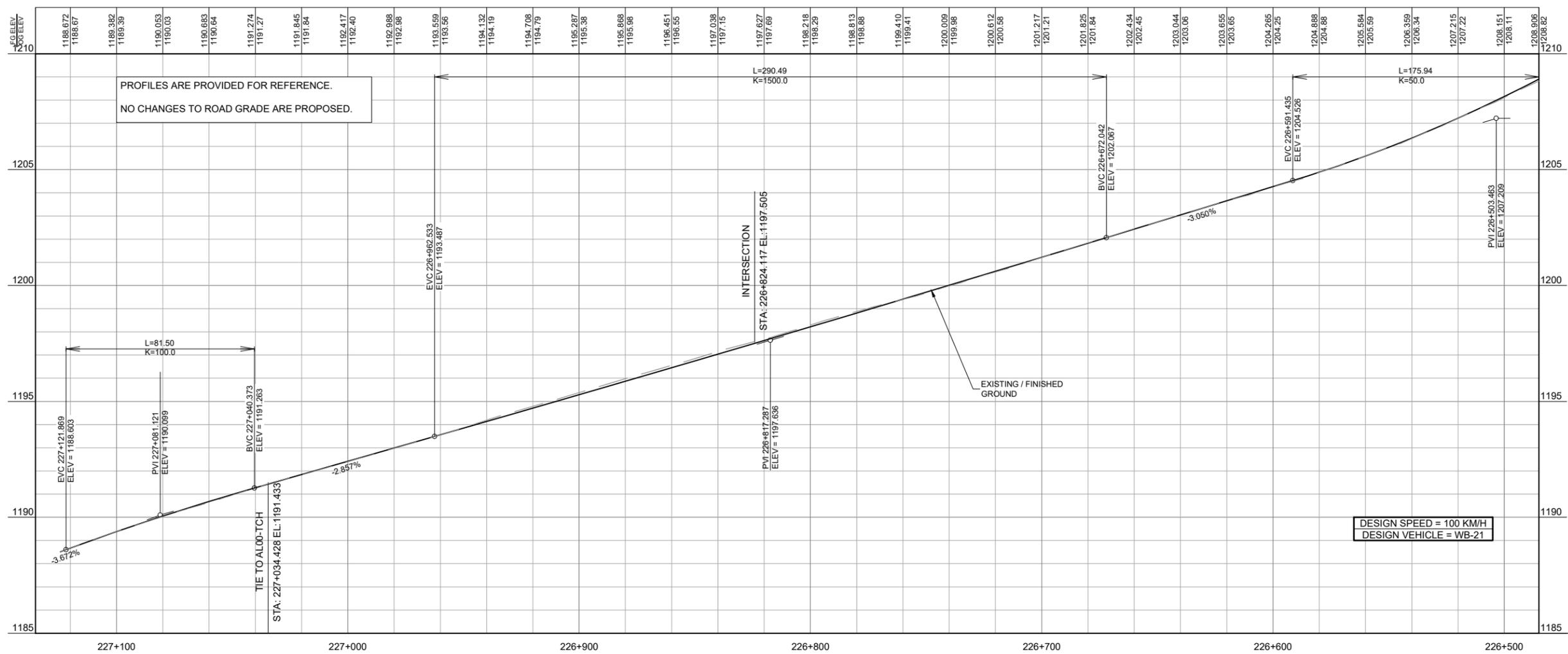
REFERENCE PLANS:
400 SERIES FOR INTERSECTION DETAILS
600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS

REFER TO REFERENCE DRAWINGS - ILLECILLEWAET CURVE SAFETY IMPROVEMENTS PHASE 1A RETAINING WALL #1

ALIGNMENT TABLE (AL02 - EB CURVE)			
PT.	STATION	NORTHING	EASTING
CS	226+478.661	5680024.1464	464887.2237
SC	226+490.190	5680012.6199	464887.3802
CS	226+728.196	5679834.1244	464754.1302
ST	226+824.117	5679821.2633	464659.3491
TS	226+965.272	5679814.0995	464518.3759
SC	227+045.494	5679807.6522	464438.4416

SPIRAL TABLE				
SPIRAL	LENGTH	A	SHORT TAN	LONG TAN
S203	11.529	110.00	5.575	5.957
S204	95.921	135.00	32.169	64.162
S205	80.222	190.00	26.761	53.504

LINE TABLE		
LINE	LENGTH	BEARING
L202	141.155	S87°05'27"W

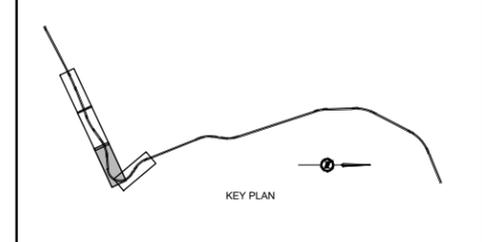


DESIGN SPEED = 100 KM/H
DESIGN VEHICLE = WB-21

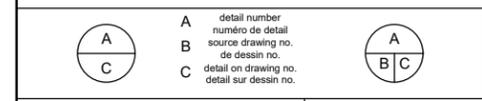
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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS



Consultant's Stamp: Soeau de l'expert-conseil
 Eng. Stamp: Soeau de l'ingénieur
 R. ELIASSON
 ENGINEER
 18/02/16

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

Consultant's Name: McElhanney
 McElhanney Consulting Services Ltd.

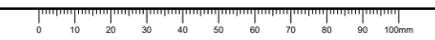
Project Title: TRANS-CANADA HIGHWAY ILLECILLEWAET CURVE SAFETY IMPROVEMENTS PHASE 1A & PAVEMENT REHABILITATION
 ROGERS PASS GLACIER NATIONAL PARK, BC

Drawing Title: PLAN & PROFILE EASTBOUND LANES TRANS-CANADA HIGHWAY STA 226+500 TO STA 227+150

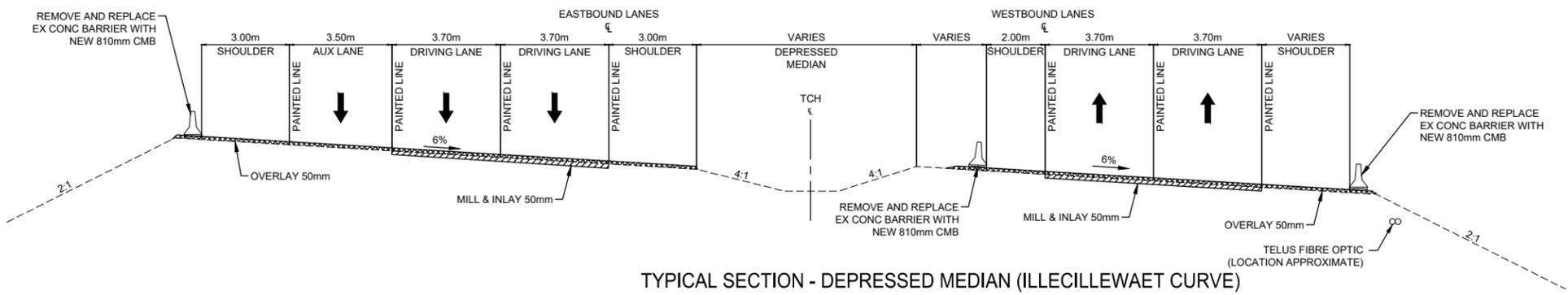
Surveyed by / Arpenté par: MCSL	Drawn by / Dessiné par: JKR	Date: 2018.02.15
Designed by / Conçu par: DRL	Reviewed by / Révisé par: RAS	Scale / Echelle: 1:1000

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

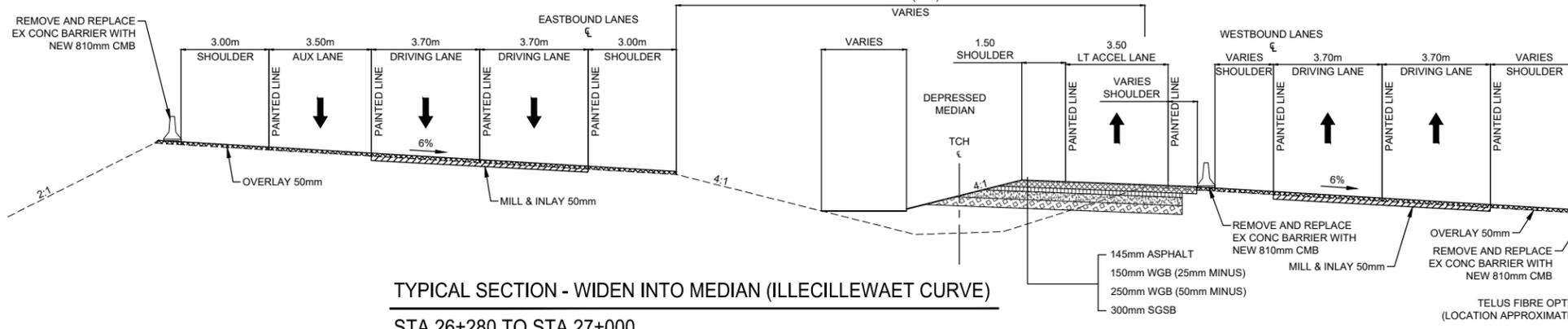
Project No. / No. du projet: 566-04	Asset No. / No. du bien: _____	Sheet No. / No. de la feuille: 12
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FILE: G:\PROJECTS\2511-00581-00-PARKS-ENG-CONST-SVCS-GLACIER NCH PAVING\10.0 DRAWINGS\10.3 SHEET FILES\1A_380-TYPICAL SECTION.DWG PLOTTED: 2018/02/16 09:28 AM

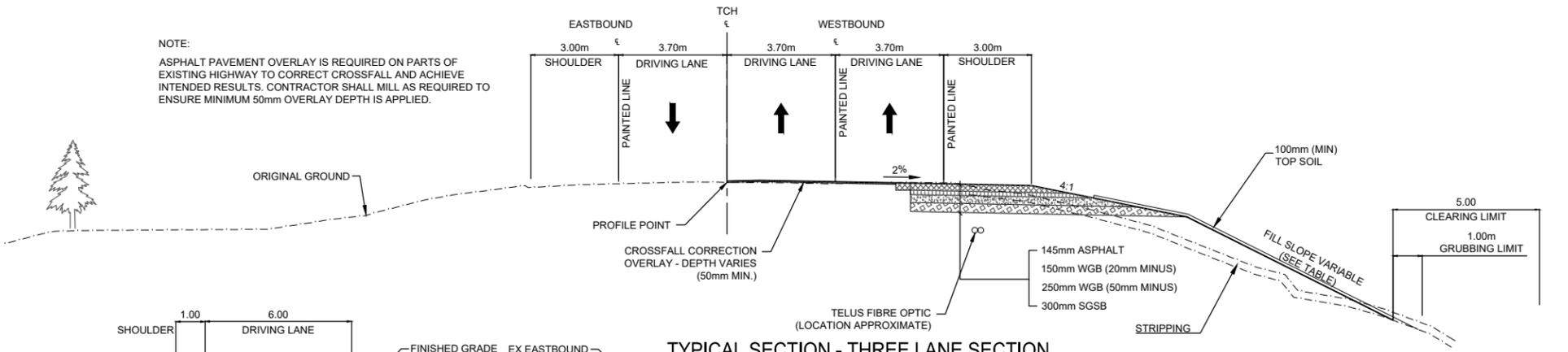


TYPICAL SECTION - DEPRESSED MEDIAN (ILLECILLEWAET CURVE)
STA 25+840 TO STA 26+280

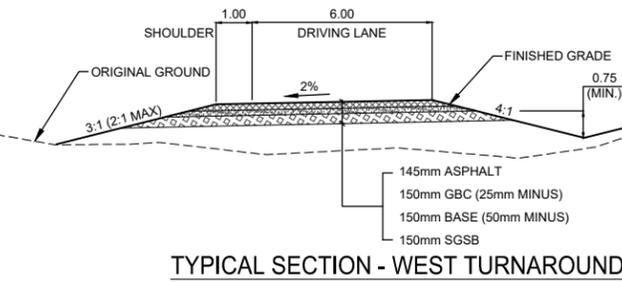


TYPICAL SECTION - WIDEN INTO MEDIAN (ILLECILLEWAET CURVE)
STA 26+280 TO STA 27+000

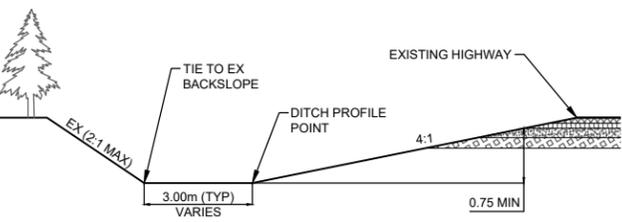
NOTE:
ASPHALT PAVEMENT OVERLAY IS REQUIRED ON PARTS OF EXISTING HIGHWAY TO CORRECT CROSSFALL AND ACHIEVE INTENDED RESULTS. CONTRACTOR SHALL MILL AS REQUIRED TO ENSURE MINIMUM 50mm OVERLAY DEPTH IS APPLIED.



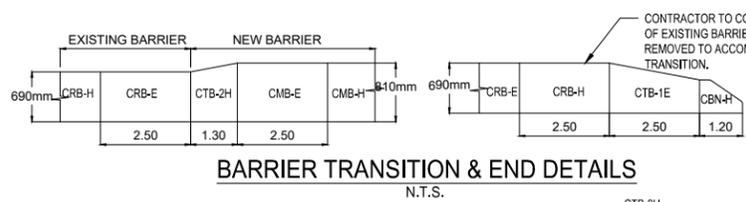
TYPICAL SECTION - THREE LANE SECTION
STA 27+000 TO STA 28+270



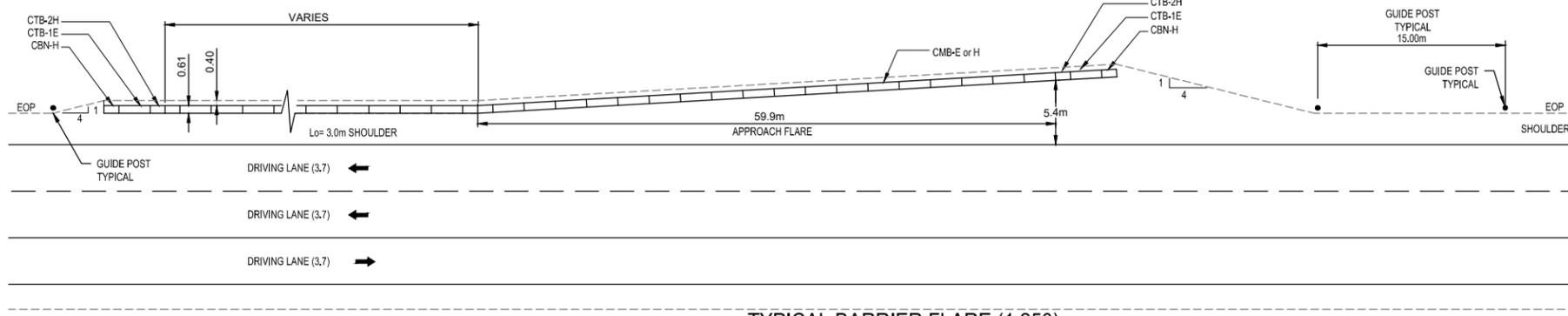
TYPICAL SECTION - WEST TURNAROUND



TYPICAL SECTION - DITCH RESHAPING
STA 26+180 TO STA 26+335
STA 27+550 TO STA 27+935



BARRIER TRANSITION & END DETAILS
N.T.S.



TYPICAL BARRIER FLARE (1:250)

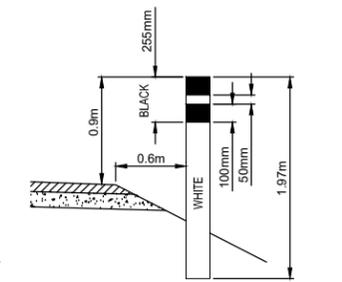
CUT SLOPE TABLE

CUT DEPTH	CUT DEPTH
<3.0m	4:1
3.0m - 5.0m	3:1
5.0m - 8.0m	3:1
>8.0m	2:1*

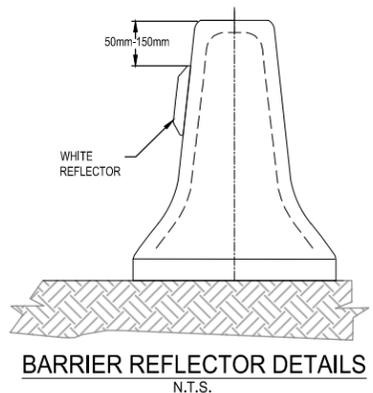
SLOPE SHALL BE STEEPENED TO 2:1 WHEN A 3:1 SLOPE WILL NOT TIE IN WITHIN AN 8.0m VERTICAL HEIGHT.
2:1 SLOPES SHALL HAVE A 1.5m WIDE BENCH AT 5.0m VERTICAL INTERVALS, OR AS ACCEPTED BY THE DEPARTMENTAL REPRESENTATIVE

FILL SLOPE TABLE

FILL HEIGHT	CUT DEPTH
<2.0m	4:1
2.0m - 8.0m	3:1
8.0m - 14.0m	2:1
>14.0m	RETAINING WALL



GUIDE POST INSTALLATION
N.T.S.



BARRIER REFLECTOR DETAILS
N.T.S.

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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS

Detail	Description
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 / Socle de l'expert-conseil: [Stamp]

Eng. Stamp / Socle de l'ingénieur: [Stamp]

Client: Parks Canada Agency / Agence Parcs Canada

Western and Northern Region / Ouest et Nord du Canada

Consultant's Name / Nom de l'expert-conseil: McElhanney Consulting Services Ltd.

Project Title / Titre du projet: TRANS-CANADA HIGHWAY ILLECILLEWAET CURVE SAFETY IMPROVEMENTS PHASE 1A & PAVEMENT REHABILITATION

ROGERS PASS GLACIER NATIONAL PARK, BC

Drawing Title / Titre du dessin: TYPICAL SECTIONS

TRANS-CANADA HIGHWAY

Surveyed by / Arpenté par: MCSL	Drawn by / Dessiné par: JKR	Date: 2018.02.16
Designed by / Conçu par: DRL	Reviewed by / Révisé par: RAS	Scale / Echelle: 1:100

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client: [Signature]

Approved by / Approuvé par: [Signature]

Project No. / No. du projet: 566-04	Asset No. / No. du bien: [Blank]	Sheet No. / No. de la feuille: 13
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0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

Parks Canada Agency
Western and Northern Region

L'Agence Parcs Canada
Ouest et Nord du Canada

Consultant's Name
Nom de l'expert-conseil

McElhanny
McElhanny Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

TYPICAL SECTIONS

MISCELLANEOUS DETAILS

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:100

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client

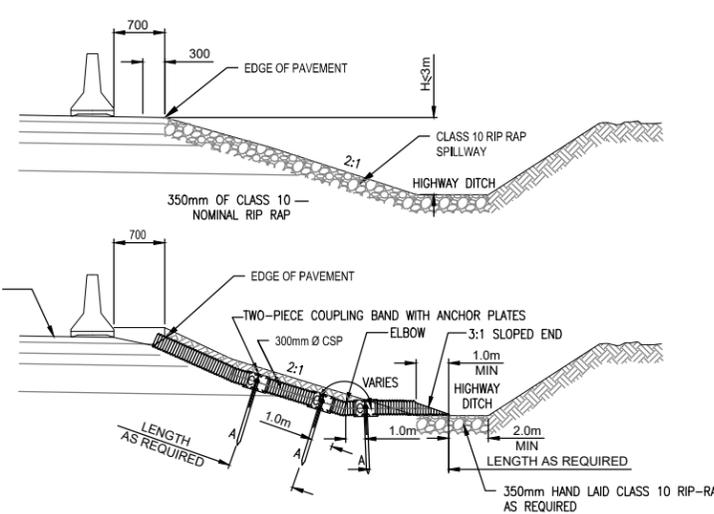
Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du-bien	Sheet No. / No. de la feuille 14
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GRADATION OF ROCK SIZES IN EACH CLASS OF RIP-RAP

CLASS OF RIP-RAP (kg)	NOMINAL THICKNESS OF RIP-RAP (mm)	ROCK GRADATION PERCENTAGE SMALLER THAN GIVEN ROCK MASS (KG)		
		15%	50%	85%
10	350	1	10	30
25	450	2.5	25	75
50	550	5	50	150
100	700	10	100	300
250	1000	25	250	750
500	1200	50	500	1500
1000	1500	100	1000	3000
2000	2000	200	2000	6000
4000	2500	400	4000	12000

* THE THICKNESS OF RIP-RAP, MEASURED AT RIGHT ANGLES TO THE SLOPE, FOR THE CLASS SPECIFIED, SHALL BE THE NOMINAL THICKNESS STATED, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR REQUIRED BY THE DEPARTMENTAL REPRESENTATIVE.

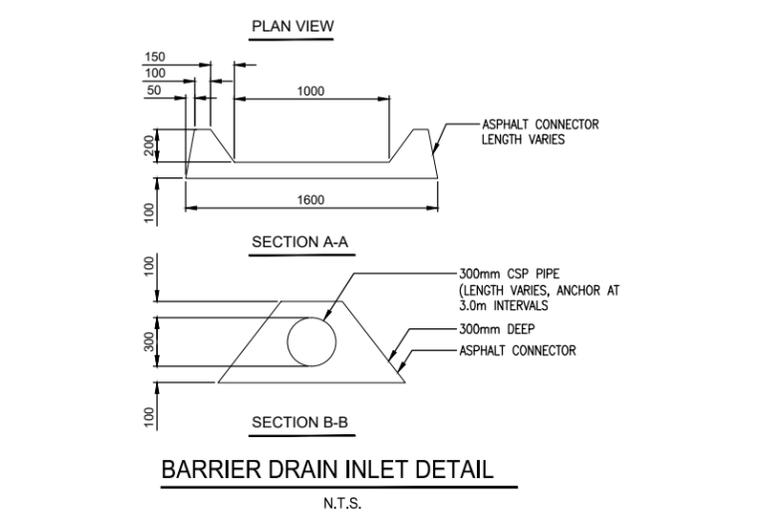
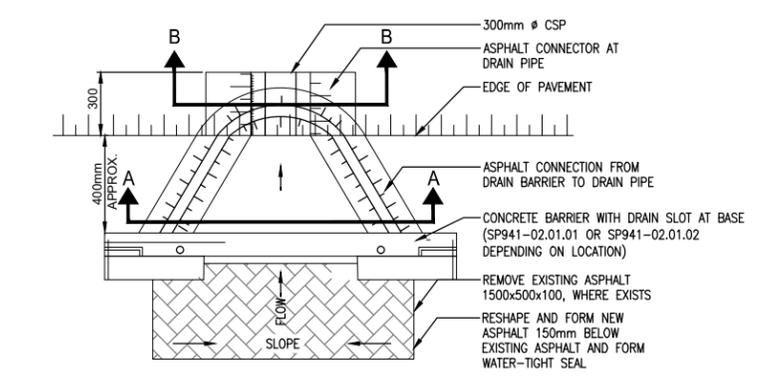
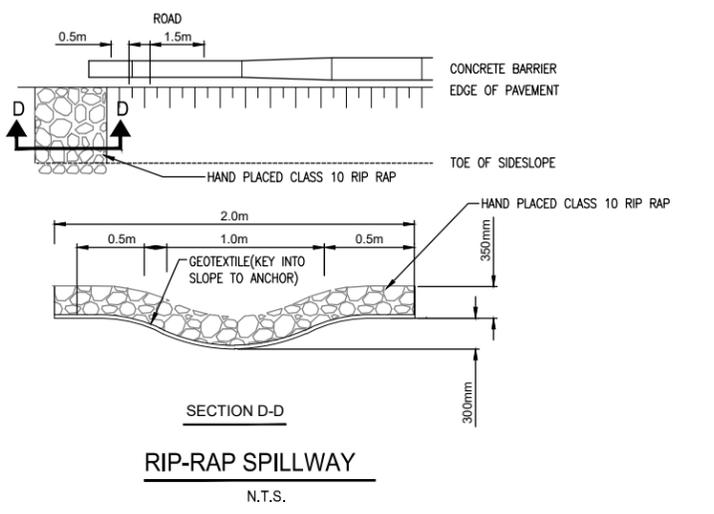


- A. METAL ANCHOR 40mm STEEL PIPE OR EQUIVALENT MIN. LENGTH 2.0m MIN. WEIGHT 5.4kg PER m (2 REQUIRED FOR EACH COUPLING BAND ON DOWN DRAIN PIPE).
- B. TWO PIECE COUPLING BAND WITH ANCHOR PLATES.

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

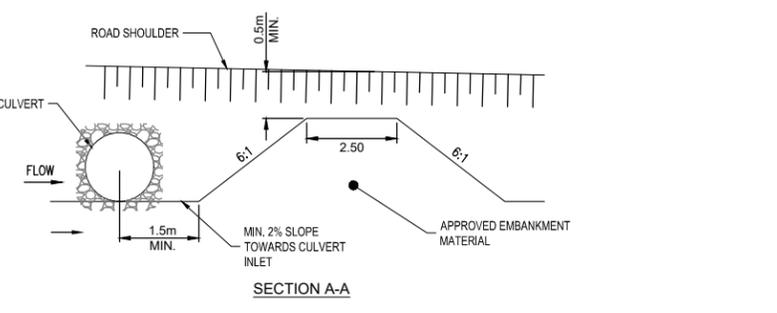
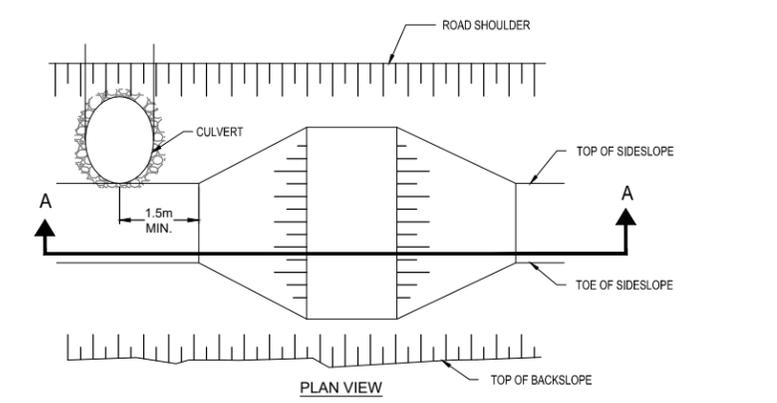
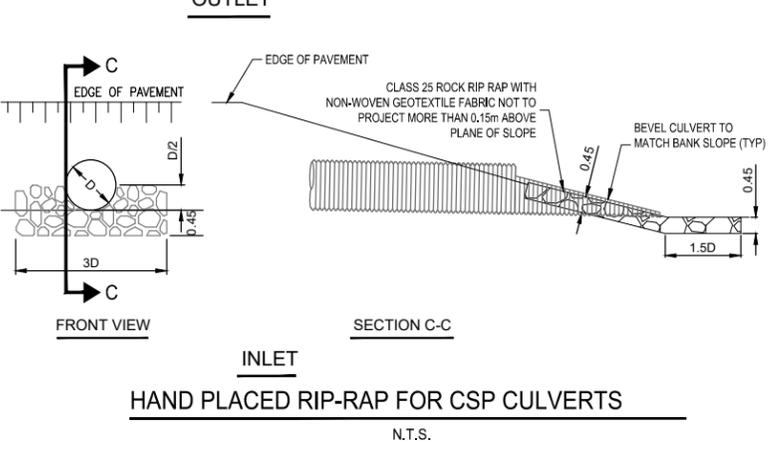
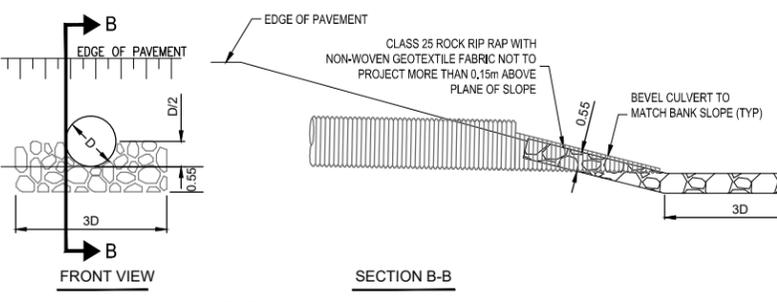
BARRIER DRAIN WITH CSP OR RIP-RAP

N.T.S.

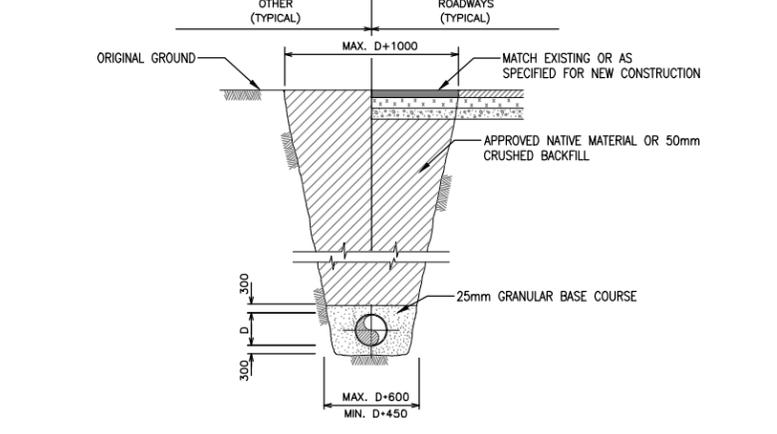


BARRIER DRAIN INLET DETAIL

N.T.S.

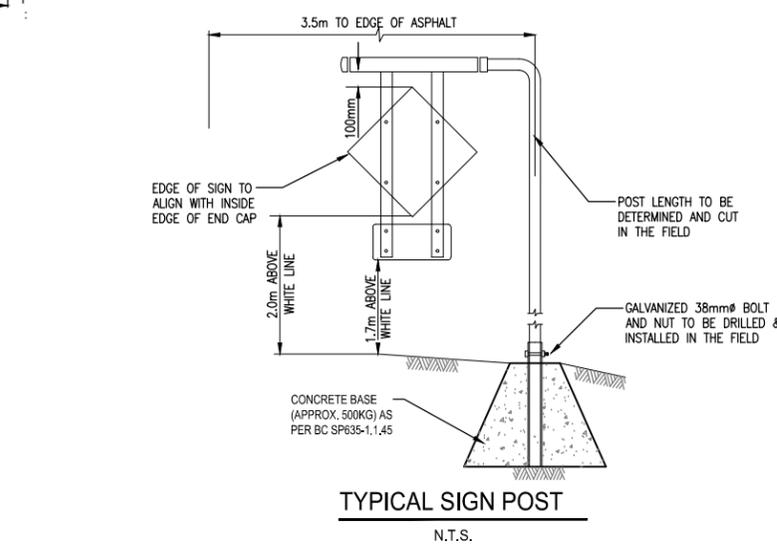


DITCH BLOCK DETAILS



TYPICAL CULVERT TRENCH INSTALLATION

N.T.S.



TYPICAL SIGN POST

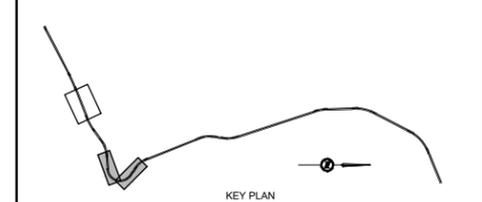
N.T.S.

FILE: G:\PROJECTS\511-00581-00 PARKS - ENG CONST SVCS GLACIER TCH PAVING\10.0 DRAWINGS\10.3 SHEET FILES\PIA_300_TYPICAL_SECTION.DWG PLOTTED: 2018/02/16 11:51 AM

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0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS
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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

18/02/16

Client

Parks Canada Agency
Western and Northern
Region

L'Agence Parcs Canada
Ouest et Nord
du Canada

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

**INTERSECTION DETAILS
ILLECILLEWAET CAMPGROUND
& ASULKAN TRAILHEAD**

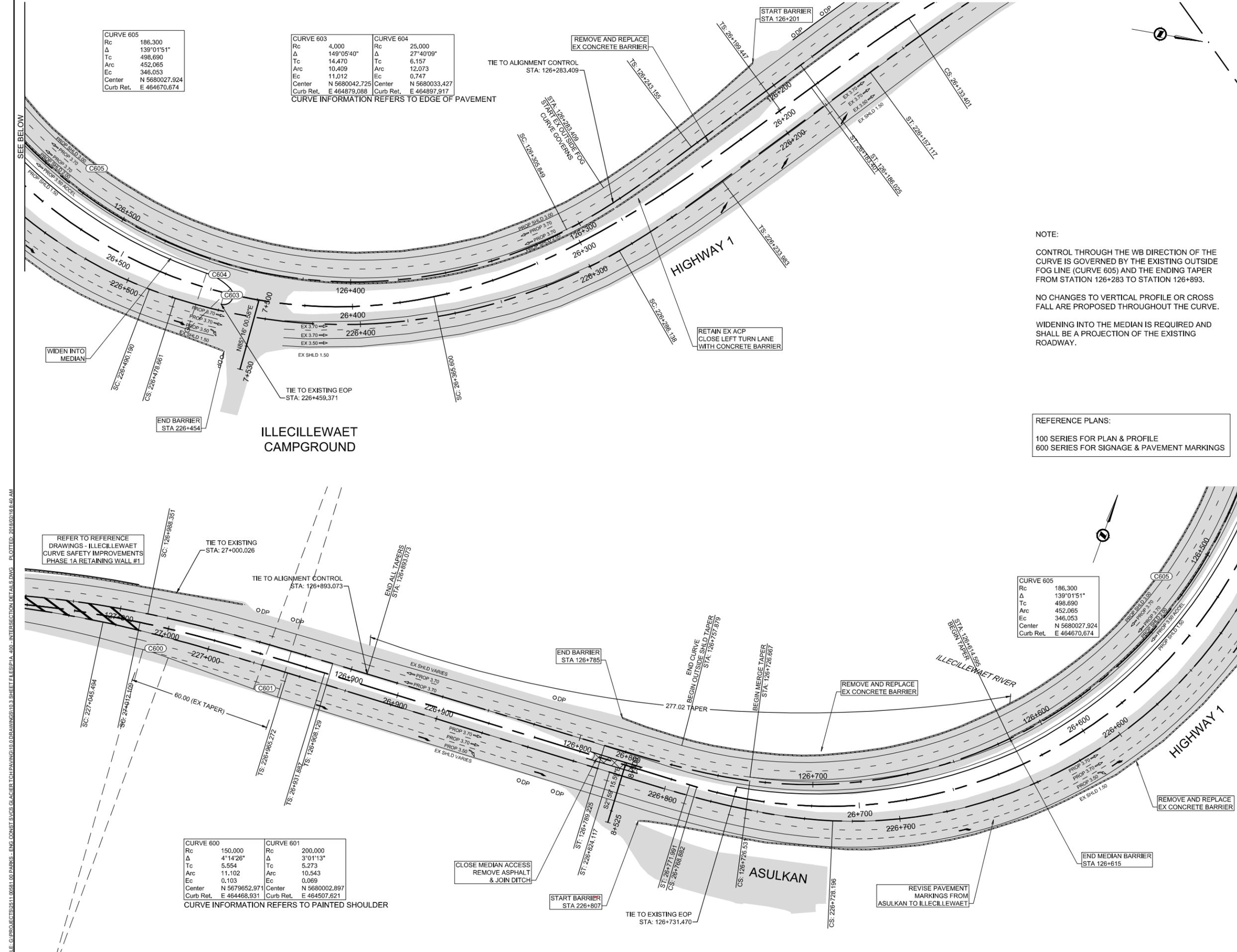
Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:750

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 15
Drawing Reference No. / No. de référence du dessin 406		



CURVE 605

Rc	186.300
Δ	139°01'51"
Tc	498.690
Arc	452.065
Ec	346.053
Center	N 5680027.924
Curb Ret.	E 464670.674

CURVE 603

Rc	4.000
Δ	149°05'40"
Tc	14.470
Arc	10.409
Ec	11.012
Center	N 5680042.725
Curb Ret.	E 464879.088

CURVE 604

Rc	25.000
Δ	27°40'09"
Tc	6.157
Arc	12.073
Ec	0.747
Center	N 5680033.427
Curb Ret.	E 464897.917

CURVE INFORMATION REFERS TO EDGE OF PAVEMENT

CURVE 600

Rc	150.000
Δ	4°14'26"
To	5.554
Arc	11.102
Ec	0.103
Center	N 5679652.971
Curb Ret.	E 464468.931

CURVE 601

Rc	200.000
Δ	3°01'13"
To	5.273
Arc	10.543
Ec	0.069
Center	N 5680002.897
Curb Ret.	E 464507.621

CURVE INFORMATION REFERS TO PAINTED SHOULDER

NOTE:

CONTROL THROUGH THE WB DIRECTION OF THE CURVE IS GOVERNED BY THE EXISTING OUTSIDE FOG LINE (CURVE 605) AND THE ENDING TAPER FROM STATION 126+283 TO STATION 126+893.

NO CHANGES TO VERTICAL PROFILE OR CROSS FALL ARE PROPOSED THROUGHOUT THE CURVE.

WIDENING INTO THE MEDIAN IS REQUIRED AND SHALL BE A PROJECTION OF THE EXISTING ROADWAY.

REFERENCE PLANS:

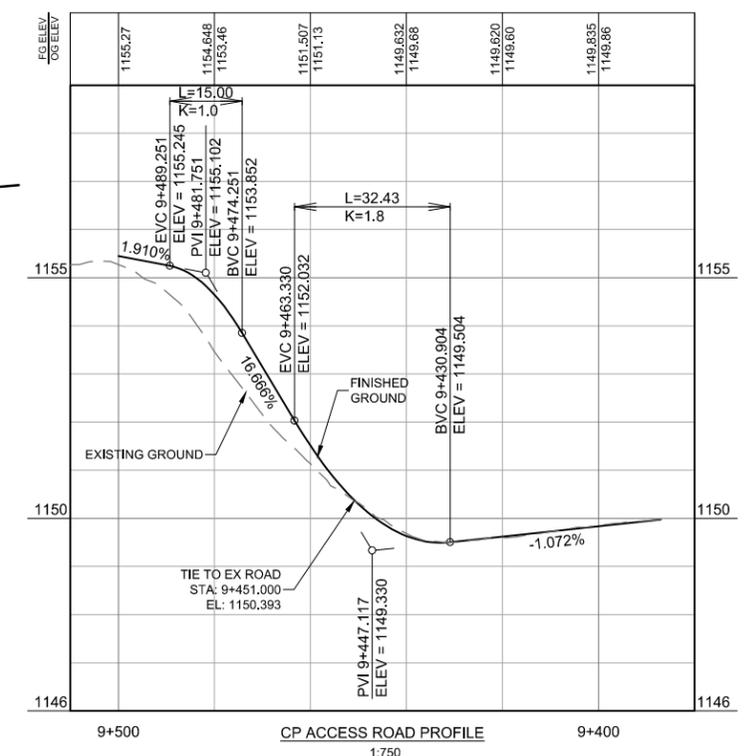
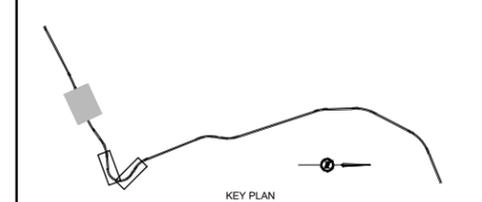
100 SERIES FOR PLAN & PROFILE
600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS

FILE: G:\PROJECTS\5611\005611_00_PARKS - ENG_CONSTR_SVCS_GLACIER_THPAVING\10_DRAWINGS\10_3_SHEET_FILES\PIA_400_INTERSECTION_DETAILS.DWG - PLOTTED: 2018/02/16 8:40 AM

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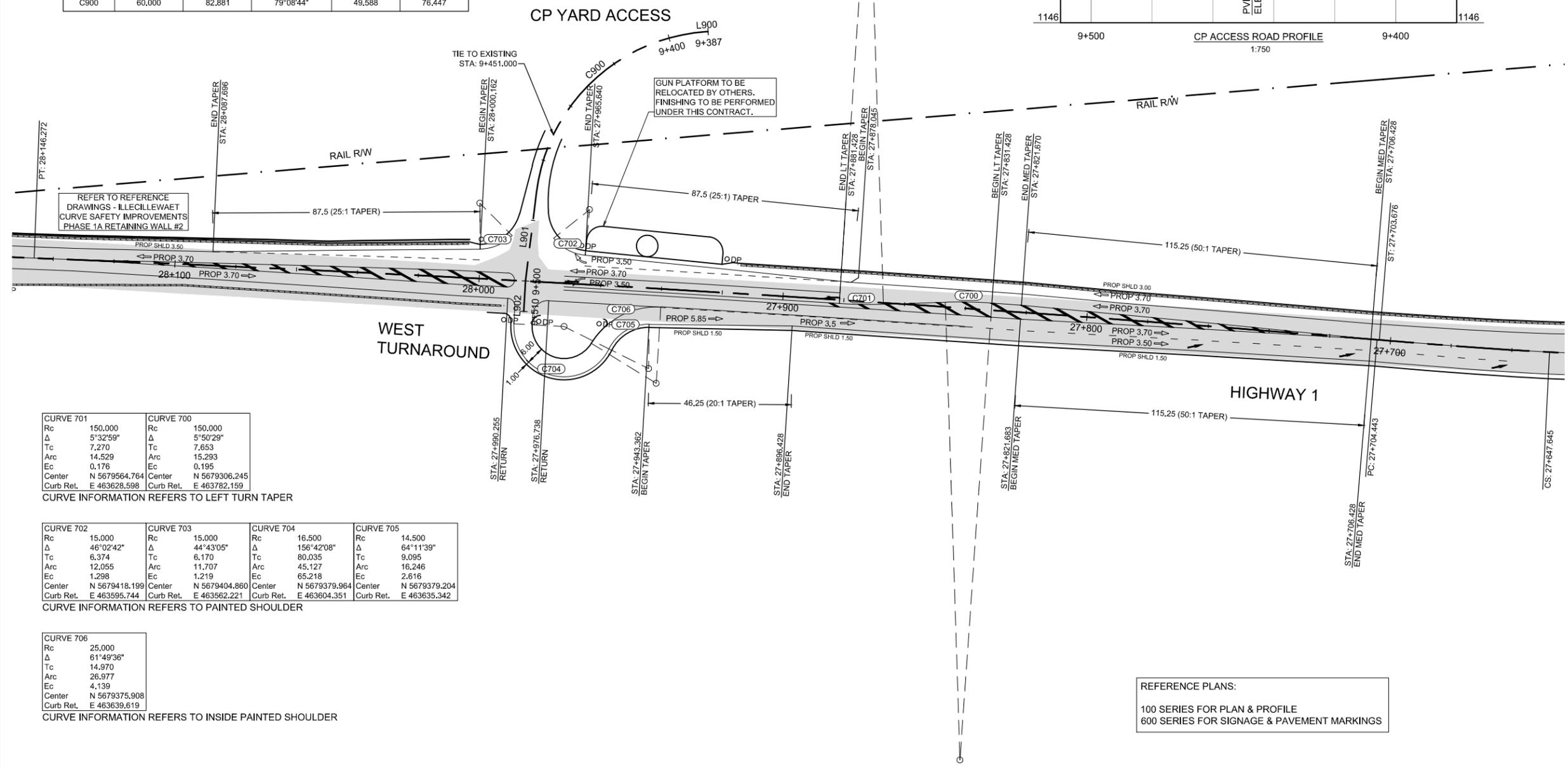
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PT.	STATION	NORTHING	EASTING
L900	9+387.000	5679487.4940	463606.3534
C900	9+387.672	5679487.1708	463605.7638
L901	9+470.553	5679416.1426	463577.4951
L902	9+500.000	5679388.1168	463586.5313

LINE	LENGTH	BEARING
L900	0.672	S61°16'30"W
L901	29.447	S17°52'14"E
L902	10.000	S21°52'14"E

CURVE	RADIUS	LENGTH	Δ	TANGENT	CHORD
C900	60,000	82.881	79°08'44"	49.588	76.447



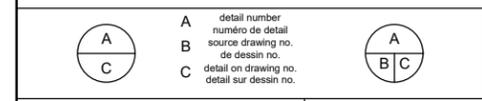
CURVE	Rc	Δ	Tc	Arc	Ec	Center	Curb Ret.
CURVE 701	150,000	5°32'59"	7.270	14.529	0.176	N 5679564.764	E 463628.598
CURVE 700	150,000	5°50'29"	7.653	15.293	0.195	N 5679306.245	E 463782.159

CURVE	Rc	Δ	Tc	Arc	Ec	Center	Curb Ret.
CURVE 702	15,000	46°02'42"	6.374	12.055	1.298	N 5679418.199	E 463595.744
CURVE 703	15,000	44°43'05"	6.170	11.707	1.219	N 5679404.860	E 463562.221
CURVE 704	16,500	156°42'08"	80.035	45.127	65.218	N 5679379.964	E 463604.351
CURVE 705	14,500	64°11'39"	9.095	16.246	2.616	N 5679379.204	E 463635.342

CURVE	Rc	Δ	Tc	Arc	Ec	Center	Curb Ret.
CURVE 706	25,000	61°49'36"	14.970	26.977	4.139	N 5679375.908	E 463639.619

REFERENCE PLANS:
 100 SERIES FOR PLAN & PROFILE
 600 SERIES FOR SIGNAGE & PAVEMENT MARKINGS

Rev.	Date	Description	Drawn	Designed	Approved
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS



Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

Parks Canada Agency
Western and Northern
Region

L'Agence Parcs Canada
Ouest et Nord
du Canada

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION
ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

INTERSECTION DETAILS
CP ACCESS &
WEST TURNAROUND

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:750

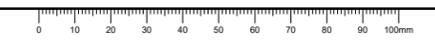
Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 16
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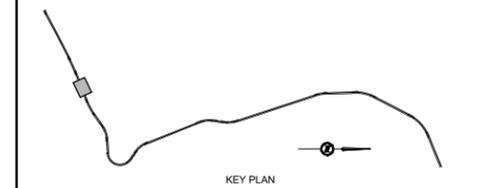
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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS

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

Eng. Stamp
Sceau de l'ingénieur

18/02/16

Client

Parks Canada Agency
Western and Northern
Region

L'Agence Parcs Canada
Ouest et Nord
du Canada

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**
ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

INTERSECTION DETAILS
GUN PLATFORM RELOCATION
GLACIER (CP) GP

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.09
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:150

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

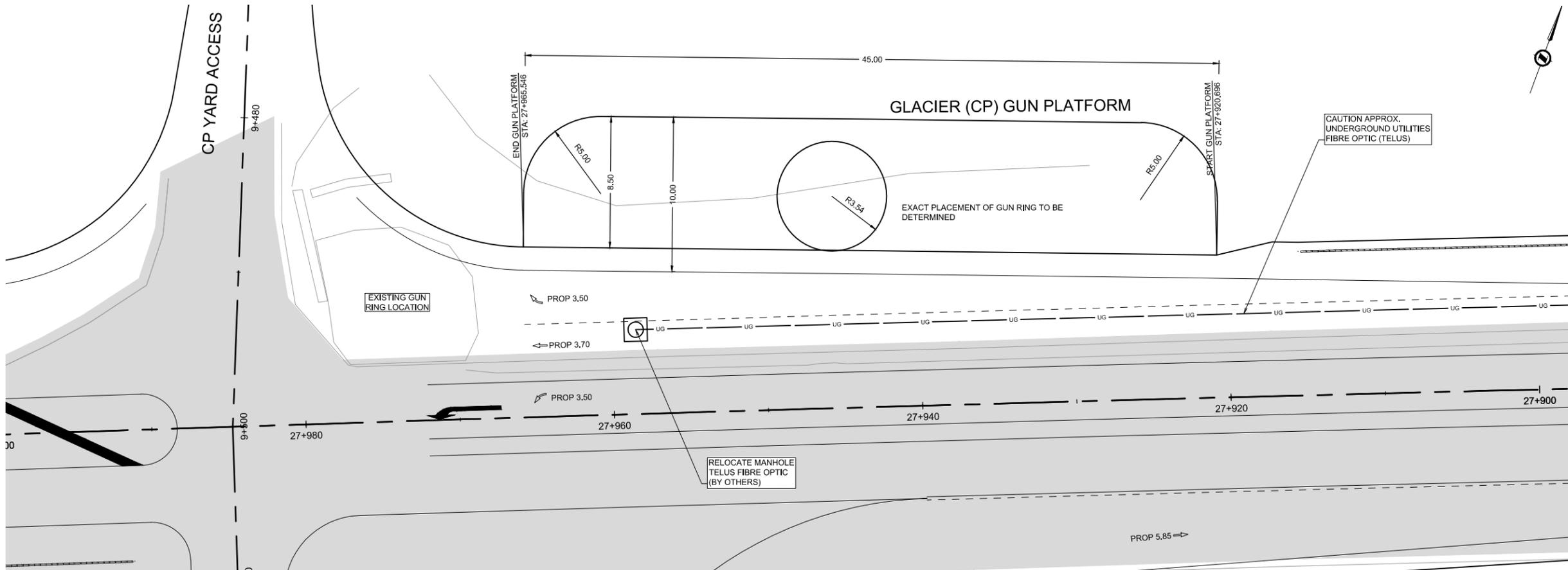
Client Acceptance / Acceptation du client	Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du-bien	Sheet No. / No. de la feuille 17
Drawing Reference No. / No. de référence du dessin 408		

NOTE:

CP GUN PLATFORM TO BE RELOCATED BY OTHERS. FINISHING TO BE PERFORMED UNDER THIS CONTRACT.

CAUTION APPROX.
UNDERGROUND UTILITIES
FIBRE OPTIC (TELUS)



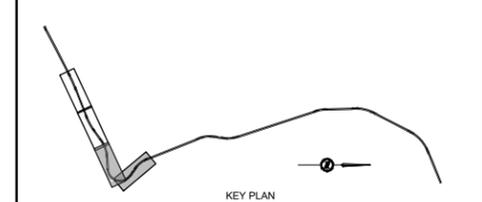
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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS

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

Consultant's Stamp / Soceau de l'expert-conseil

Eng. Stamp / Soceau de l'ingénieur

Client

Parks Canada Agency / Western and Northern Region

L'Agence Parcs Canada / Ouest et Nord du Canada

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

McElhanney
McElhanney Consulting Services Ltd.

Project Title / Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title / Titre du dessin

SIGNAGE & PAVEMENT MARKINGS

**TRANS-CANADA HIGHWAY
STA 25+850 TO STA 27+150**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.09
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:1000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

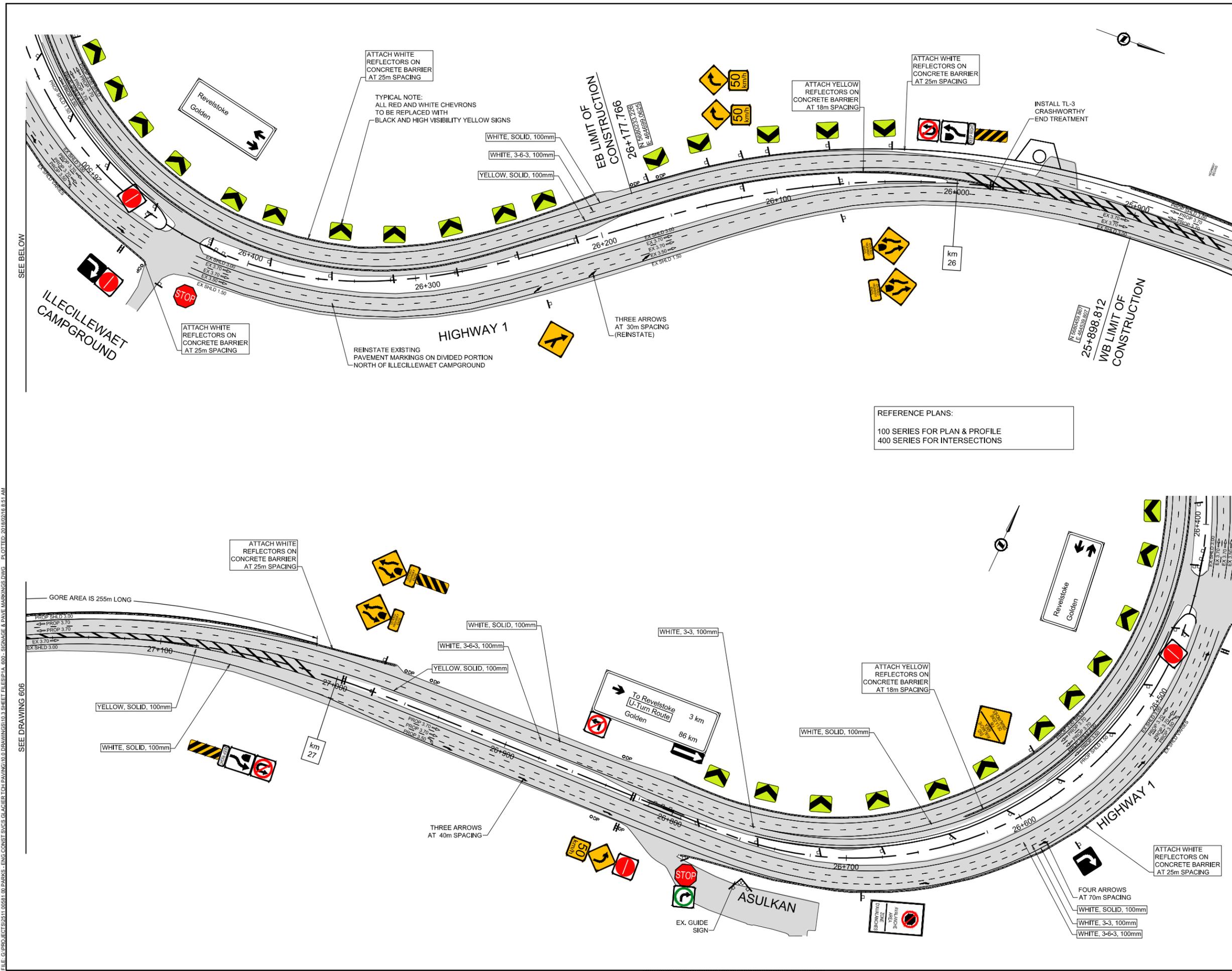
Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du-bien	Sheet No. / No. de la feuille 18
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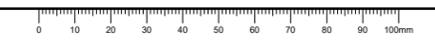
Drawing Reference No. / No. de référence du dessin

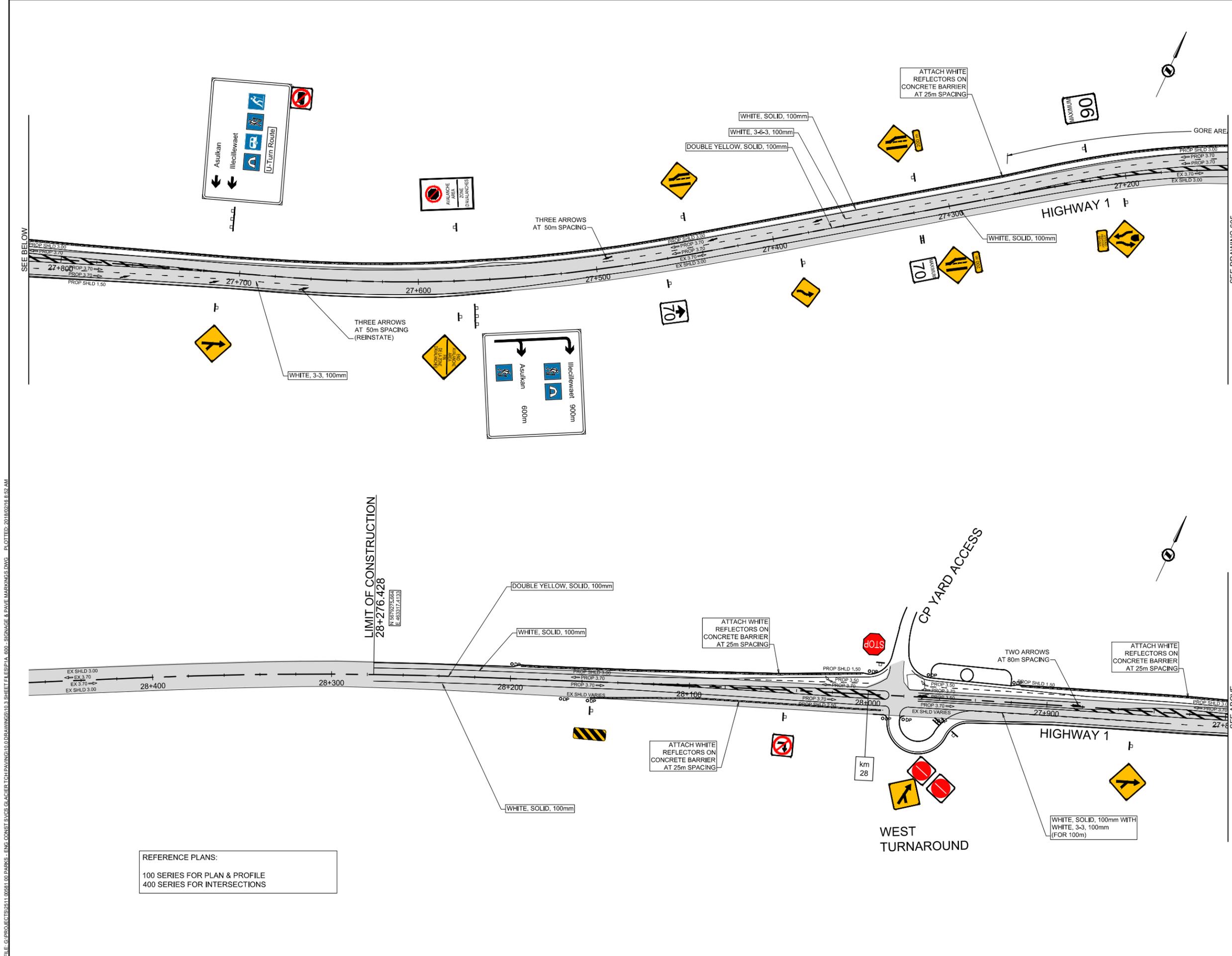
605



REFERENCE PLANS:
100 SERIES FOR PLAN & PROFILE
400 SERIES FOR INTERSECTIONS

FILE: G:\PROJECTS\511-00581-00 PARKS - ENG CONST SVCS GLACIER TCH PAVING\10.0 DRAWINGS\10.0 SHEET FILES\PIA_606_SIGNAGE & PAVE MARKINGS.DWG - P_CITTED: 2018/02/16 8:51 AM



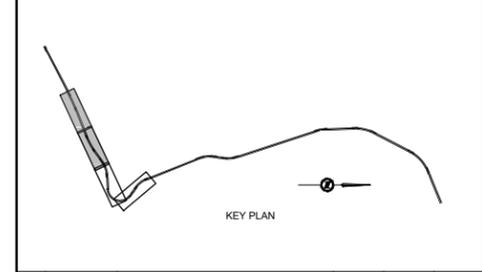


REFERENCE PLANS:
 100 SERIES FOR PLAN & PROFILE
 400 SERIES FOR INTERSECTIONS

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Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS

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

Consultant's Stamp
 Sceau de l'expert-conseil

Eng. Stamp
 Sceau de l'ingénieur

Client

Parks Canada Agency
 Western and Northern
 Region

L'Agence Parcs Canada
 Ouest et Nord
 du Canada

Consultant's Name
 Nom de l'expert-conseil

McElhanney
 McElhanney Consulting Services Ltd.

Project Title
 Titre du projet

**TRANS-CANADA HIGHWAY
 ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
 PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
 GLACIER NATIONAL PARK, BC

Drawing Title
 Titre du dessin

SIGNAGE & PAVEMENT MARKINGS

**TRANS-CANADA HIGHWAY
 STA 27+150 TO STA 28+450**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.09
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 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 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 19
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FILE: G:\PROJECTS\5611_00561_00_PARKS - ENG CONST SVCS GLACIER TCH PAVING\100 DRAWINGS\103 SHEET FLESP1A_600_SIGNAGE & PAVE MARKINGS.DWG - P_GTTED: 2018/02/16 8:52 AM



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CULVERT INSTALLATION TABLE																									
ID	STATION	TYPE	WT (mm)	SIZE (mm)	LENGTH (m)									SKEW (d)		INVERT COORDINATES						RIP RAP (m3)		REMARKS	
					RT			LT			OVERALL			ANGLE		RT			LT			RT	LT		
					REMOVE	NEW	ELBOW	REMOVE	NEW	ELBOW	REMOVE	NEW	TOTAL			N	E	Z	N	E	Z				
19	26+340	CSP	2.0	800	-	-	-	-	-	-	-	-	-	55.3	5d51'	LHF	5680125.307	464816.551	1213.461	5680164.110	464855.895	1217.266	-	-	ABANDON IN PLACE
19b	26+290	CSP	2.0	900	-	-	-	-	-	-	-	-	58.5	5d51'	LHF	5680154.076	464793.857	1216.554	5680210.020	464810.352	1220.355	2.8	3.3	EXISTING - RETAIN IN PLACE	
19c	26+200	CSP	2.0	900	-	-	-	-	-	-	-	-	-	-	-	LHF									EXISTING - RETAIN IN PLACE
20	26+415	CSP	1.6	450	-	-	-	-	-	-	-	-	28.3	6d40'	LHF	5680066.642	464844.102	1209.973	5680077.897	464870.115	1211.391	-	-	MEDIAN DRAIN, CLEAN INLET	
20b	26+440	CSP	2.0	900	-	-	-	-	-	-	-	-	20.2	-	RHF	5680071.457	464899.654	1209.364	5680044.333	464905.866	1207.209	-	-	EX - UNDER ILLECILLEWAET ACCESS	
21	26+669	CSP	2.0	900	-	-	-	-	-	-	-	-	75.2	2d04'	RHF	5679889.987	464768.298	1190.875	5679824.809	464805.718	1193.711	-	-	CLEAN	
22	26+818	CSP	2.0	900	-	-	-	-	-	-	-	-	44.4	0d45'	LHF	5679847.398	464642.167	1194.148	5679803.122	464645.060	1195.799	-	-	CLEAN	
23	27+001	CSP	2.0	900	-	-	-	-	-	-	-	-	43.9	2d30'	RHF	5676836.037	464459.915	1188.133	5679792.230	464463.363	1189.826	-	-	CLEAN	
24	27+093	CSP	1.6	600	0.0	5.2	-	0.0	0.0	-	0.0	5.2	39.8	3d10'	RHF	5679818.145	464365.040	1184.660	5679780.130	464375.630	1186.784	6.6	-	CLEAN INLET, EXTEND OUTLET	
25	27+230	CSP	2.0	900	0.0	4.0	-	0.0	0.0	-	0.0	4.0	34.4	3d37'	RHF	5679749.636	464238.984	1180.555	5679720.721	464257.417	1181.947	3.3	-	CLEAN INLET, EXTEND OUTLET	
26	27+519	CSP	2.0	800	-	-	-	-	-	-	31.4	31.4	31.4	0d	-	5679581.918	464004.307	1168.609	5679554.991	464020.543	1170.759	12.9	-	REMOVE AND REPLACE	
27	27+570	CSP	2.8	1200	0.0	6.0	-	0.0	0.0	-	0.0	6.0	39.0	13d46'	RHF	5679561.711	463962.751	1165.135	5679523.879	463971.870	1167.677	22.1	-	CLEAN INLET, EXTEND OUTLET	
27b	27+640	CSP	2.0	660 / 700	0.0	6.7	-	-	-	-	0.0	6.7	34.3	-	-	5679529.713	463897.059	1163.470	5679498.304	463910.501	1166.011	42.1	-	EXTEND OUTLET (w/ 700mm)	
27c	27+887	CSP	2.0	760 / 800	-	-	-	-	-	-	28.8	51.0	51.0	-	-	5679452.789	463666.576	1150.891	5679405.284	463684.414	1155.214	5.2	4.5	REMOVE (760) AND REPLACE (800)	
27d	28+099	CSP	2.8	1200	-	-	-	-	-	-	-	-	49.4	-	-	5679365.590	463471.375	1142.405	5679319.747	463489.795	1145.100	-	-	EXISTING - RETAIN IN PLACE	
P4	27+936	CSP	2.0	900	-	-	-	-	-	-	-	-	49.8	49.8	-	RHF	5679374.819	463632.561	1151.837	5679355.808	463586.663	1148.153	2.8	3.3	UNDER WEST TURNAROUND
P5	27+975	CSP	2.0	600	-	-	-	-	-	-	-	-	14.3	14.3	-	RHF	5679374.866	463601.324	1153.756	5679363.372	463592.831	1153.274	5.9	2.8	DRAINS TURNAROUND MEDIAN

NOTES:

CONTRACTOR TO CONFIRM ACTUAL CULVERT LENGTHS, SIZES AND WEIGHTS PRIOR TO ORDERING TO SITE.
ALL INLET AND OUTLET LOCATIONS TO BE CONFIRMED ON SITE AND APPROVED BY DEPARTMENTAL REPRESENTATIVE.

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0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Client  Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---	---

Consultant's Name Nom de l'expert-conseil  McElhanney McElhanney Consulting Services Ltd.
--

Project Title
Titre du projet
**TRANS-CANADA HIGHWAY
 ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
 PHASE 1A & PAVEMENT REHABILITATION**
 ROGERS PASS
 GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin
**CULVERT INSTALLATION
 TABLE**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.09
Designed by / Conçu par DRL	Reviewed by / Revisé par RAS	Scale / Echelle

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

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 20
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Drawing Reference No. / No. de référence du dessin
700

FILE: G:\PROJECTS\5611_00561_00 PARKS - ENG CONST SVCS GLACIER TCH PAVING\10.0 DRAWINGS\10.3 SHEET FILES\PIA_700 - CULVERT TABLE.DWG PLOTTED: 2018/02/16 8:43 AM

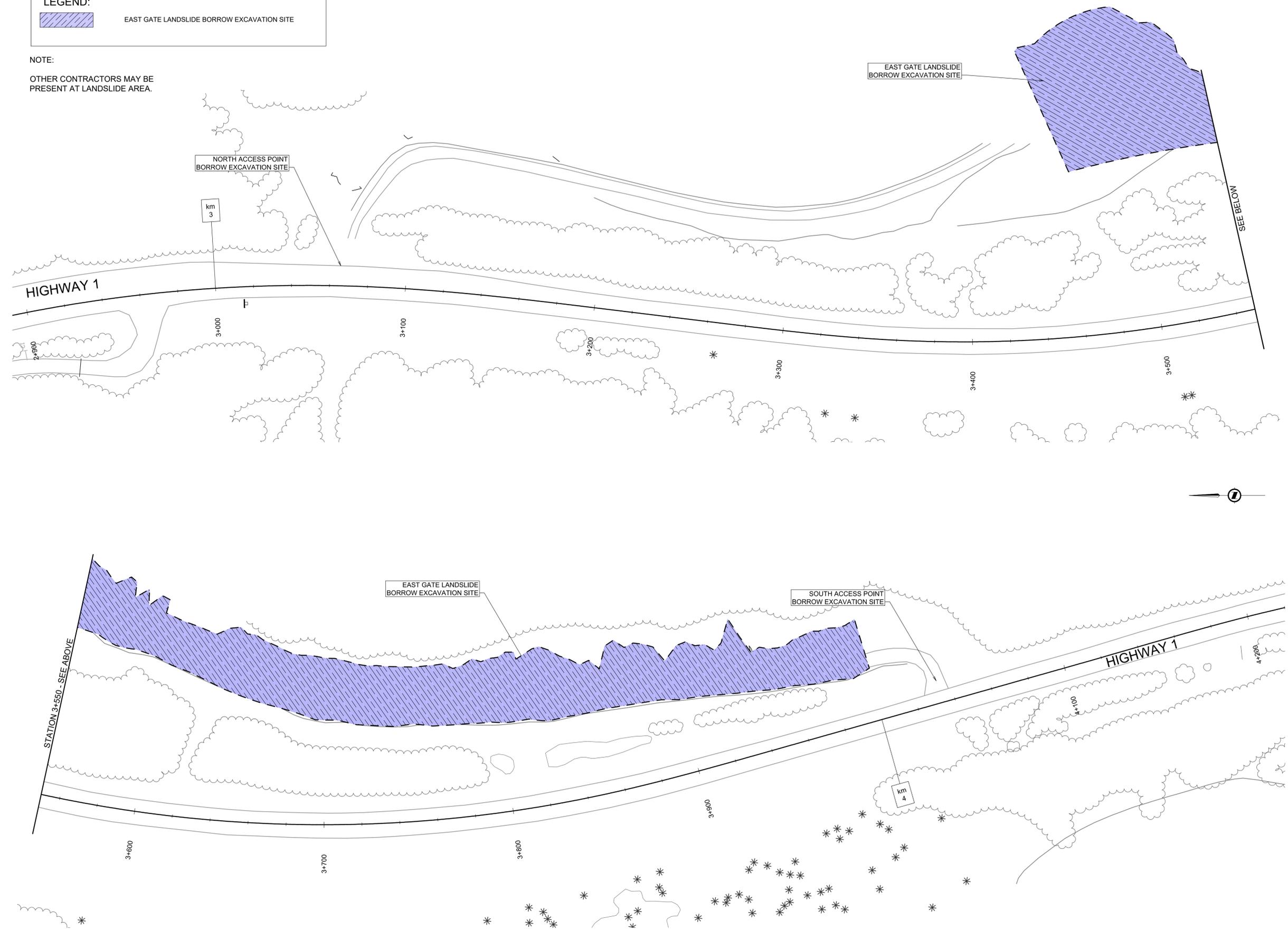
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LEGEND:
 EAST GATE LANDSLIDE BORROW EXCAVATION SITE

NOTE:
 OTHER CONTRACTORS MAY BE PRESENT AT LANDSLIDE AREA.



Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé
0	2018.02.16	ISSUED FOR TENDER	JKR	DRL	RAS

A B 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
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Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

 Parks Canada Agency
Western and Northern
Region

L'Agence Parcs Canada
Ouest et Nord
du Canada

Consultant's Name
Nom de l'expert-conseil

 **McElhanney**
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
 ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
 PHASE 1A & PAVEMENT REHABILITATION**
 ROGERS PASS
 GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

**EAST GATE LANDSLIDE
 BORROW EXCAVATION AREA
 TRANS-CANADA HIGHWAY
 STA 2+900 TO STA 4+200**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par JKR	Date 2018.02.09
Designed by / Conçu par DRL	Reviewed by / Revisé par RAS	Scale / Echelle 1:1000

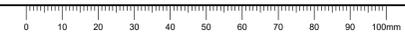
Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client

Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. No. de la feuille 21
Drawing Reference No. / No. de référence du dessin 901		

FILE: G:\PROJECTS\2511_0851_L01 PARKS - ENG CONST SVCS GLACIER TCH PAVING\10.0 DRAWINGS\10.3 SHEET FILES\PIA_000 BORROW SITE PLAN.DWG - PLOTTED: 2018/02/16 8:48 AM



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LEGEND

-  CRACK SEALING
-  MILL AND FILL PATCH
-  MILL AND FILL + OVERLAY
-  BARRIER REMOVE + REPLACE W/ NEW
-  PULLOUT 50mm OVERLAY
-  PROFILE MILLING + OVERLAY
-  NO WORK REQUIRED

0	2018.02.16	ISSUED FOR TENDER	LJ	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Client

 Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---	---

Consultant's Name
Nom de l'expert-conseil

 **McElhanney**
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**

ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

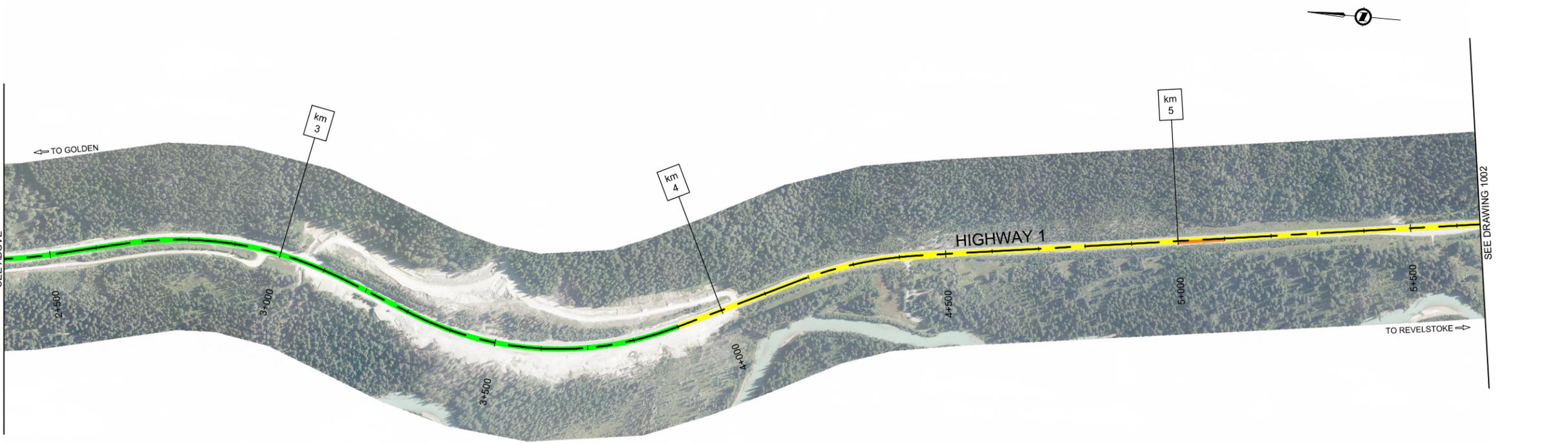
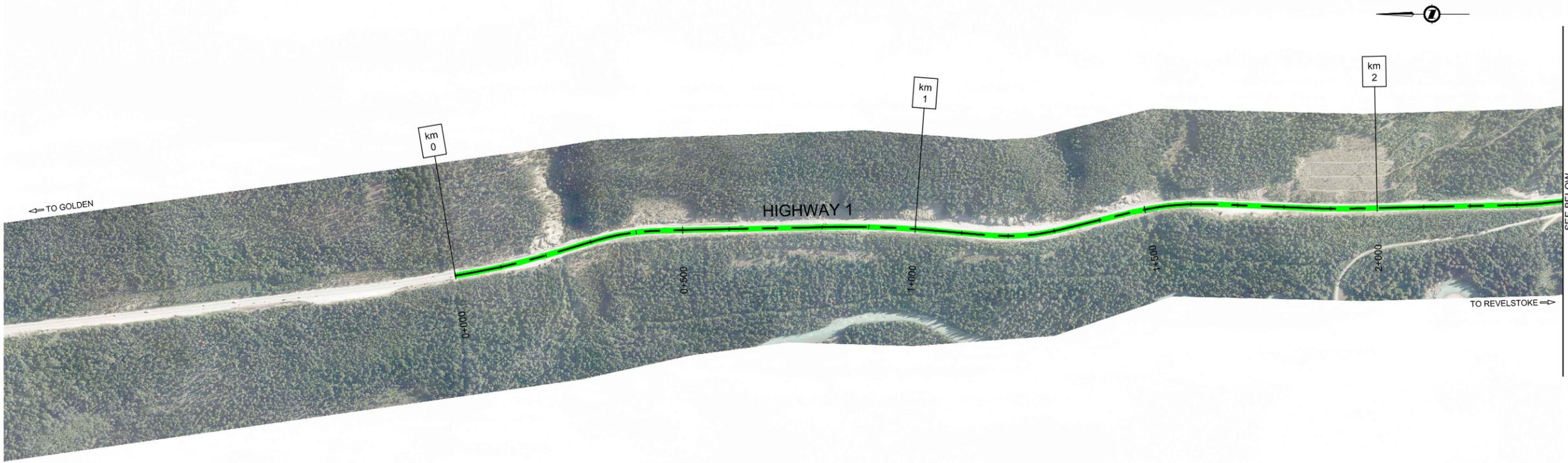
**PAVEMENT REHABILITATION
& ROADWAY REPAIRS
TRANS-CANADA HIGHWAY
STA 0+000 TO STA 5+650**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par LJ	Date 2018.02.13
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:5000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

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

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 22
Drawing Reference No. / No. de référence du dessin 1001		



NOTE:
LOCATIONS OF PAVEMENT REPAIRS ARE APPROXIMATE.
FINAL LOCATION TO BE DETERMINED BY THE DEPARTMENTAL
REPRESENTATIVE IN THE FIELD.



FILE: G:\PROJECTS\5611_00_PARKS - ENG_CONSTR_SVCS_GLACIER_TCH_PAVING\10.0_DRAWINGS\10.3_SHEET_FILES\1000 - B14_PAVING_PLANS.DWG - PLOTTED: 2018/02/16 9:22 AM

Paper Size: ANSI D (22 x 34")

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LEGEND

-  CRACK SEALING
-  MILL AND FILL PATCH
-  MILL AND FILL + OVERLAY
-  BARRIER REMOVE + REPLACE W/ NEW
-  PULLOUT 50mm OVERLAY
-  PROFILE MILLING + OVERLAY
-  NO WORK REQUIRED

0	2018.02.16	ISSUED FOR TENDER	LJ	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

A B C	detail number numéro de détail source drawing no. de dessin no. detail on drawing no. détail sur dessin no.	A B C
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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
	 18/02/16

Client

	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---	---	---

Consultant's Name
Nom de l'expert-conseil

 **McElhanney**
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**
ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

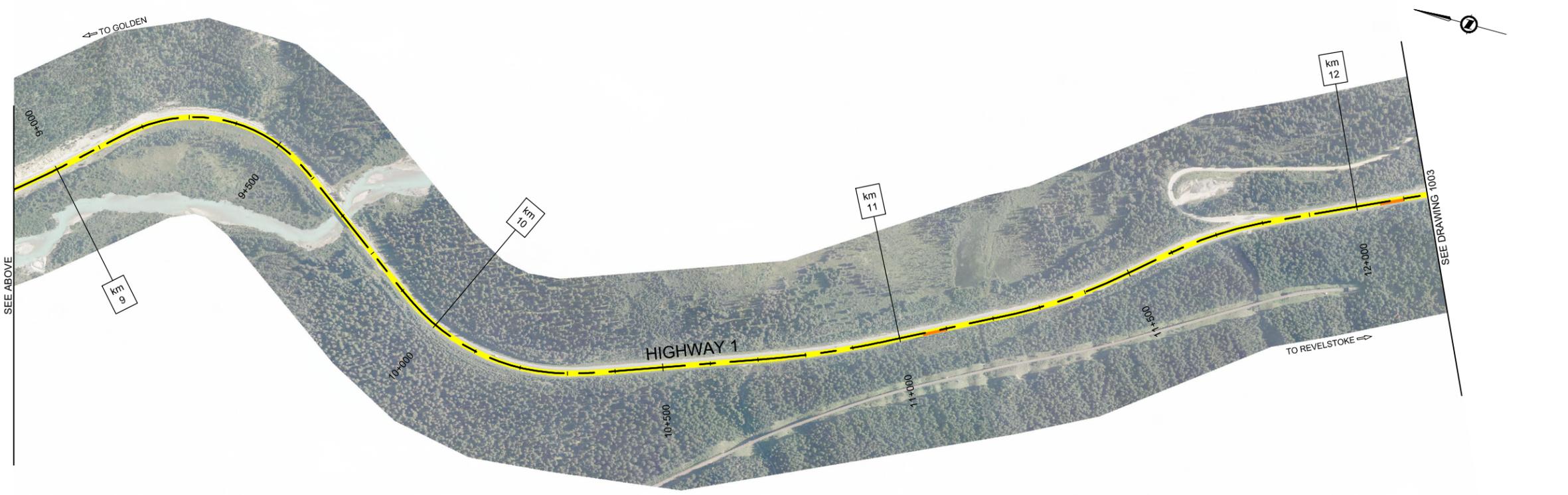
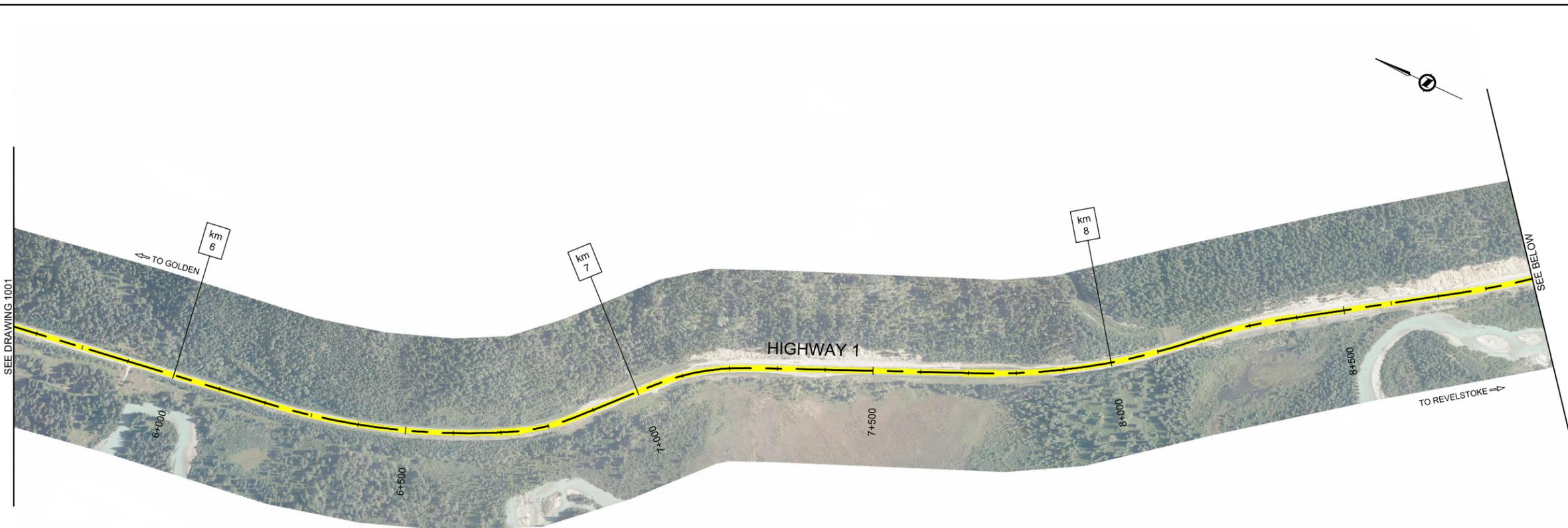
**PAVEMENT REHABILITATION
& ROADWAY REPAIRS
TRANS-CANADA HIGHWAY
STA 5+650 TO STA 12+150**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par LJ	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:5000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client	Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. No. de la feuille 23
Drawing Reference No. / No. de référence du dessin 1002		



NOTE:
LOCATIONS OF PAVEMENT REPAIRS ARE APPROXIMATE.
FINAL LOCATION TO BE DETERMINED BY THE DEPARTMENTAL REPRESENTATIVE IN THE FIELD.

FILE: G:\PROJECTS\5611_00861_00_PARKS - ENG_CONSTR_SVCS_GLACIER_TCH_PAVING\10_0 DRAWINGS\10_3 SHEET FILES\1000 - B14 PAVING PLANS.DWG - PLOTTED: 2018/02/16 9:23 AM





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LEGEND

- CRACK SEALING
- MILL AND FILL PATCH
- MILL AND FILL + OVERLAY
- BARRIER REMOVE + REPLACE W/ NEW
- PULLOUT 50mm OVERLAY
- PROFILE MILLING + OVERLAY
- NO WORK REQUIRED

0	2018.02.16	ISSUED FOR TENDER	LJ	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Client

 Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---	---

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**
 ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

**PAVEMENT REHABILITATION
& ROADWAY REPAIRS
TRANS-CANADA HIGHWAY
STA 12+150 TO STA 18+650**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par LJ	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:5000

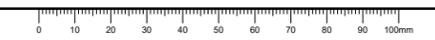
Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client	Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. No. de la feuille 24
Drawing Reference No. / No. de référence du dessin 1003		

NOTE:
LOCATIONS OF PAVEMENT REPAIRS ARE APPROXIMATE.
FINAL LOCATION TO BE DETERMINED BY THE DEPARTMENTAL
REPRESENTATIVE IN THE FIELD.

FILE: G:\PROJECTS\511.00\511.00 PARKS - ENG CONST SVCS GLACIER TCH PAVING\10.0 DRAWINGS\10.3 SHEET FILES\1000 - B14 PAVING PLANS.DWG - PLOTTED: 2018/02/16 9:23 AM



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LEGEND

-  CRACK SEALING
-  MILL AND FILL PATCH
-  MILL AND FILL + OVERLAY
-  BARRIER REMOVE + REPLACE W/ NEW
-  PULLOUT 50mm OVERLAY
-  PROFILE MILLING + OVERLAY
-  NO WORK REQUIRED

0	2018.02.16	ISSUED FOR TENDER	LJ	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

A B 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
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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
	 18/02/16

Client

 Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
---	---

Consultant's Name
Nom de l'expert-conseil

 **McElhanney**
 McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
 ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
 PHASE 1A & PAVEMENT REHABILITATION**
 ROGERS PASS
 GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

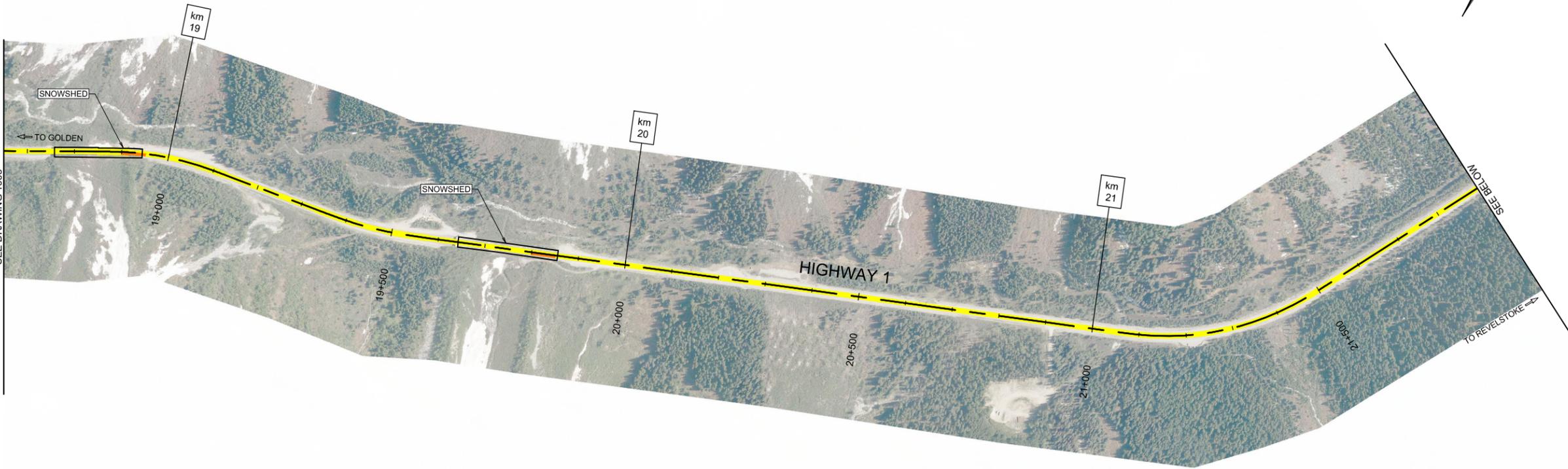
**PAVEMENT REHABILITATION
 & ROADWAY REPAIRS
 TRANS-CANADA HIGHWAY
 STA 18+650 TO STA 25+150**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par LJ	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:5000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client	Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 25
Drawing Reference No. / No. de référence du dessin 1004		



NOTE:
 LOCATIONS OF PAVEMENT REPAIRS ARE APPROXIMATE.
 FINAL LOCATION TO BE DETERMINED BY THE DEPARTMENTAL
 REPRESENTATIVE IN THE FIELD.

FILE G:\PROJECTS\5611.00 PARKS - ENG CONST SVCS GLACIER TCH PAVING\10.0 DRAWINGS\10.3 SHEET FILES\1000 - B14 PAVING PLANS.DWG - PLOTTED - 2018/02/16 9:23 AM



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LEGEND

- CRACK SEALING
- MILL AND FILL PATCH
- MILL AND FILL + OVERLAY
- BARRIER REMOVE + REPLACE W/ NEW
- PULLOUT 50mm OVERLAY
- PROFILE MILLING + OVERLAY
- NO WORK REQUIRED

0	2018.02.16	ISSUED FOR TENDER	LJ	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Client

 Parks Canada Agency Western and Northern Region	 L'Agence Parcs Canada Ouest et Nord du Canada
---	---

Consultant's Name
Nom de l'expert-conseil

McElhanney
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**
 ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

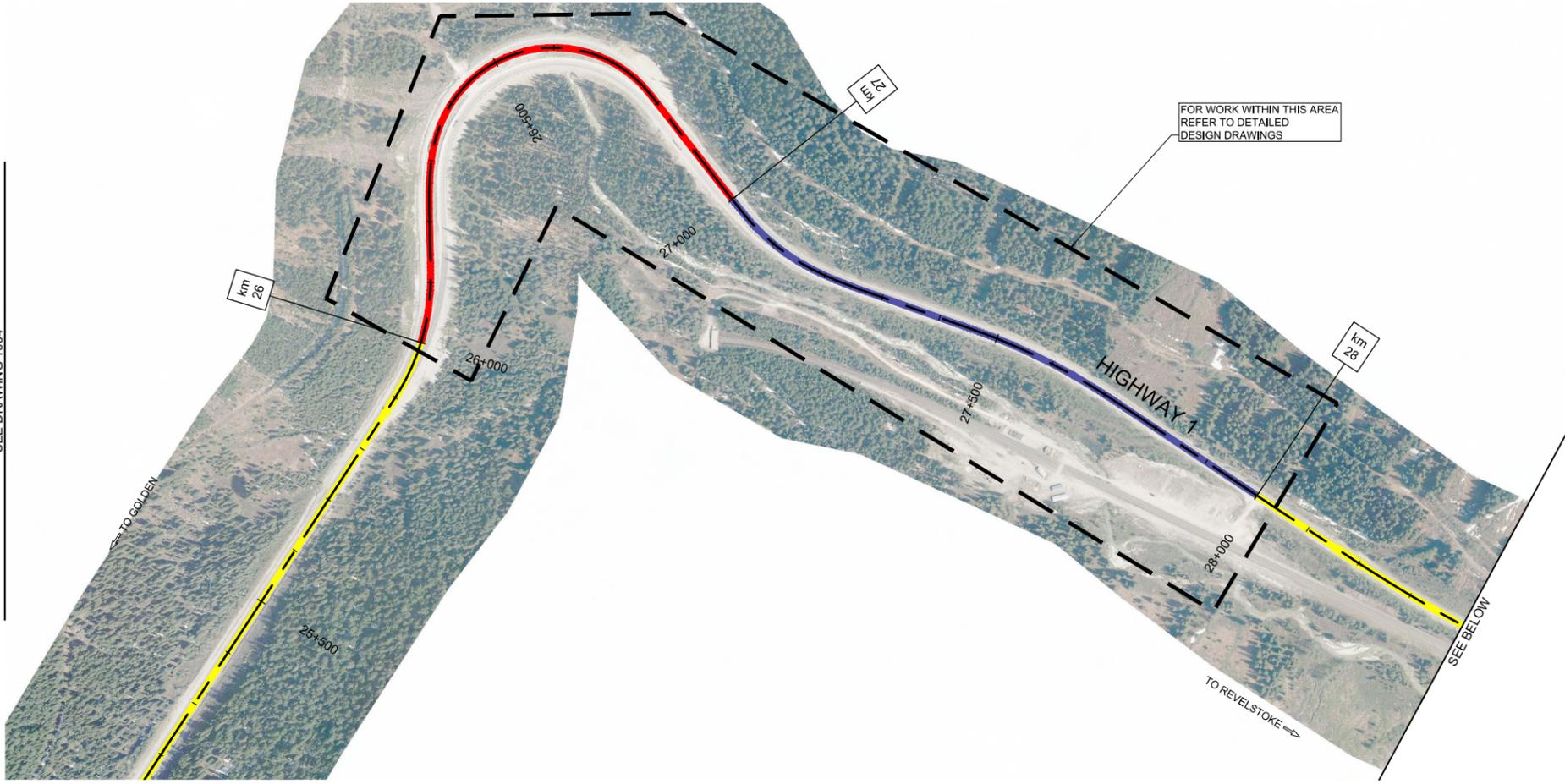
**PAVEMENT REHABILITATION
& ROADWAY REPAIRS
TRANS-CANADA HIGHWAY
STA 25+150 TO STA 31+650**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par LJ	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Revisé par RAS	Scale / Echelle 1:5000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client	Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 26
Drawing Reference No. / No. de référence du dessin 1005		



NOTE:
LOCATIONS OF PAVEMENT REPAIRS ARE APPROXIMATE.
FINAL LOCATION TO BE DETERMINED BY THE DEPARTMENTAL REPRESENTATIVE IN THE FIELD.

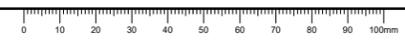
FILE: G:\PROJECTS\5611_00\PARKS - ENG CONSR SVCS GLACIER TCH PAVING\100 DRAWINGS\1003 SHEET FILES\1000 - B14 PAVING PLANS.DWG - PLOTTED: 2018/02/16 9:24 AM

SEE DRAWING 1004

SEE ABOVE

SEE BELOW

SEE DRAWING 1005



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LEGEND

-  CRACK SEALING
-  MILL AND FILL PATCH
-  MILL AND FILL + OVERLAY
-  BARRIER REMOVE + REPLACE W/ NEW
-  PULLOUT 50mm OVERLAY
-  PROFILE MILLING + OVERLAY
-  NO WORK REQUIRED

0	2018.02.16	ISSUED FOR TENDER	LJ	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

A B 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
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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
	 18/02/16

Client

	Parks Canada Agency Western and Northern Region	L'Agence Parcs Canada Ouest et Nord du Canada
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Consultant's Name
Nom de l'expert-conseil

 **McElhanney**
McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
PHASE 1A & PAVEMENT REHABILITATION**
ROGERS PASS
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

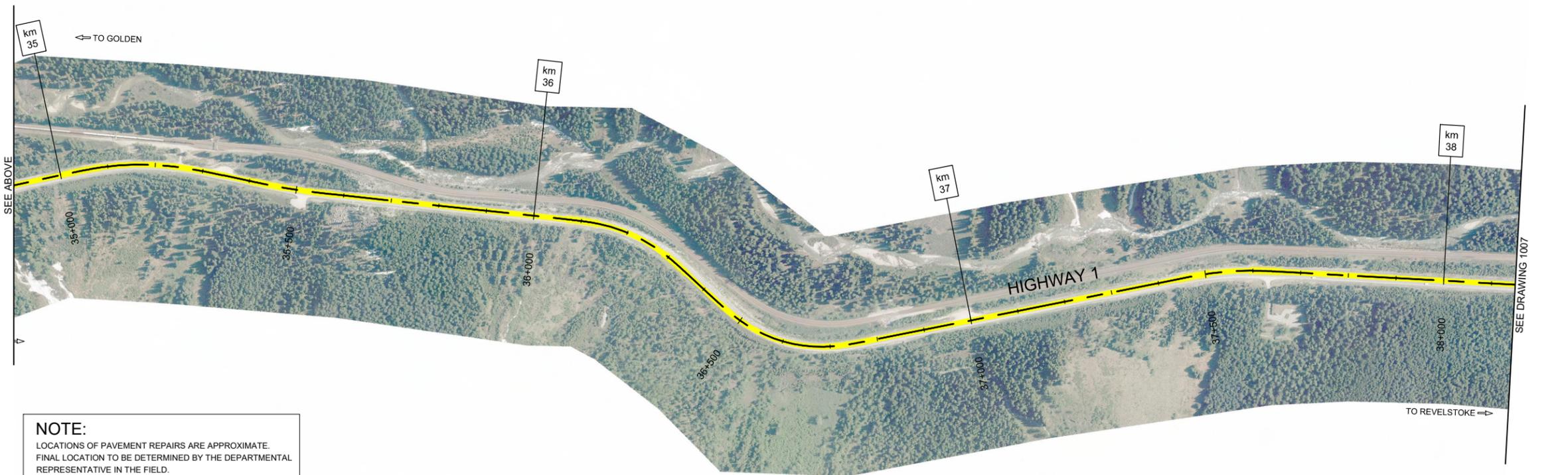
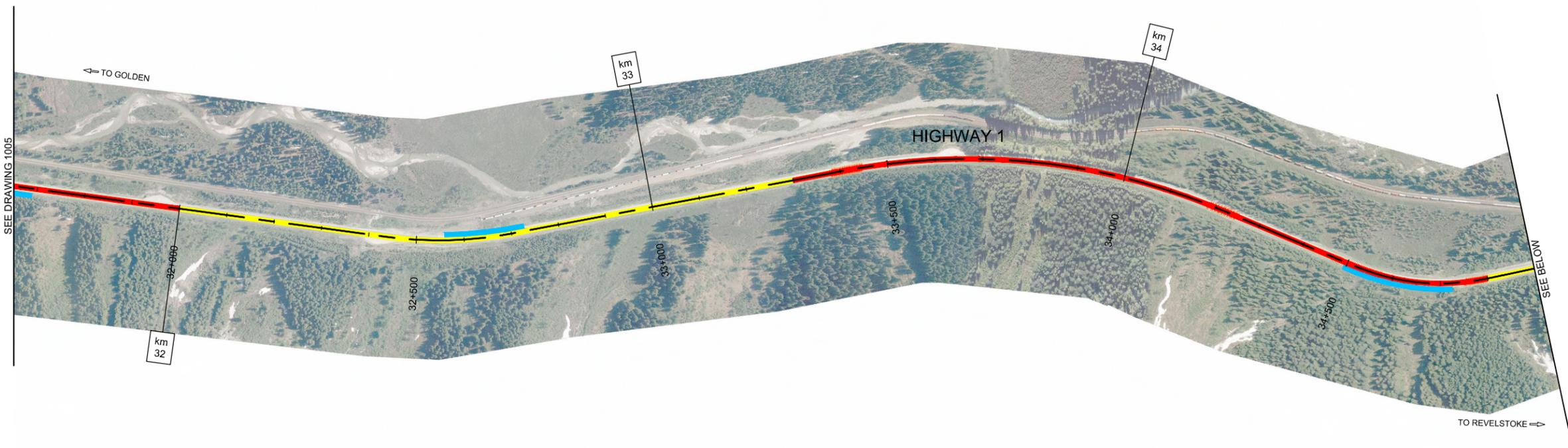
**PAVEMENT REHABILITATION
& ROADWAY REPAIRS
TRANS-CANADA HIGHWAY
STA 31+650 TO STA 38+150**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par LJ	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Révisé par RAS	Scale / Echelle 1:5000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client	Approved by / Approuvé par

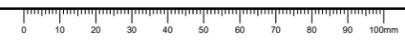
Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 27
Drawing Reference No. / No. de référence du dessin 1006		



NOTE:
LOCATIONS OF PAVEMENT REPAIRS ARE APPROXIMATE.
FINAL LOCATION TO BE DETERMINED BY THE DEPARTMENTAL REPRESENTATIVE IN THE FIELD.

FILE: G:\PROJECTS\5611_00561_00_PARKS - ENG_CONSTR_EVCS_GLACIER_TCH_PAVING\10_DRAWINGS\10_3_SHEET_FILES\1000_1014_PAVING_PLANS.DWG - PLOTTED: 2018/02/16 9:24 AM

Paper Size: ANSI D (22 x 34")



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LEGEND

- CRACK SEALING
- MILL AND FILL PATCH
- MILL AND FILL + OVERLAY
- BARRIER REMOVE + REPLACE W/ NEW
- PULLOUT 50mm OVERLAY
- PROFILE MILLING + OVERLAY
- NO WORK REQUIRED

0	2018.02.16	ISSUED FOR TENDER	LJ	DRL	RAS
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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

Client

 Parks Canada Agency Western and Northern Region	 L'Agence Parcs Canada Ouest et Nord du Canada
--	---

Consultant's Name
Nom de l'expert-conseil


McElhanney
 McElhanney Consulting Services Ltd.

Project Title
Titre du projet

**TRANS-CANADA HIGHWAY
 ILLECILLEWAET CURVE SAFETY IMPROVEMENTS
 PHASE 1A & PAVEMENT REHABILITATION**
 ROGERS PASS
 GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

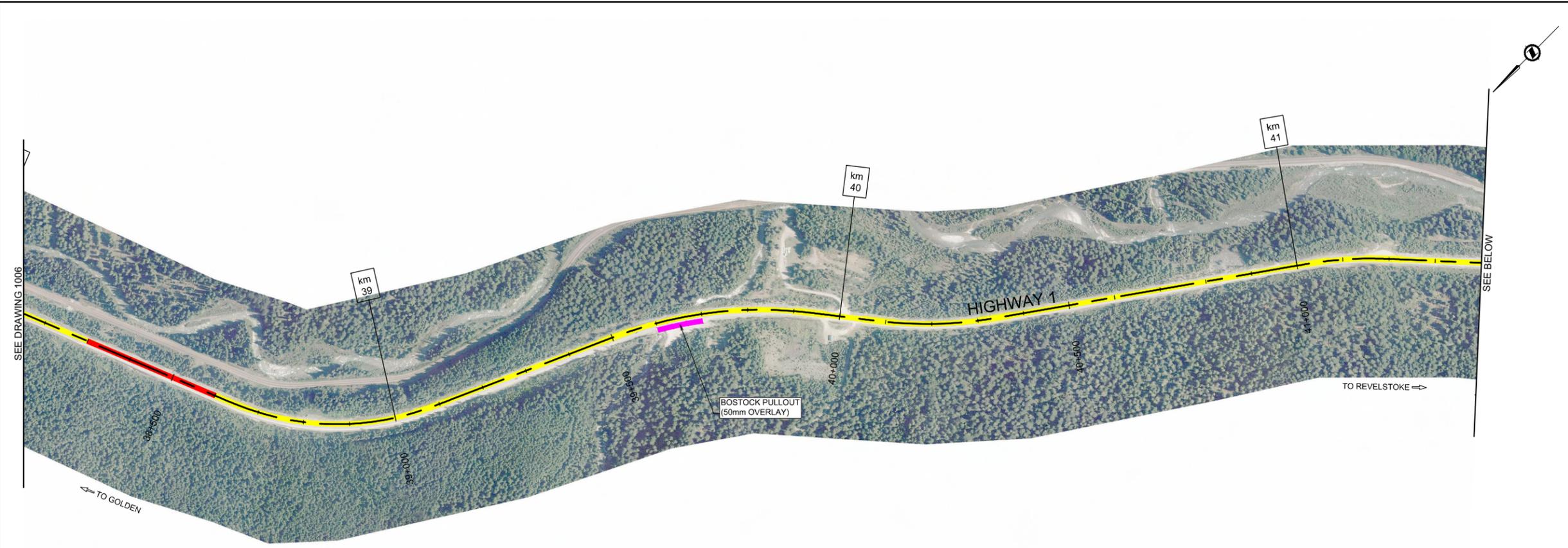
**PAVEMENT REHABILITATION
 & ROADWAY REPAIRS
 TRANS-CANADA HIGHWAY
 STA 38+150 TO STA 43+794**

Surveyed by / Arpenté par MCSL	Drawn by / Dessiné par LJ	Date 2018.02.16
Designed by / Conçu par DRL	Reviewed by / Revisé par RAS	Scale / Echelle 1:5000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client	Approved by / Approuvé par

Project No. / No. du projet 566-04	Asset No. / No. du bien	Sheet No. / No. de la feuille 28
Drawing Reference No. / No. de référence du dessin 1007		



NOTE:
 LOCATIONS OF PAVEMENT REPAIRS ARE APPROXIMATE.
 FINAL LOCATION TO BE DETERMINED BY THE DEPARTMENTAL REPRESENTATIVE IN THE FIELD.

FILE: G:\PROJECTS\5611_00\PARKS - ENG_CONSTR_SVCS_GLACIER_TCH_PAVING\10_0 DRAWINGS\10_3 SHEET FILES\1000 - B14 PAVING PLANS.DWG - PLOTTED: 2018/02/16 9:24 AM

Paper Size: ANSI D (22 x 34")

