

AECOM

for / pour



Parks Canada
Agency

L'Agence Parcs
Canada

ROAD CONSTRUCTION HIGHWAY 93 SOUTH PAVING AND SAFETY IMPROVEMENTS KM 32.00 TO KM 40.56

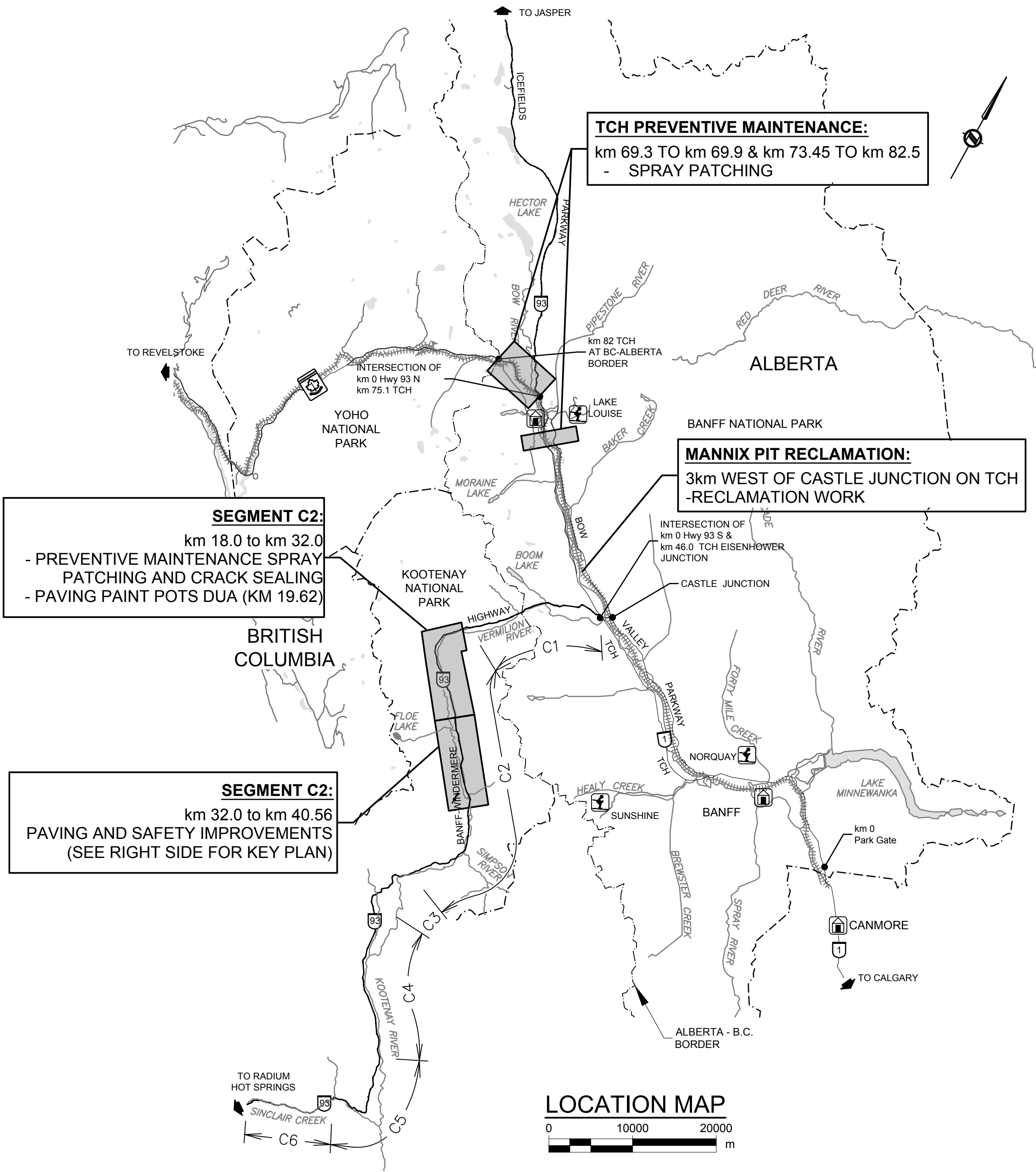
KOOTENAY NATIONAL PARK, BRITISH COLUMBIA

ISSUED FOR TENDER

PROJECT NO. 67308

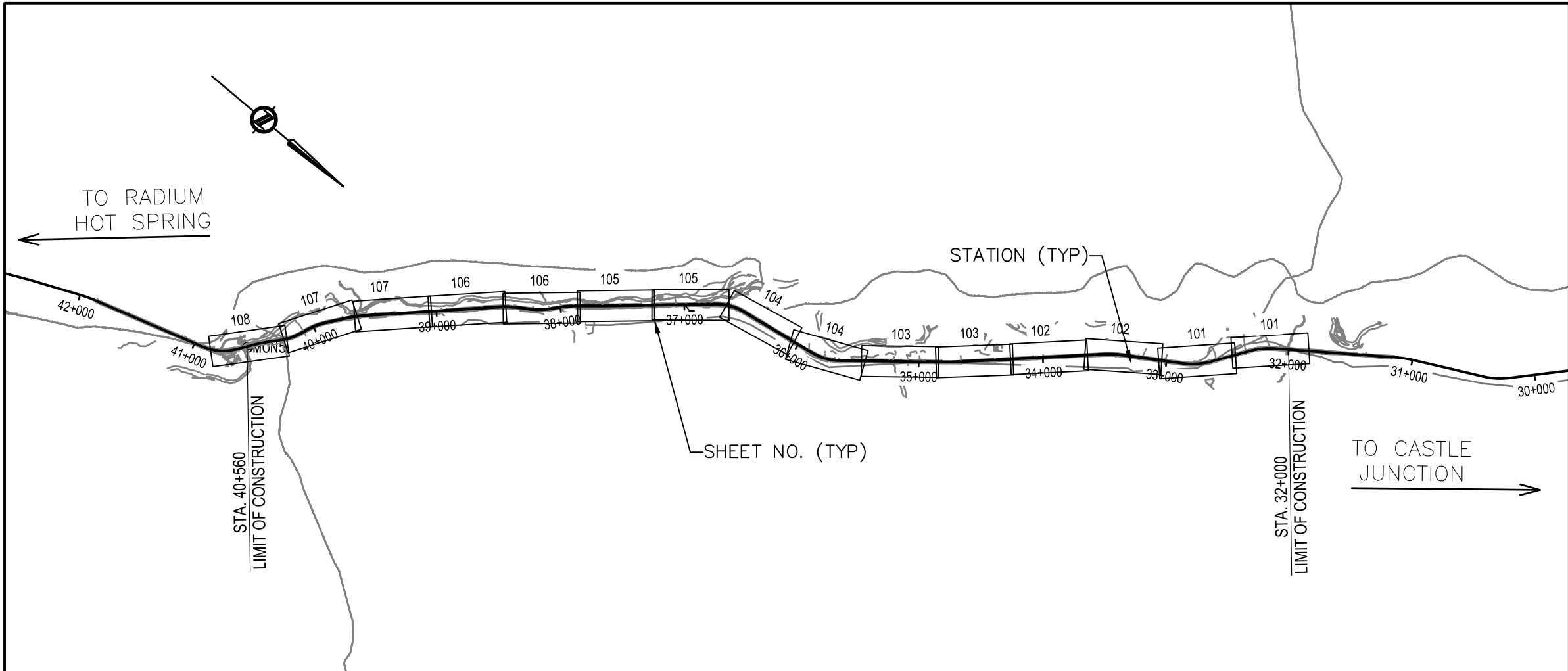
APRIL 2019

00-G1-C01

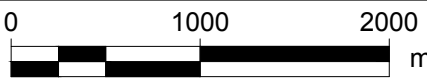


CONTROL REFERENCE				
POINT ID	NORTHING	EASTING	ORTH. ELEV.	CODE DESCRIPTION
1868	5670824.746	561268.756	1466.995	TH RTK
324	5670567.256	561095.038	1458.630	TH MAG (VAN)
325	5670523.505	561084.509	1459.214	TH MAG (VAN)
1224	5669317.238	560029.536	1451.871	TH RTK AVERAGED
1212	5667097.678	559119.994	1404.684	TH RTK AVERAGED
2351	5665032.646	560578.384	1386.144	TH RB (VAN)
2352	5665050.760	560585.771	1386.556	TH RB (VAN)
2353	5664968.665	560713.288	1389.527	TH RB (VAN)
1210	5664601.367	561367.485	1411.771	TH RTK AVERAGED
1209	5660186.331	565581.452	1340.828	TH RTK AVERAGED
1213	5660090.339	565619.781	1338.715	TH RTK AVERAGED
1208	5659854.655	565820.928	1340.164	TH RTK AVERAGED
1207	5656871.269	568395.278	1312.484	TH RTK AVERAGED
1206	5653195.734	571348.151	1266.542	TH RTK AVERAGED
1226	5653085.870	571492.579	1267.247	TH RTK
1225	5652884.878	571615.983	1273.562	TH RTK
1223	5652440.080	571728.619	1268.801	TH RTK AVERAGED

Note: COORDINATES SHOWN ARE IN UTM ZONE 11, NAD 83 (CSRS).



SEGMENT C2 KEY PLAN (SEE LOCATION MAP)



DRAWING INDEX			
KM	SEGMENT	SHEET No.	SHEET TITLE
km 32.0-40.56	G1	C01	COVER SHEET
		C02	LOCATION MAP, KEY PLAN AND DRAWING INDEX
		C03	LEGEND
	C2	101	PLAN STA 32+000 TO STA 33+050
		102	PLAN STA 33+050 TO STA 34+250
		103	PLAN STA 34+250 TO STA 35+450
		104	PLAN STA 35+450 TO STA 36+650
		105	PLAN STA 36+650 TO STA 37+850
		106	PLAN STA 37+850 TO STA 39+050
		107	PLAN STA 39+050 TO STA 40+250
		108	PLAN STA 40+250 TO STA 40+560
		301	TYPICAL SECTIONS
	G1	401	DETAILS
		402	DETAILS - DRAINAGE
		403	DETAILS - BARRIER
	C2	501	HWY 93S km 19+620 - PAINT POTS DUA - BASE AND PAVEMENT
		502	HWY 93S km 32+440 - FLOE LAKE DUA - BASE AND PAVEMENT
	C2	FOR REFERENCE ONLY	
		XS01	CROSS SECTIONS-BARRIER FLARE WIDENING-STA 38+852 TO STA 38+880
		XS02	CROSS SECTIONS-BARRIER FLARE WIDENING-STA 38+855 TO STA 38+910
		XS03	CROSS SECTIONS-BARRIER FLARE WIDENING-STA 38+915 TO STA 38+930
		XS04	CROSS SECTIONS-BARRIER FLARE WIDENING-STA 39+151 TO STA 39+175
		XS05	CROSS SECTIONS-BARRIER FLARE WIDENING-STA 39+180 TO STA 39+197

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0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM



Parks Canada

Parcs Canada

Asset Management
Western and
Northern
Region

Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**LOCATION MAP, KEY PLAN
AND DRAWING INDEX**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877-G1		C02

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ALIGNMENT ABBREVIATIONS

BC – BEGINNING OF CURVE
 EC – END OF CURVE
 TS – TANGENT TO SPIRAL
 SC – SPIRAL TO CURVE
 CS – CURVE TO SPIRAL
 ST – SPIRAL TO TANGENT
 PCC – POINT OF COMPOUND CURVATURE
 POT – POINT ON TANGENT
 POC – POINT ON CURVE
 POS – POINT ON SPIRAL
 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

AT - ALBERTA TRANSPORTATION
BH - BORE HOLE
B.O.F. - BOTTOM OF FILL
BW - BACK OF SIDEWALK
CB - CATCH BASIN
C&G - CURB AND GUTTER
CDB - CONCRETE DRAINAGE BARRIER
CI - CULVERT INLET
C.I.P.- CAST IN PLACE CONCRETE
CMB - CONCRETE MEDIAN BARRIER
CO - CULVERT OUTLET
CRB - CONCRETE ROAD BARRIER
CULV - CULVERT
DES - DESIGN
EB - EASTBOUND
EOP - EDGE OF PAVEMENT
EX - EXISTING
INV. - INVERT
LOG - LIP OF GUTTER
LS - LIGHT STANDARD
LT - LEFT TURN
MH - MANHOLE
MoTi - BC MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
NB - NORTHBOUND
N.I.C. - NOT IN CONTRACT
PROP - PROPOSED
PP - POWER POLE
RT - RIGHT TURN
S - SANITARY
SB - SOUTHBOUND
ST - STORM
T.O.C. - TOP OF CUT
W - WATER
WB - WESTBOUND

ROAD CONSTRUCTION

EXISTING	DESCRIPTION	PROPOSED
	CONTROL POINT & ID	△ CTRL1455
	CONTROL MONUMENT & ID	● MON2757
	CONTROL BENCHMARK & ID	✕ BM2738
	BORE HOLE & ID	⬮ 2015B-BH4
	TEST HOLE & ID	⬮ TH2756
	CONTROL LINE AND STATIONING	67+500
	ALIGNMENT GEOMETRY POINTS & STATIONING	T.S. 55+325.101
EW	EDGE OF WATER	
	TREE LINE	
	CANADIAN PACIFIC RAILWAY	
	GUARDRAIL C/W POSTS	
	EDGE OF GRAVEL ROAD	
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL SHOULDER	
1012.14	SUBGRADE ELEVATION	
	CURB AND GUTTER	
	CONCRETE BARRIER	
DB	DRAINAGE BARRIER	DB DB
	TOP OF CUT	T.O.C.
	BOTTOM OF FILL	B.O.F.
	70 mm PAVEMENT OVERLAY	
	PAVEMENT MILLING AND INLAY	
	MILLED TIE IN	
	FULL DEPTH PAVEMENT	
	SUBGRADE PREPARATION BASE & PAVEMENT	
	DRAINAGE SIDE DITCH	
	DRAINAGE MEDIAN DITCH	
	CULVERT	
	CONCRETE BOX CULVERT	
	DITCH BLOCK	
	CATCH BASIN AND LEAD	
	BARRIER DRAIN AND LEAD c/w SPLASH PAD	BD OR
	ASPHALT SPILLWAY c/w SPLASH PAD	
	RETAINING WALL	
	WILDLIFE FENCING	
	WILDERNESS ZONE BOUNDARY	WZB
	CLEARING LINE	
	GATE	
	POWER POLE	
UG	UNDERGROUND TEL & MANHOLE	
	POWER POLE WITH LIGHT	
	UTILITY POLE	
	ROAD SIGN (SINGLE POLE)	
	ROAD SIGN (MULTIPLE POLES)	
	ROAD SIGN (DOUBLESIDED)(SINGLE POLE)	
	ROAD SIGN (CANTILEVER)	
DP	GUIDE POST	DP

ENVIRONMENTAL CLASS

ARCHEOLOGICAL & CULTURAL AREA:

11

AQUATIC SENSITIVITY:

VEGETATION ELEMENTS OF MANAGEMENT CONCERN:

———— HIGH ————

_____ MOD _____


————— LOW —————

_____ NEG _____

RARE PLANTS:





NOXIOUS PLANT WEEDS:

 #131 CANADA THISTLE #234 KNAPWEED

 #168 TOADFLAX

 #343 LEAFY SPURGE

 #268 OXEYE DAISY

 ORANGE HAWKWEED

ANIMALS AT RISK:

A WESTERN TOAD

A LONG-TOED SALAMANDER

A WOOD FROG

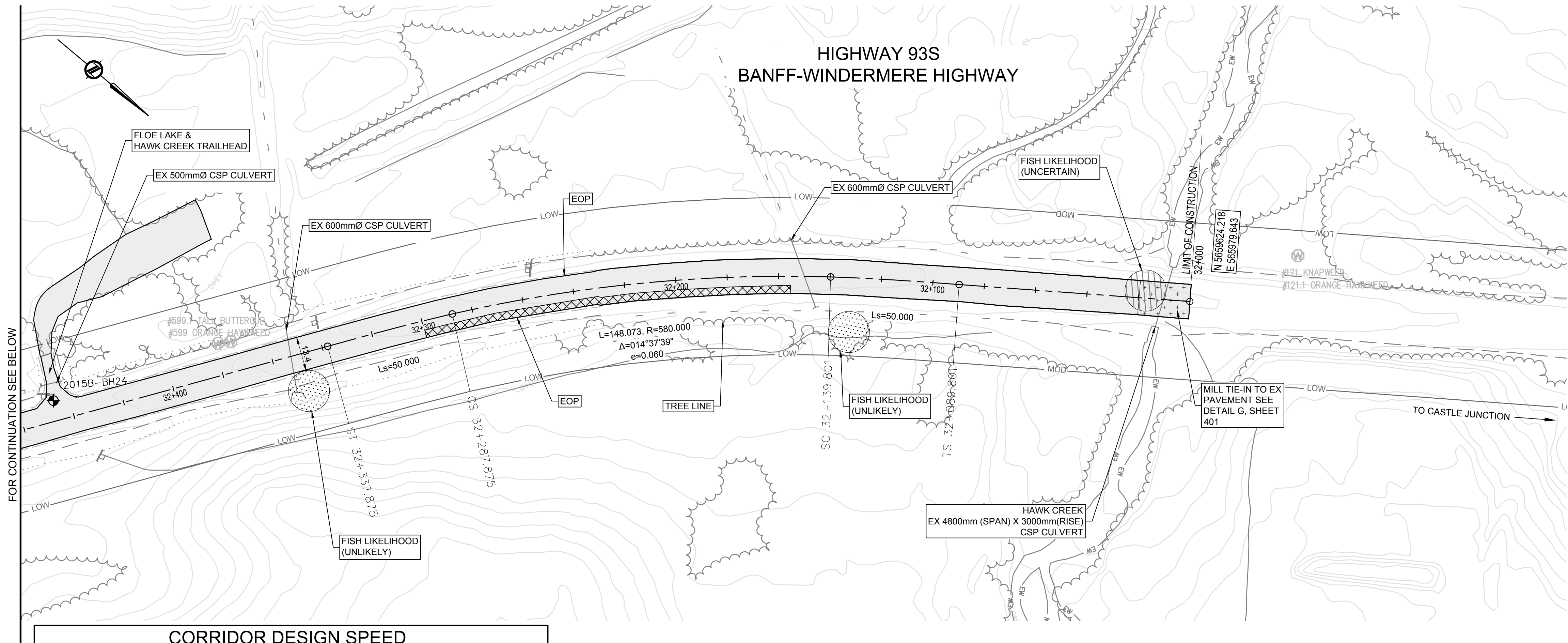
LEGEND

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877-G1		C03

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NOTES:

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- SHALLOW MILL AND FILL LOCATIONS TO BE CONFIRMED ON SITE BY DEPARTMENTAL REPRESENTATIVE.
- ALL SIGNS TO BE MUTCD CANADA SIGN NUMBERING EXCEPT AS NOTED.
- COORDINATES SHOWN ARE IN UTM ZONE 11, NAD 83(CSRs).
- CONTRACTOR TO CONFIRM EXISTING AND RELOCATED SIGNS MEET CURRENT REFLECTIVITY STANDARDS.
- CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS.



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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number
Sheet number
A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres
Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

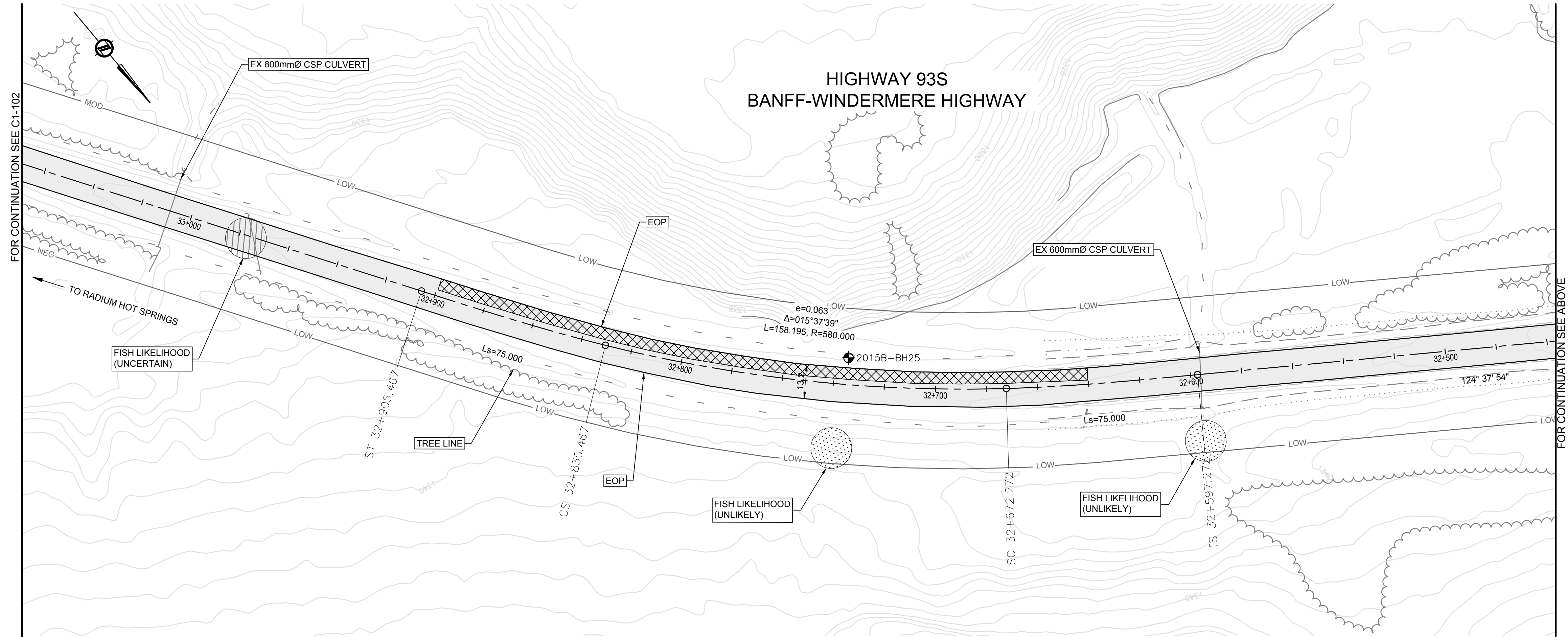
AECOM



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada



Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**PLAN
STA 32+000 TO STA 33+050**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concep par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m

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

Project No./N° du projet 1343-01	Asset No./N° du bien	Sheet No./ N° de la feuille 101
Drawing Set No./N° de série du dessin 60570877-C2		

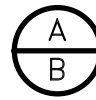
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Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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AECOM



Parks Canada	Parcs Canada
Asset Management Western and Northern Region	Gestion des biens Région de l'Ouest et du Nord

Canada

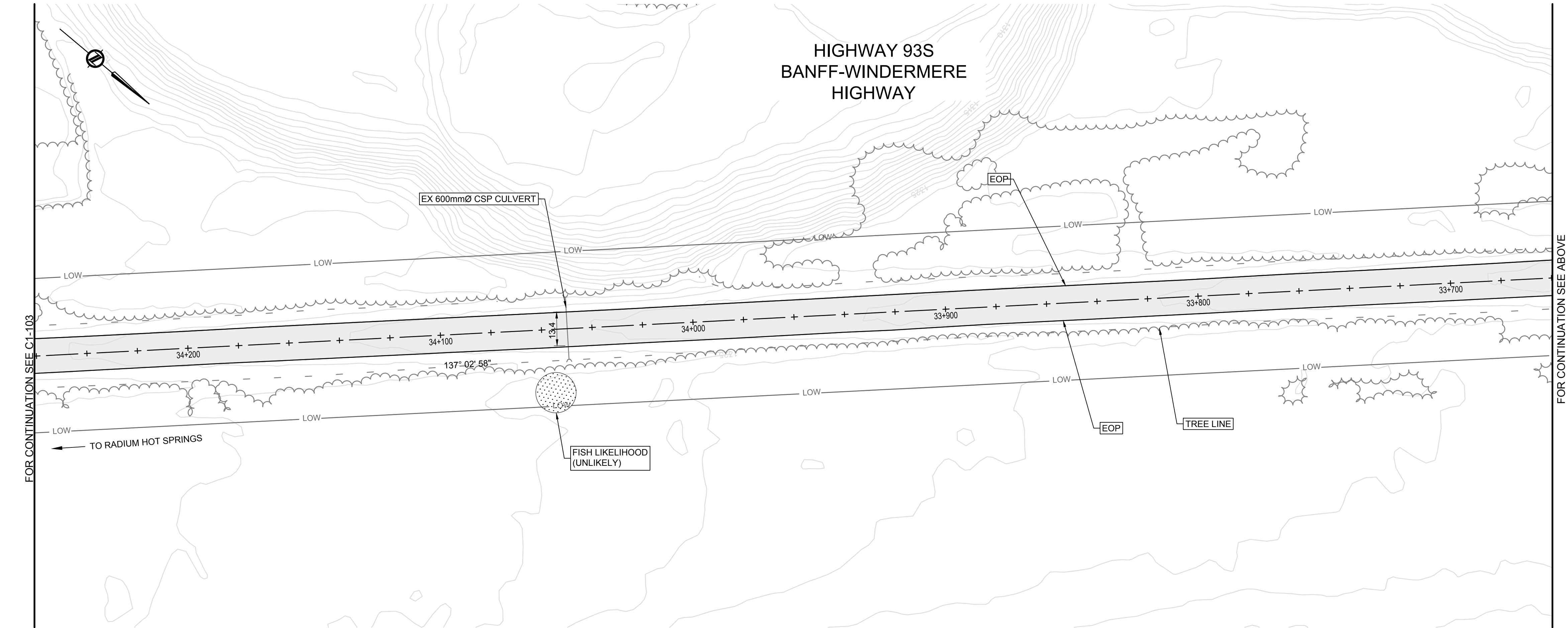
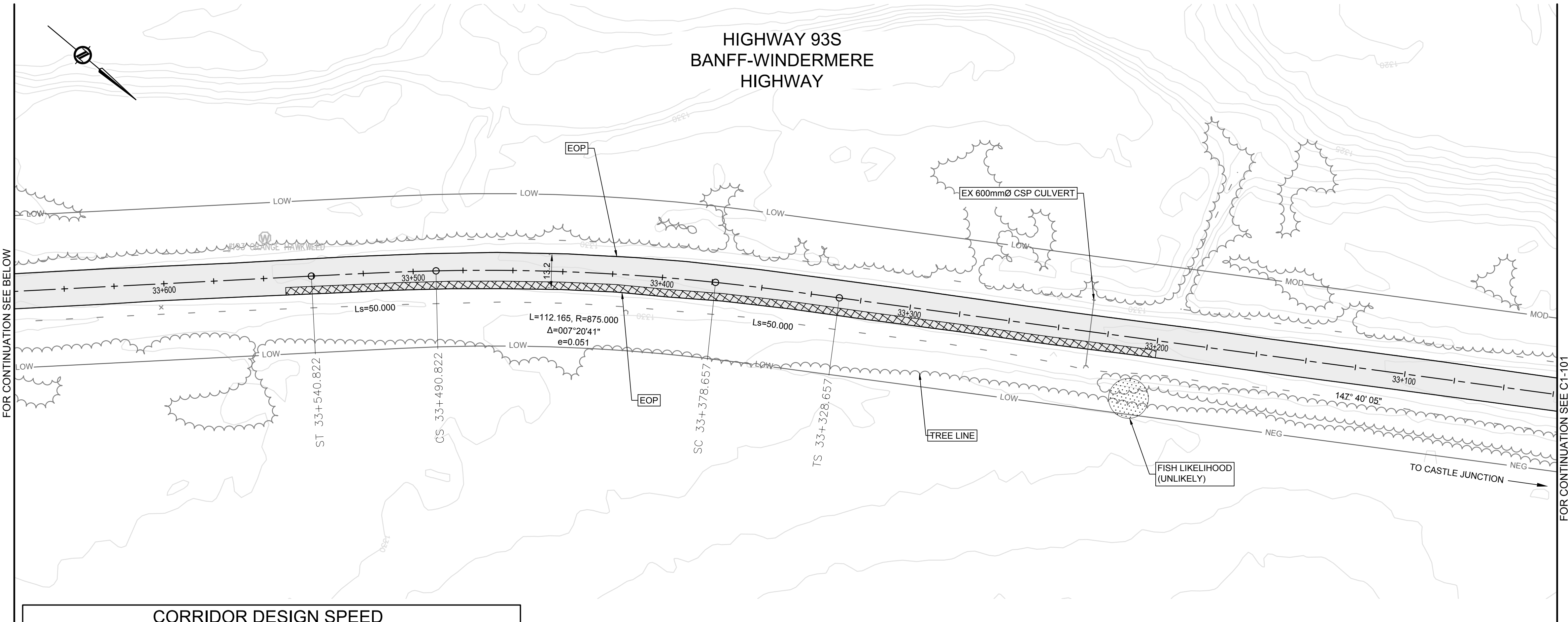
Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**PLAN
STA 33+050 TO STA 34+250**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m

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

Project No./N° du projet 1343-01	Asset No./N° du bien	Sheet No./ N° de la feuille 102
Drawing Set No./N° de série du dessin 60570877-C2		



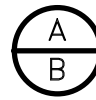
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- CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS..

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Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

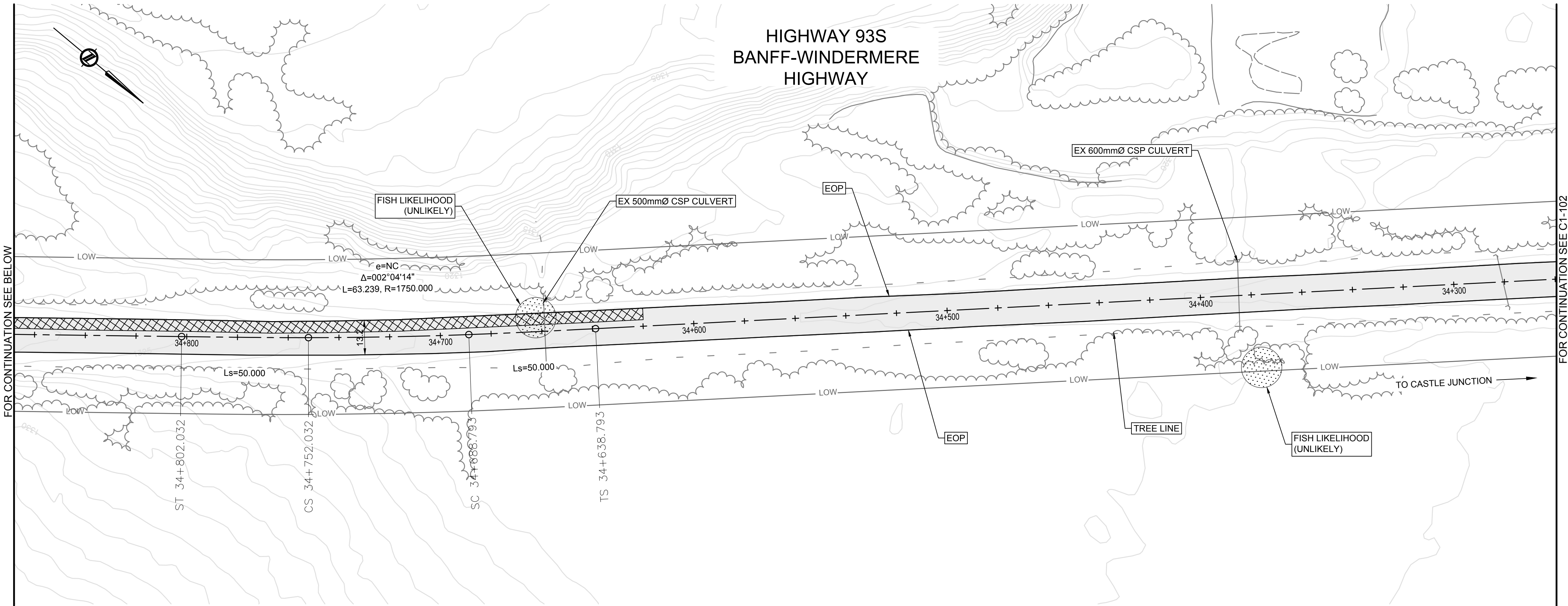
Drawing title/Titre du dessin

**PLAN
STA 34+250 TO STA 35+450**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m

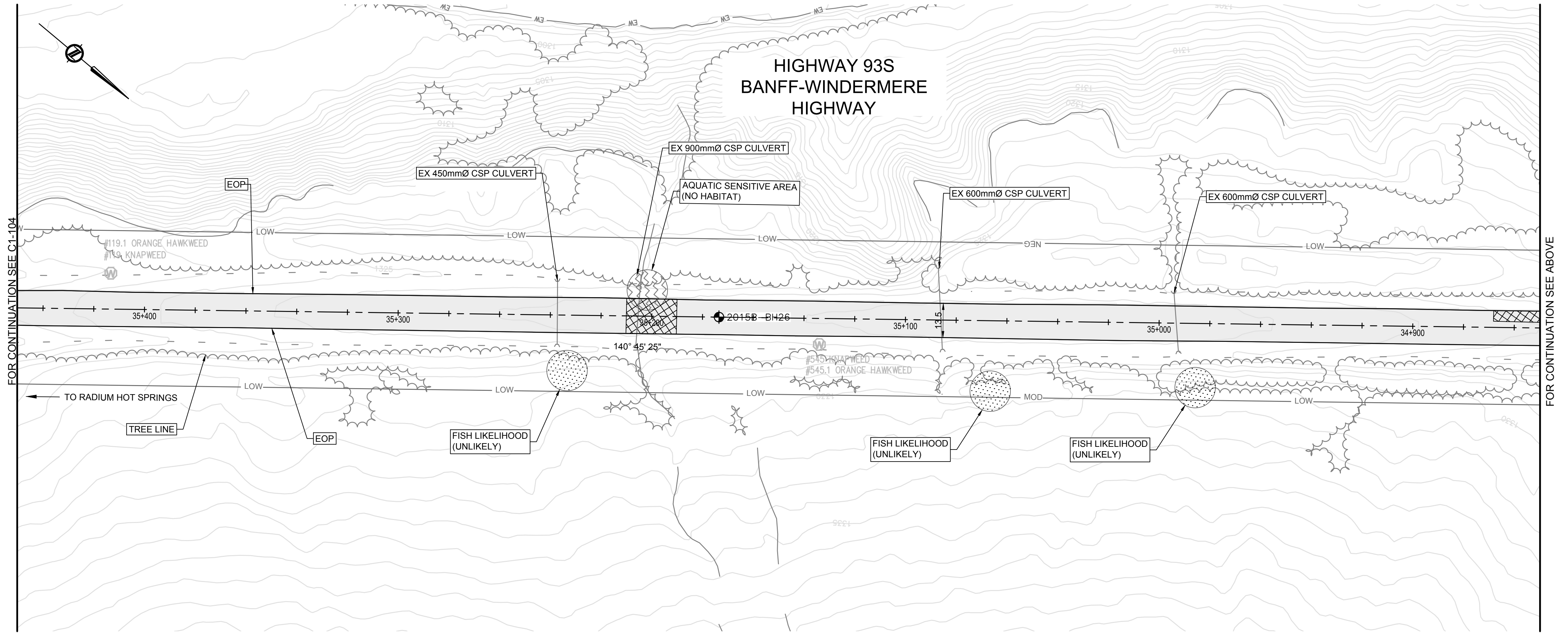
Client Acceptance/Acceptation du client	Approved by/Approuvé par
Date	Date

Project No./N° du projet 1343-01	Asset No./N° du bien	Sheet No./N° de la feuille 103
Drawing Set No./N° de série du dessin 60570877-C2		



CORRIDOR DESIGN SPEED

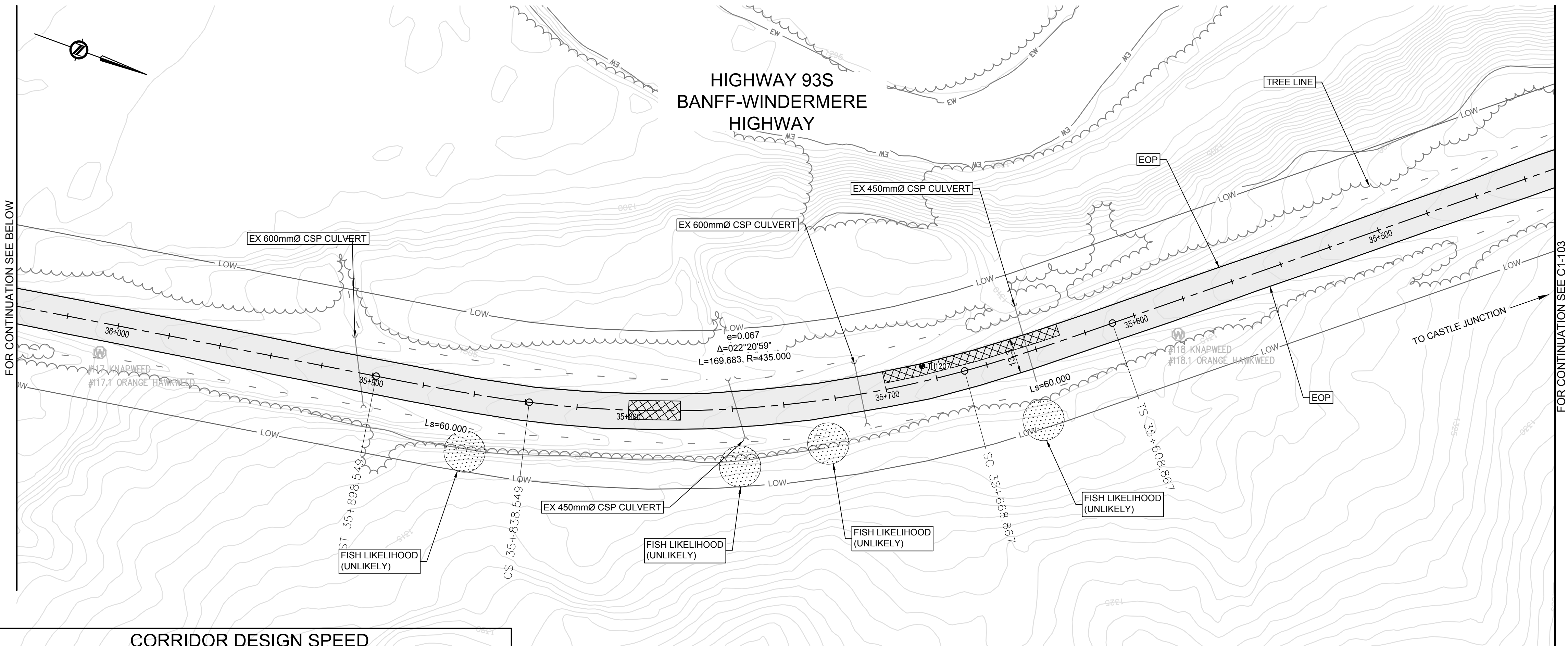
HIGHWAY 93S	100 km/h	STA 34+250 TO STA 35+450
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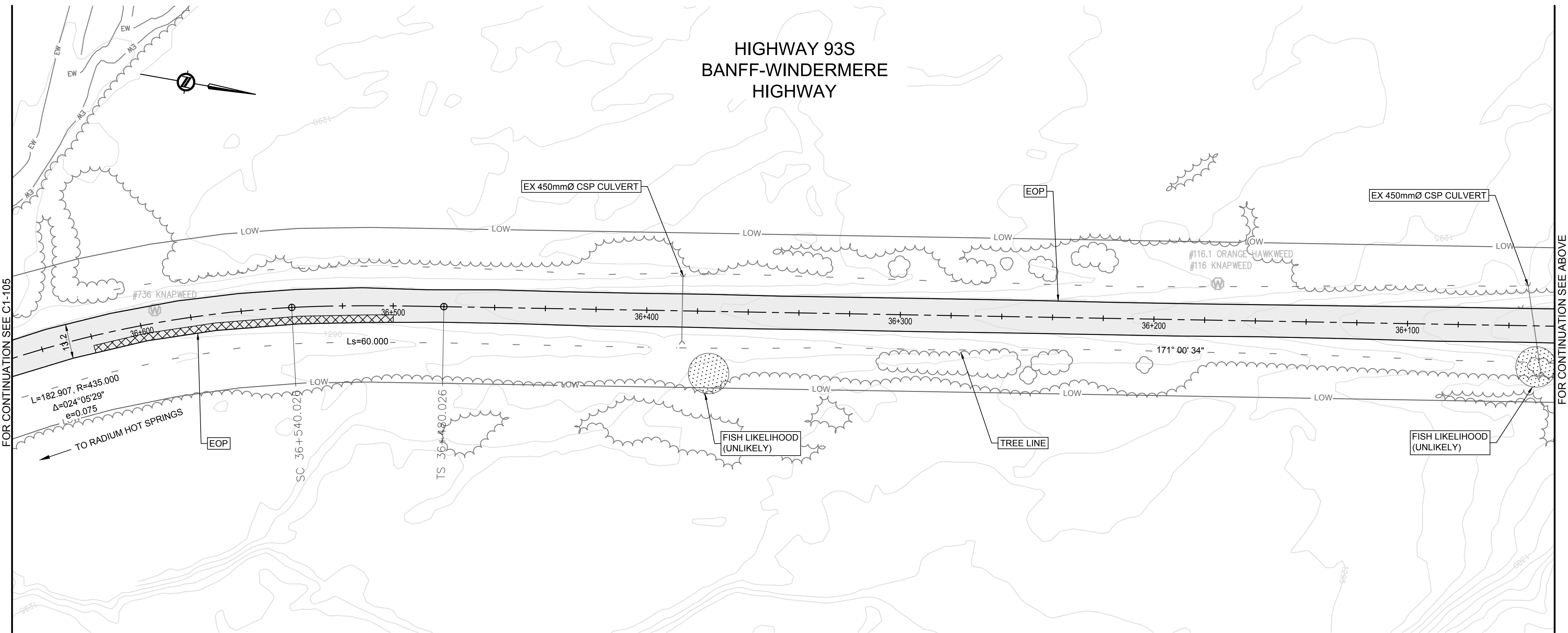
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3. ALL SIGNS TO BE MUTCD CANADA SIGN NUMBERING EXCEPT AS NOTED.
4. COORDINATES SHOWN ARE IN UTM ZONE 11, NAD 83(CSR).
5. CONTRACTOR TO CONFIRM EXISTING AND RELOCATED SIGNS MEET CURRENT REFLECTIVITY STANDARDS.
6. CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS..



CORRIDOR DESIGN SPEED		
HIGHWAY 93S	100 km/h	STA 35+450 TO STA 36+650



Parks Canada **Parcs Canada**
Asset Management Western and Northern Region
Gestion des biens Région de l'Ouest et du Nord

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**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**PLAN
STA 35+450 TO STA 36+650**

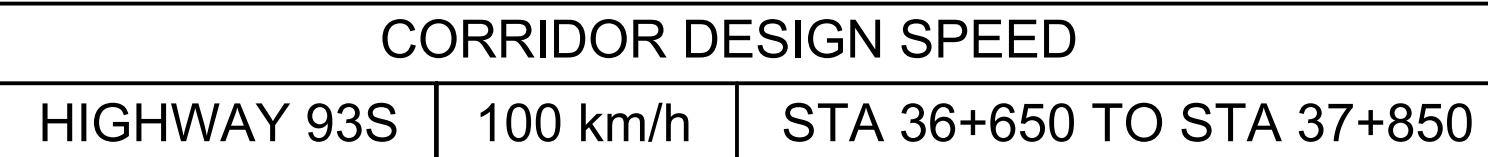
Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m

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

Project No./N° du projet 1343-01	Asset No./N° du bien	Sheet No./N° de la feuille 104
Drawing Set No./N° de série du dessin 60570877-C2		

NOTES:

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	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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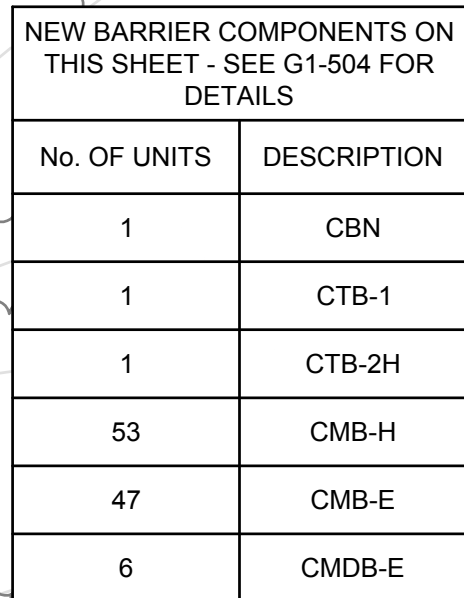
Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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AECOM

Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada



TRAFFIC SIGN SCHEDULE (REMOVE AND REINSTALL)		
DESCRIPTION	MUTCD CODE	QUANTITY
HAZARD OBJECT MARKER	WA-36R	1

Project title/Titre du projet

HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK

Drawing title/Titre du dessin

PLAN
STA 36+650 TO STA 37+850

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
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Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Échelle 0 25 m
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Client Acceptance/Acceptation du client	Approved by/Approuvé par
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Date	Date

Project No./N° du projet 1343-01	Asset No./N° du bien	Sheet No./ N° de la feuille
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Drawing Set No./N° de série du dessin	105
60570877-C2	

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- COORDINATES SHOWN ARE IN UTM ZONE 11, NAD 83(CSRs).
- CONTRACTOR TO CONFIRM EXISTING AND RELOCATED SIGNS MEET CURRENT REFLECTIVITY STANDARDS.
- CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS..

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number Sheet number	A Numéro de détail B Numéro de la feuille
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Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
--	------------------------------------

AECOM



Parks Canada Asset Management Western and Northern Region	Parcs Canada Gestion des biens Région de l'Ouest et du Nord
---	--

Canada

Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**PLAN
STA 37+850 TO STA 39+050**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concepé par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m

Client Acceptance/Acceptation du client	Approved by/Approuvé par
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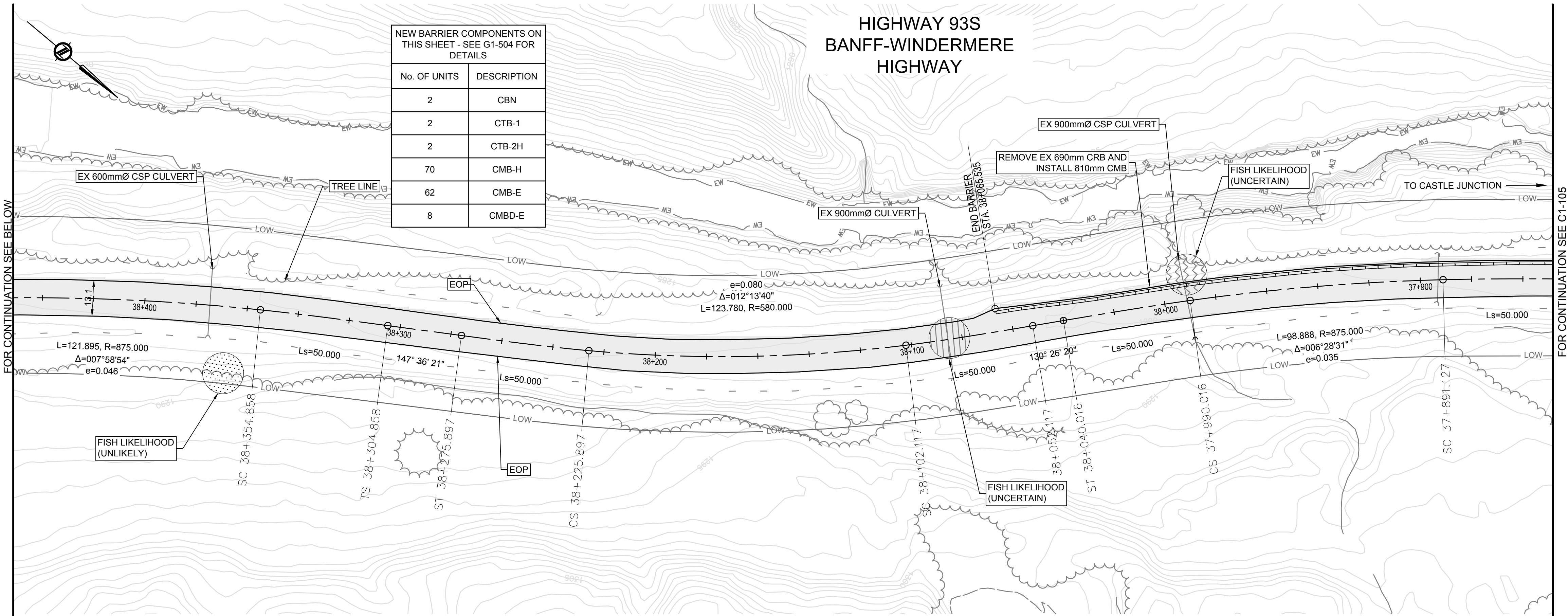
Date	Date
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Project No./N° du projet 1343-01	Asset No./N° du bien	Sheet No./ N° de la feuille 106
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Drawing Set No./N° de série du dessin 60570877-C2	
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**HIGHWAY 93S
BANFF-WINDERMERE
HIGHWAY**

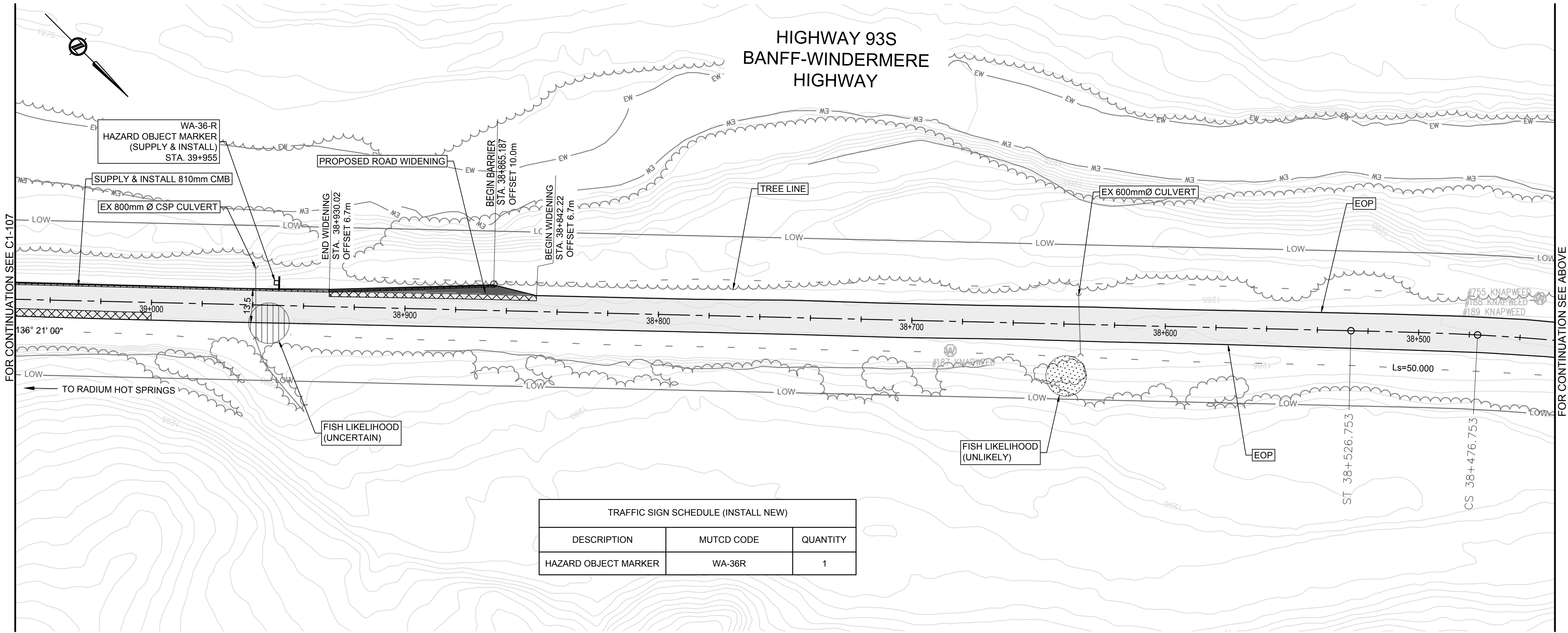
NEW BARRIER COMPONENTS ON THIS SHEET - SEE G1-504 FOR DETAILS	
No. OF UNITS	DESCRIPTION
2	CBN
2	CTB-1
2	CTB-2H
70	CMB-H
62	CMB-E
8	CMBD-E



CORRIDOR DESIGN SPEED

HIGHWAY 93S	100 km/h	STA 37+850 TO STA 39+050
-------------	----------	--------------------------

**HIGHWAY 93S
BANFF-WINDERMERE
HIGHWAY**



TRAFFIC SIGN SCHEDULE (INSTALL NEW)		
DESCRIPTION	MUTCD CODE	QUANTITY
HAZARD OBJECT MARKER	WA-36R	1

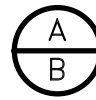
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NOTES:

- MILLING TO BE 50mm MILL AND FILL UNLESS OTHERWISE NOTED. LOCATIONS TO BE CONFIRMED ON SITE BY DEPARTMENTAL REPRESENTATIVE.
- SHALLOW MILL AND FILL LOCATIONS TO BE CONFIRMED ON SITE BY DEPARTMENTAL REPRESENTATIVE.
- ALL SIGNS TO BE MUTCD CANADA SIGN NUMBERING EXCEPT AS NOTED.
- COORDINATES SHOWN ARE IN UTM ZONE 11, NAD 83(CRS).
- CONTRACTOR TO CONFIRM EXISTING AND RELOCATED SIGNS MEET CURRENT REFLECTIVITY STANDARDS.
- CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS..

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number Sheet number	A Numéro de détail B Numéro de la feuille
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Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
--	------------------------------------

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Parks Canada Asset Management Western and Northern Region	Parcs Canada Gestion des biens Région de l'Ouest et du Nord
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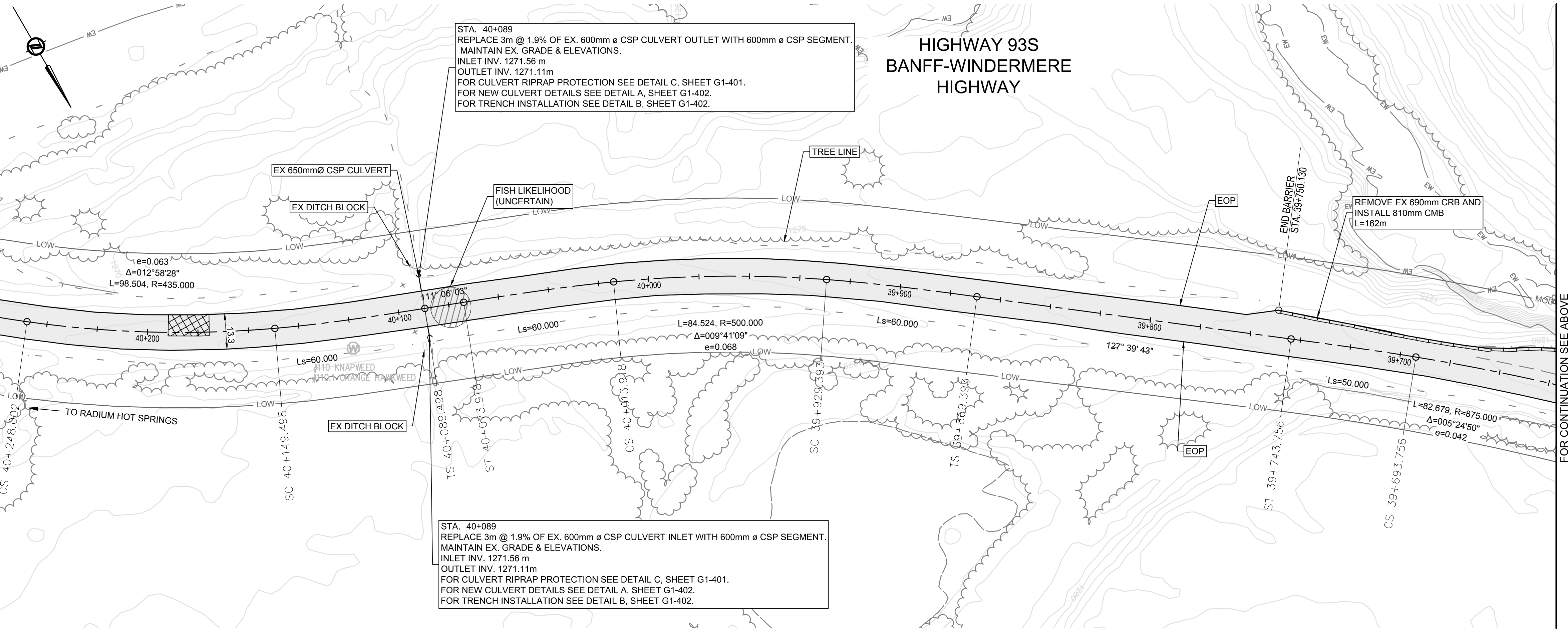
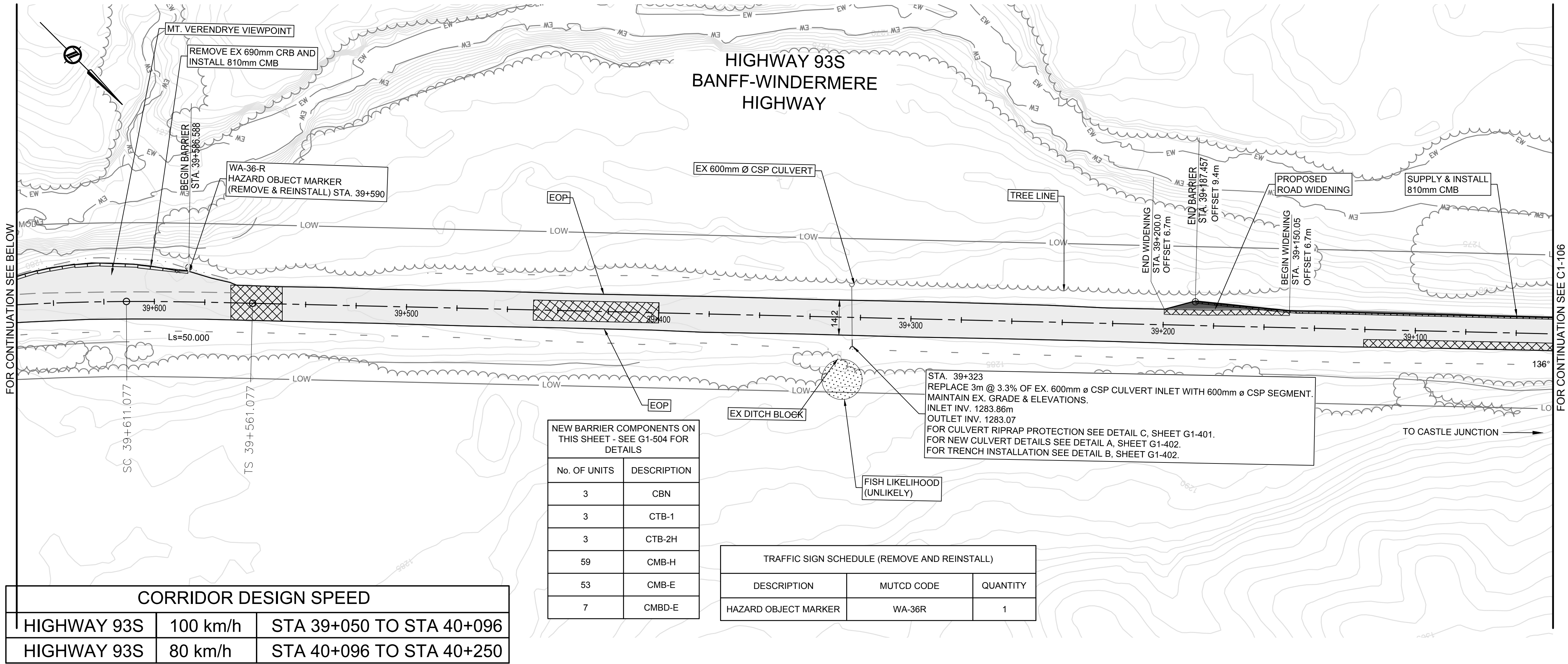
Canada

Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**PLAN
STA 39+050 TO STA 40+250**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m
Client Acceptance/Acceptation du client		Approved by/Approuvé par

Project No./N° du projet 1343-01	Asset No./N° du bien	Sheet No./ N° de la feuille 107
Drawing Set No./N° de série du dessin 60570877-C2		



NOTES:

1. MILLING TO BE 50mm MILL AND FILL UNLESS OTHERWISE NOTED. LOCATIONS TO BE CONFIRMED ON SITE BY DEPARTMENTAL REPRESENTATIVE.
2. SHALLOW MILL AND FILL LOCATIONS TO BE CONFIRMED ON SITE BY DEPARTMENTAL REPRESENTATIVE.
3. ALL SIGNS TO BE MUTCD CANADA SIGN NUMBERING EXCEPT AS NOTED.
4. COORDINATES SHOWN ARE IN UTM ZONE 11, NAD 83(CSRS).
5. CONTRACTOR TO CONFIRM EXISTING AND RELOCATED SIGNS MEET CURRENT REFLECTIVITY STANDARDS.
6. CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS..

0	19.04.18	ISSUED FOR TENDER	AU	RL

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

	Detail number	A Numéro de détail
	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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AECOM

	Parks Canada	Parcs Canada
	Asset Management	Gestion des biens
	Western and Northern Region	Région de l'Ouest et du Nord

Canada

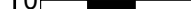
Project title/Titre du projet

HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK

Drawing title/Titre du dessin

PLAN

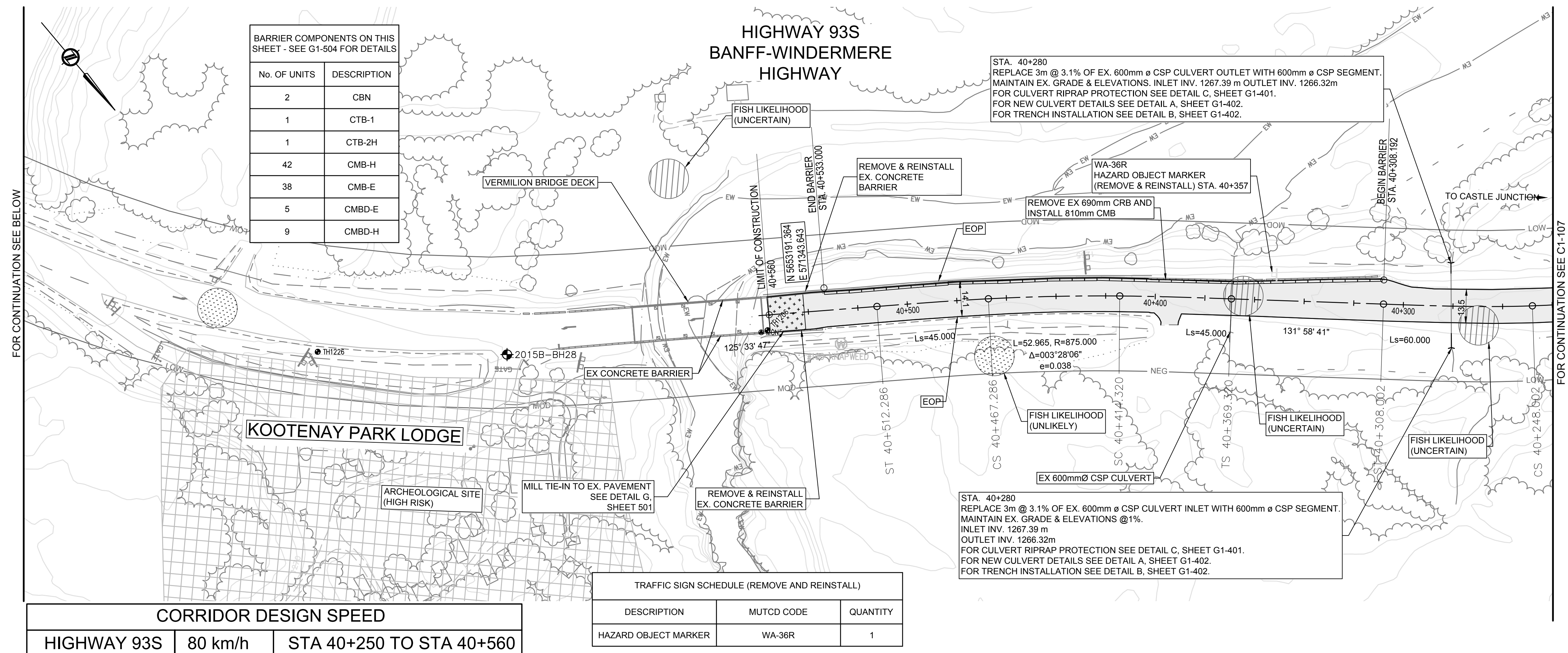
STA 40+250 TO STA 40+560

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0  25 m

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

Project No./N° du projet 1343-01	Asset No./N° du bien	Sheet No./ N° de la feuille
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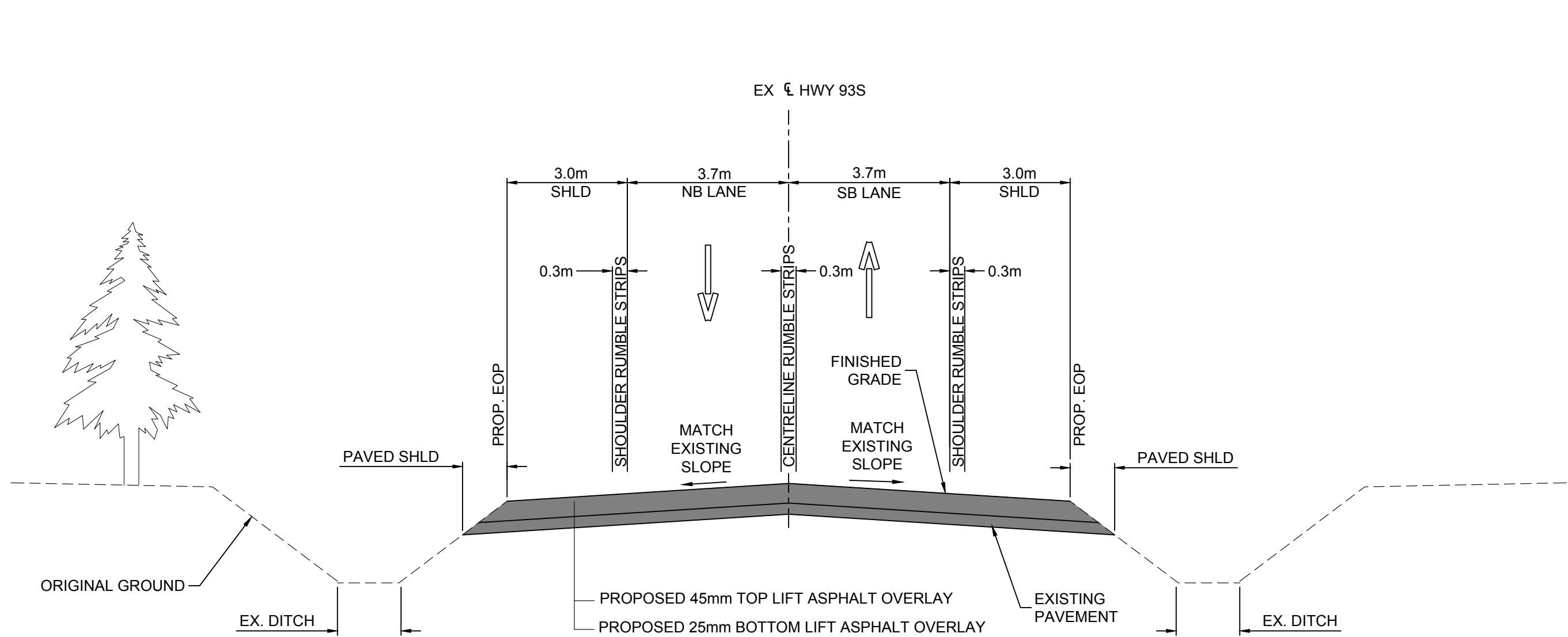
Drawing Set No./N° de série du dessin	108
60570877-C2	



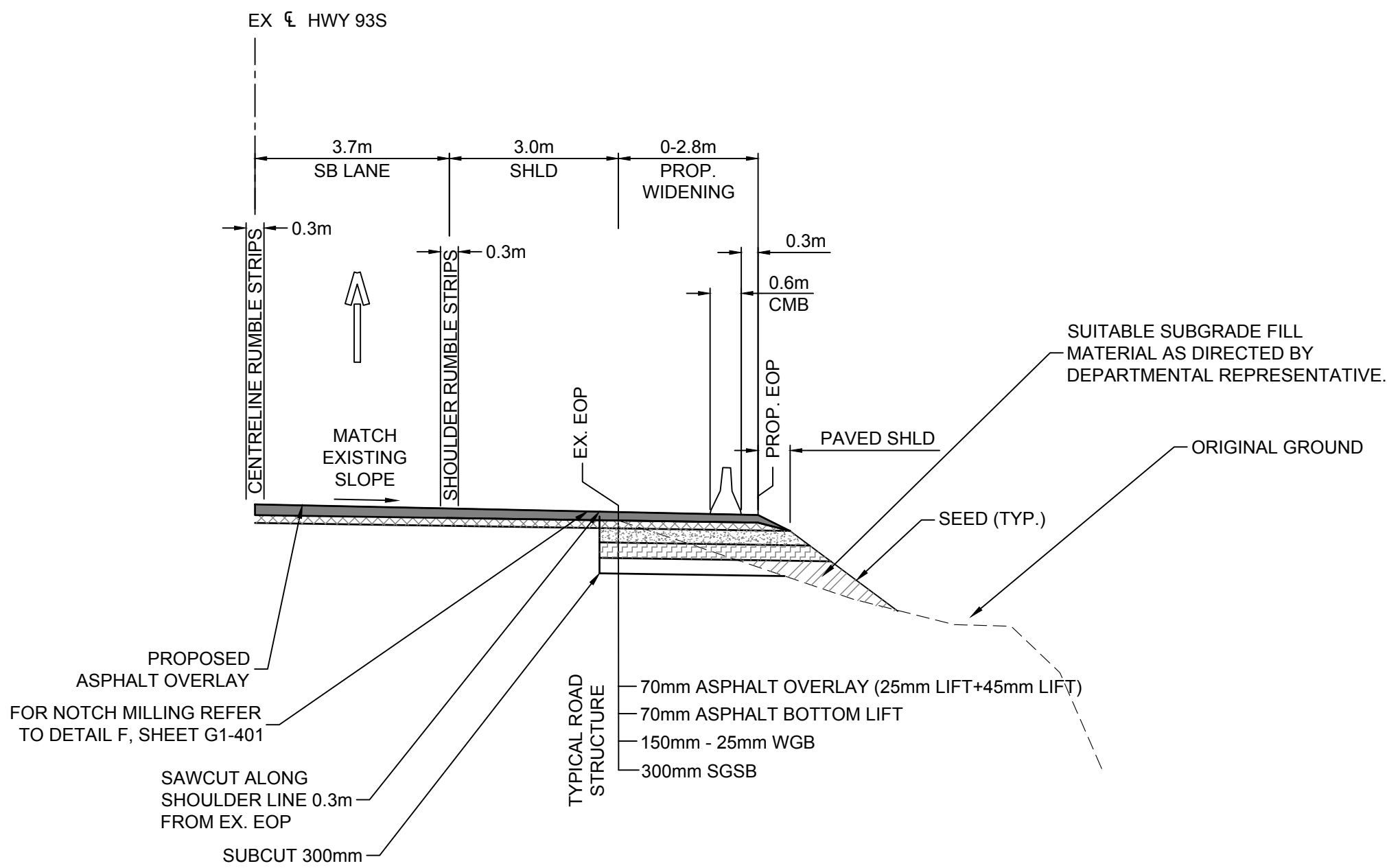
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NOTES:

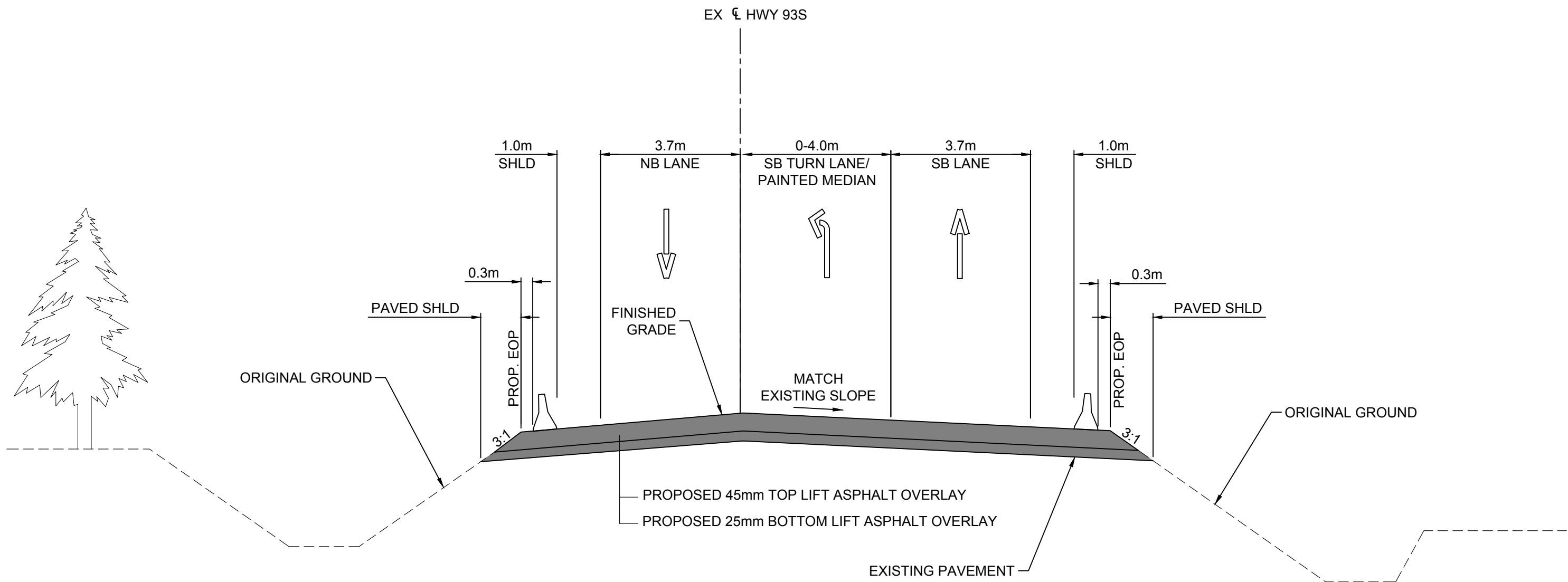
- SEE DETAIL A SHEET G1-401 FOR SUBGRADE BACKFILL AND EXCAVATION INFORMATION.
- ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE.
- TYPICAL SECTIONS AND DETAILS NOT TO SCALE.
- WIDTH VARIES TAPERS.
- SEE SHEETS C5-101 TO C5-106 FOR MILLING LOCATIONS
- RUMBLE STRIPS AS PER BC MOTI SUPPLEMENT TO TAC FIG. 650.A TO FIG 650.H
- SUB-GRADE EXCAVATION MAY CONTAIN SOILS UNSUITABLE FOR USE IN EMBANKMENT CONSTRUCTION.



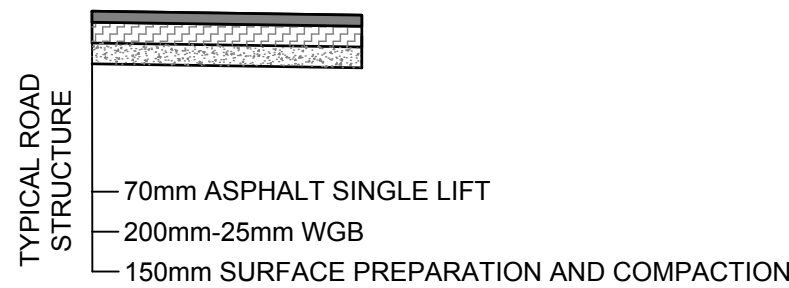
TYPICAL HWY 93S ASPHALT OVERLAY
STA. 32+000 - STA. 40+400



WIDENING FOR HIGHWAY 93S
BARRIER FLARES
STA. 38+865 - STA. 39+185



TYPICAL HIGHWAY 93S
APPROACH AT VERMILION BRIDGE
STA 40+400 - STA 40+560



DAY USE AREA
BASE AND PAVEMENT
PAINT POTS - STA. 19+620
FLOE LAKE - STA 32+440

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision				
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A B	Detail number	A Numéro de détail
	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
AECOM	

Parks Canada	Parcs Canada
Asset Management Western and Northern Region	Gestion des biens Région de l'Ouest et du Nord
Canada	

Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
TYPICAL SECTIONS

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle NTS
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille 301
Drawing Set No./Nº de série du dessin 60570877-C2		

NOTES:
1. ALL DIMENSIONS IN METRES, UNLESS OTHERWISE NOTED.

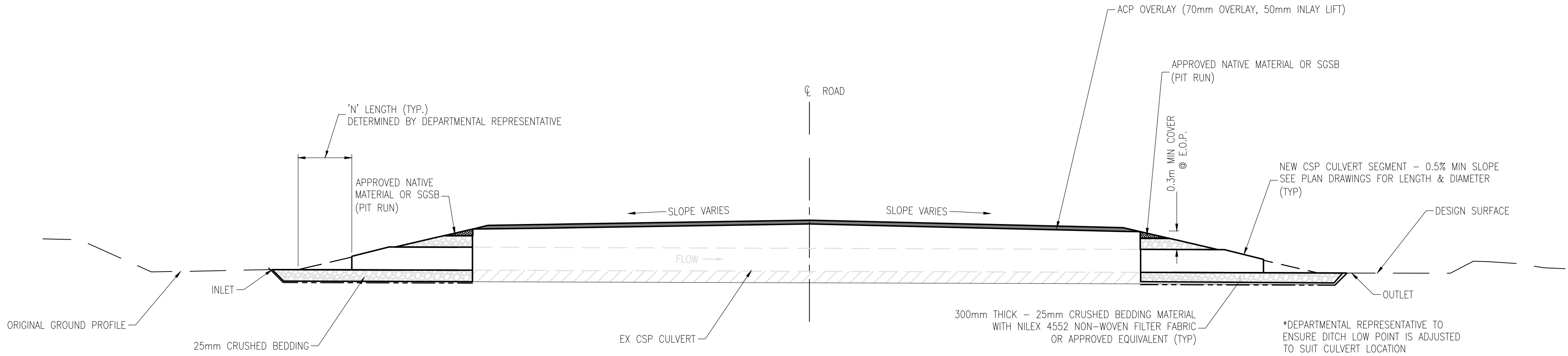


Drawing Set No./Nº de série do desenho
60570877 C1

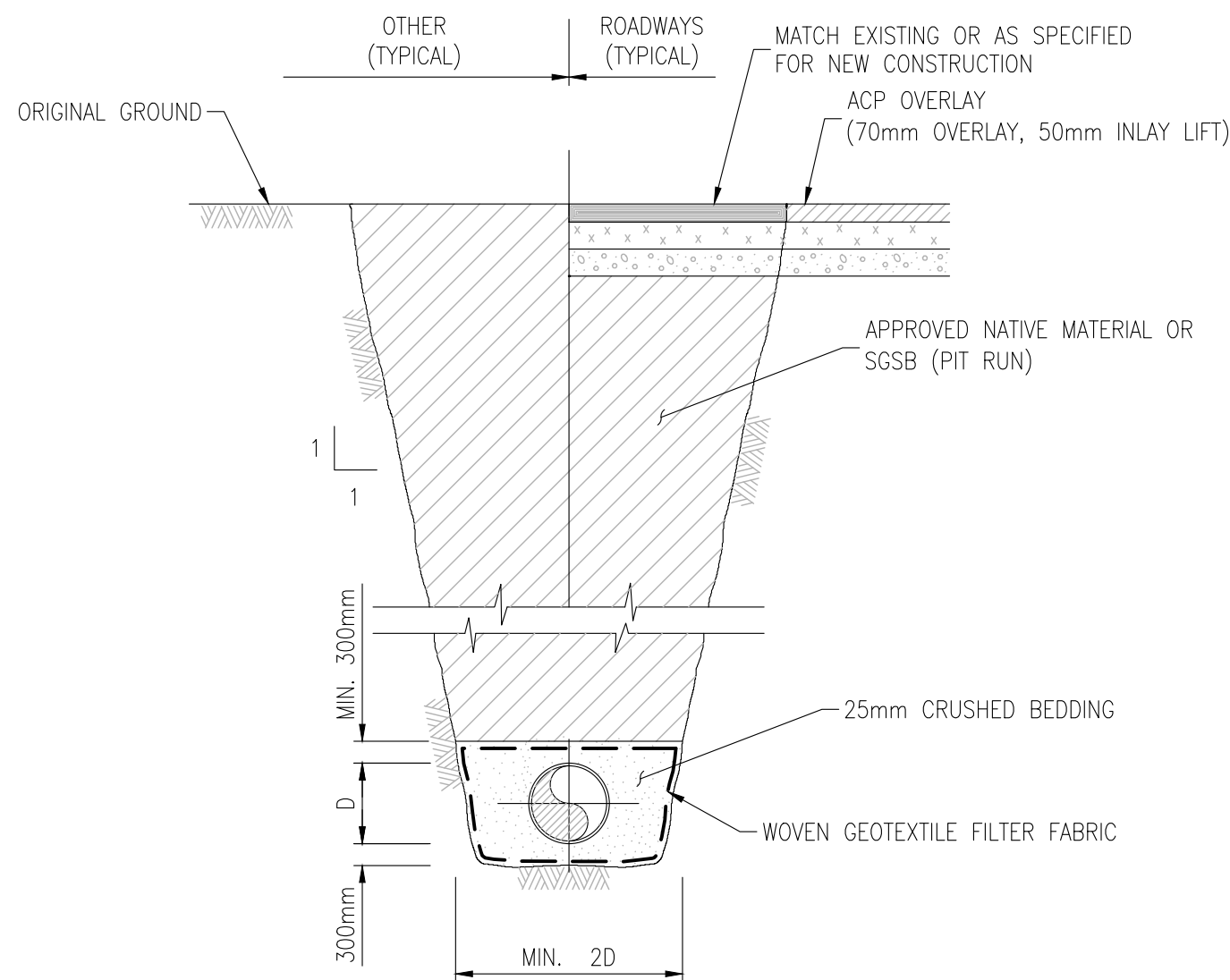
NOTES FOR CSP HANDLING AND ASSEMBLY:

- CSP SECTIONS ARE TO BE LIFTED, NOT DRAGGED, FOR HANDLING. THEY SHALL NOT BE HANDLED IN A MANNER THAT MAY CAUSE DAMAGE TO THE GALVANIZED COATING OR RESULT IN OTHER PHYSICAL DAMAGE. ANY SUCH DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- REFERENCE STANDARD INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER.
- SHAPE CHECKS ARE TO BE CARRIED OUT DURING AND AFTER INSTALLATION TO ENSURE THAT THE INSTALLED SHAPE IS AS INTENDED.

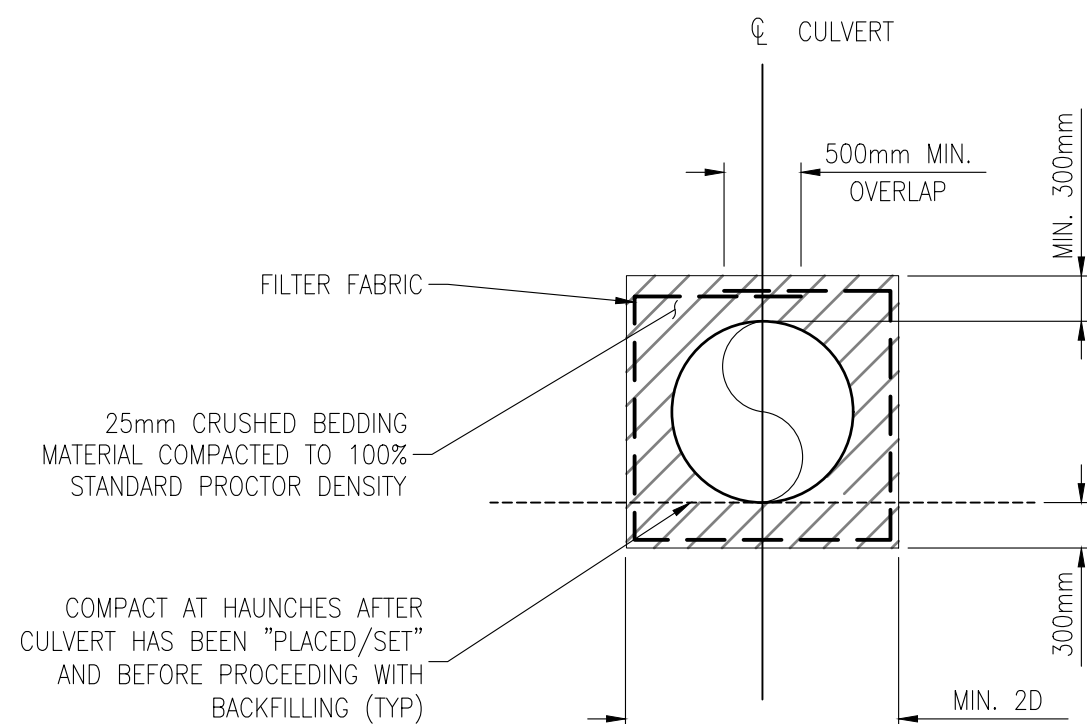
C.S.P. DIAMETER – D mm	SLOPE RATIO OF CULVERT END X:Y	"N" – m				INVERT LENGTH OF SLOPE END SEC. METRE
		WITH 3:1 SUBGRADE SLOPE RATIO	WITH 4:1 SUBGRADE SLOPE RATIO	WITH 5:1 SUBGRADE SLOPE RATIO	WITH 6:1 SUBGRADE SLOPE RATIO	
400	4 : 1	0.3	0.5	0.8	1.2	6.0
500	4 : 1	0.3	0.6	0.9	1.5	6.0
600	4 : 1	0.3	0.6	1.0	1.6	6.0
700	4 : 1	0.3	0.8	1.2	2.0	6.0
800	4 : 1	0.4	0.9	1.4	2.3	6.0
900	4 : 1	0.5	1.0	1.6	2.5	6.0
1000	4 : 1	0.5	1.2	1.8	2.8	6.0
1200	3 : 1	0.9	1.7	2.4	3.7	6.0
	4 : 1	0.6	1.4	2.2	3.5	
1400	3 : 1	1.0	1.9	2.8	4.3	
	4 : 1	0.6	1.6	2.5	3.9	6.0



DETAIL A: TYPICAL SECTION NEW CSP CULVERT SEGMENTS
N.T.S.



DETAIL B: TYPICAL ROAD TRENCH FOR CSP CULVERT INSTALLATION
N.T.S.



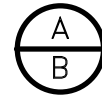
DETAIL C: TYPICAL END SECTION - CSP BACKFILL ZONE
N.T.S.

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NOTES:
1. ALL DIMENSIONS IN METRES, UNLESS OTHERWISE NOTED.

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM



Parcs Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

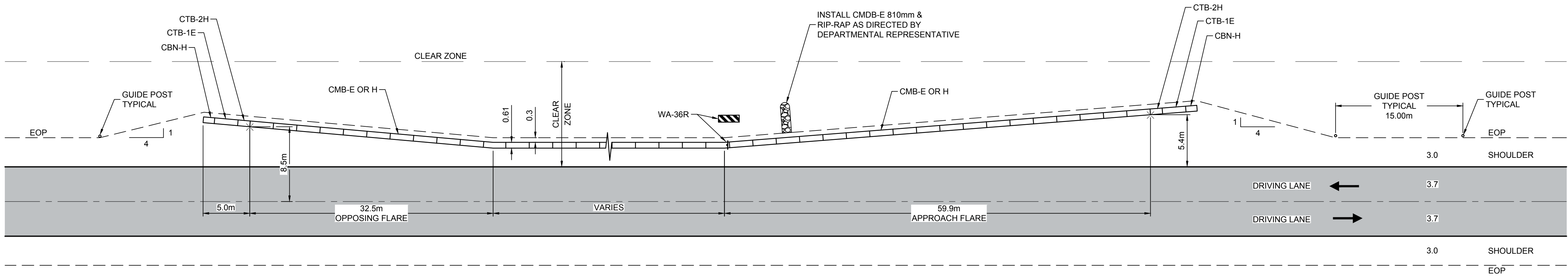
Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

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

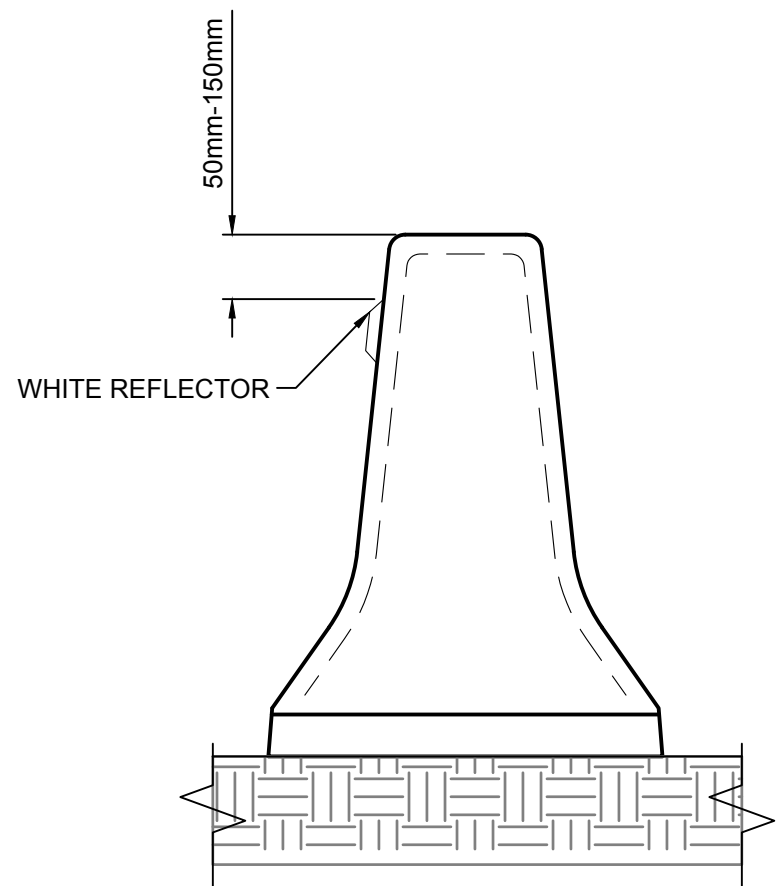
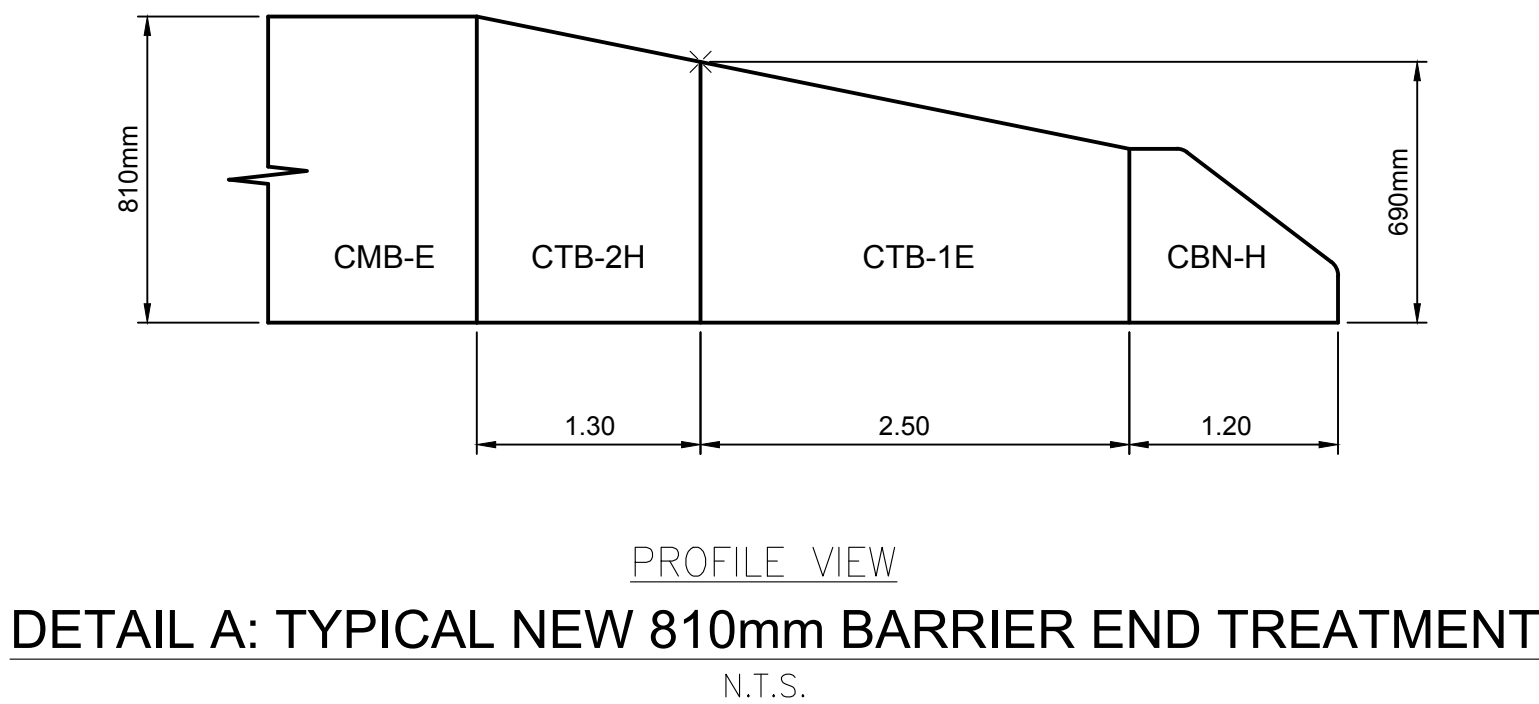
Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle NTS
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille 402
Drawing Set No./Nº de série du dessin 60570877-G1		

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NOTES:
1. ALL DIMENSIONS IN METRES, UNLESS OTHERWISE NOTED.

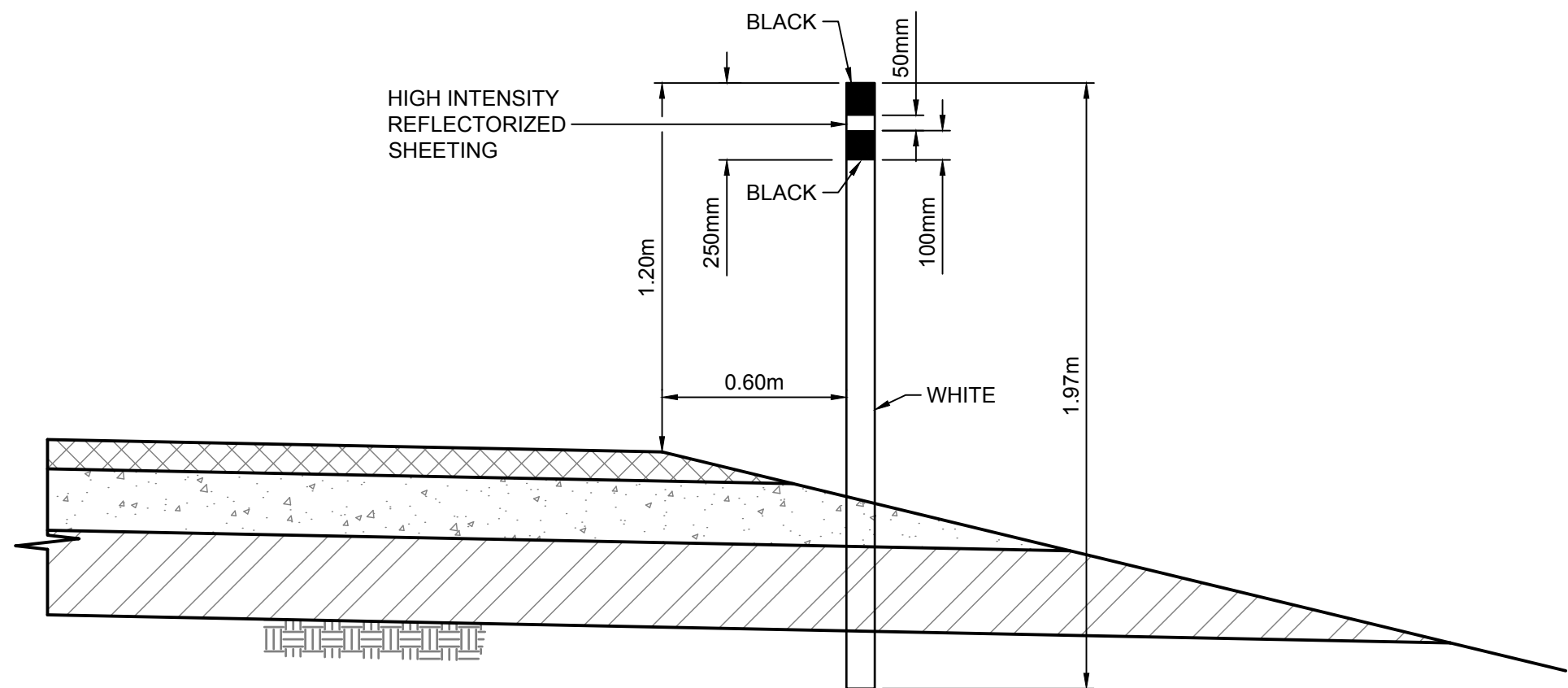


PLAN VIEW
STANDARD BARRIER DETAIL
N.T.S.

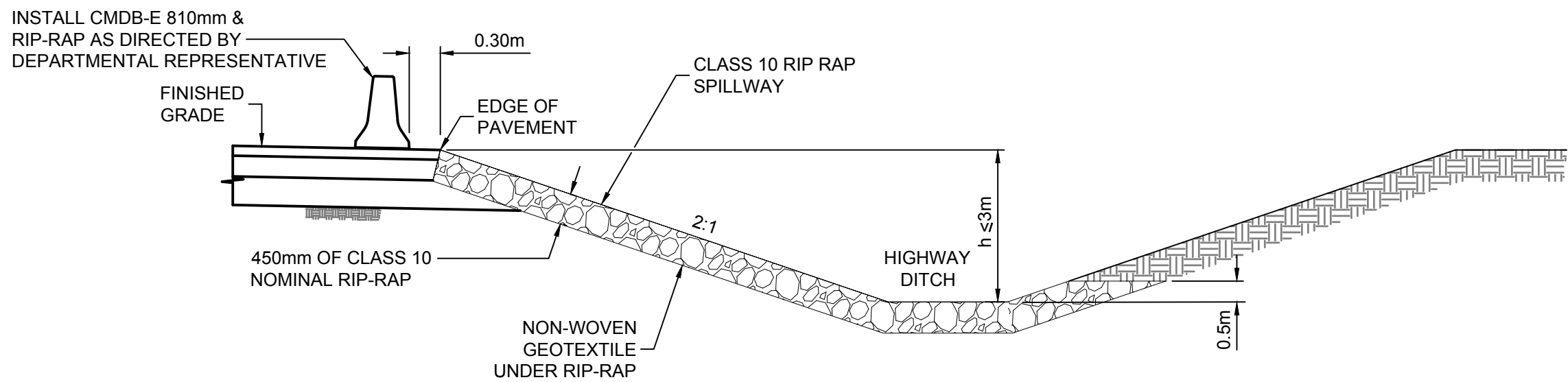


NOTE:
REFLECTORS TO BE SPACED AT A MAXIMUM OF 26m ON TRAFFUC SIDE OF BARRIER

DETAIL B: TYPICAL BARRIER
REFLECTOR INSTALLATION
N.T.S.



DETAIL C: TYPICAL GUIDE POST INSTALLATION
N.T.S.



DETAIL D: BARRIER DRAIN - WITH CSP OR RIP-RAP
(IF REQUIRED)
N.T.S.

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
B

Detail number
Sheet number
A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres
Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp
Sceau de l'ingénieur



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK

Drawing title/Titre du dessin

DETAILS
BARRIER

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille 403
Drawing Set No./Nº de série du dessin 60570877-G1		



PLAN
Scale 1:150

LEGEND

SUBGRADE PREPARATION, BASE & PAVEMENT



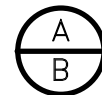
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NOTES:

1. REFER TO SHEET 301 FOR BASE AND PAVEMENT STRUCTURE.

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number
Sheet number

A Numéro de détail
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Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

AECOM

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Sceau de l'ingénieur



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**HWY 93S KM 19+620
PAINT POTS DUA
SUBGRADE PREPARATION, BASE AND PAVEMENT**

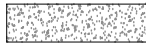
Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877-C2		501



PLAN
Scale 1:250

LEGEND

SUBGRADE PREPARATION, BASE & PAVEMENT



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NOTES:

1. REFER TO SHEET 301 FOR BASE AND PAVEMENT STRUCTURE.

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

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Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp
Sceau de l'ingénieur



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**HWY 93S KM 32+440
FLOE LAKE DUA
SUBGRADE PREPARATION, BASE AND PAVEMENT**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877-G1		502

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LEGEND:
ORIGINAL GROUND - - - - -
FINISHED GROUND _____
SUBCUT _____

FOR REFERENCE ONLY

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
B

Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

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

AECOM



Parcs Canada **Parcs Canada**
Asset Management **Gestion des biens**
Western and Northern **Région de l'Ouest et du Nord**
Region

Canada

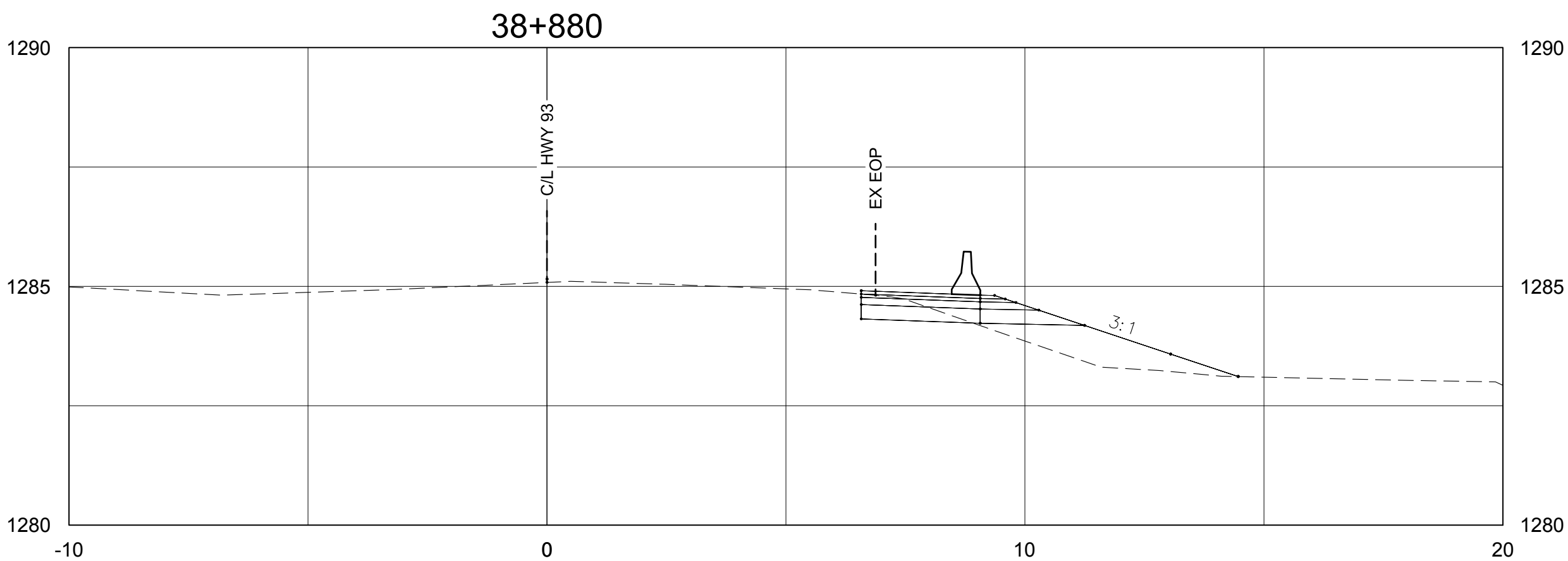
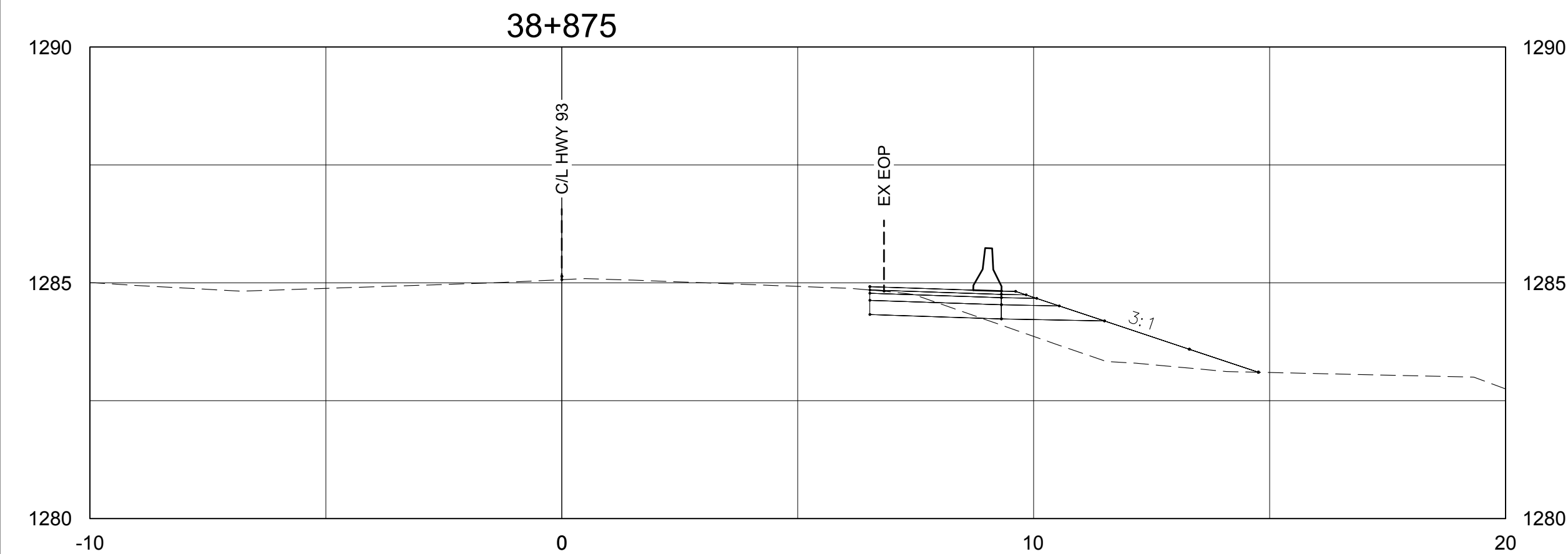
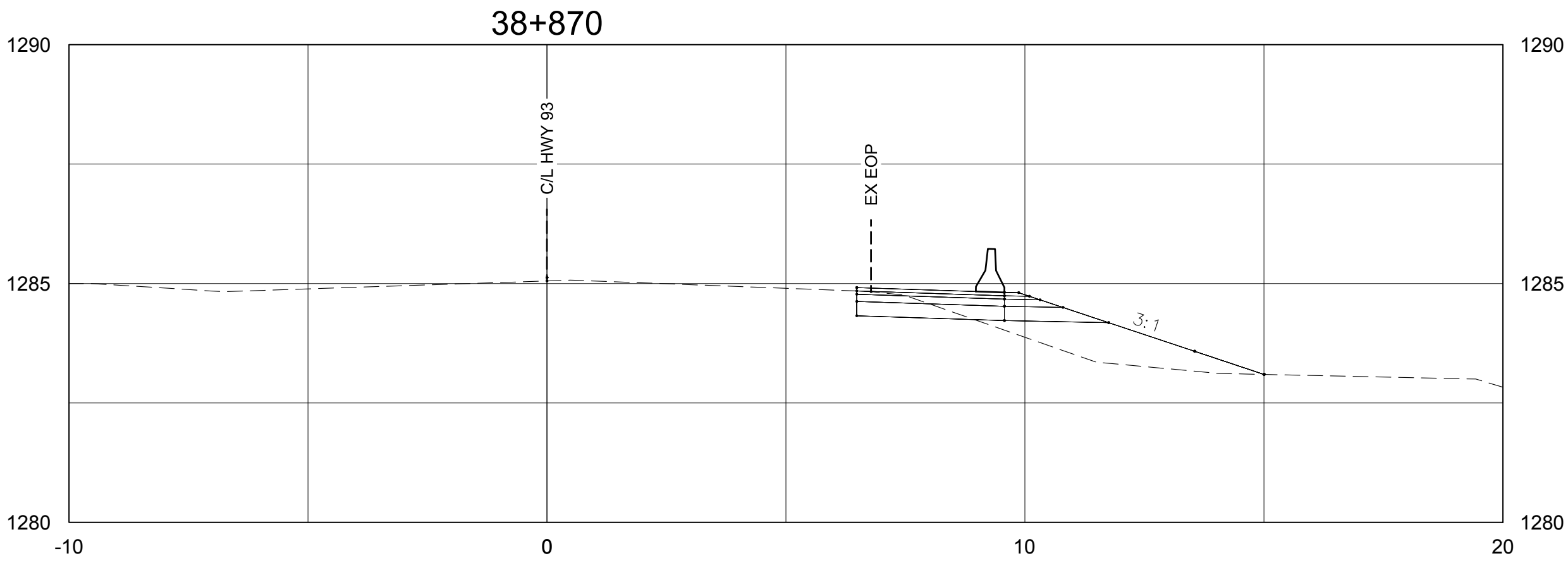
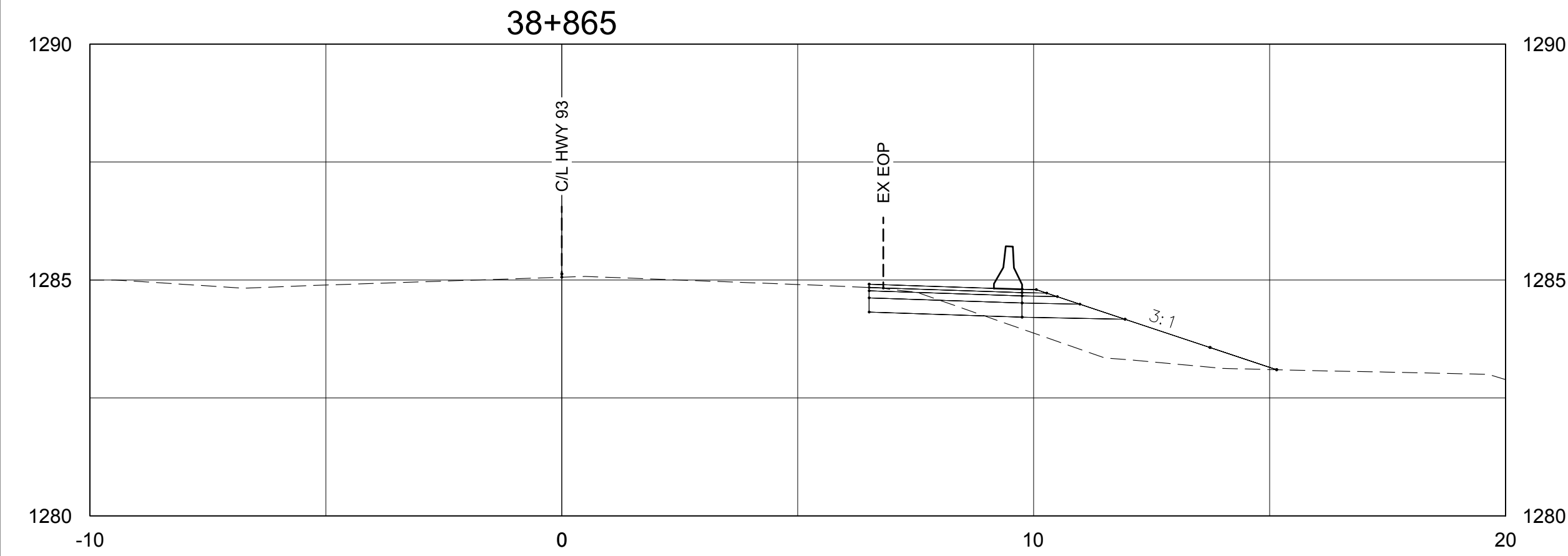
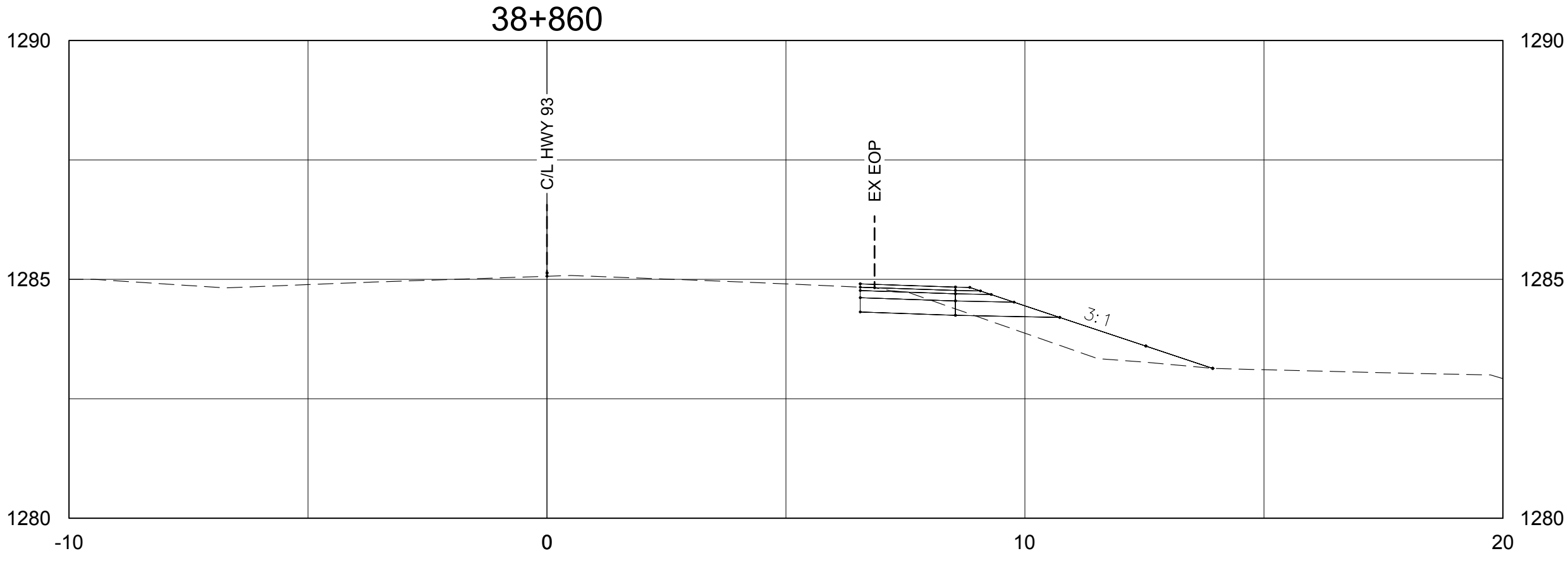
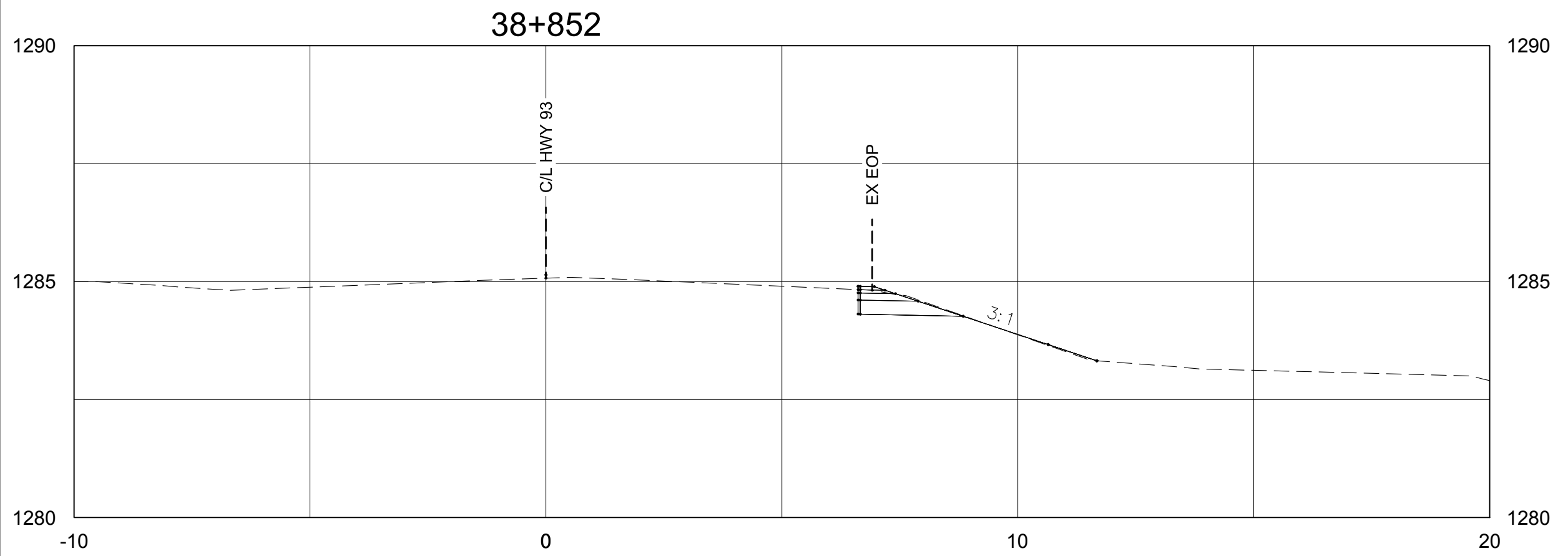
Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**CROSS SECTIONS
BARRIER FLARE WIDENING
STA 38+852 TO STA 38+880**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 2.5m

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

Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille XS01
Drawing Set No./Nº de série du dessin 60570877-C2		



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LEGEND:

ORIGINAL GROUND - - - - -
FINISHED GROUND _____
SUBCUT _____

FOR REFERENCE ONLY

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé


Revision / Revision

A
B

Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres


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

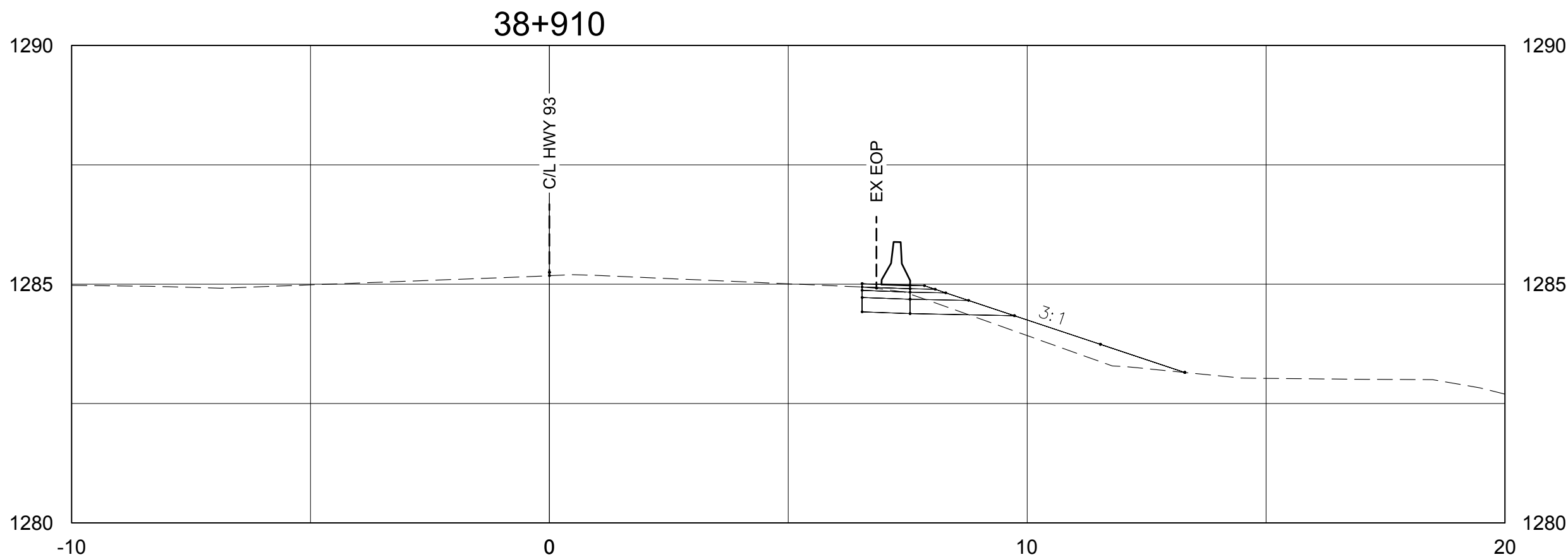
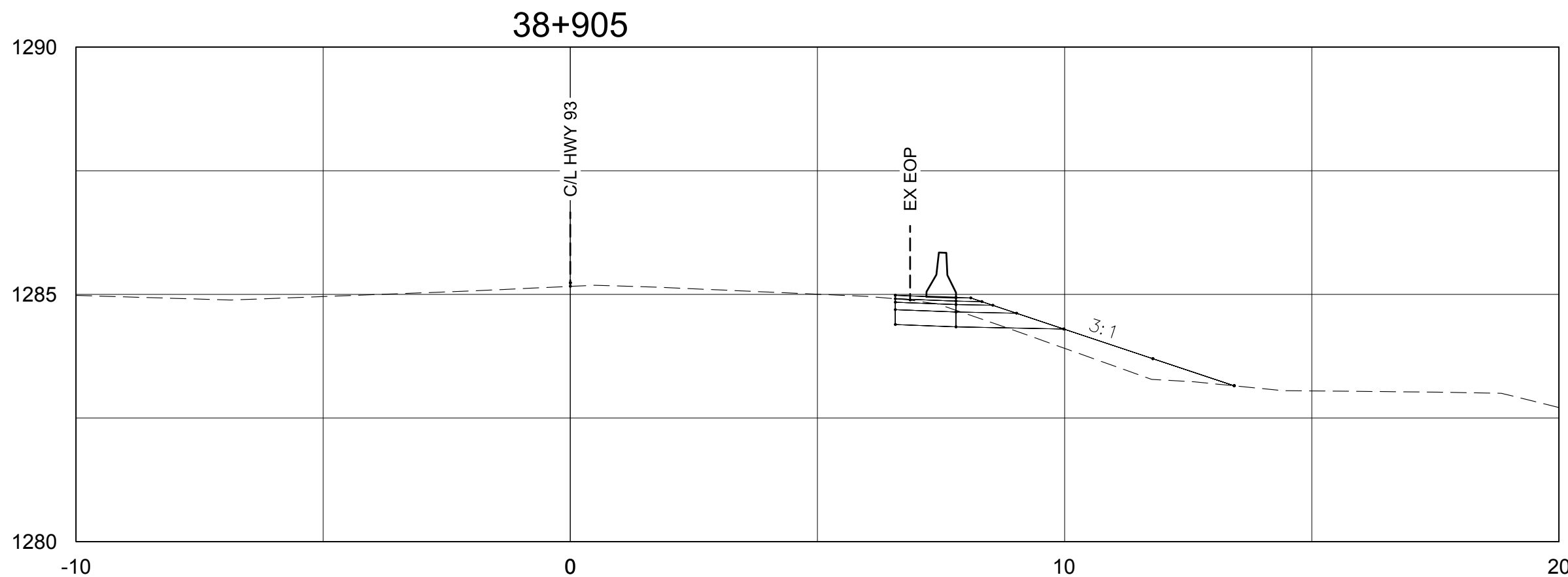
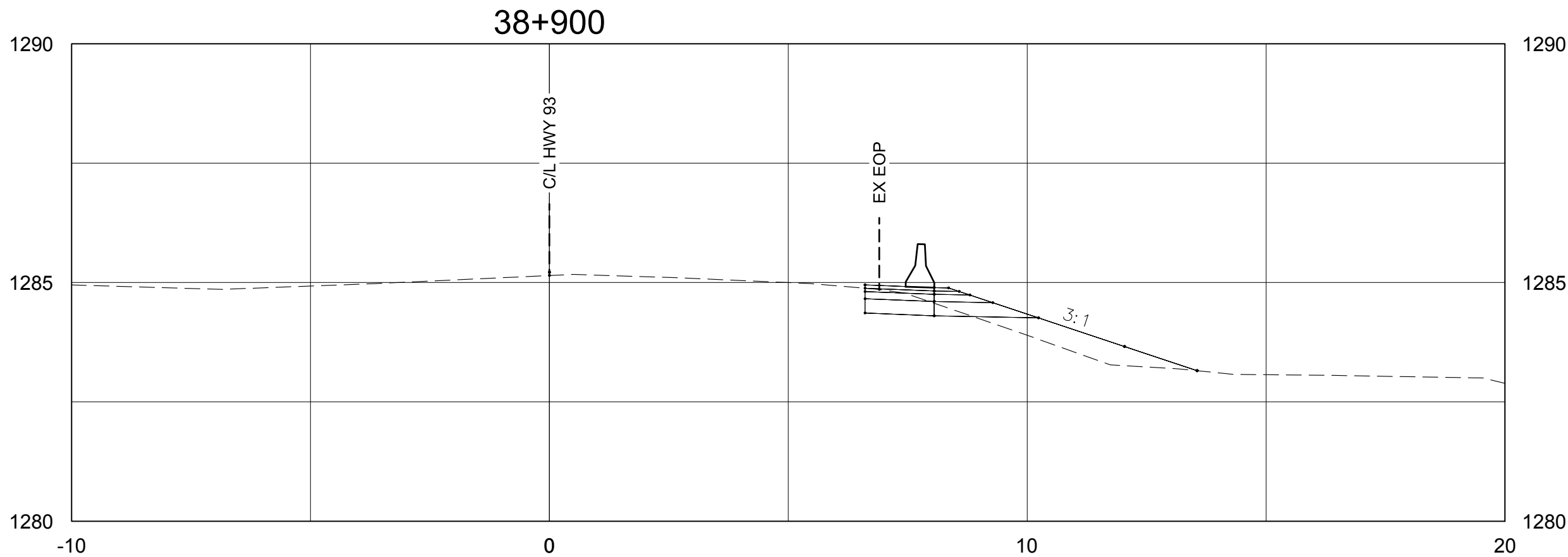
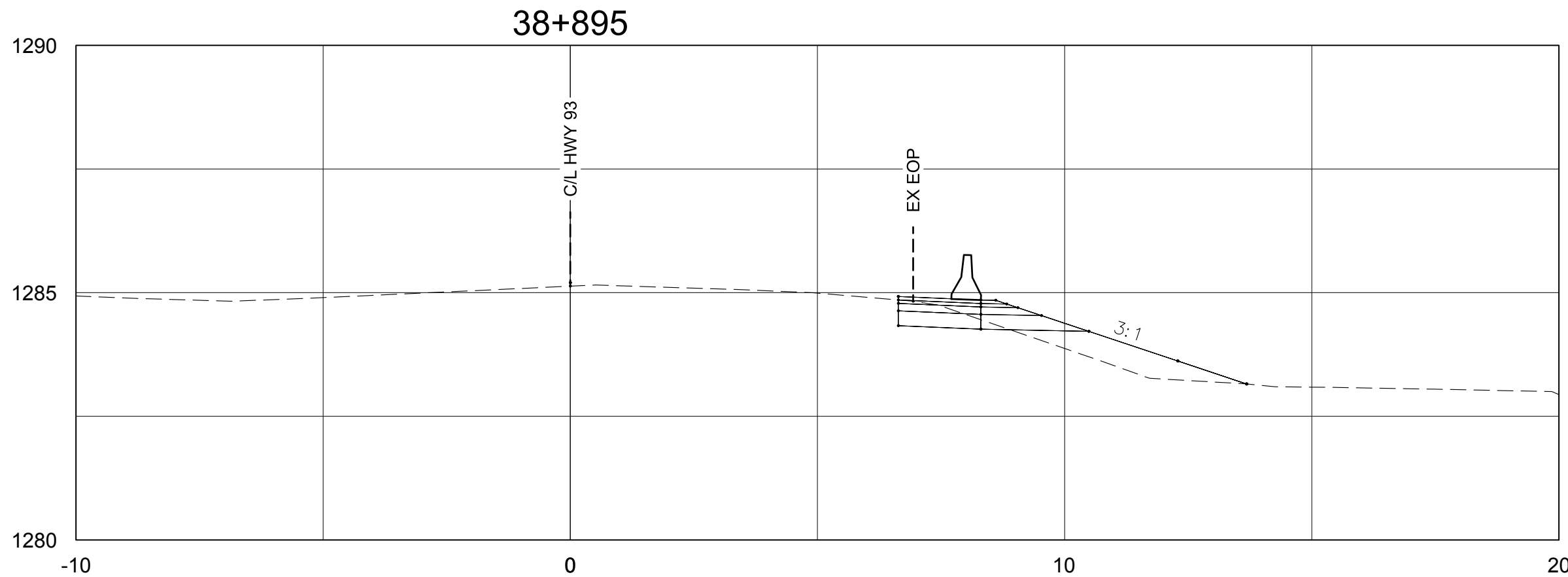
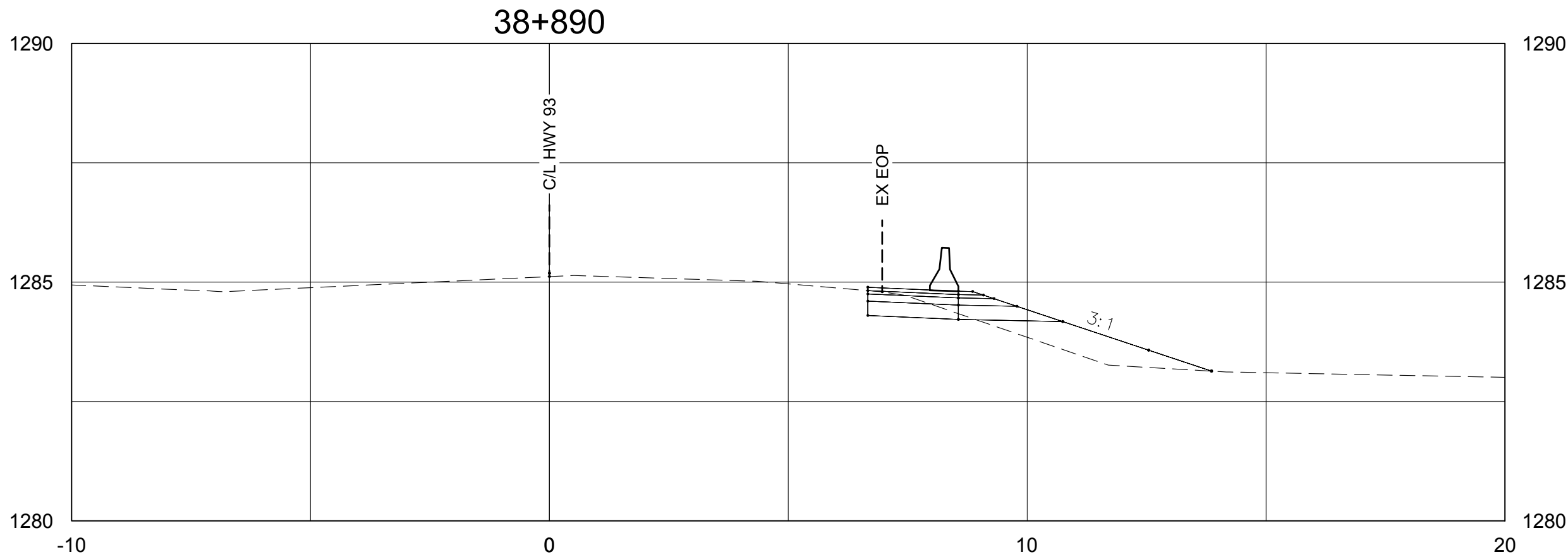
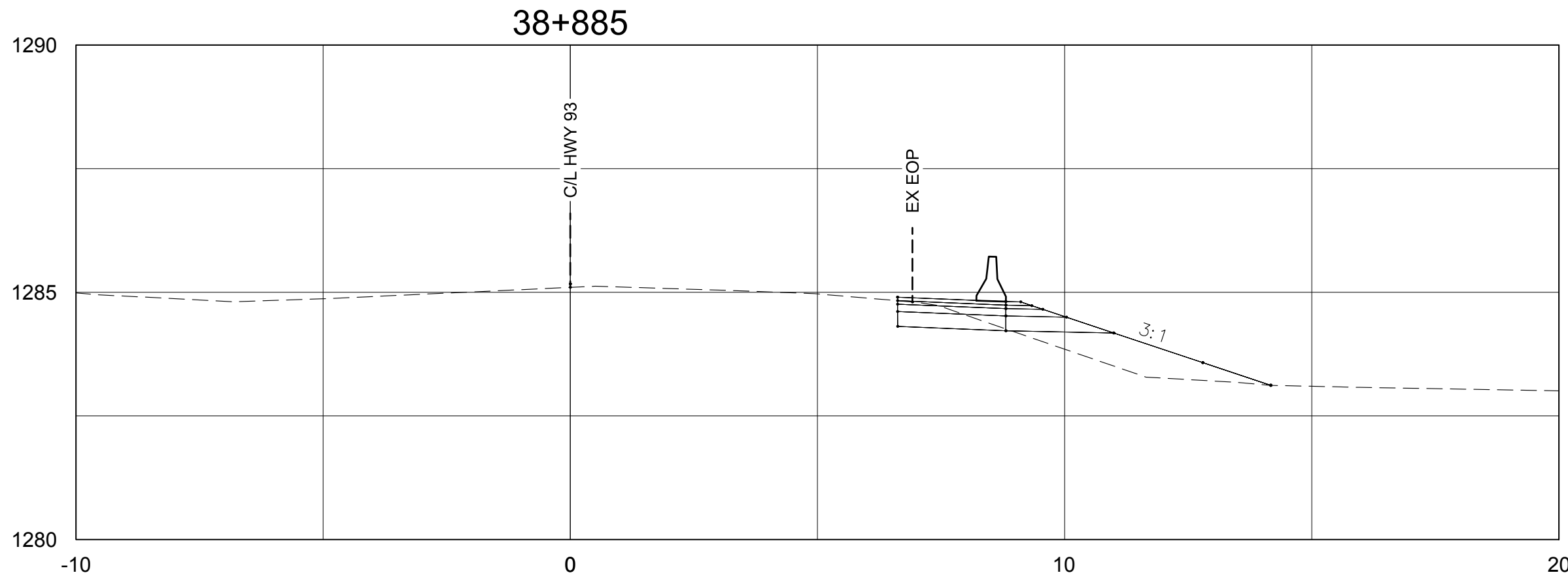
 Parks Canada	Parcs Canada
Asset Management Western and Northern Region	Gestion des biens Région de l'Ouest et du Nord

Canada

Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**CROSS SECTIONS
BARRIER FLARE WIDENING
STA 38+885 TO STA 38+910**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0  2.5m
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877-C2		XS02



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LEGEND:

ORIGINAL GROUND - - - - -
FINISHED GROUND _____
SUBCUT _____

FOR REFERENCE ONLY

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
B

Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

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

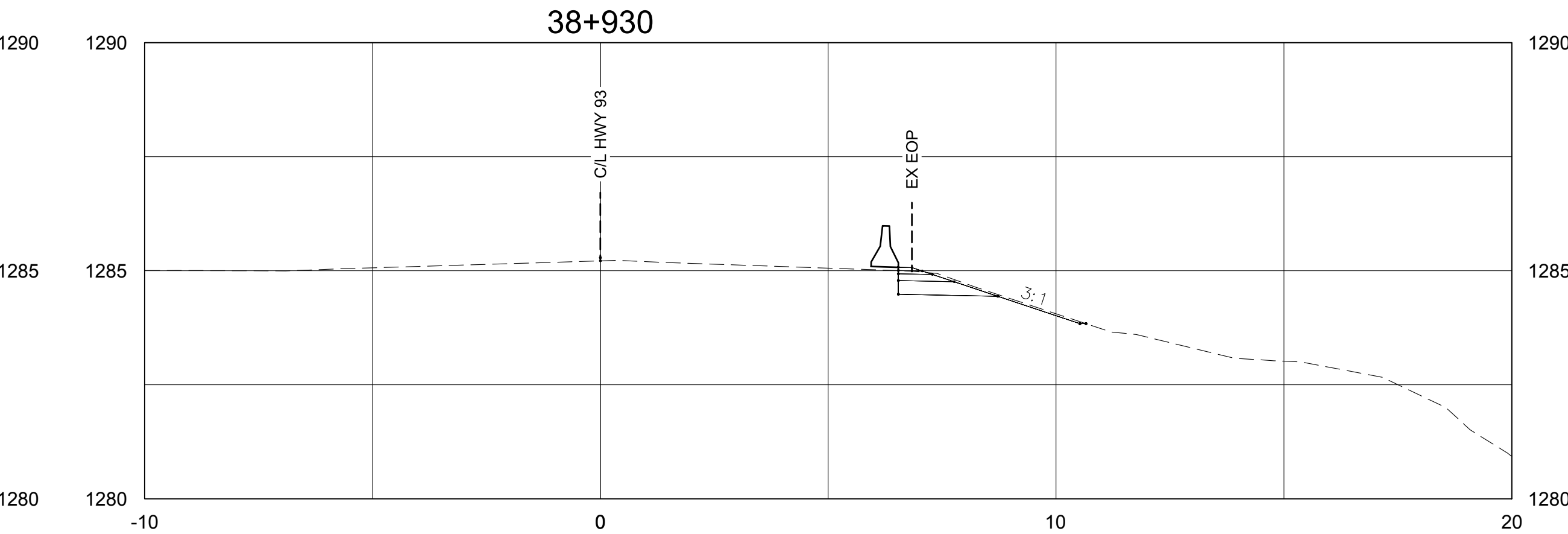
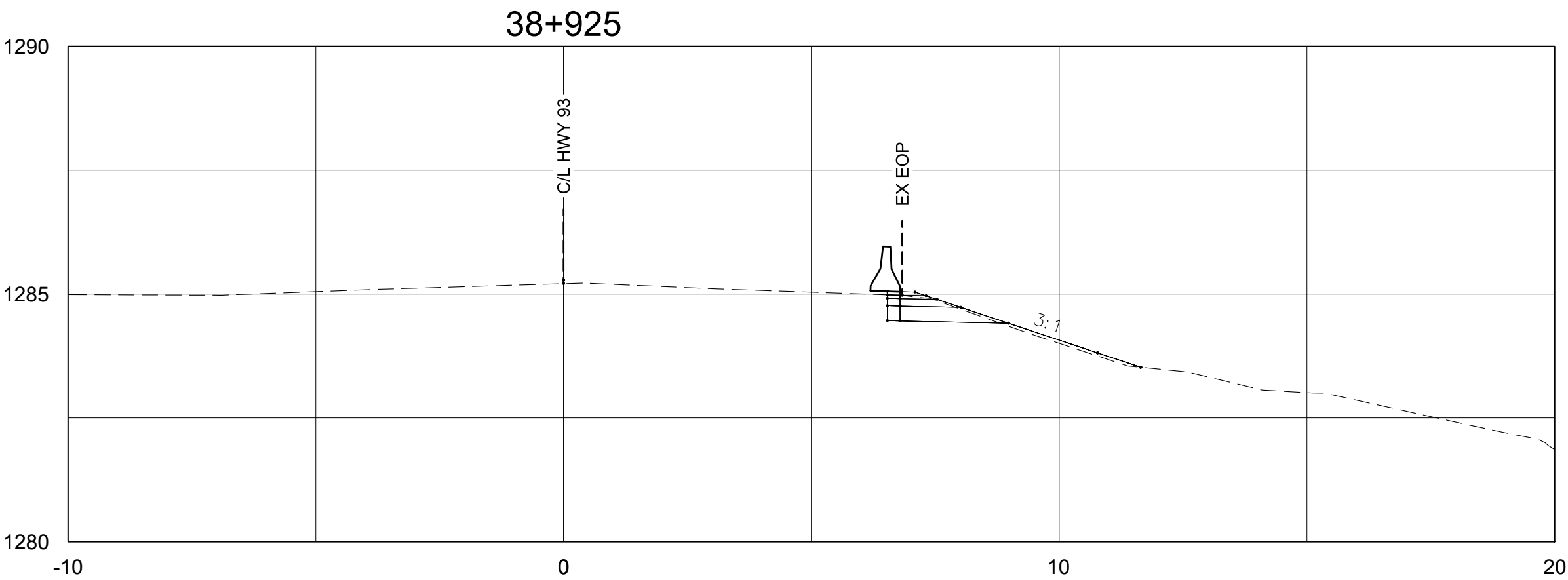
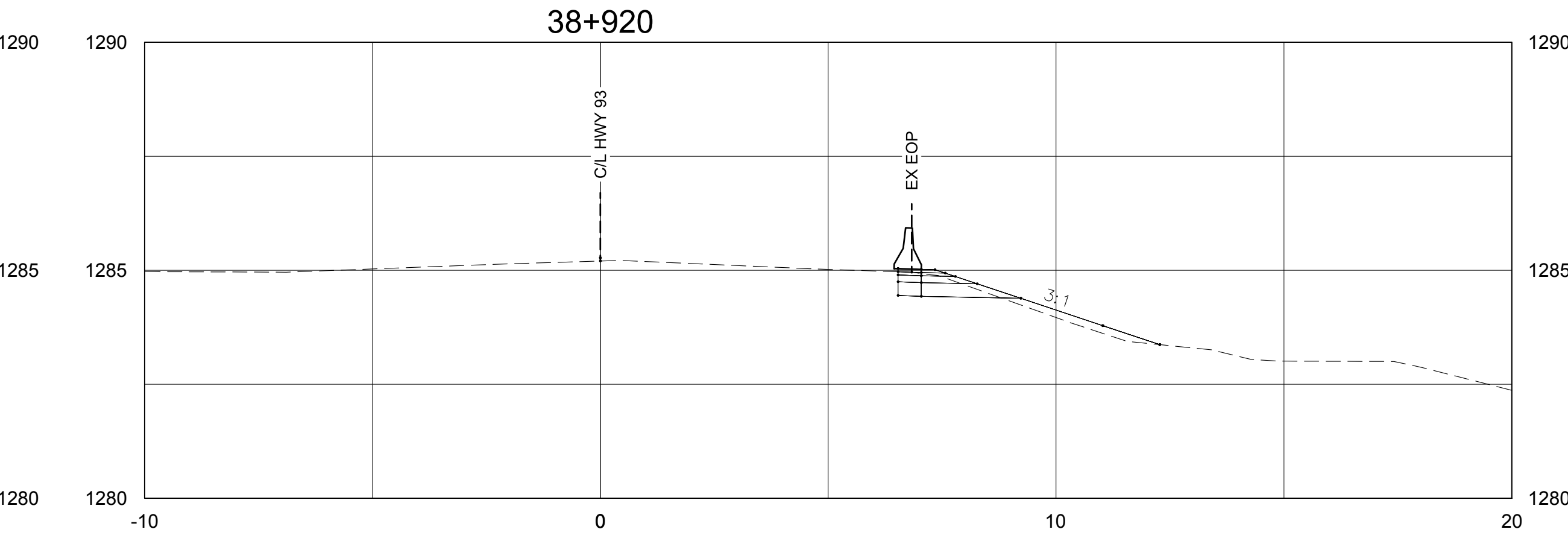
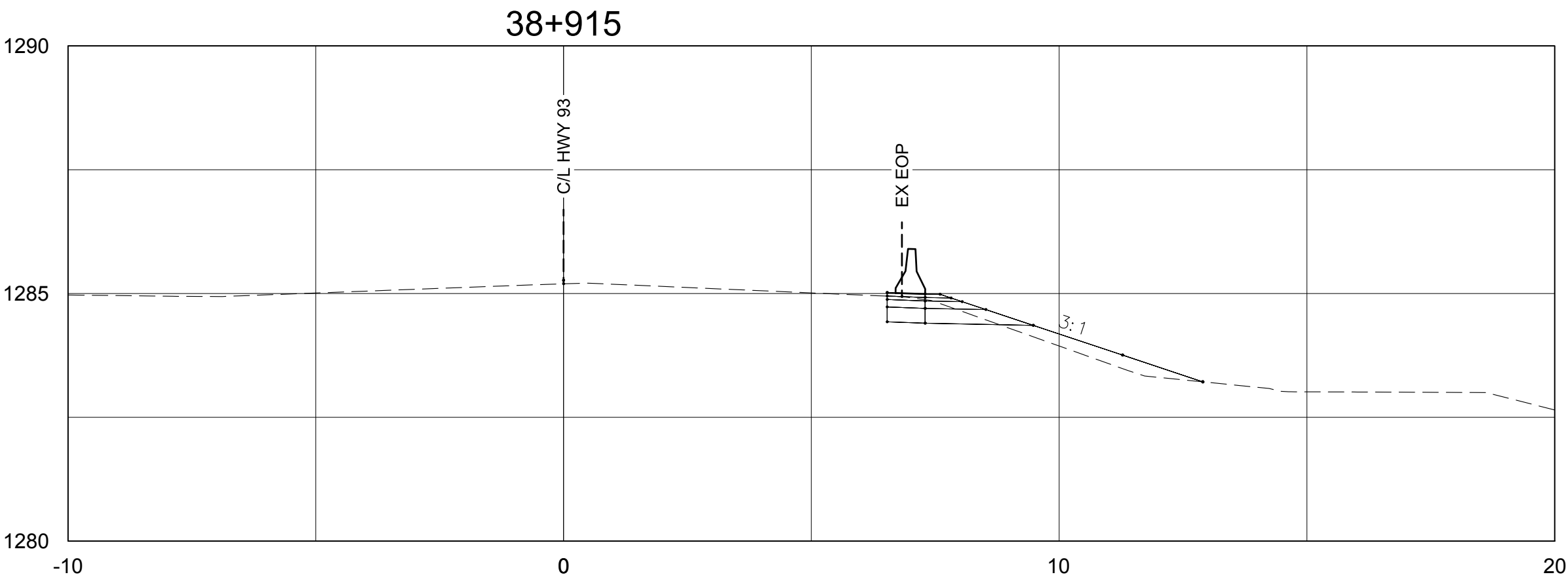
Parks Canada Parcs Canada
Asset Management Gestion des biens
Western and Région de l'Ouest et
Northern du Nord
Region

Canada

Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF–WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**CROSS SECTIONS
STA 39+915 TO STA 39+930**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 2.5m
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille XS03
Drawing Set No./Nº de série du dessin 60570877-C1		



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LEGEND:

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FINISHED GROUND _____
SUBCUT _____

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0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
B

Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp
Sceau de l'ingénieur



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK

Drawing title/Titre du dessin

CROSS SECTIONS
STA 39+151 TO STA 39+175

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 2.5m

Client Acceptance/Acceptation du client

Approved by/Approuvé par

	Date		Date
Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille XS04	
Drawing Set No./Nº de série du dessin 60570877-C1			

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LEGEND:
ORIGINAL GROUND - - - - -
FINISHED GROUND _____
SUBCUT _____

FOR REFERENCE ONLY

0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
B


Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

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

AECOM



 **Parks Canada**
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet
HIGHWAY 93 SOUTH
BANFF–WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK

Drawing title/Titre du dessin
CROSS SECTIONS
STA 39+180 TO STA 39+197

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 2.5m

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

Project No./Nº du projet 1343-01	Asset No./Nº du bien	Sheet No./ Nº de la feuille XS05
Drawing Set No./Nº de série du dessin 60570877-C2		

