



BRAGG CREEK FLOOD MITIGATION

DRAWING LIST	
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C-2004	EAST BARRIER CROSS SECTIONS, SHEET 4 OF 8
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C-2008	EAST BARRIER CROSS SECTIONS, SHEET 8 OF 8
C-2009	WEST BARRIER SOUTH CROSS SECTIONS, SHEET 1 OF 2
C-2010	WEST BARRIER SOUTH CROSS SECTIONS, SHEET 2 OF 2
C-2011	ECHLIN DRIVE CROSS SECTIONS, SHEET 1 OF 1
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C-2013	YOHO TINDA BARRIER CROSS SECTIONS, SHEET 1 OF 1
C-2014	BRAGG CREEK MODIFICATION CROSS SECTIONS, SHEET 1 OF 1



PROJECT LOCATION
Not to Scale

ISSUED FOR ENGINEERING REPORT - NAMES REMOVED

ISSUE DATE: 2017-07-05



**The design as shown is currently undergoing regulatory review and approval and is therefore subject to change.

Set No.: _____

PROJECT NUMBER	DRAWING NUMBER	ISSUE/REVISION
CT160213	C-0001	A

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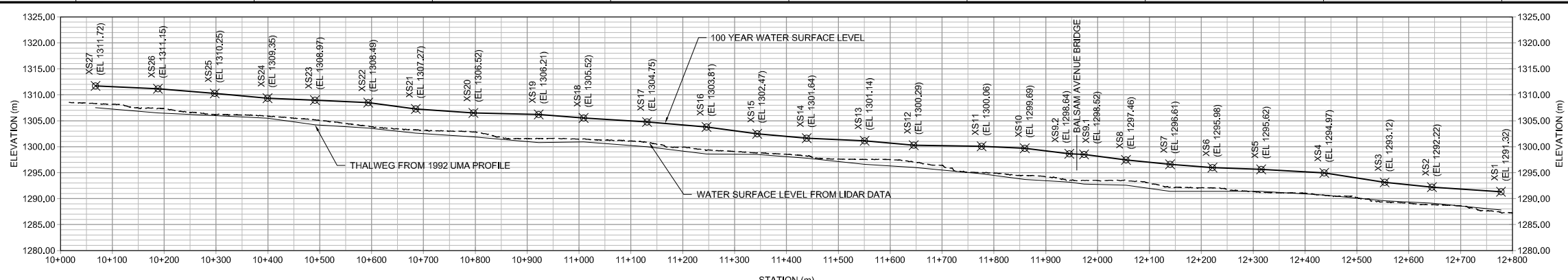
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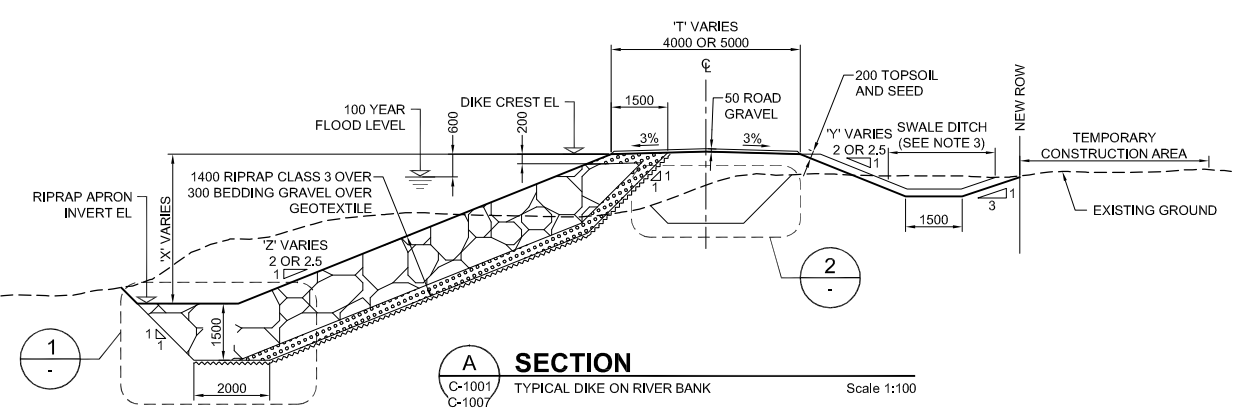
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PROFILE - ELBOW RIVER THALWEG

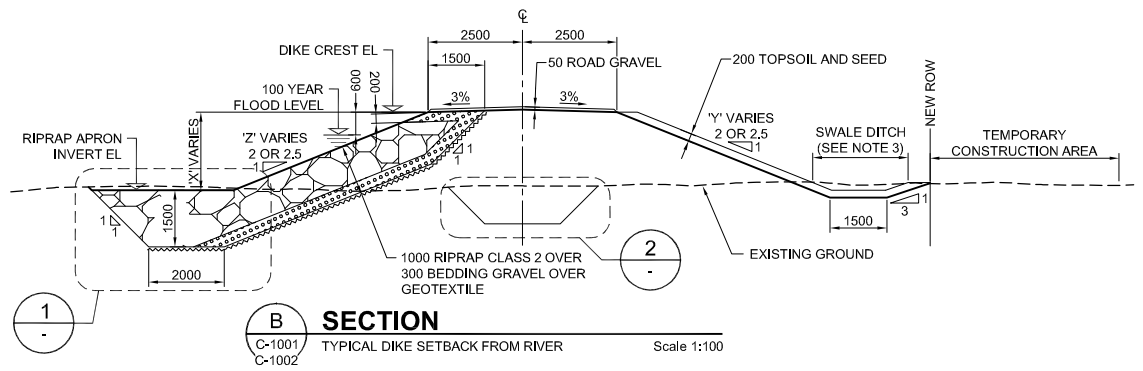
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SECTION A

C-1001
C-1007
TYPICAL DIKE ON RIVER BANK

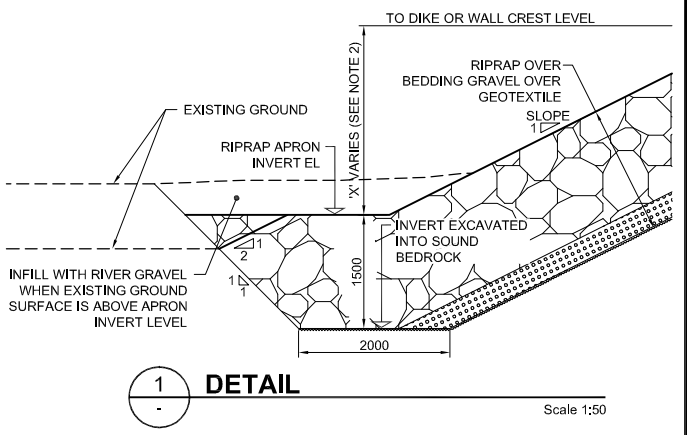
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SECTION B

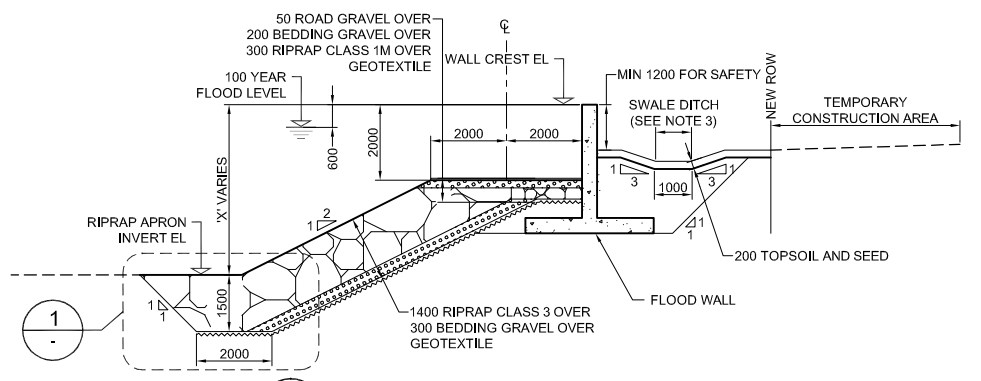
C-1001
C-1002
C-1003
C-1005
C-1007
TYPICAL DIKE SETBACK FROM RIVER

Scale 1:100



DETAIL 1

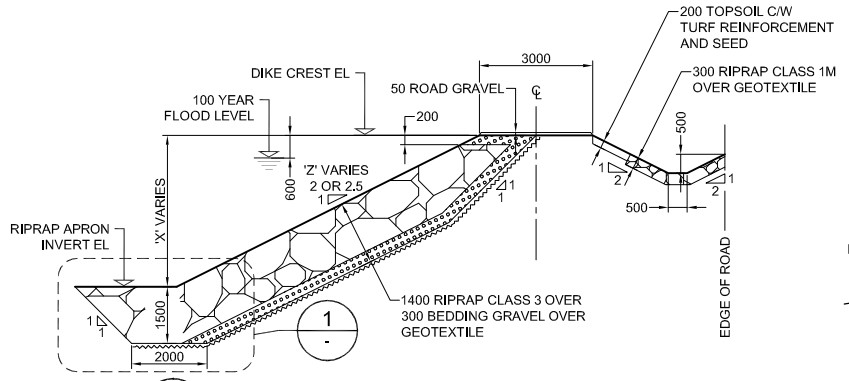
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SECTION C

C-1002
C-1003
C-1004
C-1006
TYPICAL DIKE WITH CONCRETE RETAINING WALL

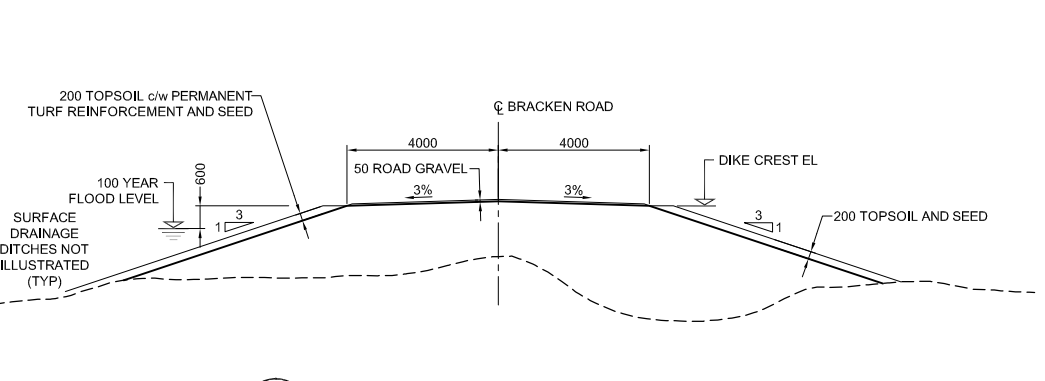
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SECTION D

C-1001
TYPICAL DIKE ON RIVER BANK ALONG HIGHWAY #758

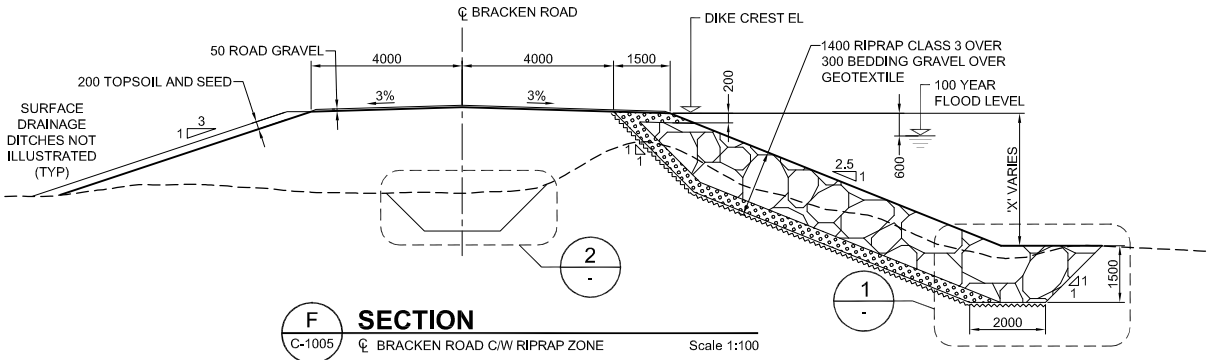
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SECTION E

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BRACKEN ROAD NO RIPRAP ZONE

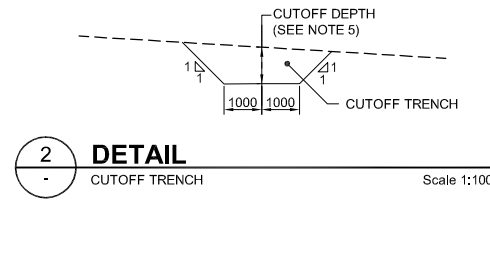
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SECTION F

C-1005
BRACKEN ROAD C/W RIPRAP ZONE

Scale 1:100

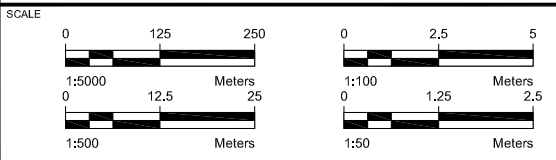


DETAIL 2

CUTOFF TRENCH

Scale 1:100

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - THE MEDIAN HEIGHT DIMENSION 'X' IS AN ESTIMATE. THE ACTUAL VALUE WILL BE DETERMINED DEPENDENT ON CONDITIONS ENCOUNTERED DURING CONSTRUCTION. THE INTENTION IS TO EXCAVATE THE ROCK RIPRAP FOUNDATION INTO SOLID BEDROCK AS DETERMINED BY THE ENGINEER IN THE FIELD.
 - DITCH DEPTH AND WIDTH VARIES AND NOT ALWAYS REQUIRED. MINIMUM 4000 RIGHT-OF-WAY WIDTH BEYOND DIKE BACKSLOPE TOE / CONCRETE WALL EDGE; UNLESS ESTABLISHED OTHERWISE.
 - STRIPPING NOT ILLUSTRATED. STRIP CONSTRUCTION FOUNDATION AND ACCESS AREAS.
 - PROVIDE NOMINAL 1000 DEEP CUTOFF OR AS OTHERWISE ESTABLISHED BY ENGINEER IN THE FIELD; BUT NOT INTO EXISTING GROUNDWATER TABLE OR ONTO BEDROCK SURFACE. STOP A MINIMUM 300 ABOVE BEDROCK SURFACE.



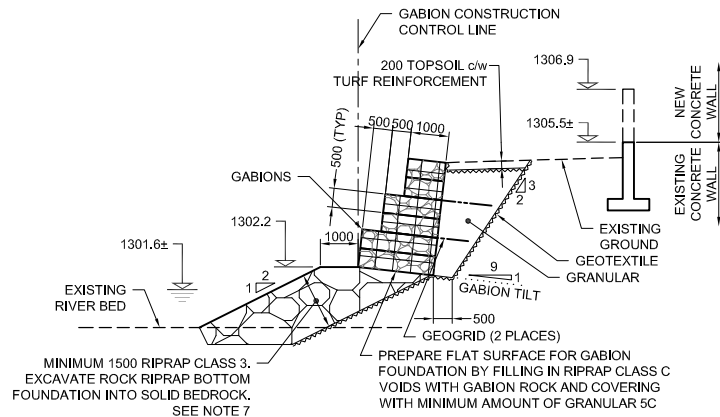
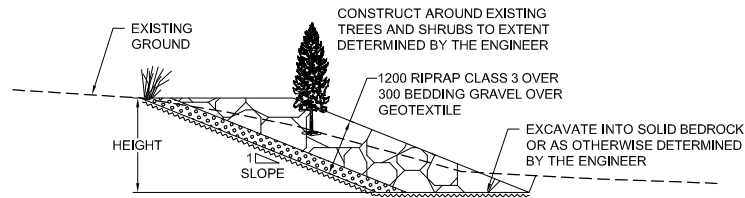
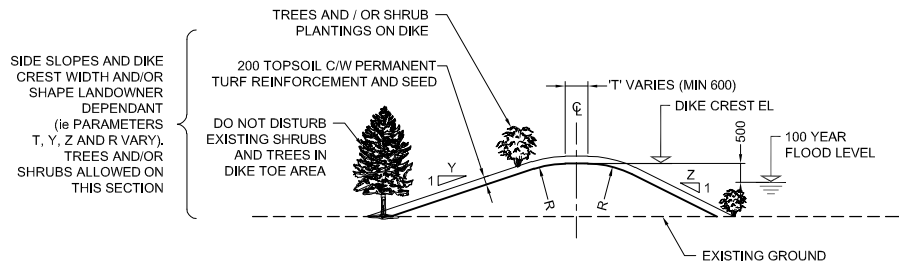
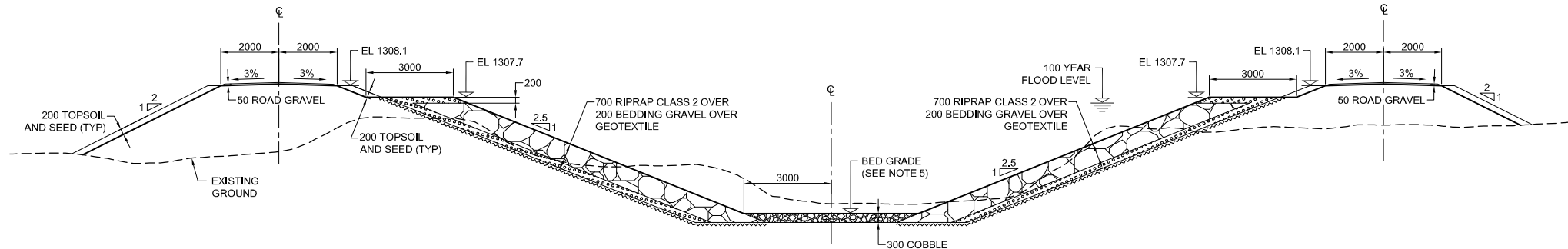
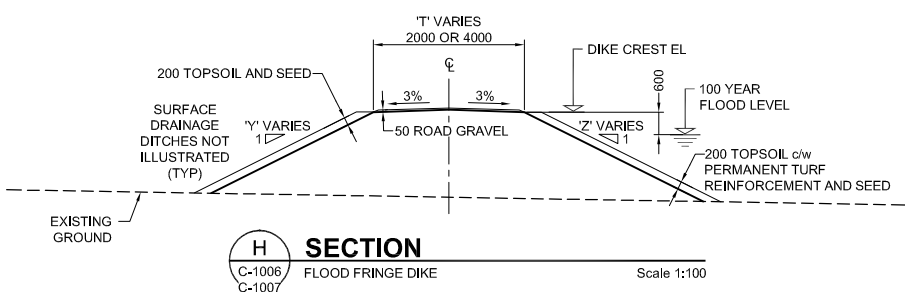
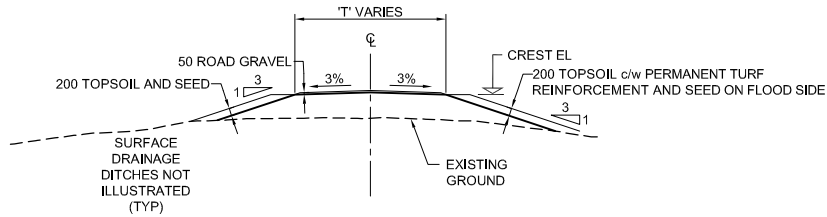
PERMIT TO PRACTICE NUMBER: P-04546



PROJECT NAME	BRAGG CREEK FLOOD MITIGATION	PROJECT NUMBER	CT160213
SHEET TITLE	RIVER THALWEG AND TYPICAL DIKE CROSS SECTIONS	DRAWING NUMBER	C-0004
	SHEET 1 of 2	ISSUE/REVISION	A

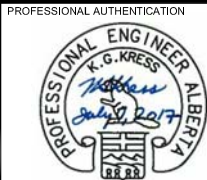
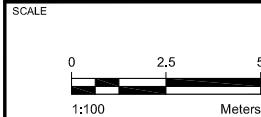
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I/R	YY	MM	DD	ISSUE/REVISION DESCRIPTION	DRN	CHK	DES	RWV	

ANSI D 864mm x 559mm
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- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - THE MEDIAN HEIGHT DIMENSION 'X' IS AN ESTIMATE. THE ACTUAL VALUE WILL BE DETERMINED DEPENDENT ON CONDITIONS ENCOUNTERED DURING CONSTRUCTION. THE INTENTION IS TO EXCAVATE THE ROCK RIPRAP FOUNDATION INTO SOLID BEDROCK AS DETERMINED BY THE ENGINEER IN THE FIELD.
 - DITCH DEPTH AND WIDTH VARIES AND NOT ALWAYS REQUIRED. MINIMUM 2000 RIGHT-OF-WAY WIDTH BEYOND DIKE BACKSLOPE TOE.
 - STRIPPING NOT ILLUSTRATED. STRIP TOPSOIL FROM CONSTRUCTION FOUNDATION AND ACCESS AREAS.
 - BRAGG CREEK BED ELEVATION 1303.7 m AT CENTERLINE BRACKEN ROAD CROSSING. GRADE AT 0.01 BOTH DIRECTIONS.
 - PLACE ROCKS TO FIT EXISTING SITE CONDITIONS. SLOPE NO STEEPER THAN 1.5H:1V AND NO FLATTER THAN 2.5H:1V.
 - ALTERNATIVELY PLACE GABIONS DIRECTLY ON BEDROCK WHERE SOLID BEDROCK EXISTS AND EXTENDS MINIMUM 1000 mm PROUD OF GABION BASKET FRONT EDGE, IN LIEU OF ROCK RIPRAP PLACEMENT; AS DETERMINED BY THE ENGINEER.

DIKE SECTION DETAIL SUMMARY TABLE 1								
Barrier Name	Station		Section Type	Parameter		Sideslope		Comment
	From	To		Median Height 'X' SEE NOTE 2	Top Width 'T'	Flood-side Sideslope 'Z'	Land-side Sideslope 'Y'	
	m	m		mm	mm	H:V	H:V	mm
East Barrier	40+010	40+070	A	4000	5000	2.5	2.5	
	40+070	40+250	D	4000	3000	2.5	2.0	
	40+250	40+480	D	4800	3000	2.5	2.0	
	40+480	40+660	A	4000	5000	2.5	2.0	
	40+660	40+750	B	2800	5000	2.5	2.5	
	40+750	41+044	B	3400	5000	2.5	2.5	
	41+044	41+290	C	4400	-	2.0	-	
	41+290	41+560	A	4200	5000	2.5	2.5	
	41+560	41+610	A	5600	5000	2.5	2.5	
	41+610	41+642	A	6000	5000 to 4000	2.5 to 2.0	2.5	
Balsam Avenue Bridge Centerline Station 41+654.00								
West Barrier-South	41+666	41+680	A	5900	4000	2.0	2.0	
	41+680	41+780	C	4400	-	2.0	-	
	41+780	42+060	C	4000	-	2.0	-	
	42+060	42+200	I	VARIES	1000	2.5	2.5	2600
	42+330	42+440	I	VARIES	1000	2.0	2.0	2600
West Barrier-North	49+970	50+100	E	VARIES	8000	3.0	3.0	
	50+100	50+510	F	3700	8000	2.5	3.0	
	50+510	50+560	F	2000	8000	2.5	3.0	
Yoho Tinda Barrier	20+050	20+180	I	VARIES	1000	2.5	2.5	2600
	20+180	20+240	C	5200	-	2.0	-	
	20+240	20+280	P	-	-	-	-	GABIONS
	20+280	20+352	C	5600	-	2.0	-	
	20+352	20+380	I	VARIES	1000	2.5	2.5	2600
Bragg Creek Dike	59+860	59+930	G	VARIES	4000	3.0	3.0	Top El 1308.2m
	59+930	60+000	J	VARIES	4000	2.5	2.0	see Section Notes
Bracken Road Bridge Centerline Station 60+000								



PERMIT TO PRACTICE NUMBER: P-04546

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I/R	YY	MM	DD	ISSUE/REVISION DESCRIPTION	DRN	CHK	DES	RWV

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PROJECT NAME
BRAGG CREEK FLOOD MITIGATION

SHEET TITLE
TYPICAL DIKE CROSS SECTIONS

SHEET 2 of 2

PROJECT NUMBER
CT160213

DRAWING NUMBER
C-0005

ISSUE/REVISION
A

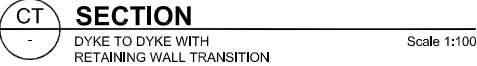
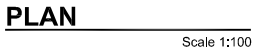


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JR	YY	MM	DD	ISSUE/REVISION DESCRIPTION								DRN	CHK	DES	RWN				



ROCKY VIEW COUNTY
Cultivating Communities

PROJECT NUMBER	CT160213
DRAWING NUMBER	C-0006
ISSUE/REVISION	A



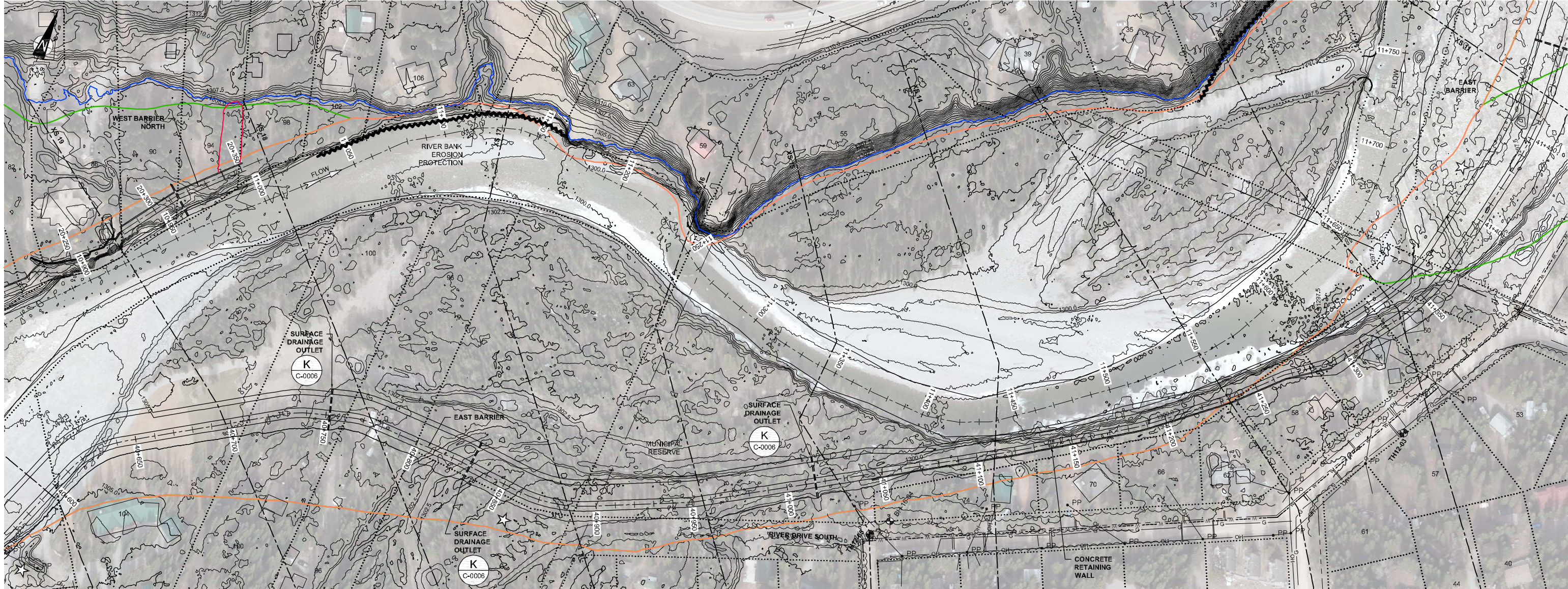
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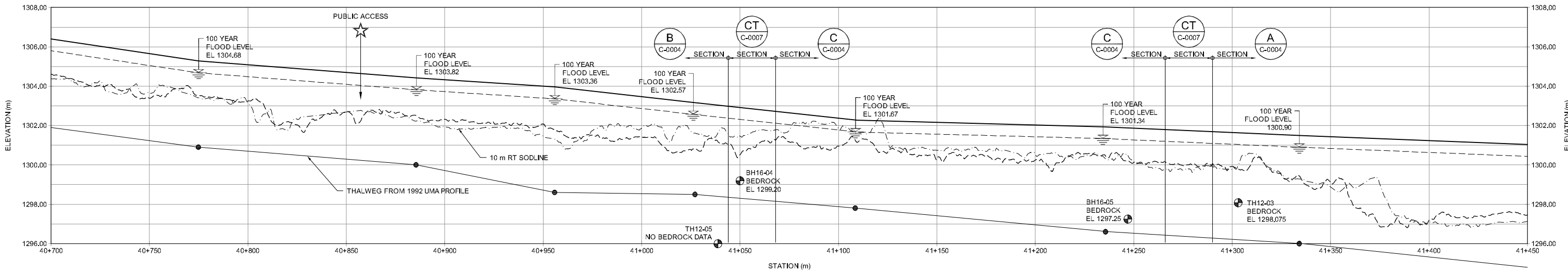


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BRAGG CREEK FLOOD MITIGATION	CT160213
SHEET TITLE	DRAWING NUMBER
DIKE TO DIKE WITH RETAINING WALL TRANSITION	C-0007
	ISSUE/REVISION
	A



PLAN

Scale 1:1000



PROFILE

Scale 1:1000 / 1:100

SCALE

0 25 50
1:1000 Meters

0 2.5 5
1:100 Meters

PROFESSIONAL AUTHENTICATION

PERMIT TO PRACTICE NUMBER: P-04546

A				B				C				D				E				F				G				H				I				J				K				L				M				N				O				P				Q				R				S				T				U				V				W				X				Y				Z			
IR	YY	MM	DD	ISSUE/REVISION DESCRIPTION	DRN	CHK	DES	RVV	SB	CL	KK	LH																																																																																											
				ISSUED FOR ENGINEERING REPORT - NAMES REMOVED																																																																																																			
				ISSUE/REVISION DESCRIPTION																																																																																																			

CLIENT

PROJECT NAME

BRAGG CREEK FLOOD MITIGATION

SHEET TITLE

EAST BARRIER PLAN AND PROFILE
SHEET 2 of 4

PROJECT NUMBER

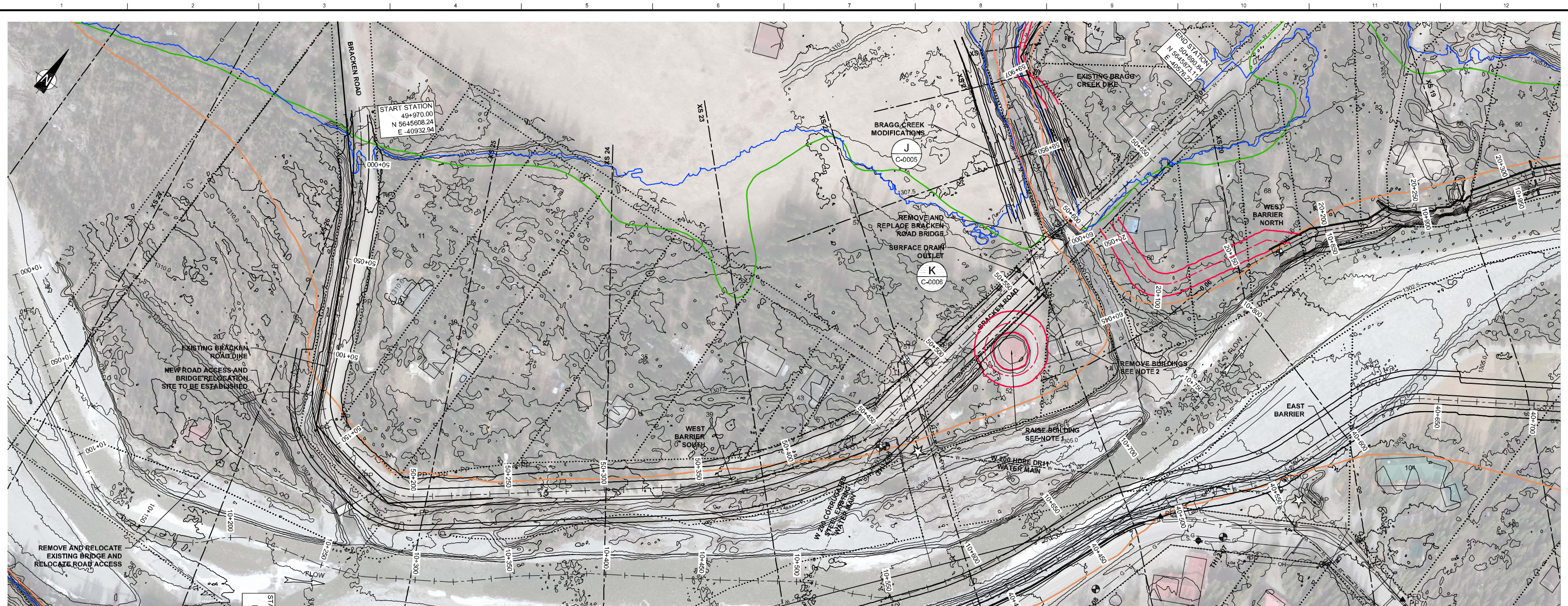
CT160213

DRAWING NUMBER

C-1002

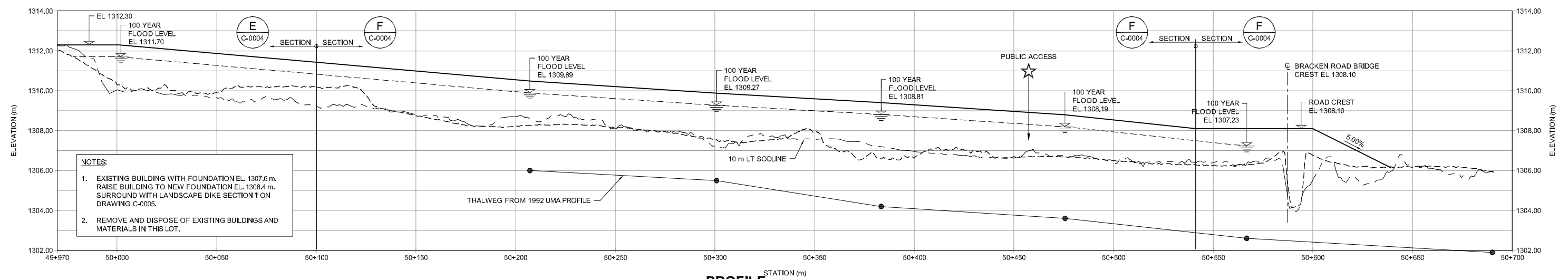
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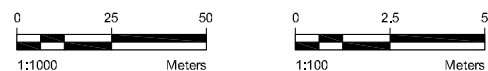
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Scale 1:1000



PROFILE^s

Scale 1:1000 / 1:100



PERMIT TO PRACTICE NUMBER: P-04546

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ROCKY VIEW COUNTY
Cultivating Communities

PROJECT NAME
BRAGG CREEK FLOOD MITIGATION

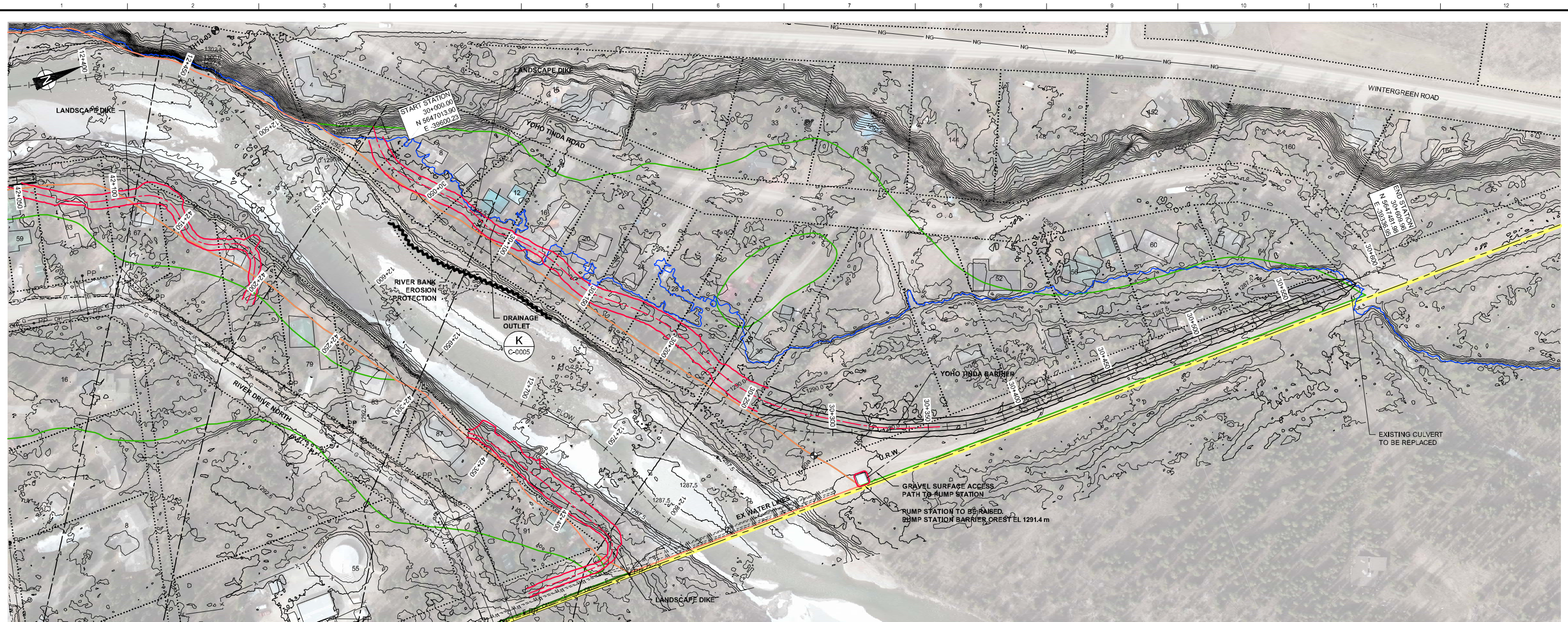
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WEST BARRIER SOUTH PLAN AND PROFILE	IS
SHEET 1 of 1	

PROJECT NUMBER	CT160213
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DRAWING NUMBER
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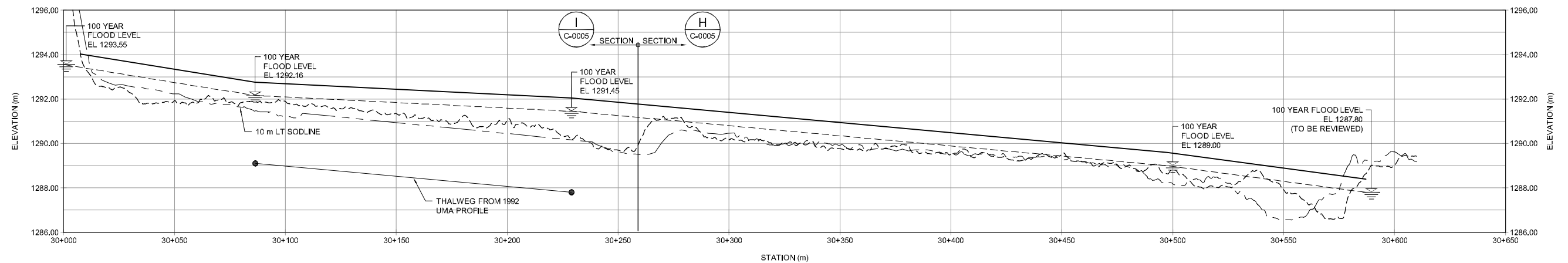
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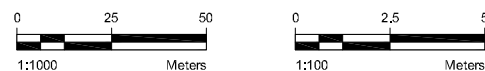
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PROFILE

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PERMIT TO PRACTICE NUMBER: P-04546

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I/R	YY	MM	DD	ISSUE / REVISION DESCRIPTION						DRN	CHK	DES	RWV	

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ROCKY VIEW COUNTY
Cultivating Communities

PROJECT NAME
BRAGG CREEK FLOOD MITIGATION

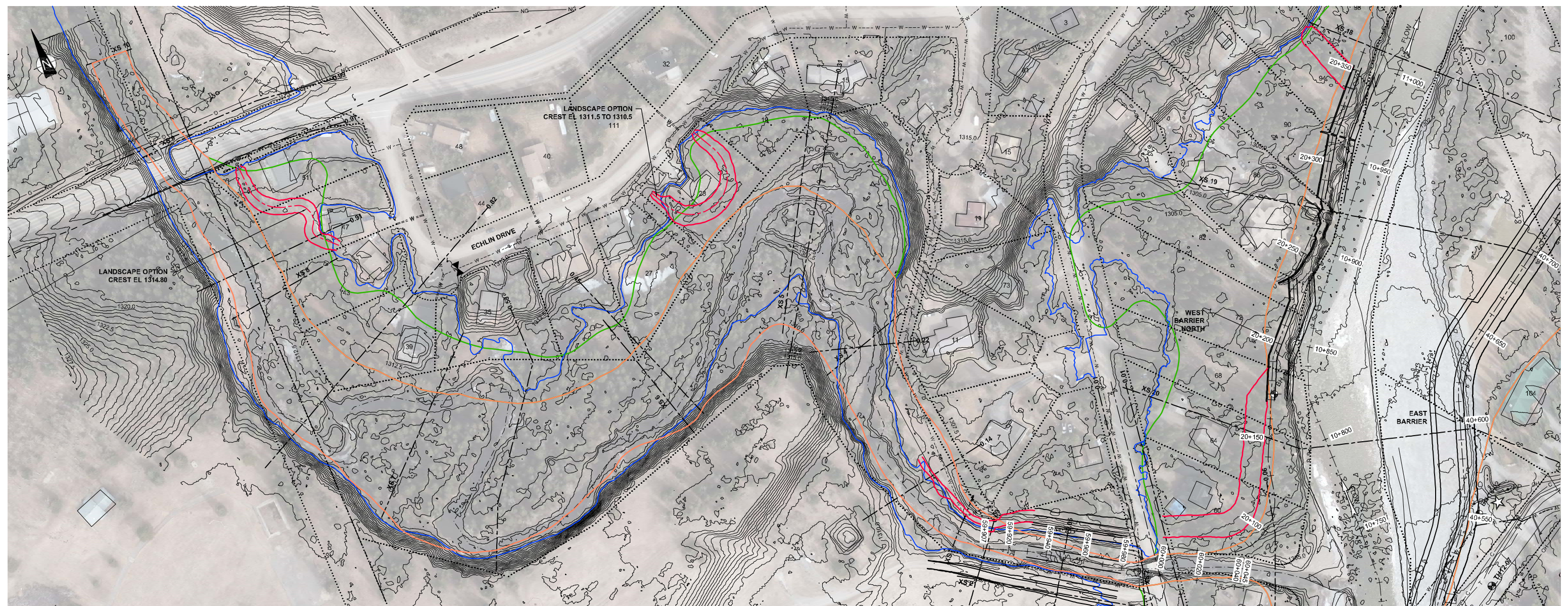
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10	YOHO TINDA BARRIER PLAN AND PROFILE SHEET 1 of 1	

PROJECT NUMBER

CT160213

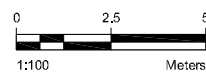
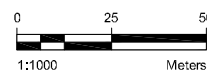
C-1007

ISSUE/REVISION



PLAN

Scale 1:1000



PERMIT TO PRACTICE NUMBER: P-04546

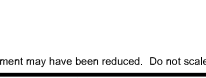
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I/R	YY	MM	DD	ISSUE/REVISION DESCRIPTION	DRN	CHK	DES	RWW

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PROJECT NAME	
BRAGG CREEK FLOOD MITIGATION	
SHEET TITLE	
BRAGG CREEK MODIFICATIONS PLAN AND PROFILE SHEET 1 of 1	

PROJECT NUMBER	CT160213
DRAWING NUMBER	C-1008
ISSUE/REVISION	A

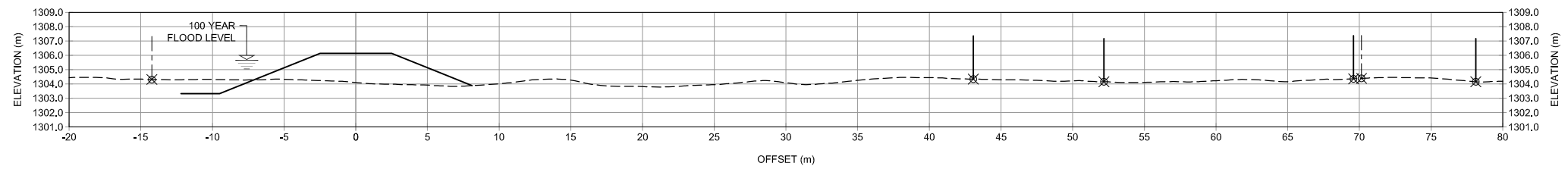


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	SHEET TITLE
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DRAWING NUMBER
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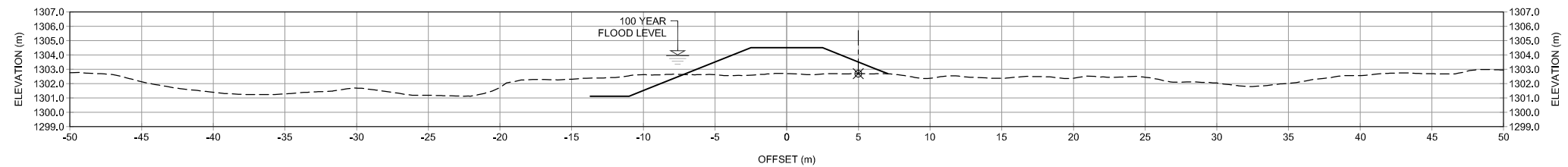


40+718.34

SECTION

WHITE AVE 96/100

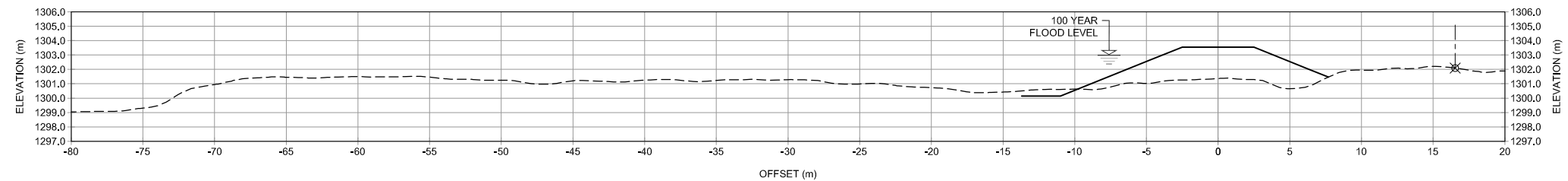
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40+873.18

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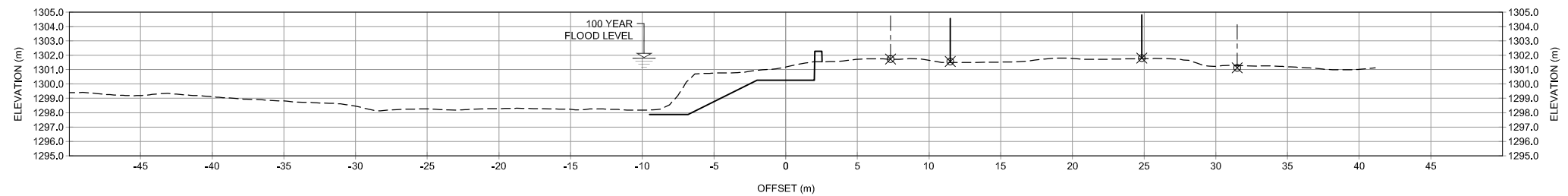
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$$40+992.74$$

SECTION

Scale 1:200

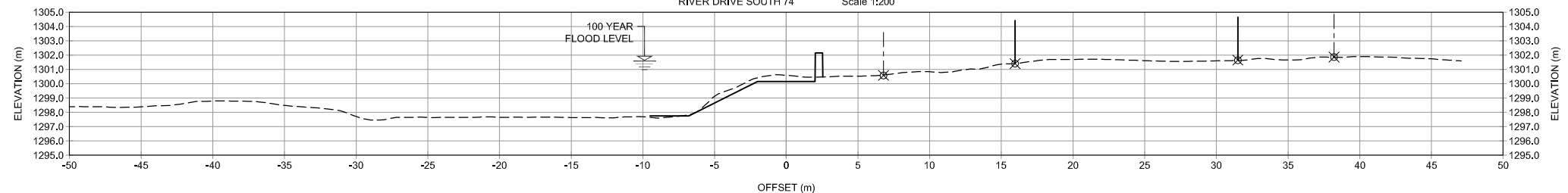


$$41+109.98$$

SECTION

RIVER DRIVE SOUTH 74

Scale 1:200



$$41+157.13$$

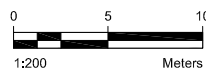
SECTION

RIVER DRIVE SOUTH 70

Scale 1:200

LEGEND:

LEGEND:
 - - - PROPERTY LINES
 ——— EDGE OF BUILDINGS



PROFESSIONAL AUTHENTICATION



PERMIT TO PRACTICE NUMBER: P-04546

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CLIENT	
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ROCKY VIEW COUNTY
Cultivating Communities

PROJECT NAME

BRAGG CREEK FLOOD MITIGATION

SHEET TITLE

EAST BARRIER CROSS SECTIONS
SHEET 3 of 8

PROJECT NUMBER

CT160213

DRAWING NUMBER

© 2003

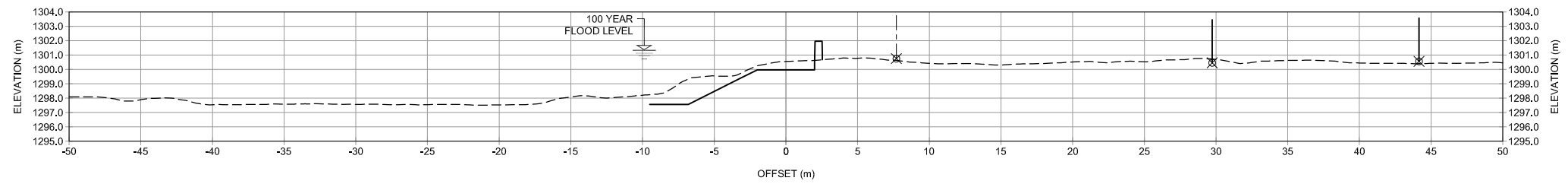
C-2003

E/REVISION

A

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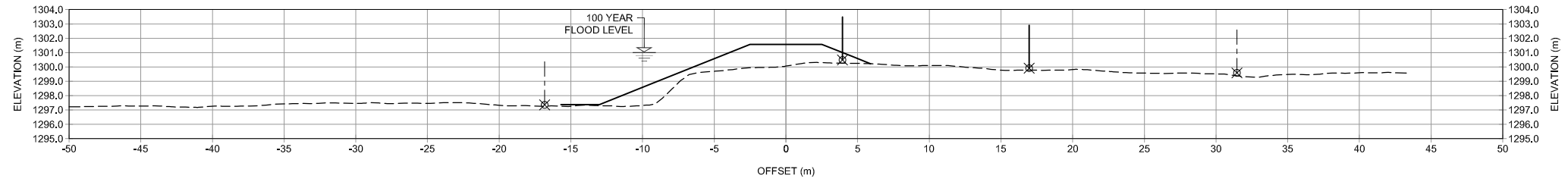
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41+223.76

SECTION

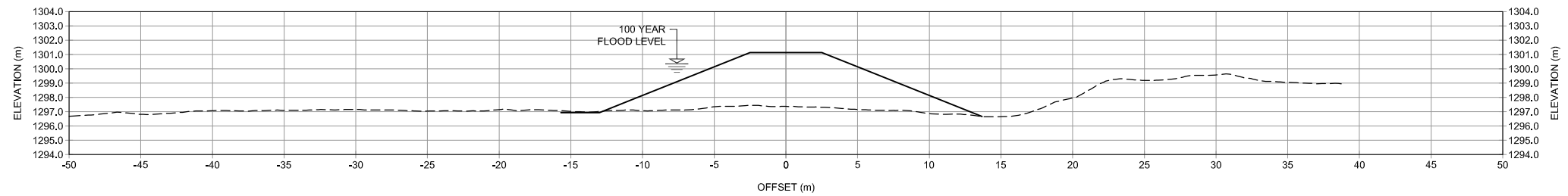
RIVER DRIVE SOUTH 62 Scale 1:200



$$41+316.35$$

SECTION

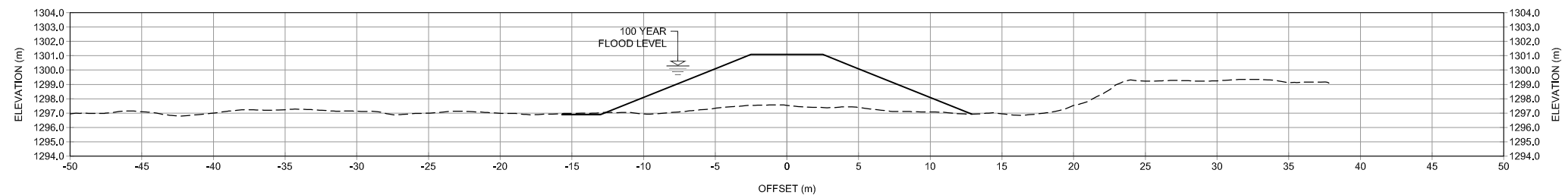
RIVER DRIVE SOUTH 54 Scale 1:200



41+424.80

SECTION

Scale 1:200

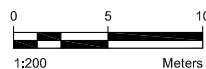


$$41+436.21$$

SECTION

Scale 1:200

LEGEND:
 - - - - - PROPERTY LINES
 _____ EDGE OF BUILDINGS



PERMIT TO PRACTICE NUMBER: P-04546

A	17	07	05	ISSUED FOR ENGINEERING REPORT - NAMES REMOVED						SB	CL	KK	LH
I/R	YY	MM	DD	ISSUE/REVISION DESCRIPTION						DRN	CHK	DES	RWV

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ROCKY VIEW COUNTY
Cultivating Communities

PROJECT NAME

BRAGG CREEK FLOOD MITIGATION

SHEET TITLE

EAST BARRIER CROSS SECTIONS
SHEET 4 of 8

PROJECT NUMBER

T160213

DRAWING NUMBER

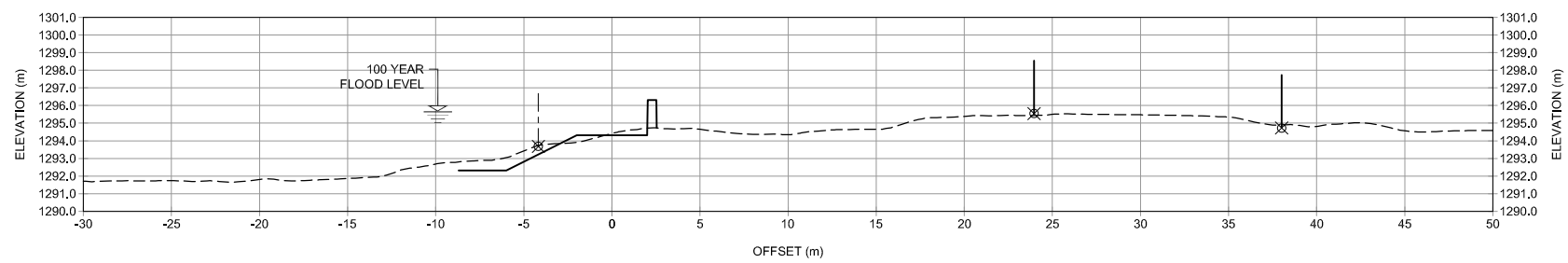
C-2004

ISSUE/REVISION

A

T

341

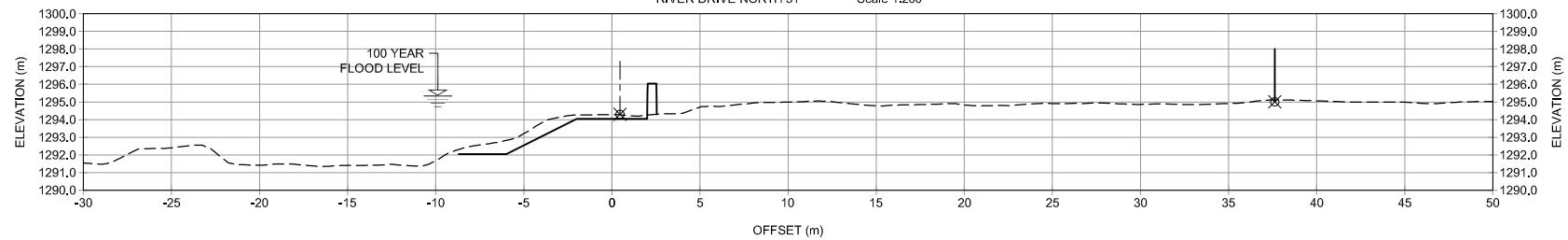


41+995.01

SECTION

RIVER DRIVE NORTH 51

Scale 1:200

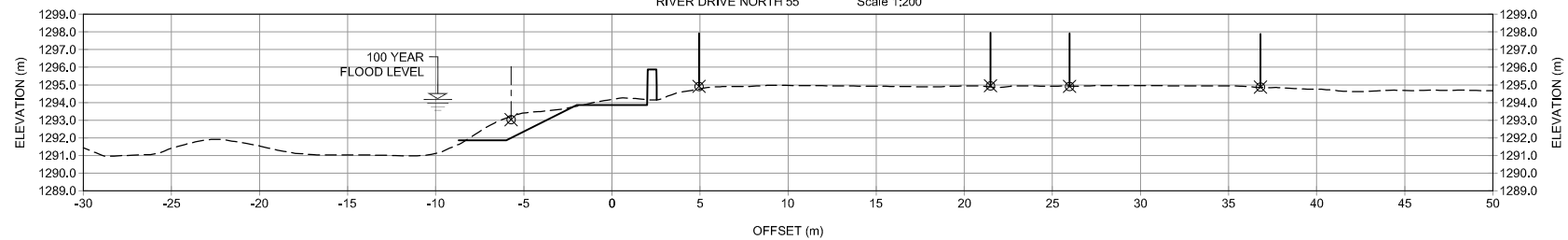


42+029.76

SECTION

RIVER DRIVE NORTH 55

Scale 1:200

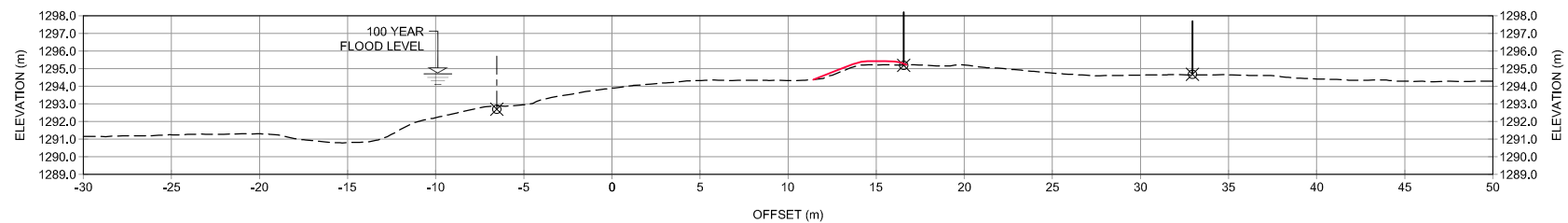


42+045.56

SECTION

RIVER DRIVE NORTH 59

Scale 1:200

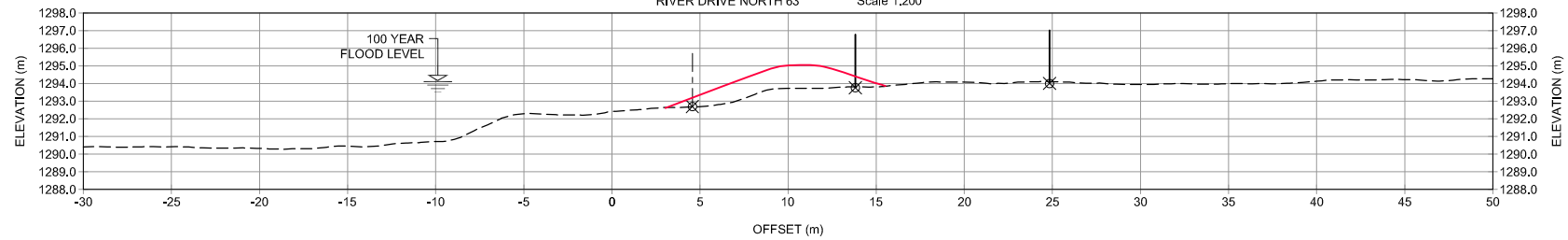


42+080.24

SECTION

RIVER DRIVE NORTH 63

Scale 1:200

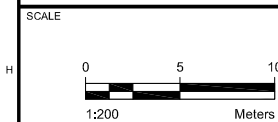


42+124.85

SECTION

RIVER DRIVE NORTH 67

Scale 1:200



PERMIT TO PRACTICE NUMBER: P-04546

[illegible]

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ROCKY VIEW COUNTY
Cultivating Communities

LEGEND:
 - - - PROPERTY LINES
 ——— EDGE OF BUILDINGS

PROJECT NAME

BRAGG CREEK FLOOD MITIGATION

SHEET TITLE

EAST BARRIER CROSS SECTIONS
SHEET 7 OF 8

PROJECT NUMBER	
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DRAWING NUMBER

ISSUE/REVISION	
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42+182.61

SECTION

RIVER DRIVE NORTH 75 Scale 1:200

 $42 + 235.25$

SECTION

RIVER DRIVE NORTH 79 Scale 1:200

42+277.22

SECTION

RIVER DRIVE NORTH 83 Scale 1:200

42+324.63

SECTION

RIVER DRIVE NORTH 87 Scale 1:200

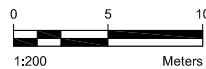
42+397.20

SECTION

RIVER DRIVE NORTH 91 Scale 1:200

LEGEND:
 - - - - - PROPERTY LINES
 _____ EDGE OF BUILDINGS

SCALE



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PERMIT TO PRACTICE NUMBER: P-04546

A	17	07	05	ISSUED FOR ENGINEERING REPORT - NAMES REMOVED						SB	CL	KK	LH
I/R	YY	MM	DD	ISSUE/REVISION DESCRIPTION						DRN	CHK	DES	R/W

CLIENT



PROJECT NAME	
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BRAGG CREEK FLOOD MITIGATION

SHEET TITLE

EAST BARRIER CROSS SECTIONS
SHEET 8 OF 8

PROJECT NUMBER

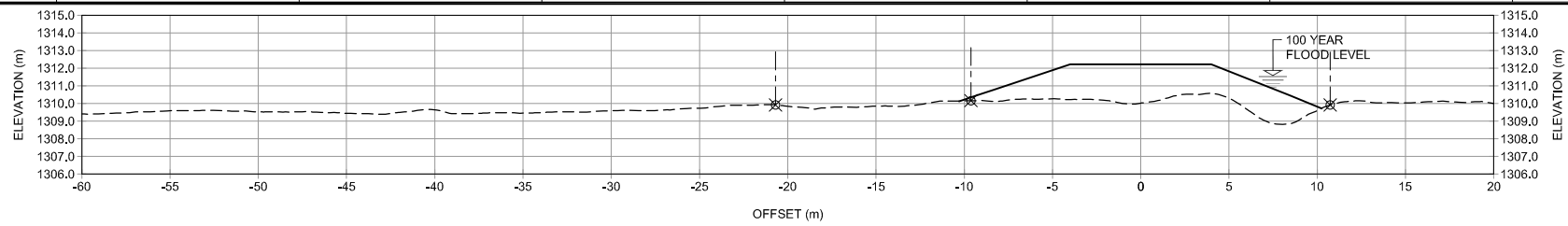
T160213

DRAWING NUMBER

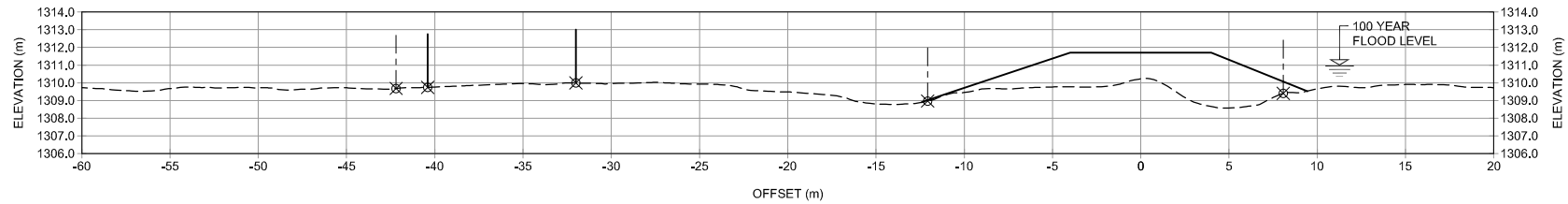
C-2008

ISSUE/REVISION

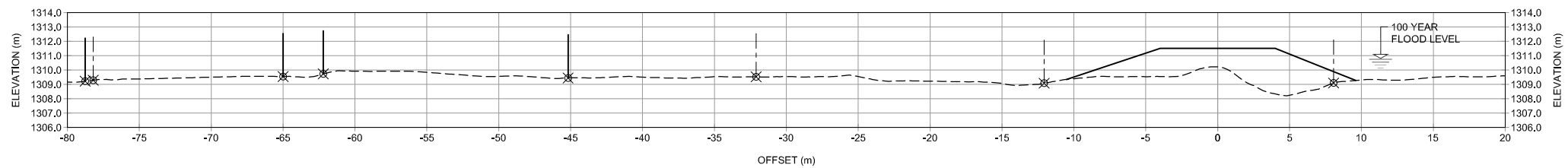
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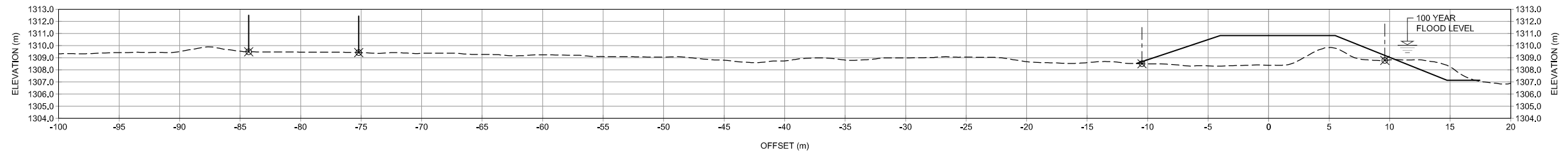
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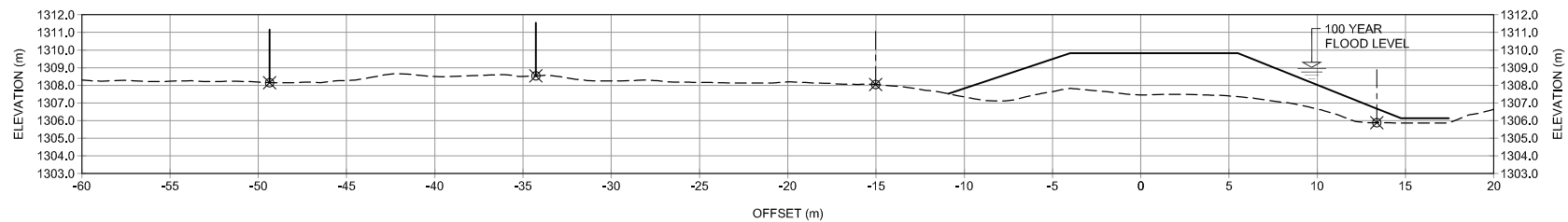
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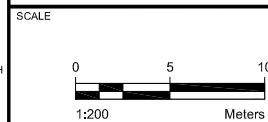
SECTION
BRACKEN ROAD 11/19/20 Scale 1:200



SECTION
BRACKEN ROAD 19/20 Scale 1:200



SECTION
BRACKEN ROAD 35 Scale 1:200



PERMIT TO PRACTICE NUMBER: P-04546

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I/R	YY	MM	DD	ISSUE/REVISION DESCRIPTION			DRN	CHK	DES	RWN

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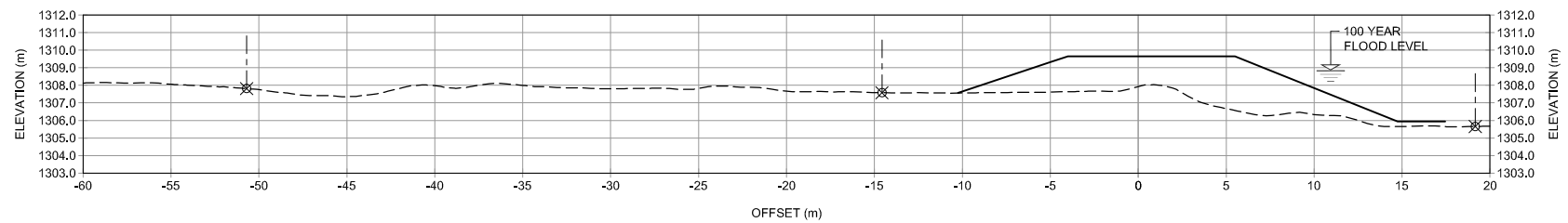
PROJECT NAME
BRAGG CREEK FLOOD MITIGATION

WEST BARRIER SOUTH CROSS SECTIONS
SHEET 1 OF 2

PROJECT NUMBER	CT160213
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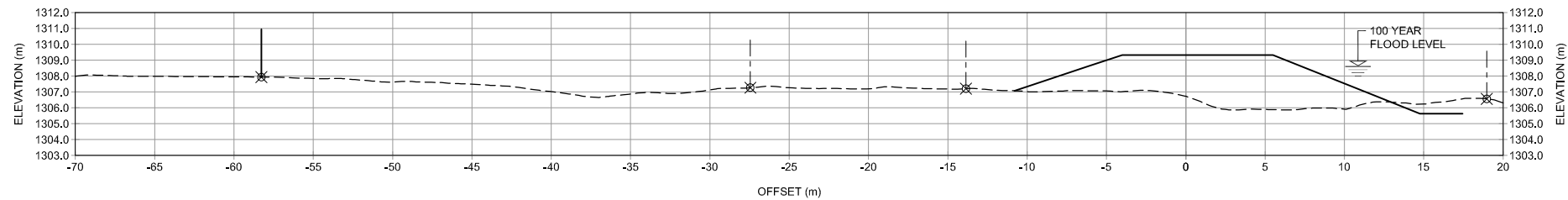
ISSUE/REVISION

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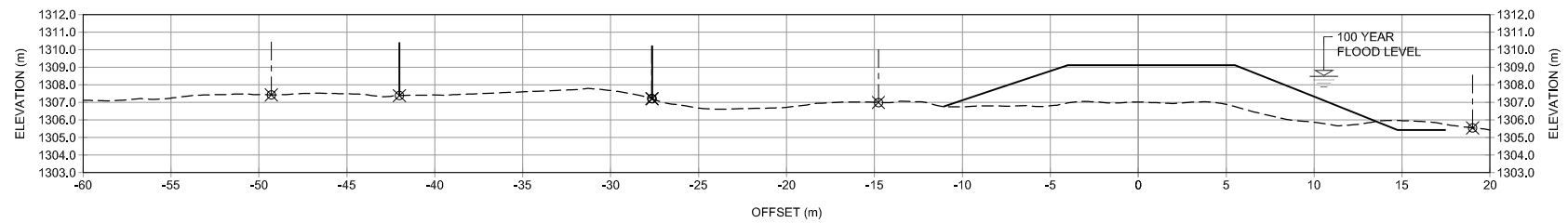
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BRACKEN ROAD 35/39 Scale 1:200



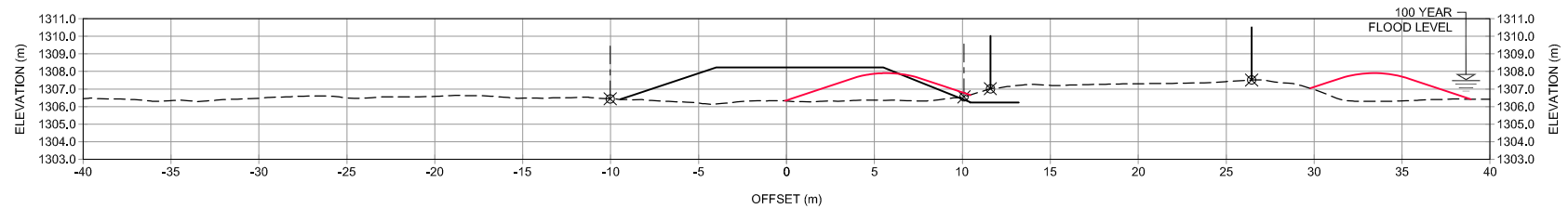
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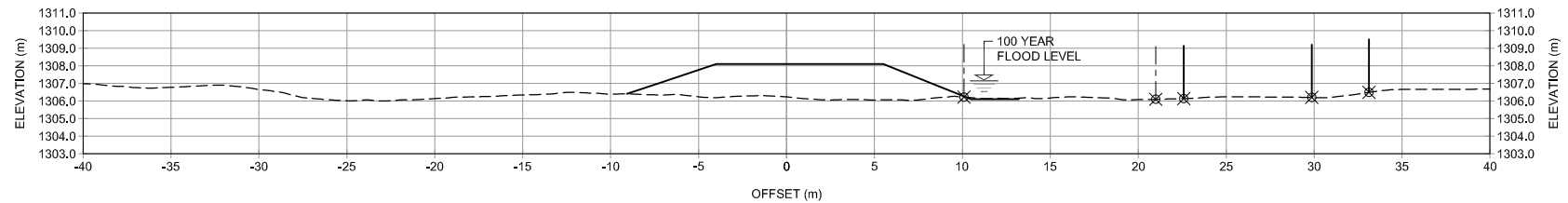


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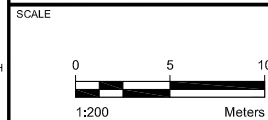


SECTION
BRACKEN ROAD 52 Scale 1:200



50+553.67
SECTION
BRACKEN ROAD 52/56 Scale 1:200

LEGEND:
 - - - PROPERTY LINES
 ——— EDGE OF BUILDINGS



PERMIT TO PRACTICE NUMBER: P-04546

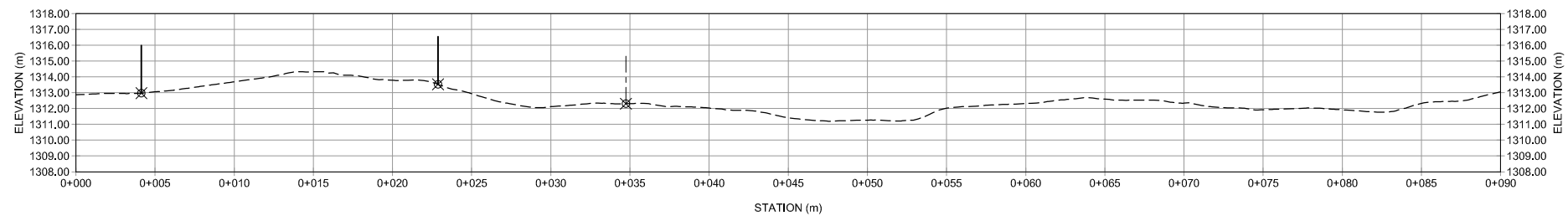
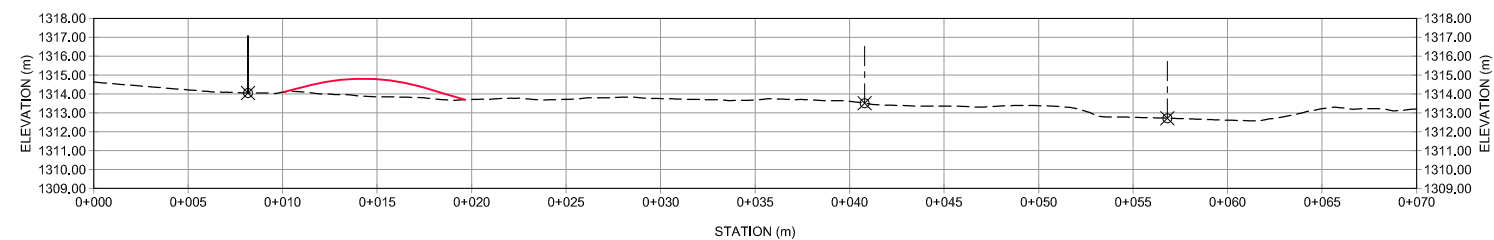
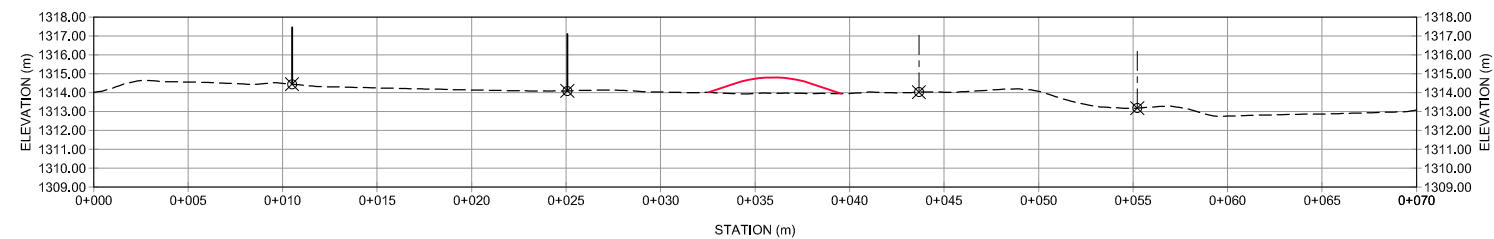
A	17	07	05	ISSUED FOR ENGINEERING REPORT - NAMES REMOVED						SB	CL	KK	LH
I/R	YY	MM	DD	ISSUE/REVISION DESCRIPTION						DRN	CHK	DES	RWV

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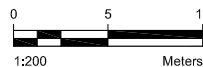


PROJECT NAME	BRAGG CREEK FLOOD MITIGATION
SHEET TITLE	WEST BARRIER SOUTH CROSS SECTIONS SHEET 2 OF 2

PROJECT NUMBER	CT160213
DRAWING NUMBER	C-2010
ISSUE/REVISION	A



LEGEND:
 - - - - - PROPERTY LINES
 _____ EDGE OF BUILDINGS



A	17	07	05	ISSUED FOR ENGINEERING REPORT - NAMES REMOVED						SB	CL	KK	LH
I/R	YY	MM	DD	ISSUE/REVISION DESCRIPTION						DRN	CHK	DES	RWV



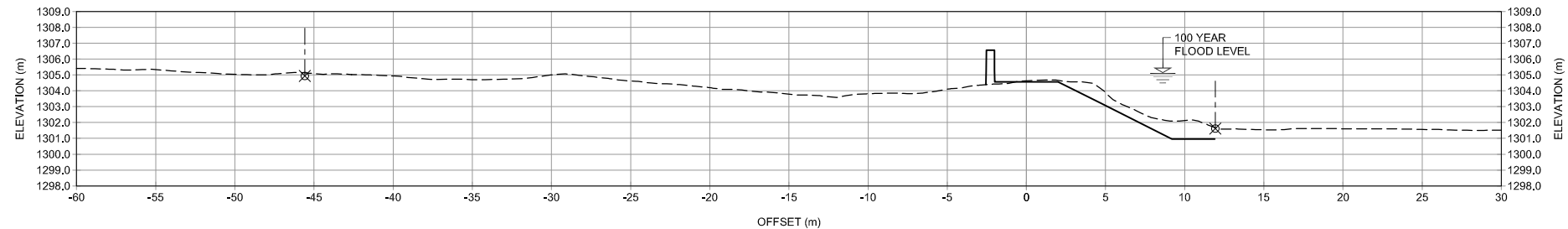
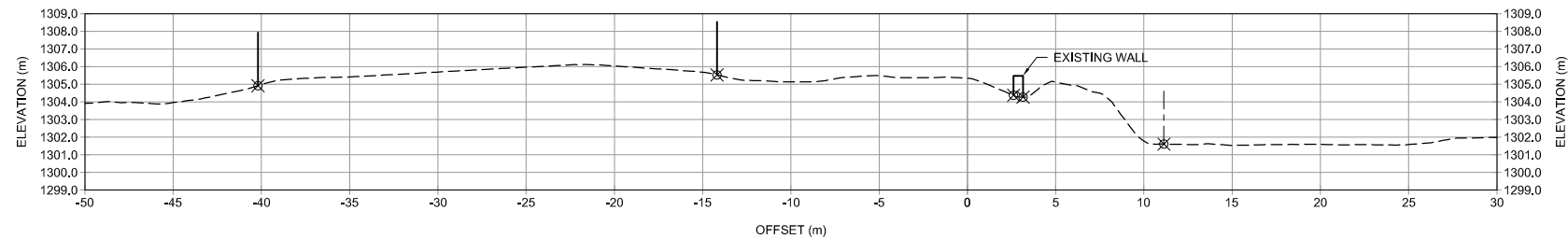
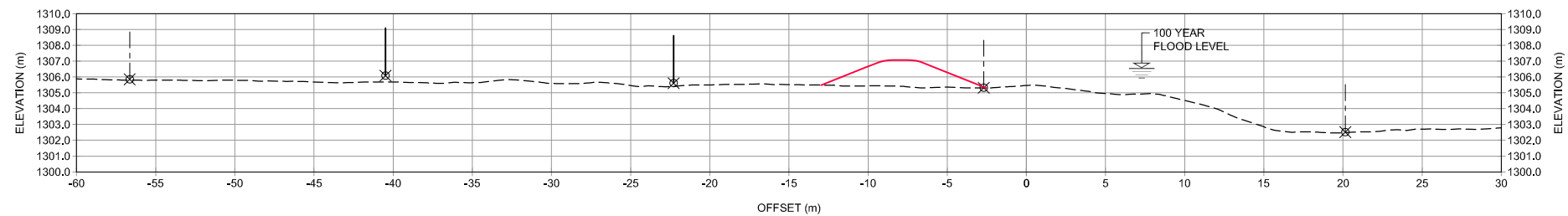
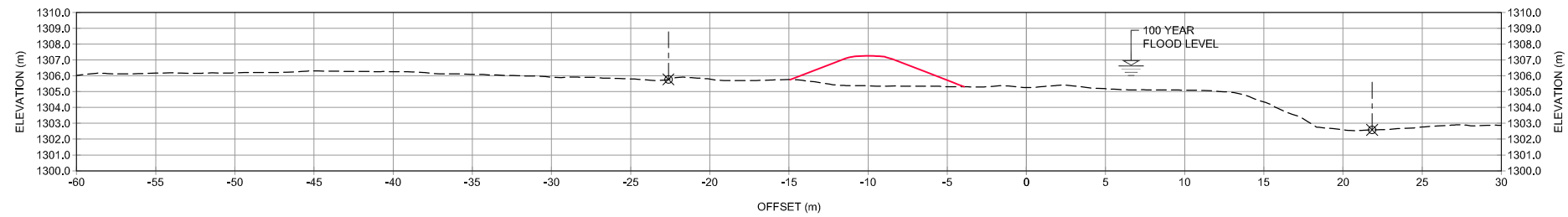
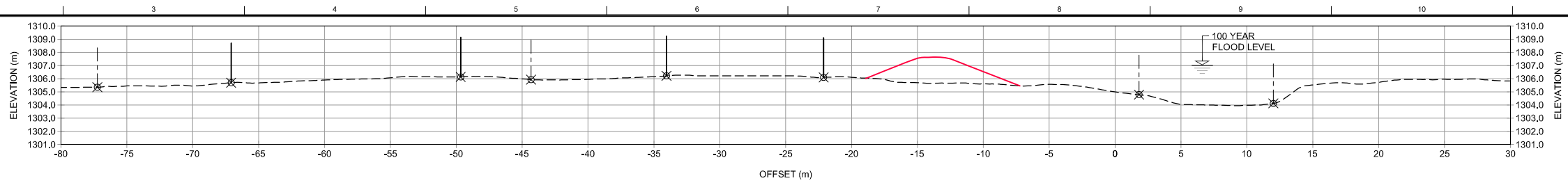
PROJECT NAME

BRAGG CREEK FLOOD MITIGATION

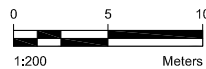
SHEET TITLE

ECHLIN DRIVE CROSS SECTIONS
SHEET 1 OF 1

PROJECT NUMBER	CT160213
DRAWING NUMBER	C-2011
ISSUE/REVISION	A



LEGEND:
 - - - PROPERTY LINES
 ——— EDGE OF BUILDINGS



PERMIT TO PRACTICE NUMBER: P-04546

A	17	07	05	ISSUED FOR ENGINEERING REPORT - NAMES REMOVED						SB	CL	KK	LH	
IR	YY	MM	DD	ISSUE/REVISION DESCRIPTION						DRN	CHK	DES	RWV	

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ROCKY VIEW COUNTY
Cultivating Communities

PROJECT NAME

BRAGG CREEK FLOOD MITIGATION

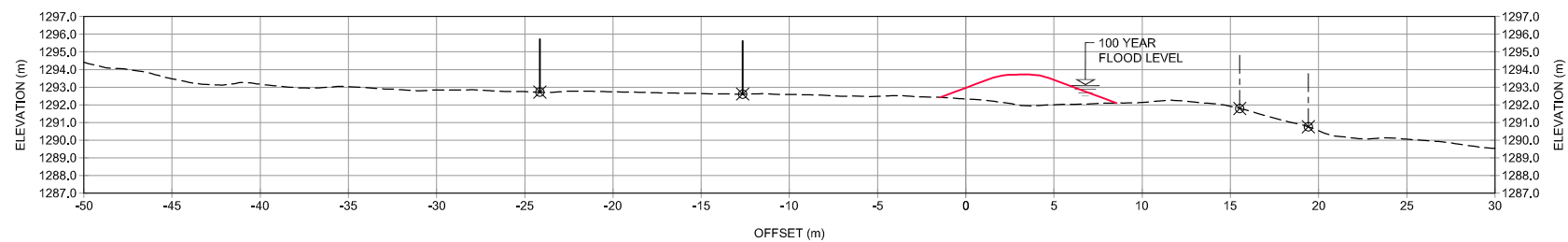
PROJECT NUMBER
CT160213

DRAWING NUMBER
C-2012

ISSUE/REVISION

A

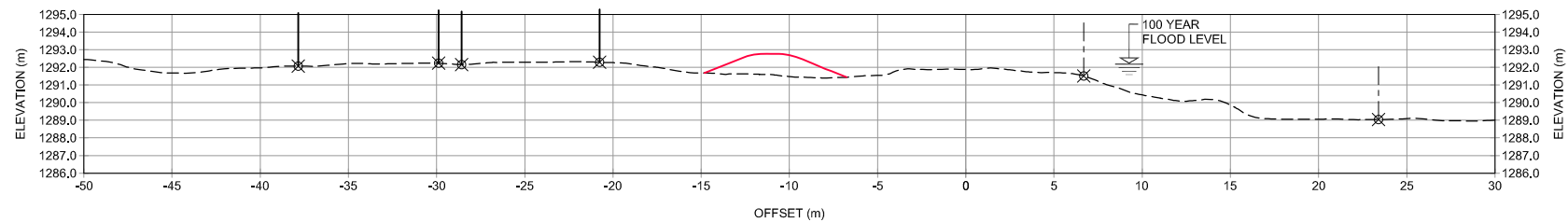
WEST BARRIER NORTH CROSS SECTIONS
SHEET 1 OF 1



30+029.24

SECTION

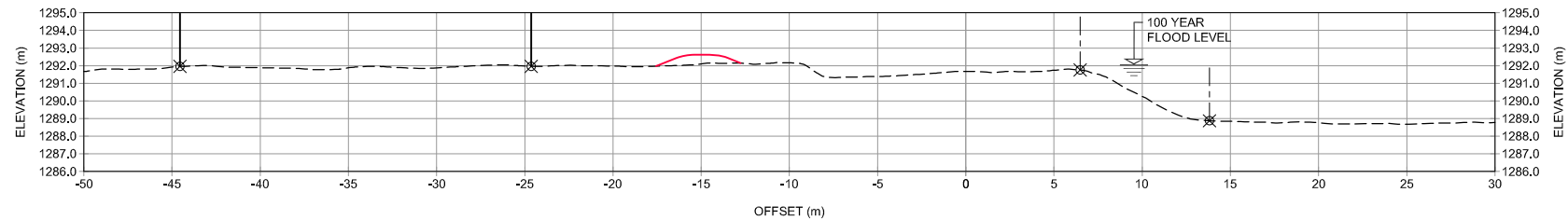
YOHO TINDA 8 Scale 1:200



30+086.81

SECTION

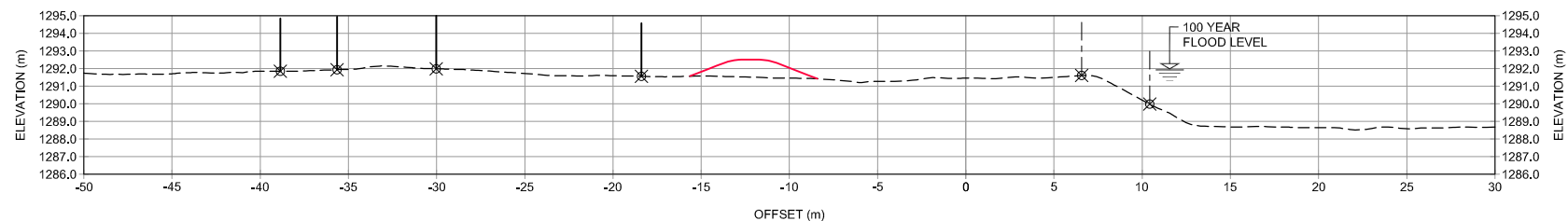
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30+116.78

SECTION

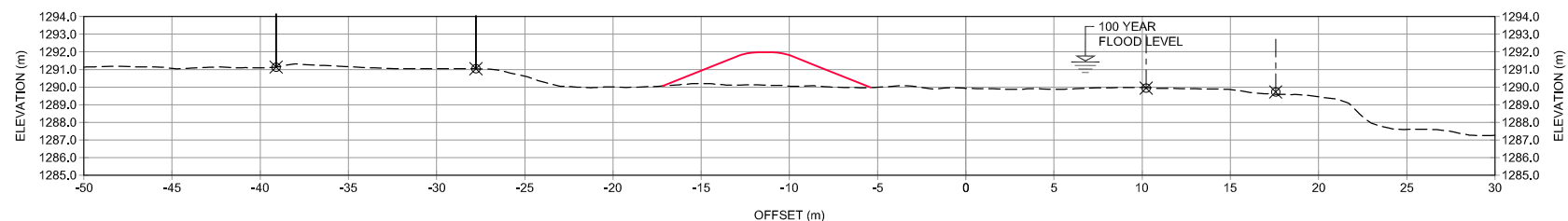
YOHO TINDA 16 Scale 1:200



30+137.93

SECTION

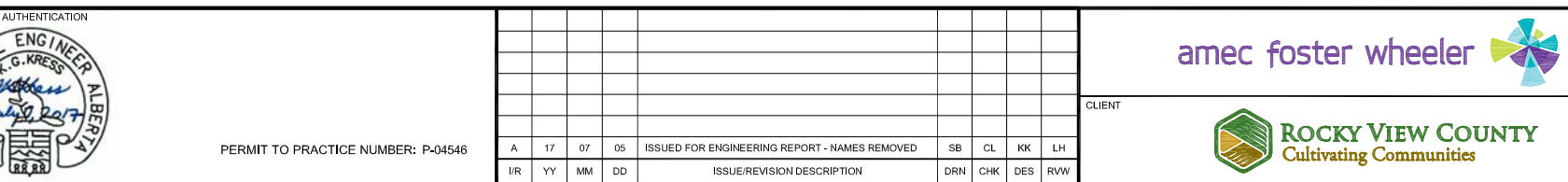
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$$30+238.56$$

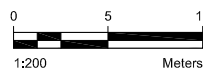
SECTION

YOHO TINDA 36 Scale 1:200



LEGEND:
 - - - - - PROPERTY LINES
 ————— EDGE OF BUILDINGS

SCALE



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PROFESSIONAL AUTHENTICATION



PERMIT TO PRACTICE NUMBER: P-04546

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ROCKY VIEW COUNTY
Cultivating Communities

PROJECT NAME	
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BRAGG CREEK FLOOD MITIGATION

SHEET TITLE

YOHO TINDA BARRIER CROSS SECTIONS
SHEET 1 of 1

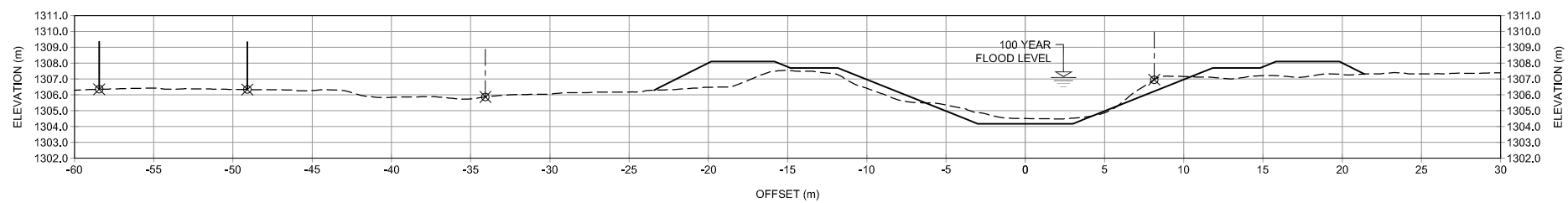
PROJECT NUMBER

CT160213

DRAWING NUMBER

C-2013

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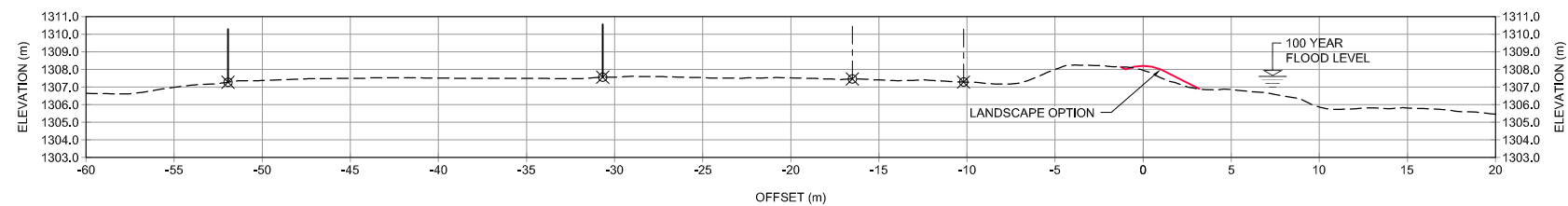


SECTION

ELTON CT 3

Scale 1:200

59+952.91



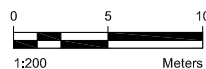
SECTION

ELTON CT 7

Scale 1:200

0+092.65

LEGEND:
 - - - PROPERTY LINES
 ——— EDGE OF BUILDINGS



PERMIT TO PRACTICE NUMBER: P-04546

[illegible]

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ROCKY VIEW COUNTY
Cultivating Communities

PROJECT NAME

BRAGG CREEK FLOOD MITIGATION

SHEET TITLE

BRAGG CREEK MODIFICATIONS
SHEET 1 OF 1

PROJECT NUMBER
CT160213

DRAWING NUMBER

ISSUE/REVISION

A