Parks Canada
Agency

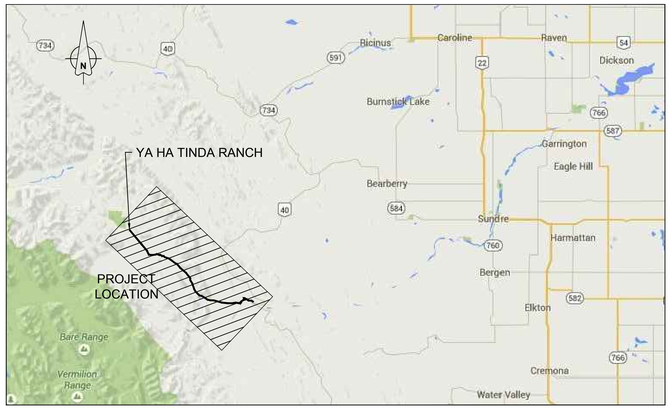
L'Agence Parcs
Canada

BANFF NATIONAL PARK
YA HA TINDA RANCH ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

ISSUED FOR TENDER

Project No. F11-696

JUNE 2017



LIST OF DRAWINGS

SHEET No.	PLAN No.	DESCRIPTION
1	C-0001	COVER
2	C-0002	GENERAL NOTE, LEGEND & INDEX
3	C-1001	KEY PLAN
4	C-2001	PLAN AND PROFILE - STA 0+000 TO STA 0+900
5	C-2002	PLAN AND PROFILE - STA 0+900 TO STA 1+800
6	C-2003	PLAN AND PROFILE - STA 1+800 TO STA 2+700
7	C-2004	PLAN AND PROFILE - STA 2+700 TO STA 3+650
8	C-2005	PLAN AND PROFILE - STA 3+650 TO STA 4+600
9	C-2006	PLAN AND PROFILE - STA 4+600 TO STA 5+550
10	C-2007	PLAN AND PROFILE - STA 5+550 TO STA 6+500
11	C-2008	PLAN AND PROFILE - STA 10+000 TO STA 10+179
12	C-3001	TYPICAL SECTIONS
13	C-4001	MASS HAUL DIAGRAM

GENERAL NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL COORDINATES AND ELEVATIONS ARE BASED ON 3TM NAD83 DATUM.
3. DO NOT SCALE DRAWINGS. ALL MEASUREMENTS MUST BE OBTAINED FROM STATED DIMENSIONS.
4. EXISTING GROUND IS BASED ON LIDAR DATA.
5. CONTRACTOR SHALL CALL 'ALBERTA ONE CALL' (1-800-242-3447) PRIOR TO DIGGING.
6. CONTRACTOR SHALL BE AWARE OF EXISTING UTILITY LINES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES FOR LOCATION OF OTHER UTILITIES NOT SHOWN ON PLAN.
7. EXISTING TREELINE SHOWN ON DRAWINGS IS APPROXIMATED FROM AERIAL PHOTOGRAPHY.
8. CLEAR ALL TREES, BRUSH, STUMPS AND OTHER ORGANIC MATERIAL FROM AREAS TO BE GRADED.
9. REMOVE ALL UNSUITABLE MATERIAL (MUCK AND/OR NON-COMPACTABLE MATERIAL) FROM AREAS TO BE FILLED.
10. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIALS AND DISPOSE OFF SITE.
11. CONTRACTOR SHALL MAINTAIN TRAFFIC OPERATION DURING CONSTRUCTION.
12. CONTRACTOR SHALL MAINTAIN INTEGRITY OF ALL NEARBY PASTURE FENCING AND PROTECT THE FENCING FROM DAMAGE.
13. PROMPTLY INFORM THE DEPARTMENTAL REPRESENTATIVE OF ANY ERROR OR DISCREPANCIES DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS OR CONFLICTS BETWEEN THE DRAWING OR SPECIFICATIONS IN ORDER THAT CORRECTIONS MAY BE MADE.
14. IF ANY ARCHEOLOGICAL SIGNIFICANT ITEMS ARE EXPOSED DURING CONSTRUCTION, WORK SHALL STOP AND DEPARTMENTAL REPRESENTATIVE IMMEDIATELY NOTIFIED.
15. ASSUMED TOPSOIL DEPTHS FOR HIGHLAND ARE 400mm FROM STA 0+755.490 TO STA 1+975.65 AND 150mm FROM STA 1+975.65 TO STA 3+807.60

SURVEY CONTROL POINTS			
No.	NORTHING	EASTING	ELEVATION
CP3	5733243.696	598967.915	1608.214
CP4	5731777.489	603164.062	1543.057
CP5	5732094.492	602342.408	1544.914
CP6	5732500.925	599538.869	1574.069
CP7	5733784.278	598477.333	1639.086

LEGEND

- PROPOSED CULVERT
- PROPOSED ROAD
- PROPOSED EDGE OF GRAVEL
- PROPOSED DAYLIGHT (CUT SECTION)
- PROPOSED DAYLIGHT (FILL SECTION)
- EXISTING GROUND PROFILE
- PROPOSED TOP OF SUBGRADE PROFILE
- PROPOSED DITCH PROFILE
- ROAD CLOSURE
- PROPOSED PAIGE WIRE FENCE
- PROPOSED BARBED WIRE FENCE
- PROPOSED WOOD FENCE
- FENCE TO BE REMOVED
- EXISTING ROAD
- CLEARING AND GRUBBING
- ARCHAEOLOGICAL SITE OF INTEREST
- GATES

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Signature
Date June 14, 2017
PERMIT NUMBER: P 10450
The Association of Professional Engineers and Geoscientists of Alberta

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
5				
4				
3	17-05-29	ISSUED FOR TENDER	CW	KG
2	17-04-04	ISSUED FOR 95% REVIEW	CW	KG
1	17-02-09	ISSUED FOR 30% REVIEW	DM	KG

Revision / Revision

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

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

Eng. Stamp / Sceau de l'ingénieur: Professional Engineer Alberta, Brent Ian Taylor, 29 Jun 2017

Canada

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

Project title/Titre du projet
BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin
GENERAL NOTE, LEGEND & INDEX

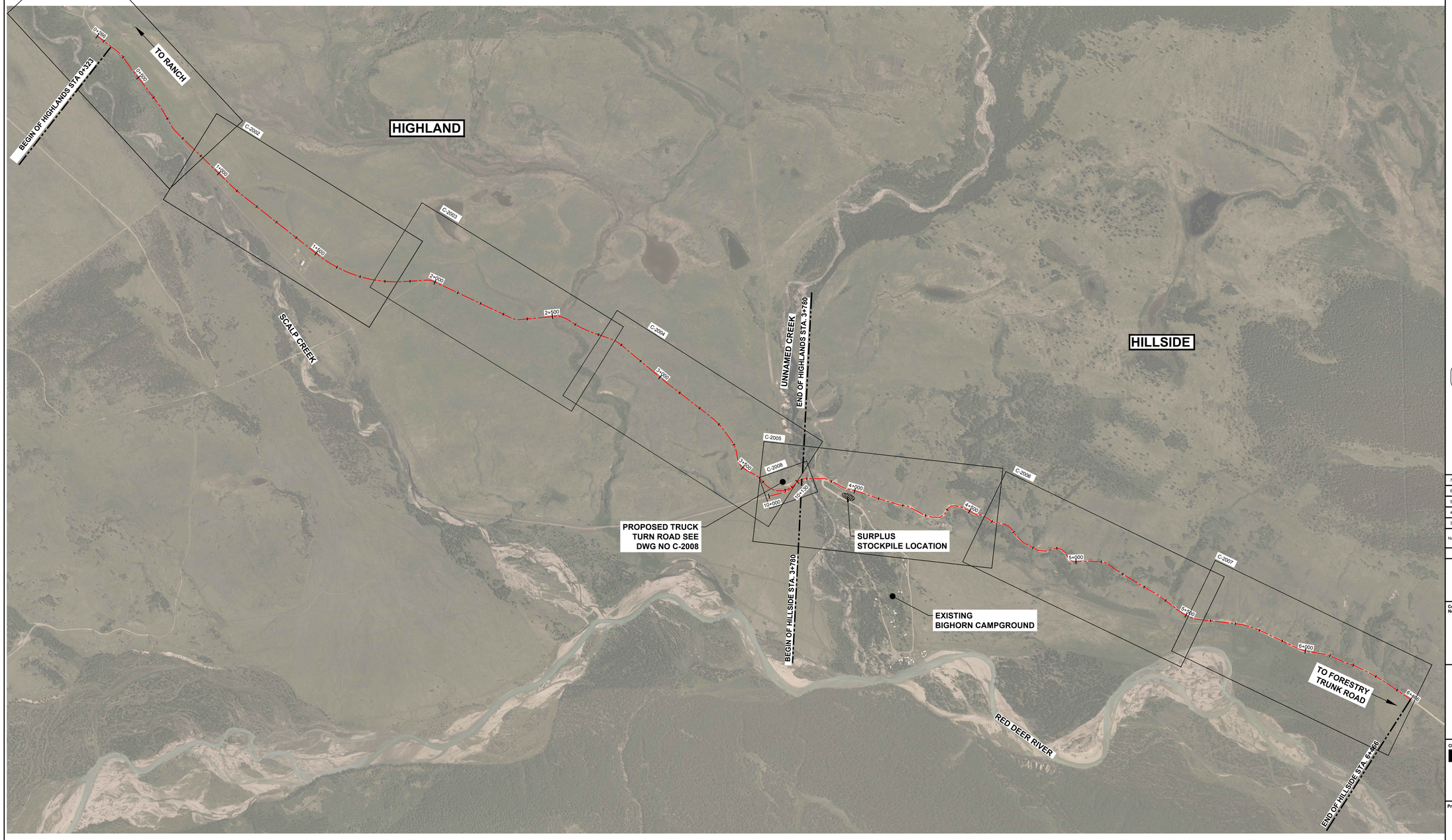
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
MR	RL	N/S

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client — Park Responsible Officer/Agent Responsable
Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet: F11-696
Asset No./No. du-bien:
Sheet No./No. de la feuille: C-0002
Drawing Reference No./No. de référence du dessin

A0 1189 x 841



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7	2017-05-29	ISSUED FOR TENDER	CW	KG
6	17-04-04	ISSUED FOR 95% REVIEW	CW	KG
5	17-01-09	REISSUED FOR TENDER	CW	KG
4	16-12-05	ISSUED FOR TENDER	DM	KG
3	16-10-21	REISSUED FOR TENDER REVIEW	LL	KG

Revision / Revision

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

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

Eng. Stamp
Sceau de l'ingénieur
PROFESSIONAL ENGINEER ALBERTA
JUN 14 2017

Canada

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

Project title/Titre du projet
BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin
KEY PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Échelle**
MR	RL	1:400

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client — Park Responsible Officer/Agent Responsable
Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets

Project No./No. du projet: F11-696
Asset No./No. du-bien:
Drawing Reference No./No. de réference du dessin:
Sheet No./No. de la feuille: C-1001

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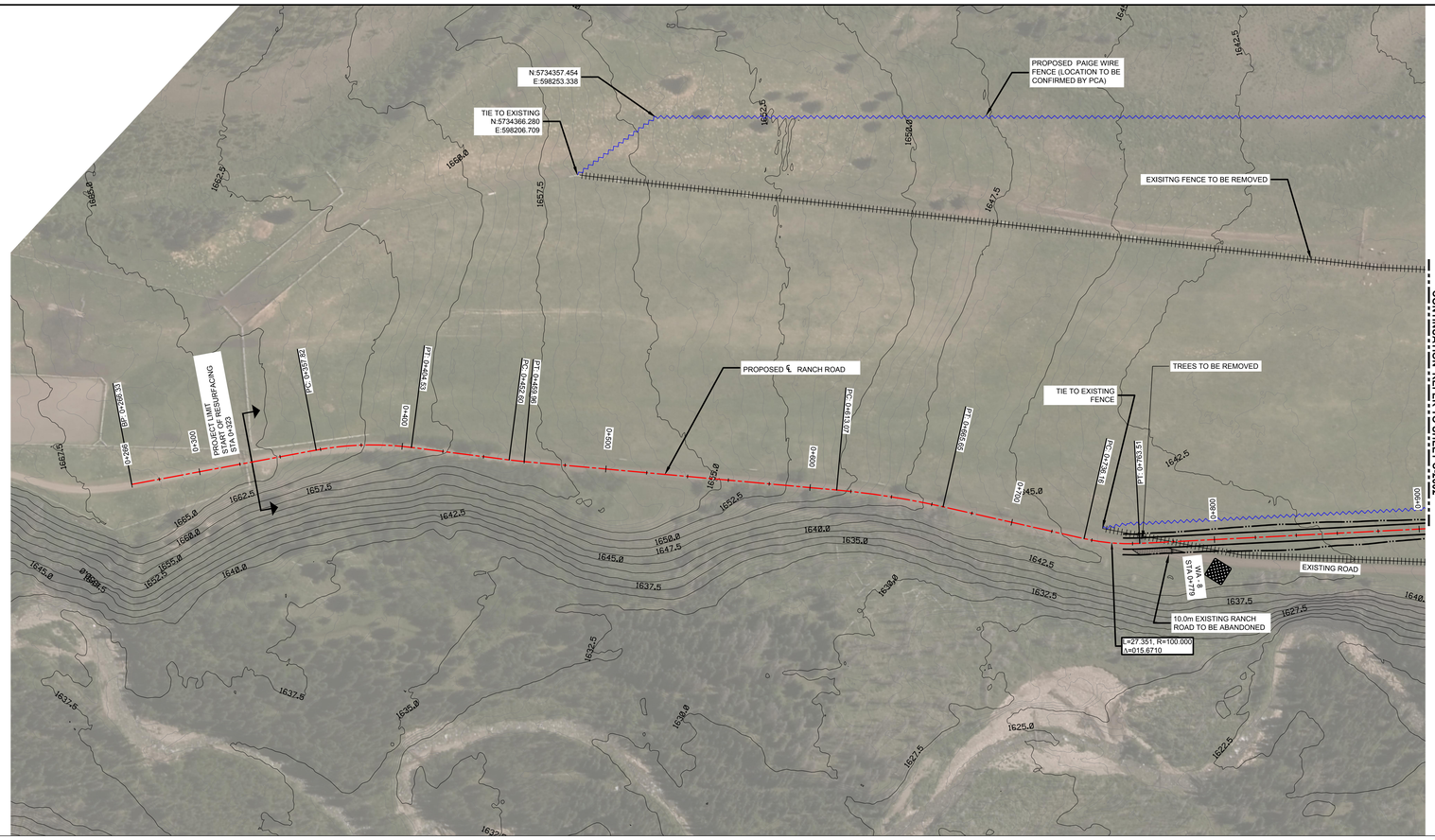

KEY MAP

LEGEND

- PROPOSED CULVERT
- ℄ PROPOSED ROAD
- PROPOSED EDGE OF GRAVEL
- PROPOSED DAYLIGHT (CUT SECTION)
- PROPOSED DAYLIGHT (FILL SECTION)
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- ARCHAEOLOGICAL SITE OF INTEREST

GENERAL NOTE

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2. SIGN SYMBOL AND DESIGNATION INDICATES INSTALLATION OF NEW SIGN

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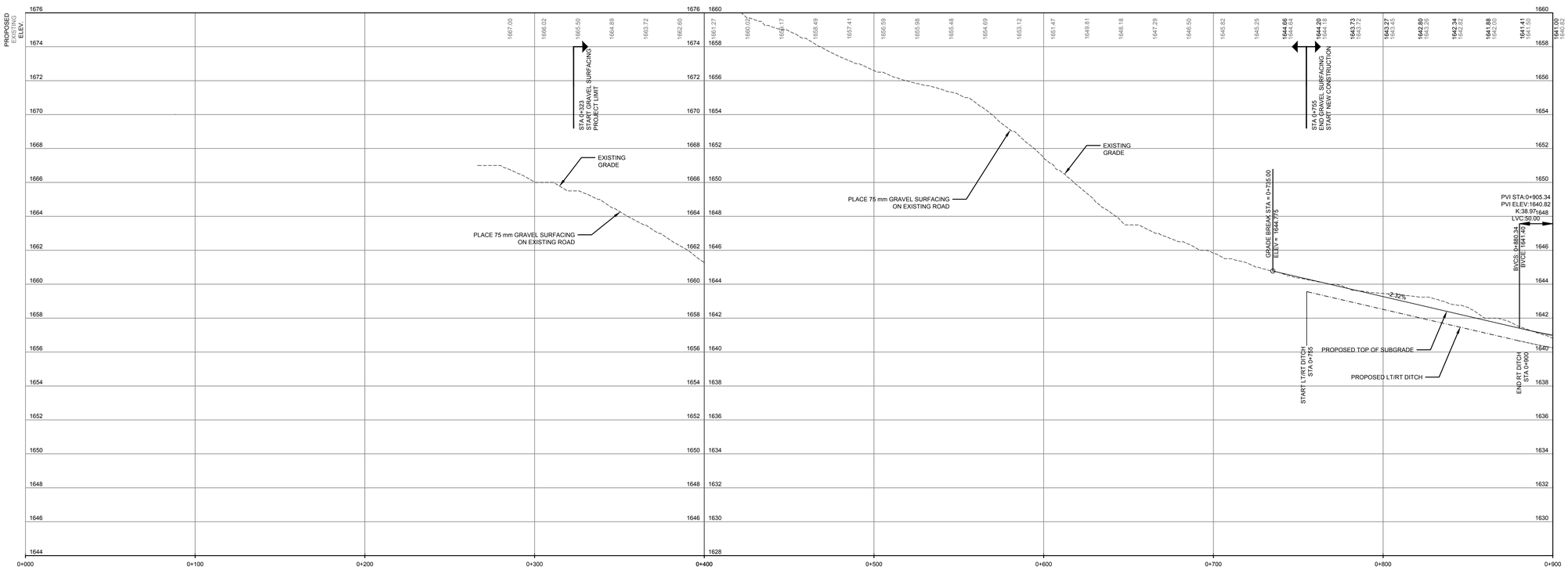

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Eng. Stamp / Sceau de l'ingénieur

Canada

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Project title/Titre du projet

BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin

PLAN AND PROFILE
STA 0+000 TO STA 0+900

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
MR	RL	H=1:1000 V=1:100

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client — Parks Responsible Officer/Agent Responsable

Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets TPGSC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
F11-696		C-2001

Drawing Reference No./No. de référence du dessin

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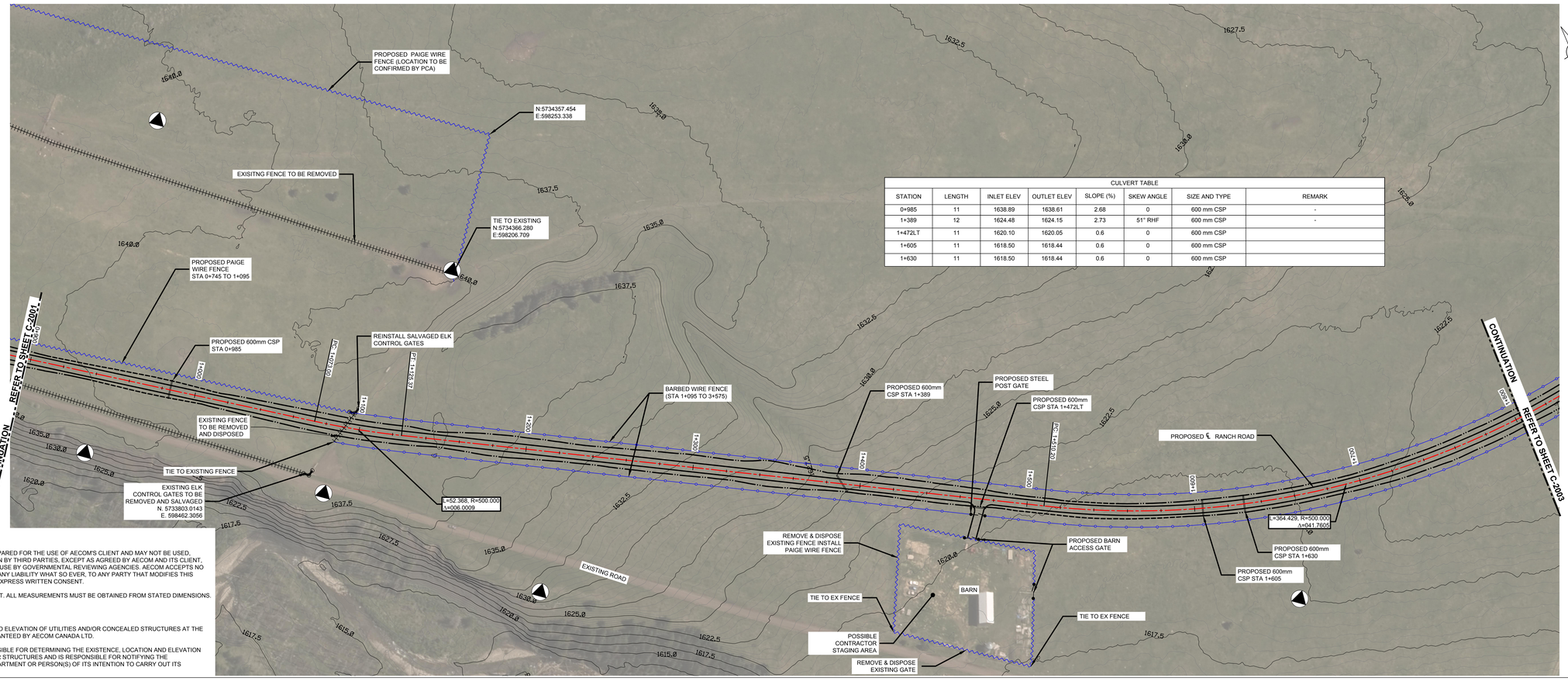
AD 1189 x 841



CULVERT TABLE							
STATION	LENGTH	INLET ELEV	OUTLET ELEV	SLOPE (%)	SKEW ANGLE	SIZE AND TYPE	REMARK
0+985	11	1638.89	1638.61	2.68	0	600 mm CSP	-
1+389	12	1624.48	1624.15	2.73	51° RHF	600 mm CSP	-
1+472LT	11	1620.10	1620.05	0.6	0	600 mm CSP	
1+605	11	1618.50	1618.44	0.6	0	600 mm CSP	
1+630	11	1618.50	1618.44	0.6	0	600 mm CSP	

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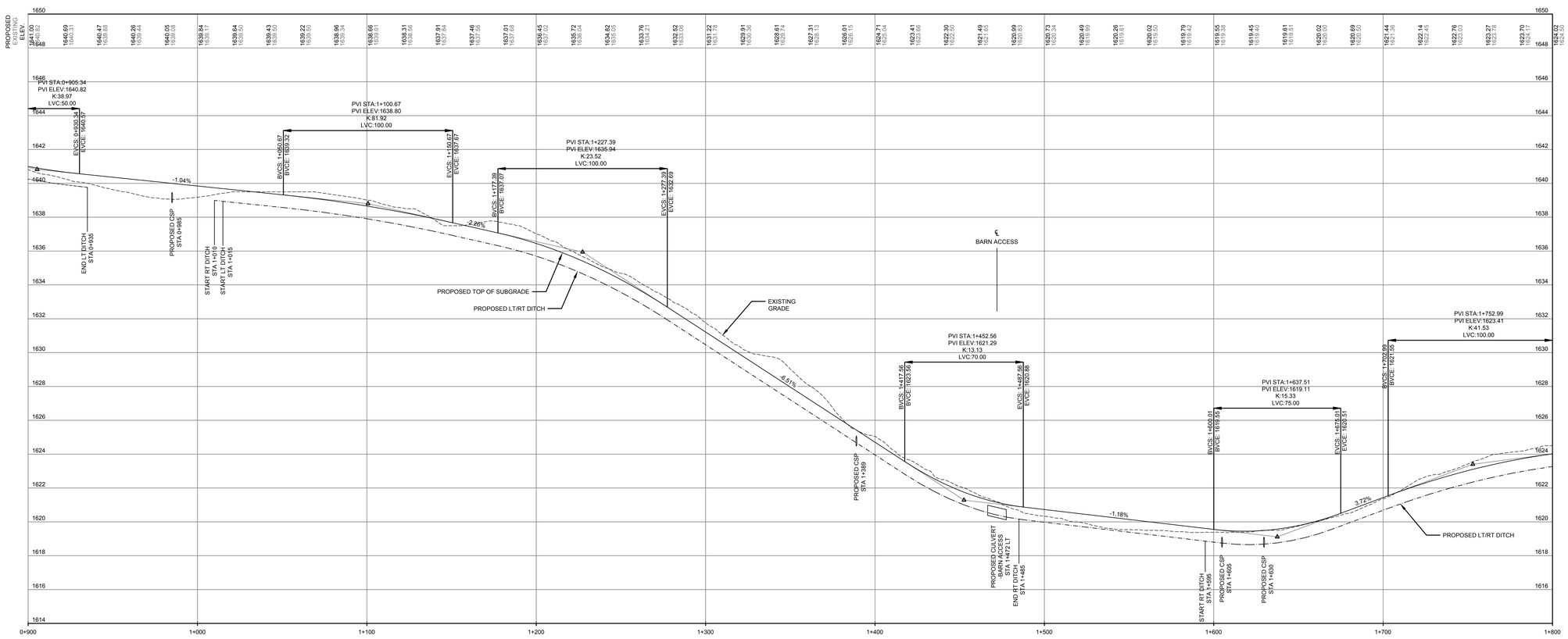

KEY MAP

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- PROPOSED CULVERT
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- PROPOSED EDGE OF GRAVEL
- PROPOSED DAYLIGHT (CUT SECTION)
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- PROPOSED WOOD FENCE
- FENCE TO BE REMOVED
- EXISTING ROAD ABANDONED
- CLEARING AND GRUBBING
- ARCHAEOLOGICAL SITE OF INTEREST

GENERAL NOTE

1. ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE
2. SIGN SYMBOL AND DESIGNATION INDICATES INSTALLATION OF NEW SIGN

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Revision / Revision

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

Eng. Stamp / Sceau de l'ingénieur

Canada

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

Project title/Titre du projet

BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin

PLAN AND PROFILE
STA 0+900 TO STA 1+800

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
MR	RL	H=1:1000 V=1:100

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client: Park Responsible Officer/Agent Responsable

Approved by/Approuvé par: PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
F11-696		C-2002

Drawing Reference No./No. de référence du dessin

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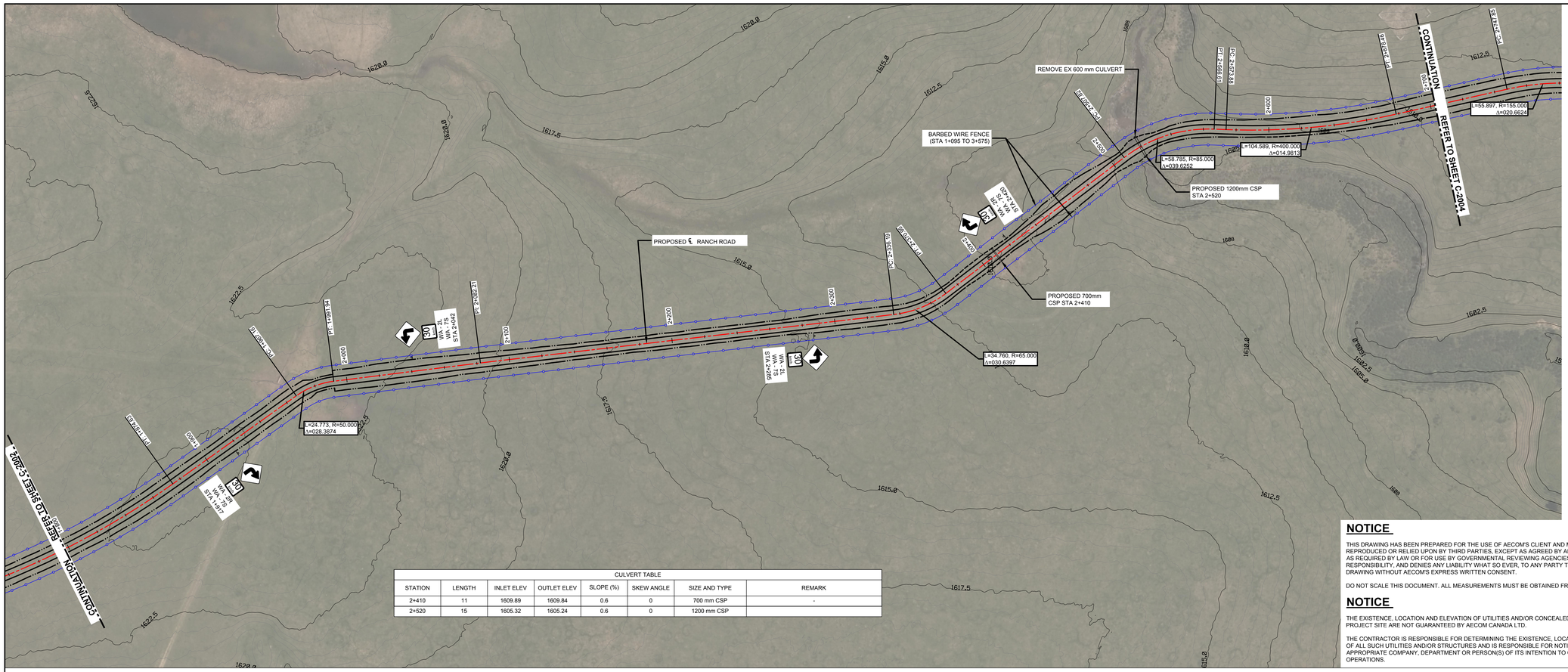

CULVERT TABLE							
STATION	LENGTH	INLET ELEV	OUTLET ELEV	SLOPE (%)	SKEW ANGLE	SIZE AND TYPE	REMARK
2+410	11	1609.89	1609.84	0.6	0	700 mm CSP	-
2+520	15	1605.32	1605.24	0.6	0	1200 mm CSP	

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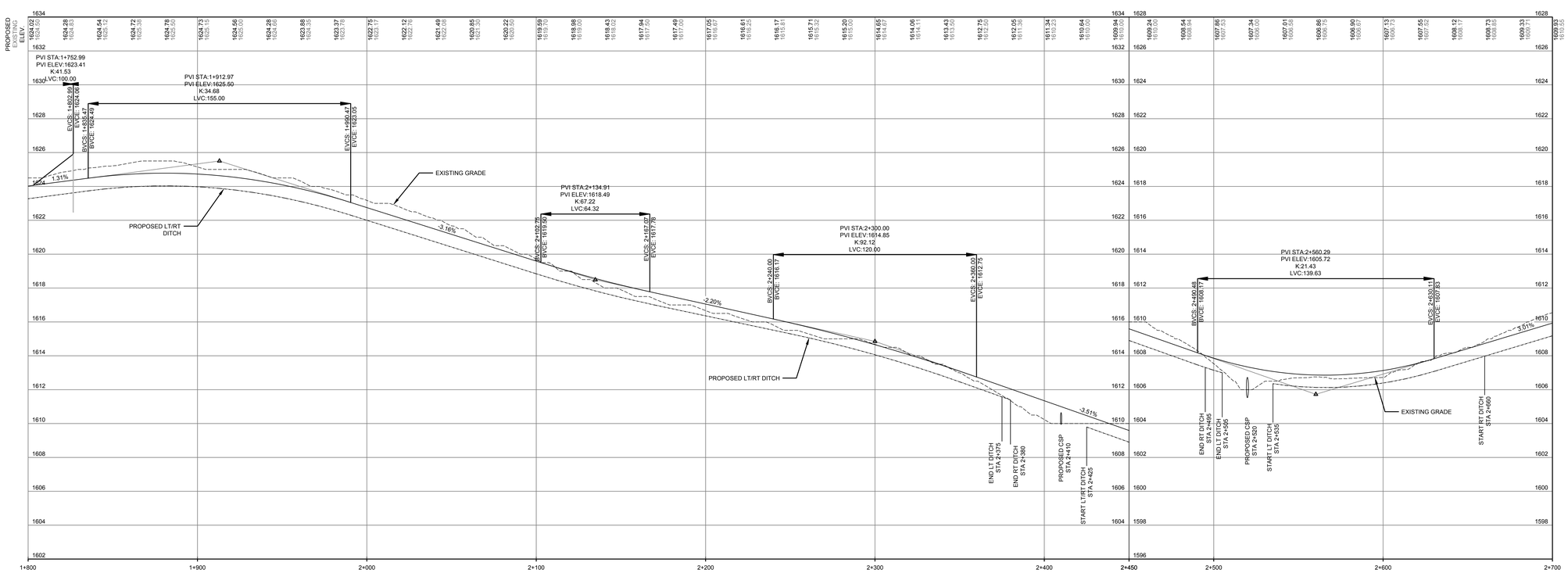

KEY MAP

LEGEND

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- PROPOSED EDGE OF GRAVEL
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BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin

PLAN AND PROFILE
STA 1+800 TO STA 2+700

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
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MR	RL	H=1:1000 V=1:100

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

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Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
F11-696		C-2003

Drawing Reference No./No. de réference du dessin

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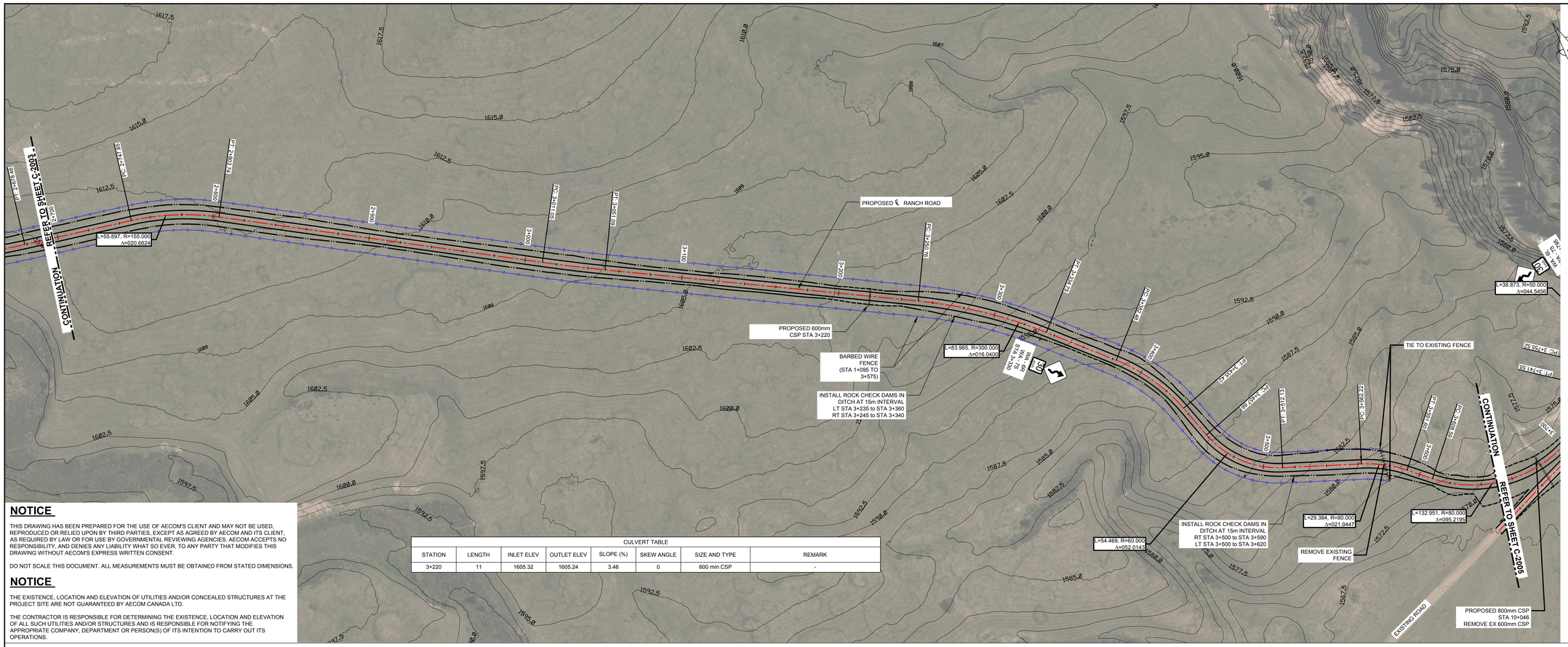
AD 7169 x 841



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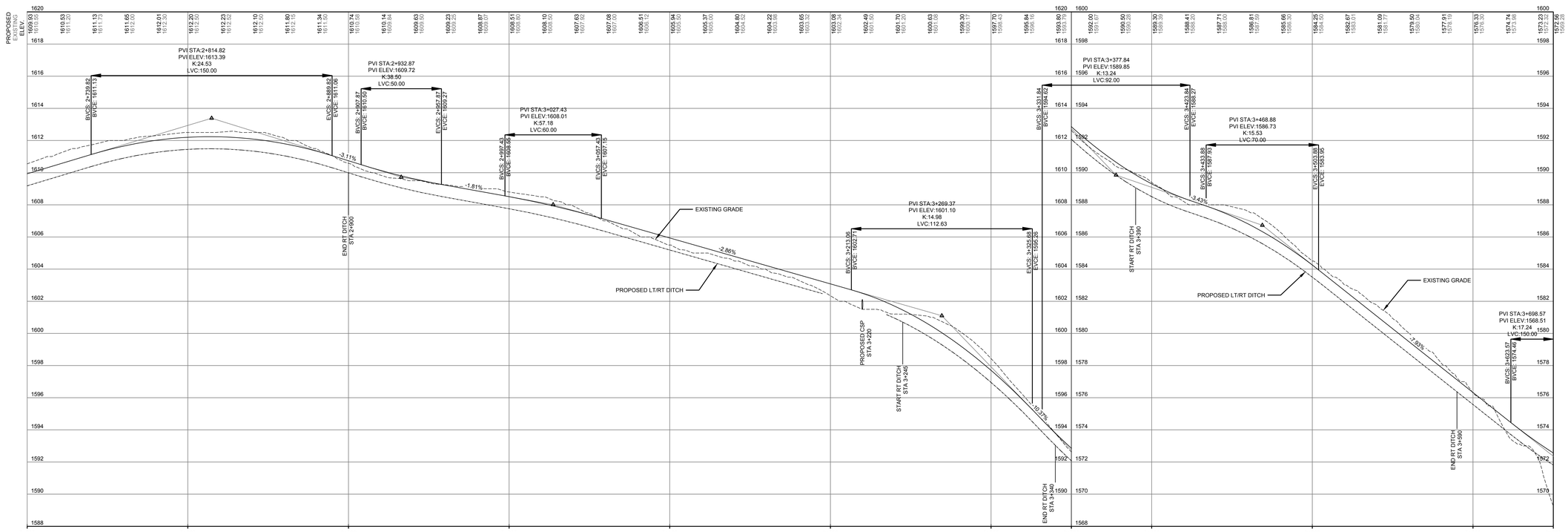
CULVERT TABLE

STATION	LENGTH	INLET ELEV	OUTLET ELEV	SLOPE (%)	SKEW ANGLE	SIZE AND TYPE	REMARK
3+220	11	1605.32	1605.24	3.46	0	600 mm CSP	-



KEY MAP

LEGEND

- PROPOSED CULVERT
- PROPOSED ROAD
- PROPOSED EDGE OF GRAVEL
- PROPOSED DAYLIGHT (CUT SECTION)
- PROPOSED DAYLIGHT (FILL SECTION)
- EXISTING GROUND PROFILE
- PROPOSED TOP OF SUBGRADE PROFILE
- PROPOSED DITCH PROFILE
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- PROPOSED PAIGE WIRE FENCE
- PROPOSED BARBED WIRE FENCE
- PROPOSED WOOD FENCE
- FENCE TO BE REMOVED
- EXISTING ROAD ABANDONED
- CLEARING AND GRUBBING
- ARCHAEOLOGICAL SITE OF INTEREST

GENERAL NOTE

1. ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE
2. SIGN SYMBOL AND DESIGNATION INDICATES INSTALLATION OF NEW SIGN

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Signature
Date June 14, 2017
PERMIT NUMBER: P 10450
The Association of Professional Engineers and Geoscientists of Alberta

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
5				
4				
3	17-05-29	ISSUED FOR TENDER	CW	KG
2	17-04-04	ISSUED FOR 95% REVIEW	CW	KG
1	17-02-09	ISSUED FOR 30% REVIEW	DM	KG

Revision / Revision

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

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

Eng. Stamp / Sceau de l'ingénieur

Canada

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

Project title/Titre du projet

BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin

PLAN AND PROFILE
STA 2+700 TO STA 3+650

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
MR	RL	H=1:1000 V=1:100

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client — Park Responsible Officer/Agent Responsable

Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille
F11-696		C-2004

Drawing Reference No./No. de référence du dessin

Last saved by: RIZZAM11(2017-06-02) Last Plotted: 2017-06-02
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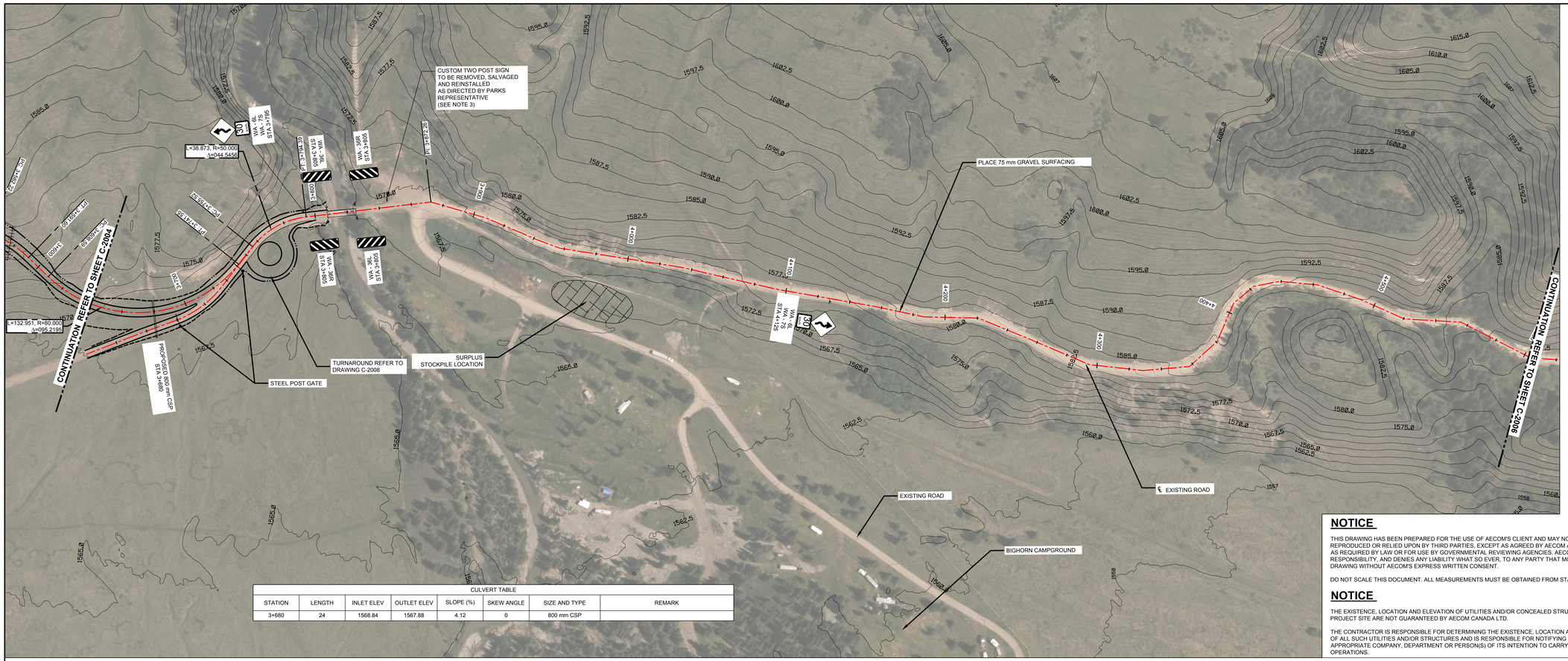
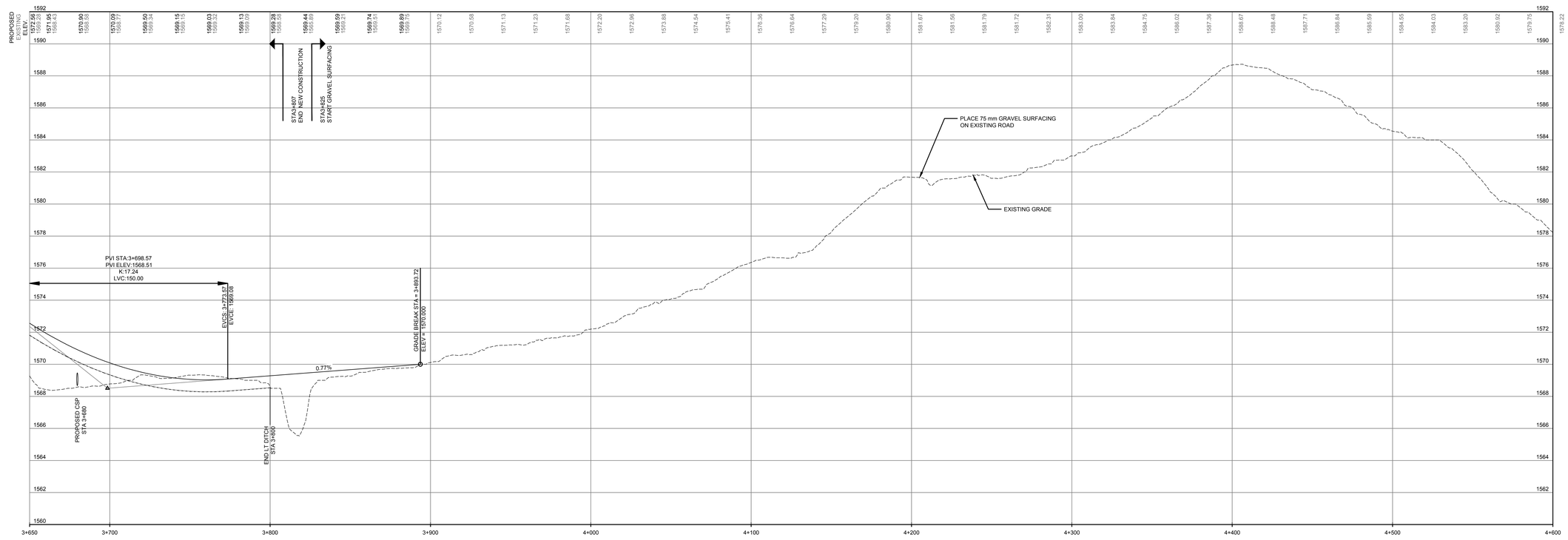
AD 1169 x 841



CULVERT TABLE							
STATION	LENGTH	INLET ELEV	OUTLET ELEV	SLOPE (%)	SKEW ANGLE	SIZE AND TYPE	REMARK
3+680	24	1568.84	1567.88	4.12	0	800 mm CSP	



KEY MAP

LEGEND

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- ℄ PROPOSED ROAD
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- EXISTING ROAD
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- ARCHAEOLOGICAL SITE OF INTEREST

GENERAL NOTE

1. ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE
2. SIGN SYMBOL AND DESIGNATION INDICATES INSTALLATION OF NEW SIGN
3. CURRENT WELCOME SIGN LOCATION N5732586, E599314

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
8	17-06-16	ISSUED FOR TENDER	CW	KG
7	17-05-29	ISSUED FOR TENDER	CW	KG
6	17-04-04	ISSUED FOR 95% REVIEW	CW	KG
5	17-01-09	REISSUED FOR TENDER	CW	KG
4	16-12-05	ISSUED FOR TENDER	DM	KG

Revision / Revision

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

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

Eng. Stamp / Sceau de l'ingénieur: PROFESSIONAL ENGINEER ALBERTA

Canada

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

Project title/Titre du projet
BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin
PLAN AND PROFILE
STA 3+650 TO STA 4+600

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
MR	RL	H=1:1000 V=1:100

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client — Park Responsible Officer/Agent Responsable

Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille
F11-696		C-2005

Drawing Reference No./No. de référence du dessin

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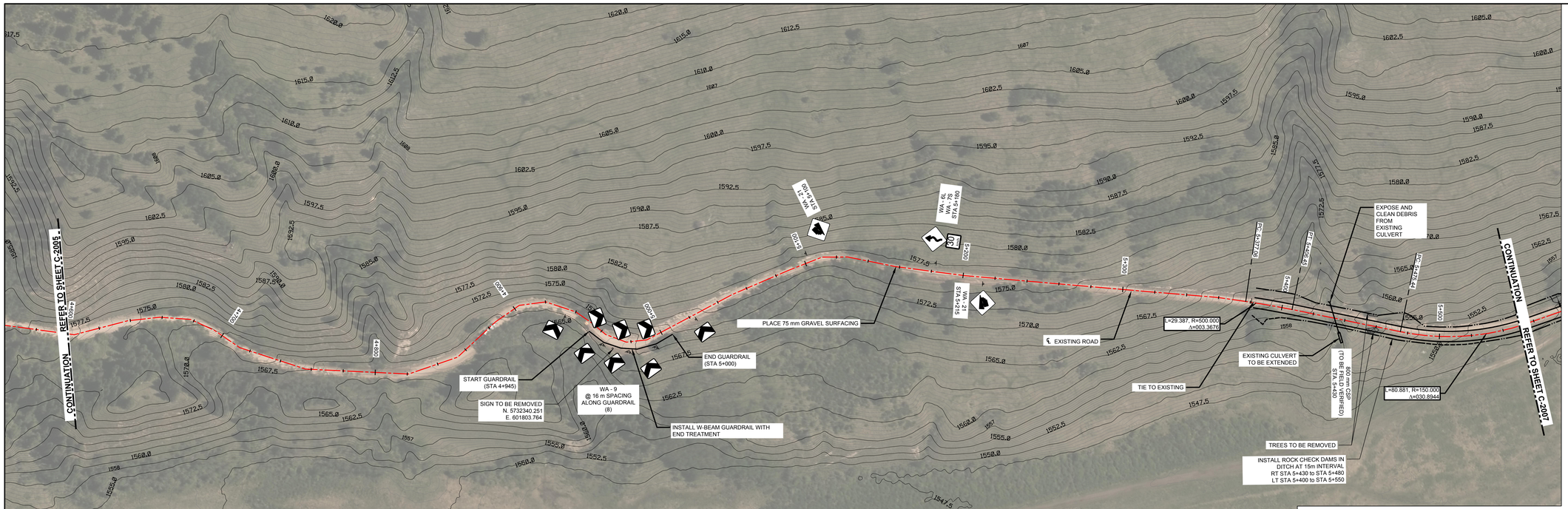

CULVERT TABLE							
STATION	LENGTH	INLET ELEV	OUTLET ELEV	SLOPE (%)	SKEW ANGLE	SIZE AND TYPE	REMARK
5+430	3	--	--	--	28 RHF	800 mm CSP	CULVERT TO BE EXTENDED

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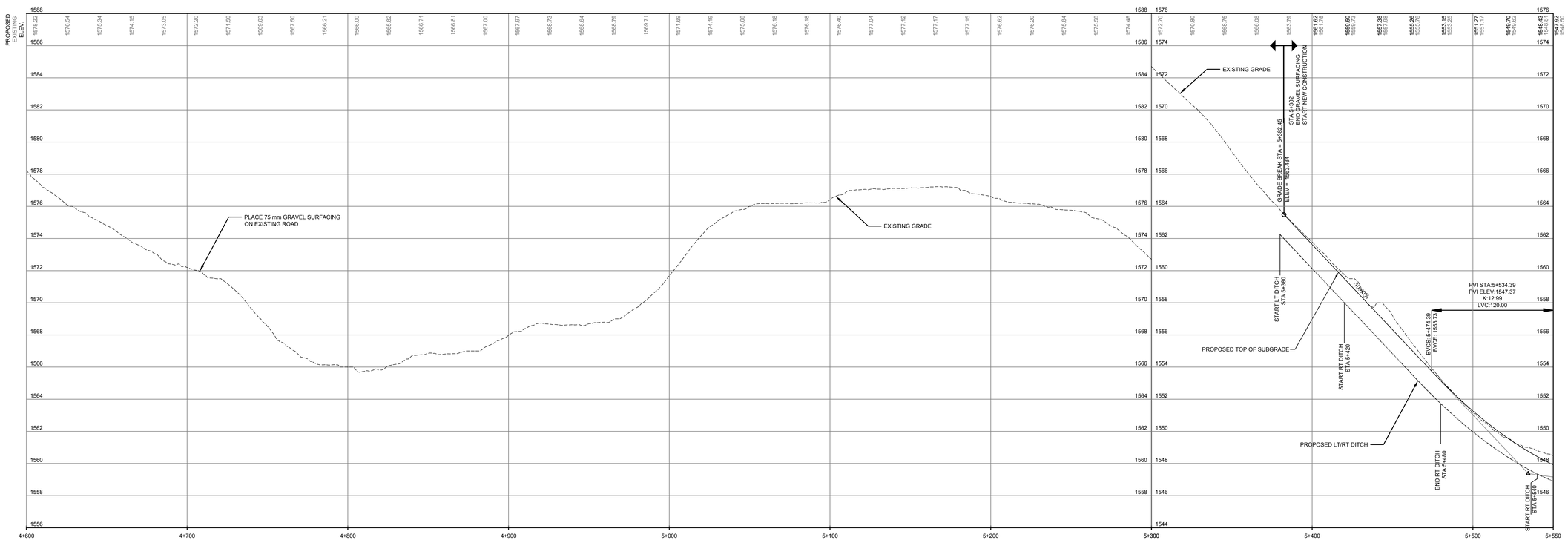

KEY MAP

LEGEND

- PROPOSED CULVERT
- PROPOSED ROAD
- PROPOSED EDGE OF GRAVEL
- PROPOSED DAYLIGHT (CUT SECTION)
- PROPOSED DAYLIGHT (FILL SECTION)
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- PROPOSED DITCH PROFILE
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GENERAL NOTE

1. ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE
2. SIGN SYMBOL AND DESIGNATION INDICATES INSTALLATION OF NEW SIGN

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Date June 14, 2017
PERMIT NUMBER: P 10450
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
7	2017-05-29	ISSUED FOR TENDER	CW	KG
6	17-04-04	ISSUED FOR 95% REVIEW	CW	KG
5	17-01-09	REISSUED FOR TENDER	CW	KG
4	16-12-05	ISSUED FOR TENDER	DM	KG
3	16-10-21	REISSUED FOR TENDER REVIEW	LL	KG

Revision / Revision

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

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

Eng. Stamp / Sceau de l'ingénieur

Canada

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

Project title/Titre du projet

BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin

PLAN AND PROFILE
STA 4+600 TO STA 5+550

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
MR	RL	H=1:1000 V=1:100

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client — Park Responsible Officer/Agent Responsable

Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
F11-696		C-2006

Drawing Reference No./No. de référence du dessin

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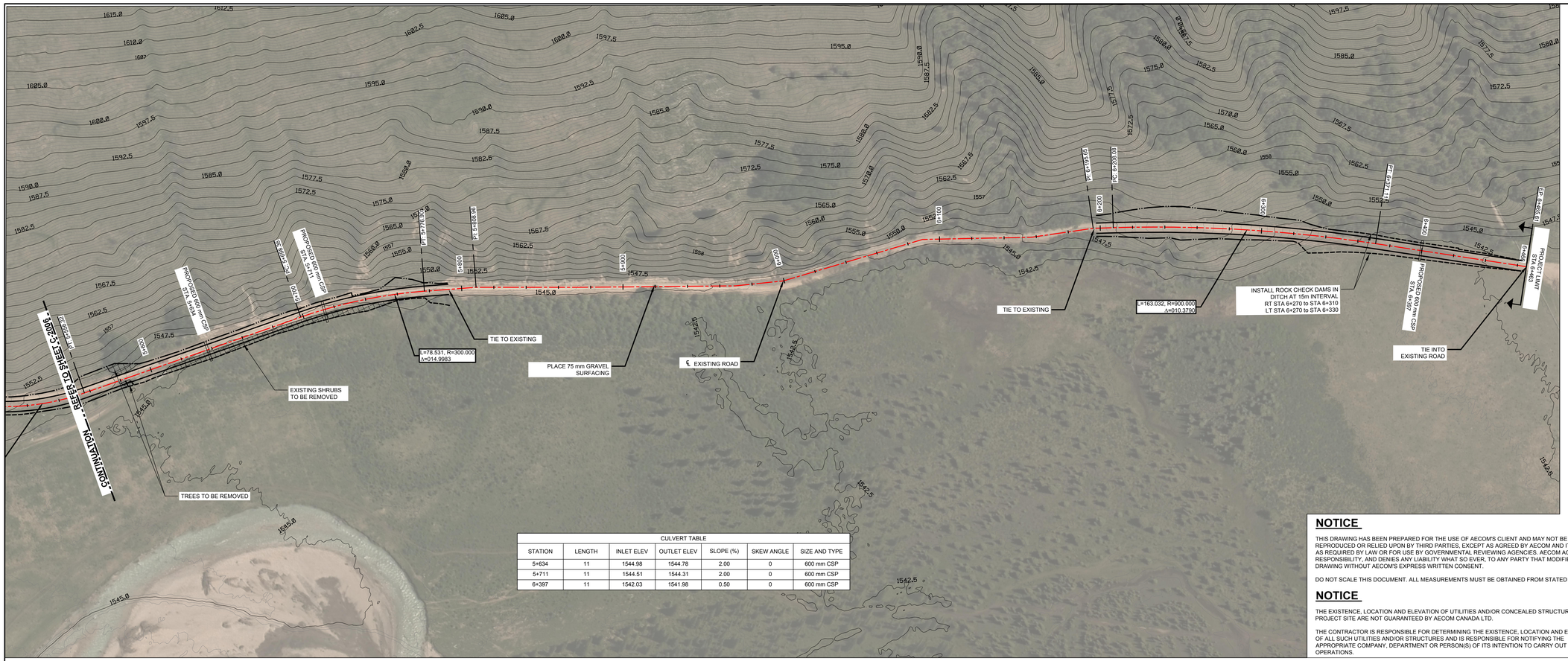
AD 1189 x 841



CULVERT TABLE						
STATION	LENGTH	INLET ELEV	OUTLET ELEV	SLOPE (%)	SKEW ANGLE	SIZE AND TYPE
5+634	11	1544.98	1544.78	2.00	0	600 mm CSP
5+711	11	1544.51	1544.31	2.00	0	600 mm CSP
6+397	11	1542.03	1541.98	0.50	0	600 mm CSP

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KEY MAP

LEGEND

- PROPOSED CULVERT
- PROPOSED ROAD
- PROPOSED EDGE OF GRAVEL
- PROPOSED DAYLIGHT (CUT SECTION)
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- PROPOSED WOOD FENCE
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GENERAL NOTE

1. ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE
2. SIGN SYMBOL AND DESIGNATION INDICATES INSTALLATION OF NEW SIGN

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Date June 14, 2017
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The Association of Professional Engineers and Geoscientists of Alberta

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
7	2017-05-29	ISSUED FOR TENDER	CW	KG
6	17-04-04	ISSUED FOR 95% REVIEW	CW	KG
5	17-01-09	REISSUED FOR TENDER	CW	KG
4	16-12-05	ISSUED FOR TENDER	DM	KG
3	16-10-21	REISSUED FOR TENDER REVIEW	LL	KG

Revision / Revision

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

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

Eng. Stamp / Sceau de l'ingénieur

Canada

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

Project title/Titre du projet

BANFF NATIONAL PARK YA HA TINDA RANCH ROAD REHABILITATION HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin

PLAN AND PROFILE STA 5+550 TO STA 6+500

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
MR	RL	H=1:1000 V=1:100

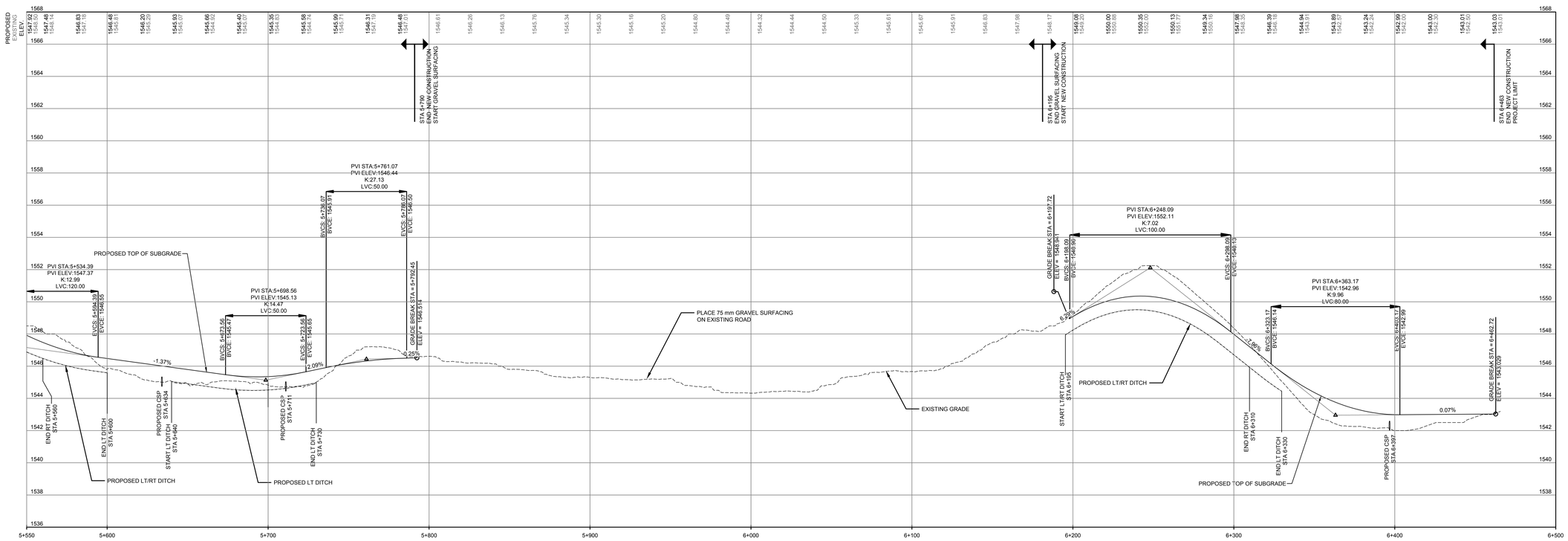
PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

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

Park Responsible Officer/Agent Responsable | PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
F11-696		C-2007

Drawing Reference No./No. de référence du dessin



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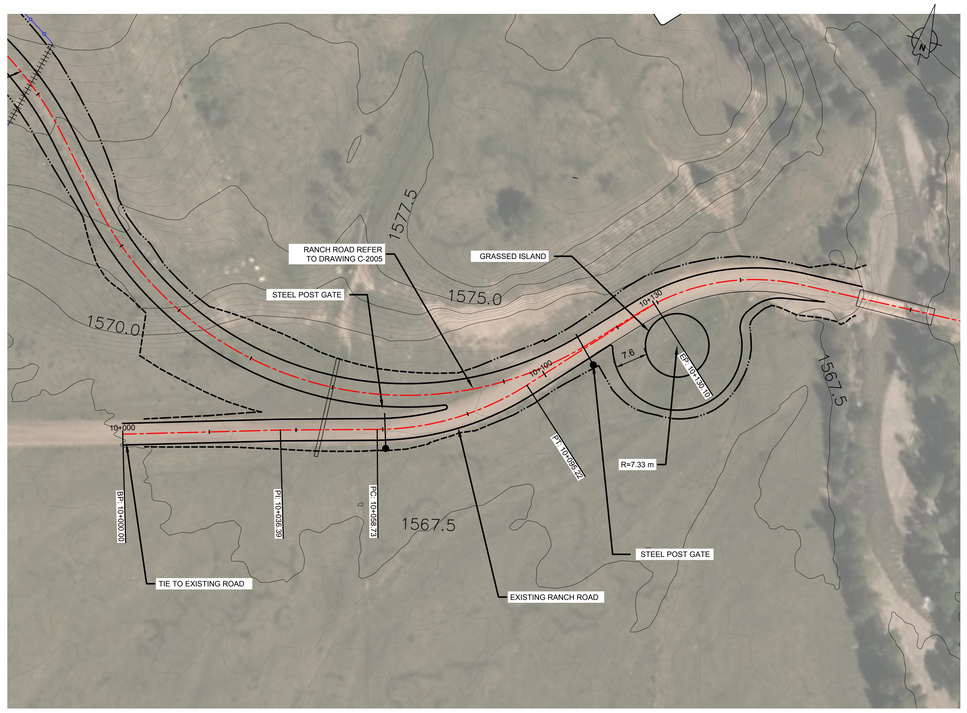

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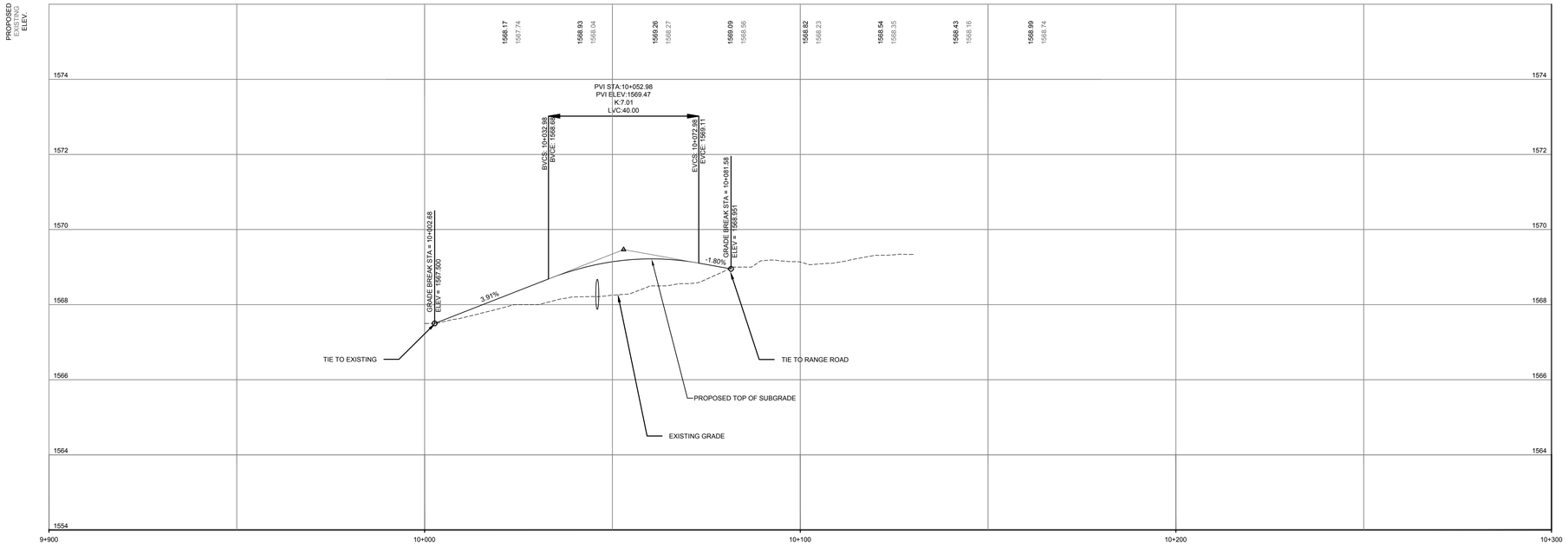

KEY MAP

LEGEND

- PROPOSED CULVERT
- ℄ PROPOSED ROAD
- PROPOSED EDGE OF GRAVEL
- PROPOSED DAYLIGHT (CUT SECTION)
- PROPOSED DAYLIGHT (FILL SECTION)
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GENERAL NOTE

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AECOM CANADA LTD.
Signature
Date June 19, 2017
PERMIT NUMBER: P 10450
The Association of Professional Engineers and Geoscientists of Alberta

No.	Date/Date	Description/Description	Drawn by/Dessiné par	Approved/Approuvé
5				
4	17-06-16	ISSUED FOR TENDER	CW	KG
3	17-05-29	ISSUED FOR TENDER	CW	KG
2	17-04-04	ISSUED FOR 95% REVIEW	CW	KG
1	17-02-09	ISSUED FOR 30% REVIEW	DM	KG

Revision / Revision

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

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

Eng. Stamp / Sceau de l'ingénieur: PROFESSIONAL ENGINEER ALBERTA — 18-J 75 - 24/7

Canada

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

Project title/Titre du projet

BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin

PLAN AND PROFILE
STA 10+000 TO STA 10+179

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Échelle**
MR	RL	H=1:500 V=1:50

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client — Park Responsible Officer/Agent Responsible

Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
F11-696		C-2008

Drawing Reference No./No. de référence du dessin

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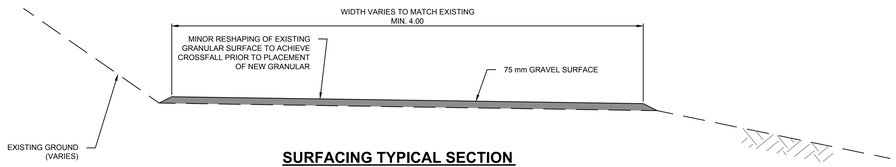
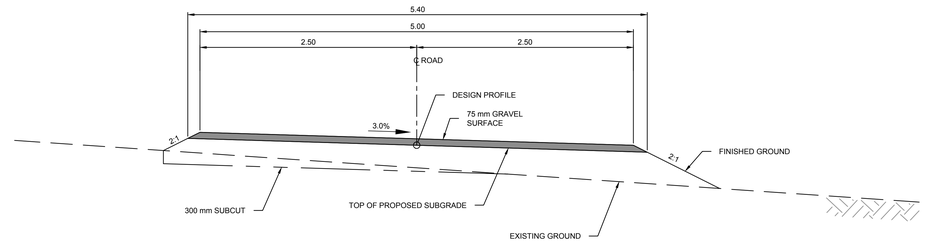
AD 1189 x 841



SURFACING TYPICAL SECTION

Scale 1:25

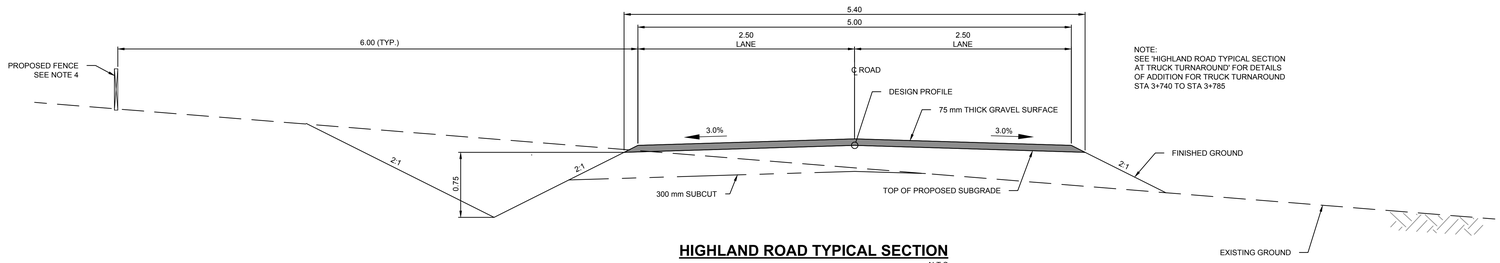
STA 0+323 TO STA 0+755
STA 3+825 TO STA 5+382
STA 5+790 TO STA 6+195



BARN ACCESS & EXISTING ROAD TYPICAL SECTION

Scale 1:25

STA 10+002 TO STA 10+090 (EXISTING ROAD)
BARN ACCESS ROAD

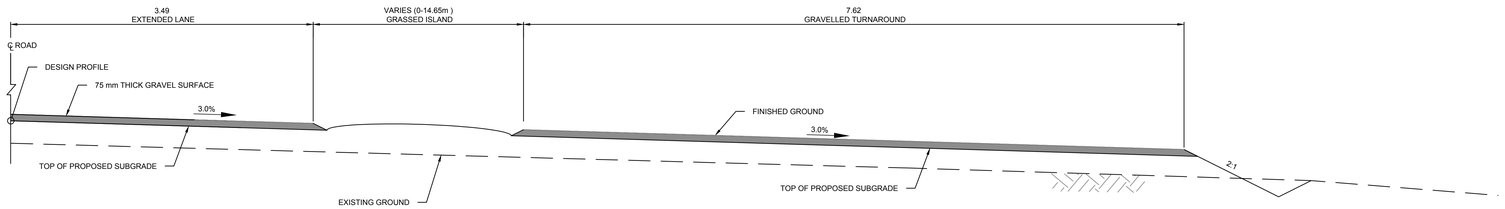


NOTE:
SEE 'HIGHLAND ROAD TYPICAL SECTION AT TRUCK TURNAROUND' FOR DETAILS OF ADDITION FOR TRUCK TURNAROUND STA 3+740 TO STA 3+785

HIGHLAND ROAD TYPICAL SECTION

N.T.S

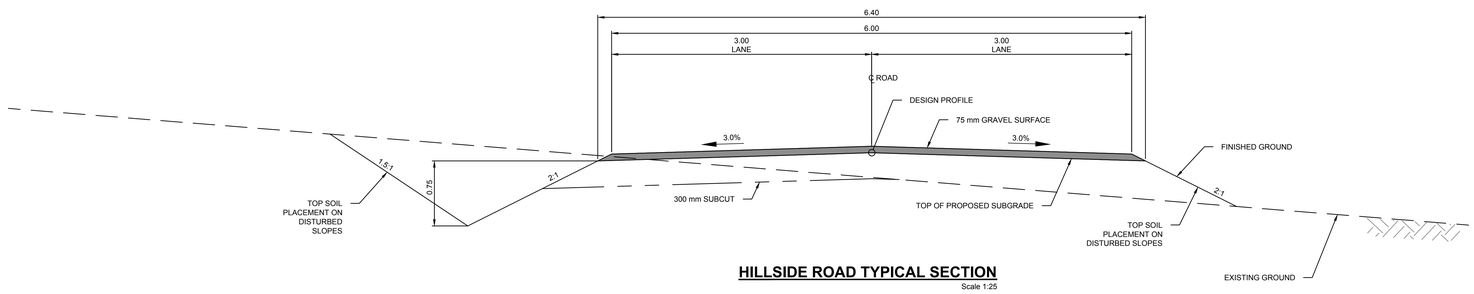
STA 0+755 TO STA 3+807



HIGHLAND ROAD TYPICAL SECTION AT TRUCK TURNAROUND

N.T.S

STA 3+740 TO STA 3+785



HILLSIDE ROAD TYPICAL SECTION

Scale 1:25

STA 5+382 TO STA 5+790
STA 6+195 TO STA 6+463

GENERAL NOTE

1. ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE.
2. TYPICAL SECTION AND DETAILS ARE NOT TO SCALE.
3. SUBCUT SHOWN IS TYPICAL OF CUT SECTIONS. SUBCUT TO BE APPLIED AS NOTED IN THE SPECIFICATIONS.
4. PROPOSED FENCE SHOWN FOR REFERENCE ONLY. EXTENT OF FENCE INSTALLED TO BE AS SHOWN ON PLAN DRAWINGS AND LOCATION AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.

NOT FOR CONSTRUCTION

PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature
Date June 19, 2017
PERMIT NUMBER: P 10450
The Association of Professional Engineers and Geoscientists of Alberta

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
5				
4	17-06-16	ISSUED FOR TENDER	MR	KG
3	17-05-29	ISSUED FOR TENDER	CW	KG
2	17-04-04	ISSUED FOR 95% REVIEW	CW	KG
1	17-02-09	ISSUED FOR 30% REVIEW	DM	KG

Revision / Revision

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

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

Eng. Stamp / Sceau de l'ingénieur

Canada

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

Project title/Titre du projet
BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin
TYPICAL SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Echelle**
MR	RL	AS SHOWN

PCA Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client — Park Responsible Officer/Agent Responsable

Approved by/Approuvé par — PWGSC Project Manager/Administrateur de Projets TPSGC

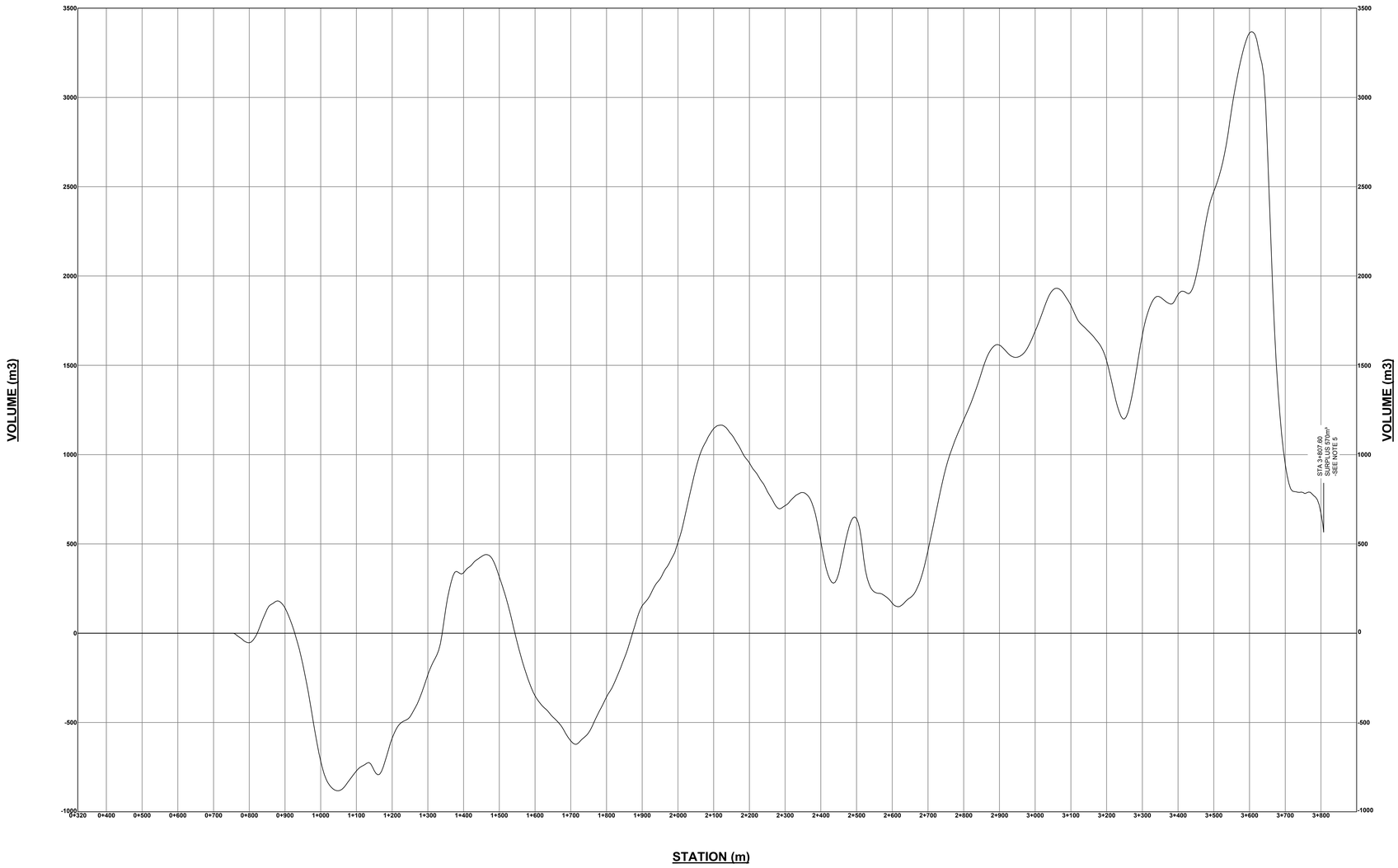
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
F11-696		C-3001

Drawing Reference No./No. de référence du dessin

Last saved by: IVANGC2017-06-16 Last Plotted: 2017-06-16
Filename: P:\60439580\Workspace\CAD\Sheets\Drawings\BR1\60439580-BR1-00-0000-C-TYPICAL DETAILS.DWG

AD 1189 x 841

PROPOSED MASS HAUL DIAGRAM - COMMON EXCAVATION



GENERAL NOTE

1. THIS DIAGRAM IS FOR INFORMATION AND GUIDANCE ONLY.
2. ACTUAL QUANTITIES AND HAUL DISTANCES ARE SUBJECT TO VARY
3. FILL FACTOR 1.15
4. VOLUMES SHOWN DO NOT INCLUDE SUBCUT AND TRUCK TURNAROUND AREA
5. SURPLUS VOLUME TO BE USED FOR TRUCK TURNAROUND

NOT FOR CONSTRUCTION

PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature
Date June 19, 2017
PERMIT NUMBER: P 10450
The Association of Professional Engineers and Geoscientists of Alberta

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
5				
4				
3				
2	17-05-29	ISSUED FOR TENDER	CW	KG
1	17-04-04	ISSUED FOR 95% REVIEW	CW	KG

Revision / Revision

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

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

Eng. Stamp / Sceau de l'ingénieur: PROFESSIONAL ENGINEER ALBERTA, JUN 19 2017

Canada

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

Project title/Titre du projet
BANFF NATIONAL PARK
YA HA TINDA RANCH
ROAD REHABILITATION
HILLSIDE & HIGHLAND ROADWORKS

Drawing title/Titre du dessin
MASS HAUL DIAGRAM

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
AECOM	CW	2015-08-20
Designed by/Concept par	**Reviewed by/Revisé par**	**Scale/Échelle**
MR	RL	N.T.S.

PWGSC Project Manager/Administrateur de Projets: J. KUMMERFIELD

Client Acceptance/Acceptation du client: Park Responsible Officer/Agent Responsable

Approved by/Approuvé par: PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet: F11-696

Asset No./No. du-bien

Sheet No./No. de la feuille: C-4001

Drawing Reference No./No. de référence du dessin

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AD 1189 x 841