

ISSUED FOR TENDER  
21/05/2015



Parks Canada  
Asset Management  
Western and Northern Region

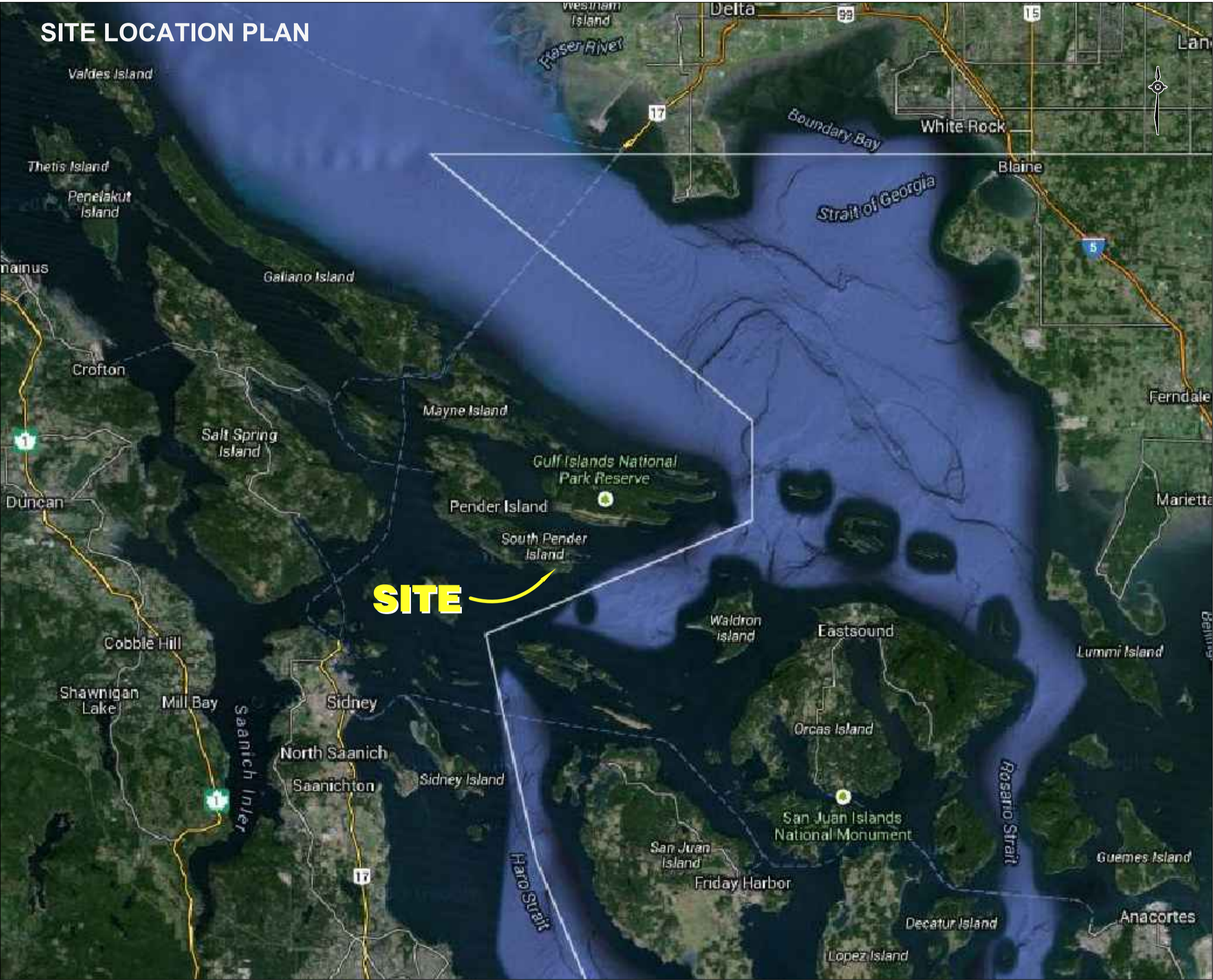
Parcs Canada  
Gestion des biens  
Région de l'Ouest et du Nord

ACCESS AND EMBANKMENT REHABILITATION  
GREENBURN LAKE

GULF ISLAND NATIONAL PARK, South Pender Island, British Columbia

LIST OF CIVIL  
ENGINEERING DRAWINGS

COVER PAGE	C-3348-01
LEGEND SHEET	C-3348-02
ACCESS ROAD PLAN & PROFILE (STA. 1+000 - STA. 1+480)	C-3348-03
ACCESS ROAD PLAN & PROFILE (STA. 1+480 - STA. 1+1775)	C-3348-04
ACCESS ROAD TYPICAL SECTIONS (SHEET 1 OF 2)	C-3348-05
ACCESS ROAD TYPICAL SECTIONS (SHEET 2 OF 2)	C-3348-06
DIVERSION CHANNEL - EXISTING SITE PLAN	C-3348-07
DIVERSION CHANNEL - PROPOSED SITE PLAN	C-3348-08
DIVERSION CHANNEL - PROPOSED CENTERLINE PROFILE AND TYPICAL SECTIONS	C-3348-09
DIVERSION CHANNEL - PROPOSED CENTERLINE 20 m CROSS-SECTIONS	C-3348-10
EMBANKMENT - EXISTING SITE PLAN UPDATED TOPOGRAPHY	C-3348-11
EMBANKMENT - GEOMETRY PLAN & PROFILE - CROSS SECTIONS	C-3348-12
EMBANKMENT TYPICAL SECTIONS & CONSTRUCTION DETAILS	C-3348-13
SPILLWAY STRUCTURE - EXISTING STRUCTURE AS BUILT SECTION	C-3343-14
SPILLWAY STRUCTURE - SITE PLAN, PROFILE AND SECTIONS	C-3348-15
SPILL WAY STRUCTURE - CONCRETE	C-3348-16
SPILLWAY STRUCTURE - STEEL GUARDRAILS AND FLOW METER	C-3348-17
OUTLET CONTROL PLAN & PROFILE - STEEL WALKWAY	C-3348-18



Canada

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Région de l'Ouest et du Nord



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

L'entrepreneur doit vérifier toutes les dimensions et conditions sur le site et aviser immédiatement l'ingénieur de toute divergence.

revisions	description	date
A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B C
	C drawing no. dessin no.	

Consultants Name  
TETRA TECH EBA  
ENGINEERING PRACTICE

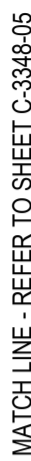
150, 1715 Dickson Ave.  
Kelowna, BC

project  
GREENBURN LAKE DAM  
REHABILITATION  
GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001

drawing  
COVER PAGE

Designed By	R. HALLEY	Conçu par
Date	2015/03/28	(yyyy/mm/dd)
Drawn By	R. HALLEY	Dessiné par
Date	2015/03/28	(yyyy/mm/dd)
Reviewed By	B. PATRICK	Examiné par
Date	2015/03/30	(yyyy/mm/dd)
Approved By		Approuvé par
Date		(yyyy/mm/dd)
Tender		Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet
	5P420-14-5097/A	
Drawing no.		No. du dessin
	C-3348-01	





Consultants Name	Nom de l'expert - conseil
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project

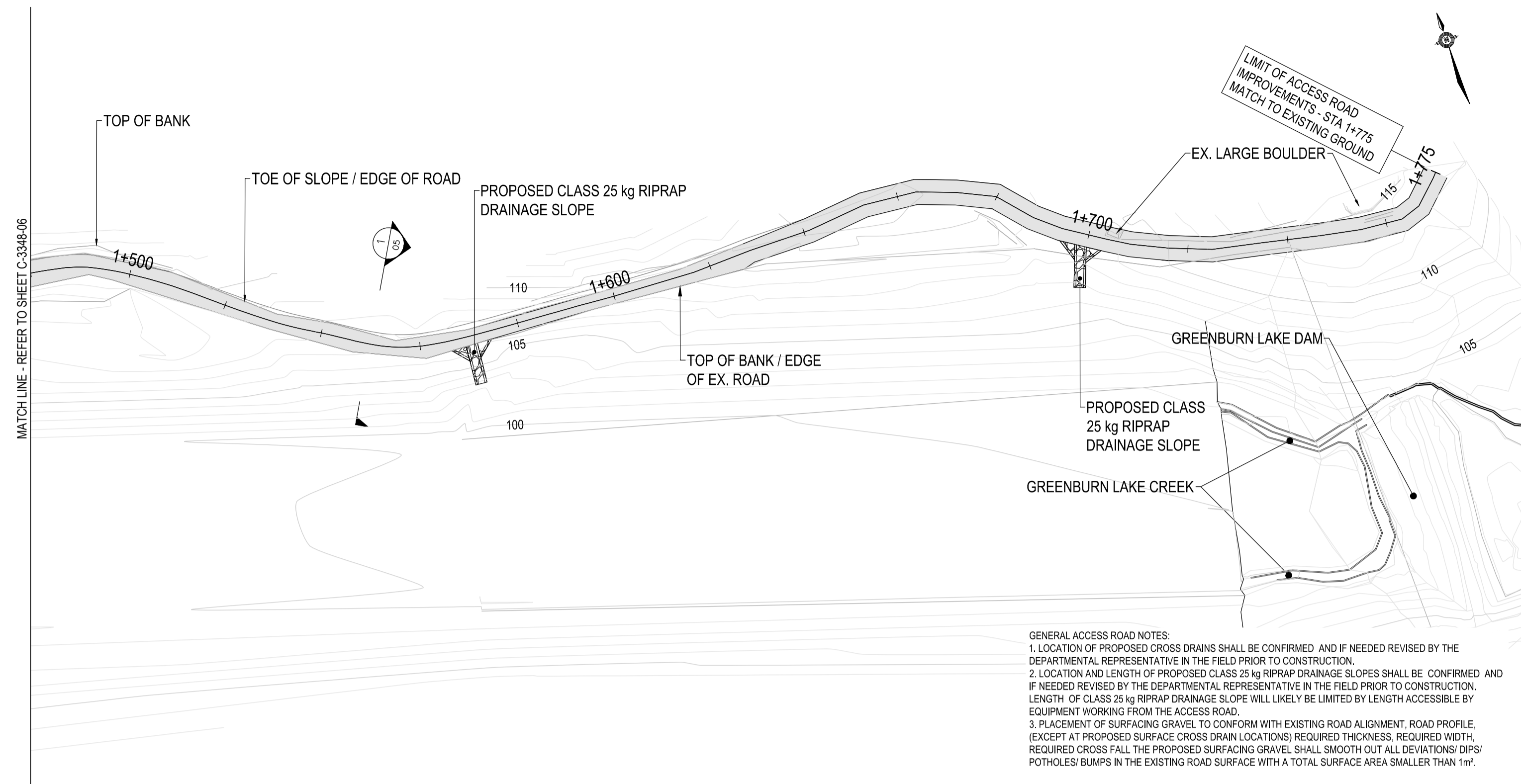
project

# GREENBURN LAKE DAM REHABILITATION

GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001

Designed By	A.HORWOOD	Conçu par
Date	2015/04/23	(yyyy/mm/dd)
Drawn By	A.HORWOOD / Y.TABATA	Dessiné par
Date	2015/04/23	(yyyy/mm/dd)
Reviewed By	R. LIU	Examiné par
Date	2015/04/23	(yyyy/mm/dd)
Approved By		Approuvé par
Date		(yyyy/mm/dd)
Tender		Soumission

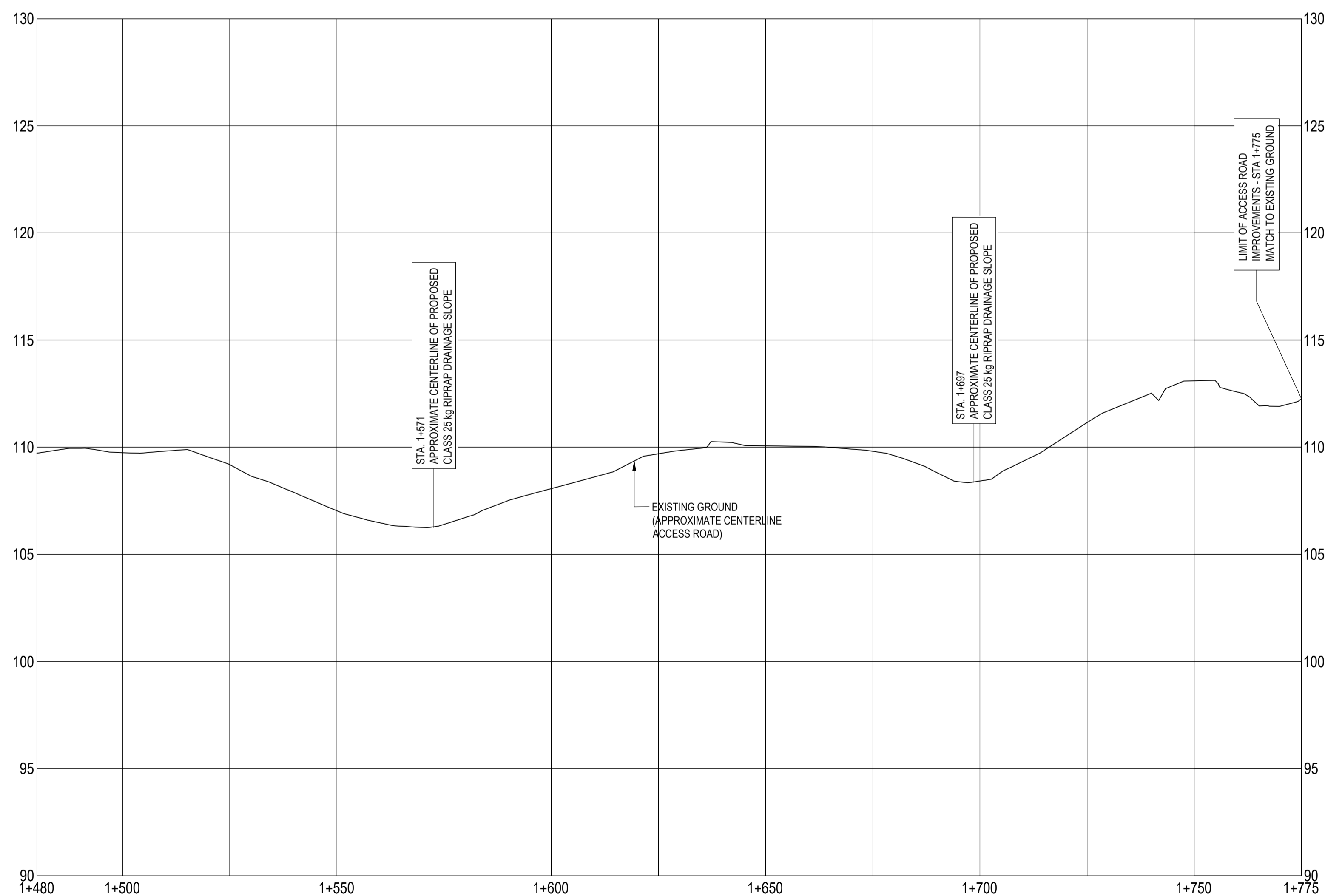
Drawing no.	No. du dessin
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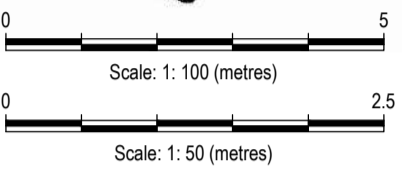
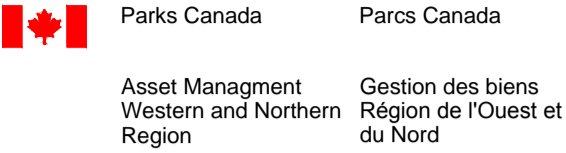


GENERAL ACCESS ROAD NOTES:

1. LOCATION OF PROPOSED CROSS DRAINS SHALL BE CONFIRMED AND IF NEEDED REVISED BY THE DEPARTMENTAL REPRESENTATIVE IN THE FIELD PRIOR TO CONSTRUCTION.
2. LOCATION AND LENGTH OF PROPOSED CLASS 25 kg RIPRAP DRAINAGE SLOPES SHALL BE CONFIRMED AND IF NEEDED REVISED BY THE DEPARTMENTAL REPRESENTATIVE IN THE FIELD PRIOR TO CONSTRUCTION. LENGTH OF CLASS 25 kg RIPRAP DRAINAGE SLOPE WILL LIKELY BE LIMITED BY LENGTH ACCESSIBLE BY EQUIPMENT WORKING FROM THE ACCESS ROAD.

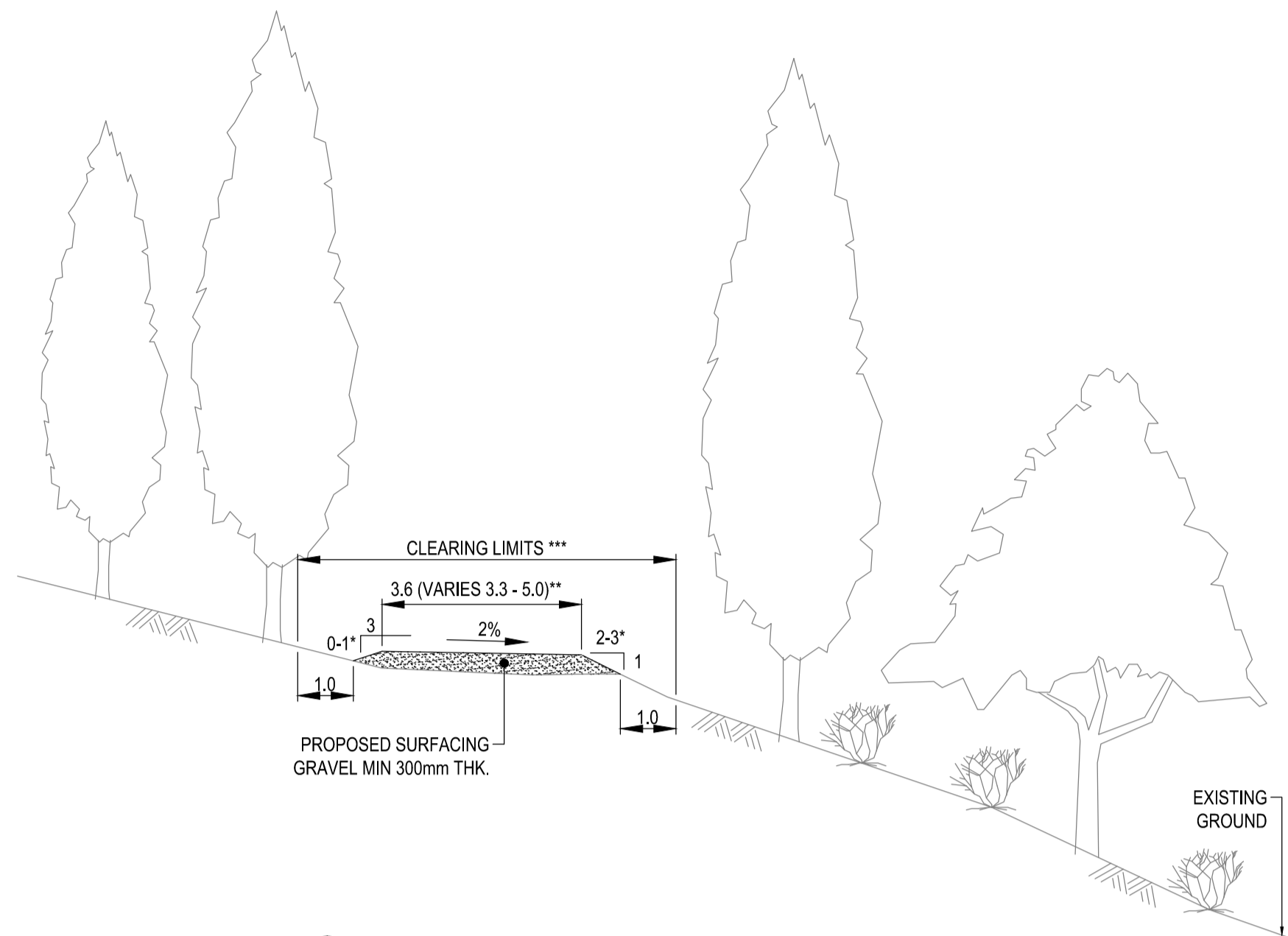
PERMANENT SURFACING SHALL CONFORM WITH EXISTING ROAD ALIGNMENT, ROAD PROFILE, PERCENT OF SURFACING LEVEL, TO CONFORM WITH EXISTING ROAD ALIGNMENT, ROAD PROFILE, EXCEPT AT PROPOSED SURFACE CROSS DRAIN LOCATIONS) REQUIRED THICKNESS, REQUIRED WIDTH, REQUIRED CROSS FALL. THE PROPOSED SURFACING GRAVEL SHALL SMOOTH OUT ALL DEVIATIONS/DIPS/ POTHOLES/ BUMPS IN THE EXISTING ROAD SURFACE WITH A TOTAL SURFACE AREA LESS THAN 1m<sup>2</sup>.





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SECTION 1 TYPICAL SECTION PROPOSED SURFACING GRAVEL  
SCALE: 1:100 SECTION TYPICAL STA. 1+000 TO STA. 1+775 (EXCLUDING SECTION 2 AND SECTION 3 AREAS)  
SECTION DRAWN AT STA. 1+550

- \* SLOPE OF SURFACING GRAVEL TO CONFORM TO FIELD CONDITIONS AND AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
- \*\* 5.9m to 7.0m FROM STA. 1+000 - STA. 1+020.
- \*\*\* CLEAR ALL SHRUBS, BRUSH, AND TREES (WITH DIAMETER AT BASE < 100 mm) WITHIN CLEARING LIMITS (STA. 1+000 - STA. 1+775).

NOTES:

1. DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
2. PROFILE DRAWN AT 10x VERTICAL EXAGGERATION
3. SURVEY BASE PLAN PROVIDED BY: J E ANDERSON & ASSOCIATES, DEC 22, 2014
4. COORDINATE SYSTEM: UTM NAD 83 ZONE 10
5. ELEVATIONS ARE GEODETIC REFERENCED TO THE CVG02013 DATUM

A	ISSUED FOR REVIEW	2015/03/20
revisions	description	date

A detail no.  
no. du detail

B location drawing no.  
sur dessin no.

C drawing no.  
dessin no.

Consultants Name	Nom de l'expert - conseil
------------------	---------------------------

**TETRA TECH EBA  
ENGINEERING PRACTICE**

**150, 1715 Dickson Ave.  
Kelowna, BC**

project	projet
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## GREEN BURNLAKE DAM REHABILITATION

GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001

drawing	dessin
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# ACCESS ROAD TYPICAL SECTIONS (SHEET 1 OF 2)

Designed By	Conçu par
-------------	-----------

Date 2015/04/23 (yyyy/mm/dd)

Drawn By A.HORWOOD / Y.TABATA Dessiné par

Date	2015/04/23	(yyyy/mm/dd)
------	------------	--------------

Reviewed By	R. LIU	Examiné par
	2015/04/23	

Date	2015/04/23	(yyyy/mm/dd)
Approved By	Approuvé par	

Date (yyyy/mm/dd)

Tender	Soumission
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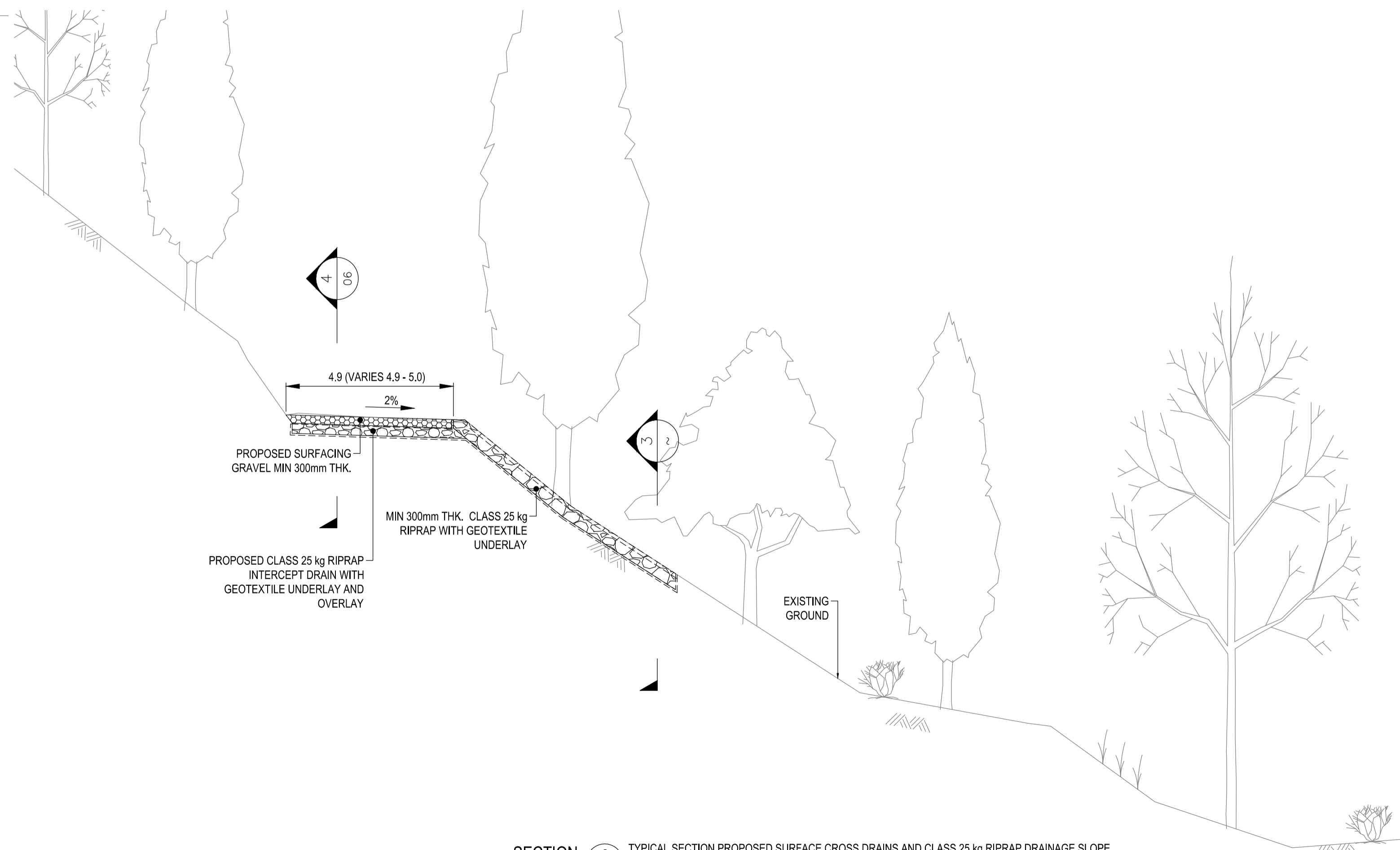
Project Manager	Administrateur de projets
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Project no.	No. du projet
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5P420-14-5097/A

Drawing no.	No. du dessin
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C-3348-05

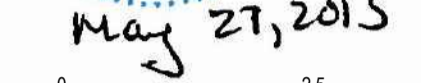


SECTION 2 TYPICAL SECTION PROPOSED SURFACE CROSS DRAINS AND CLASS 25 kg RIPRAP DRAINAGE SLOPE  
SCALE: 1:100 03 SECTION TYPICAL STA. 1+070, STA. 1+185, STA. 1+270, STA. 1+365  
SECTION DRAWN AT STA. 1+070



SECTION 3 TYPICAL SECTION PROPOSED CLASS 25 kg RIPRAP DRAINAGE SLOPE  
SCALE: 1:50




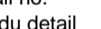


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[illegible]

A	ISSUED FOR REVIEW	2015/03/20
visions	description	date

A detail no.  
no. du detail  
 B location drawing no.  
sur dessin no.  
 C drawing no.  
dessin no.

Consultants Name	Nom de l'expert - conseil
------------------	---------------------------

**TETRA TECH EBA  
ENGINEERING PRACTICE**

**150, 1715 Dickson Ave.  
Kelowna, BC**

project	projet
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## GREEN BURNLAKE DAM REHABILITATION

GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001

drawing	dessin
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ACCESS ROAD  
TYPICAL SECTIONS  
(SHEET 2 OF 2)

Designed By	A.HORWOOD	Conçu par
Date	2015/04/23	(yyyy/mm/dd)

Drawn By	A.HORWOOD / Y.TABATA	Dessiné par
Date	2015/04/23	(yyyy/mm/dd)

Reviewed By	R.LIU	Examiné par
Date	2015/04/23	(yyyy/mm/dd)

Approved By	Approuvé par
Date	(yyyy/mm/dd)

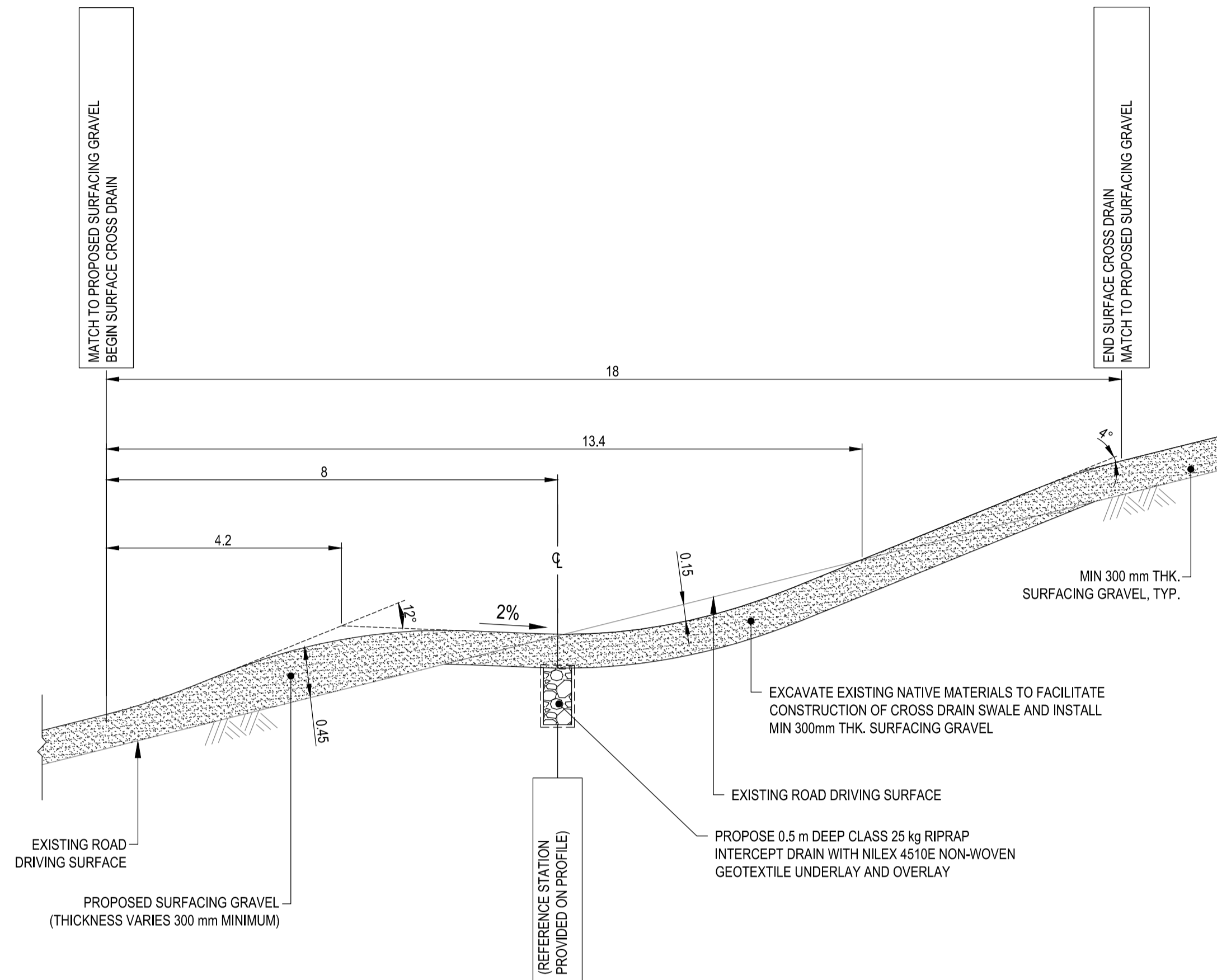
ender	Soumission
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Project Manager	Administrateur de projets
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5P420-14-5097/A

Drawing no.	No. du dessin
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C-3348-06



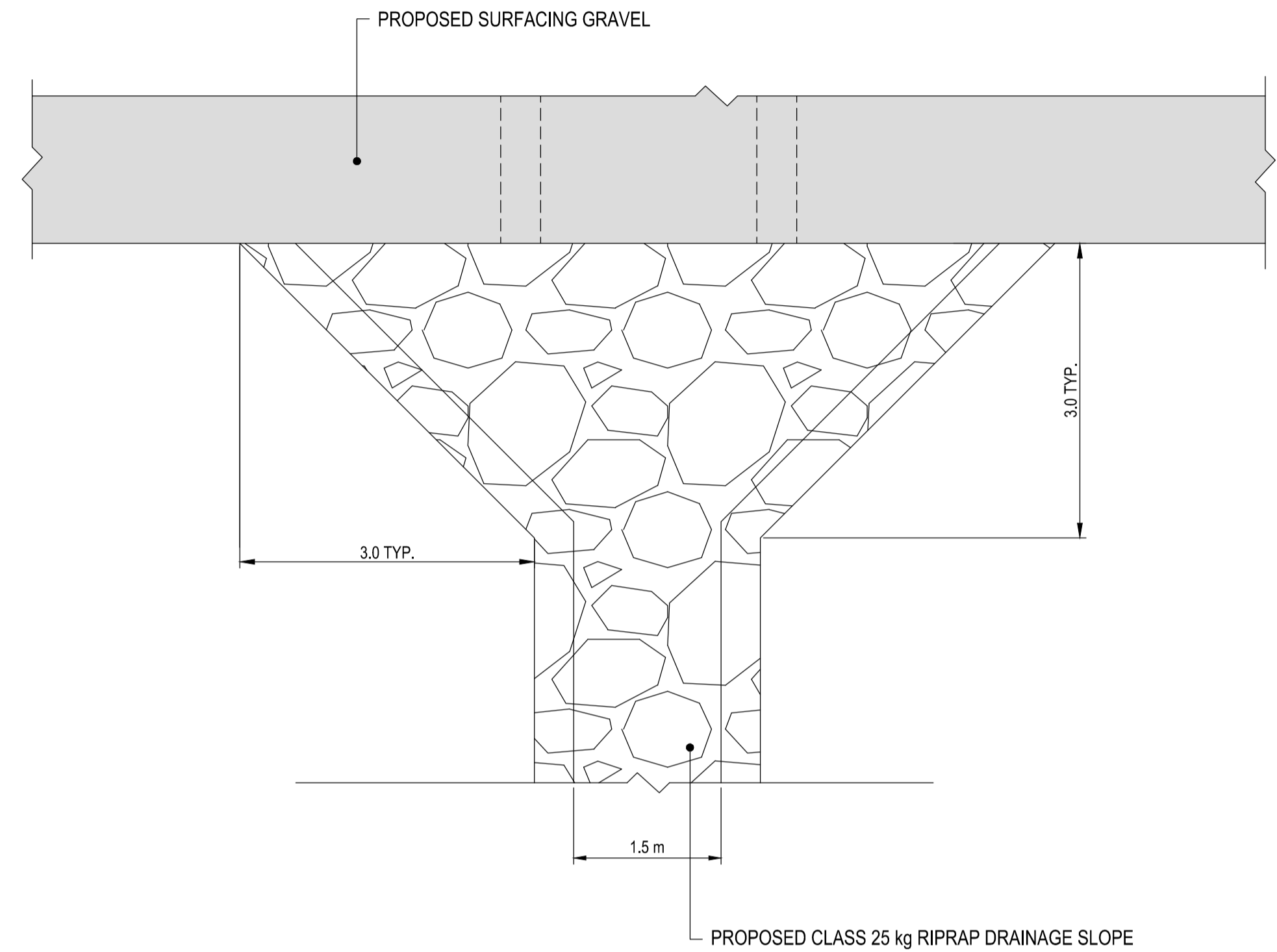
SECTION

SCALE: H: 1:75  
V: 2 x EXAGGERATION

4  
03

TYPICAL SECTION PROPOSED SURFACE CROSS DRAIN  
SECTION TYPICAL OF CROSS DRAINS STA. 1+070, STA. 1+185, STA. 1+270, STA. 1+365  
SECTION DRAWN AT STA. 1+065 TO STA. 1+079

\* 8° AT PROPOSED SURFACE CROSS DRAIN STA. 1+365.



## DETAIL

SCALE : 1:50

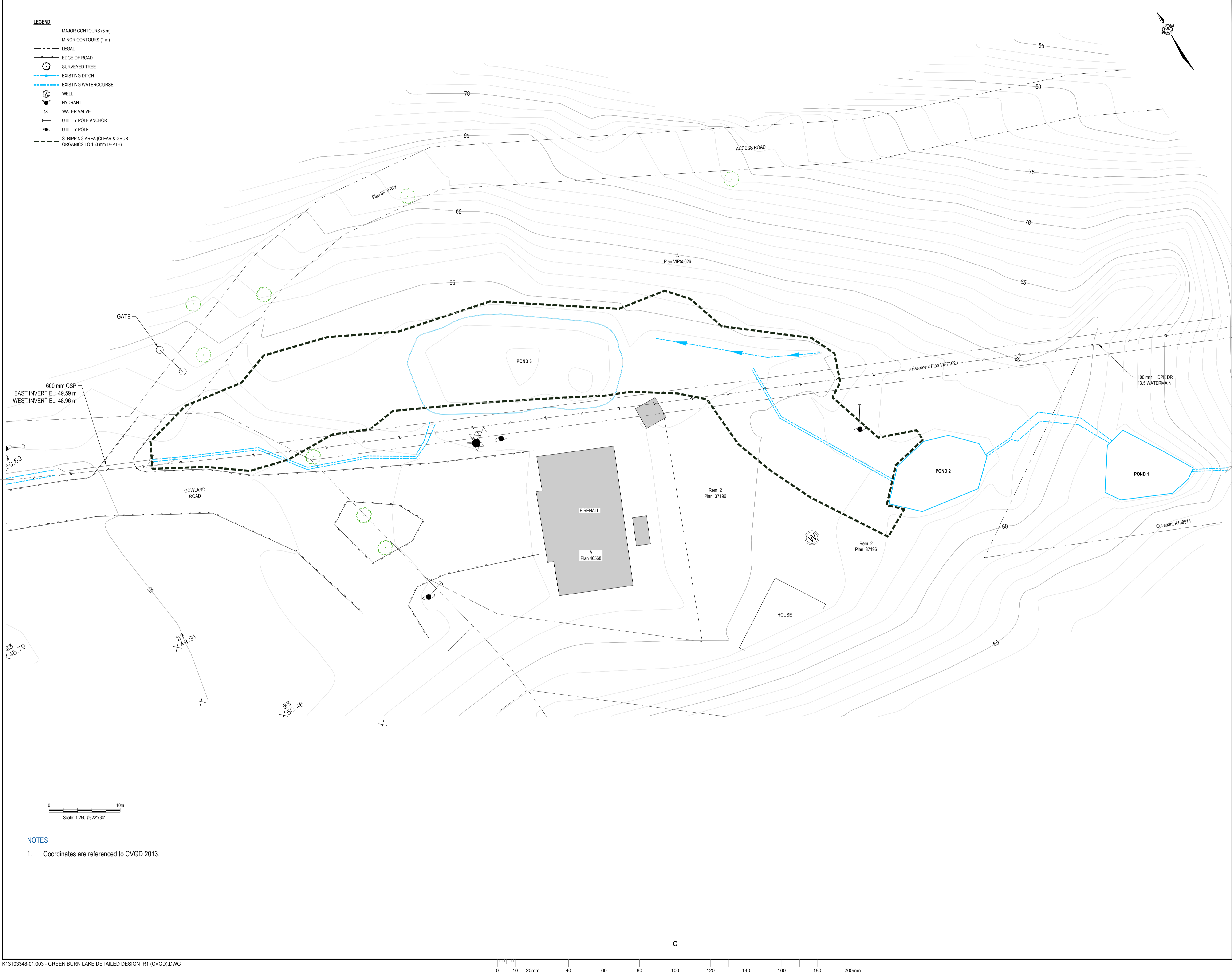


03

TYPICAL DETAIL OF RIPRAP DRAINAGE  
SLOPE ADJACENT TO ACCESS ROAD

NOTES:

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4. COORDINATE SYSTEM: UTM NAD 83 ZONE 10
5. ELEVATIONS ARE GEODETIC REFERENCED TO THE CVG02013 DATUM



Parcs Canada

Asset Management  
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Region

Gestion des biens  
Région de l'Ouest et  
du Nord

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A	A detail no. du detail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

Consultants Name

Nom de l'expert - conseil

**TETRA TECH EBA  
ENGINEERING PRACTICE**

150, 1715 Dickson Ave.  
Kelowna, BC

project

projet

**GREENBURN LAKE DAM  
REHABILITATION**

GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001

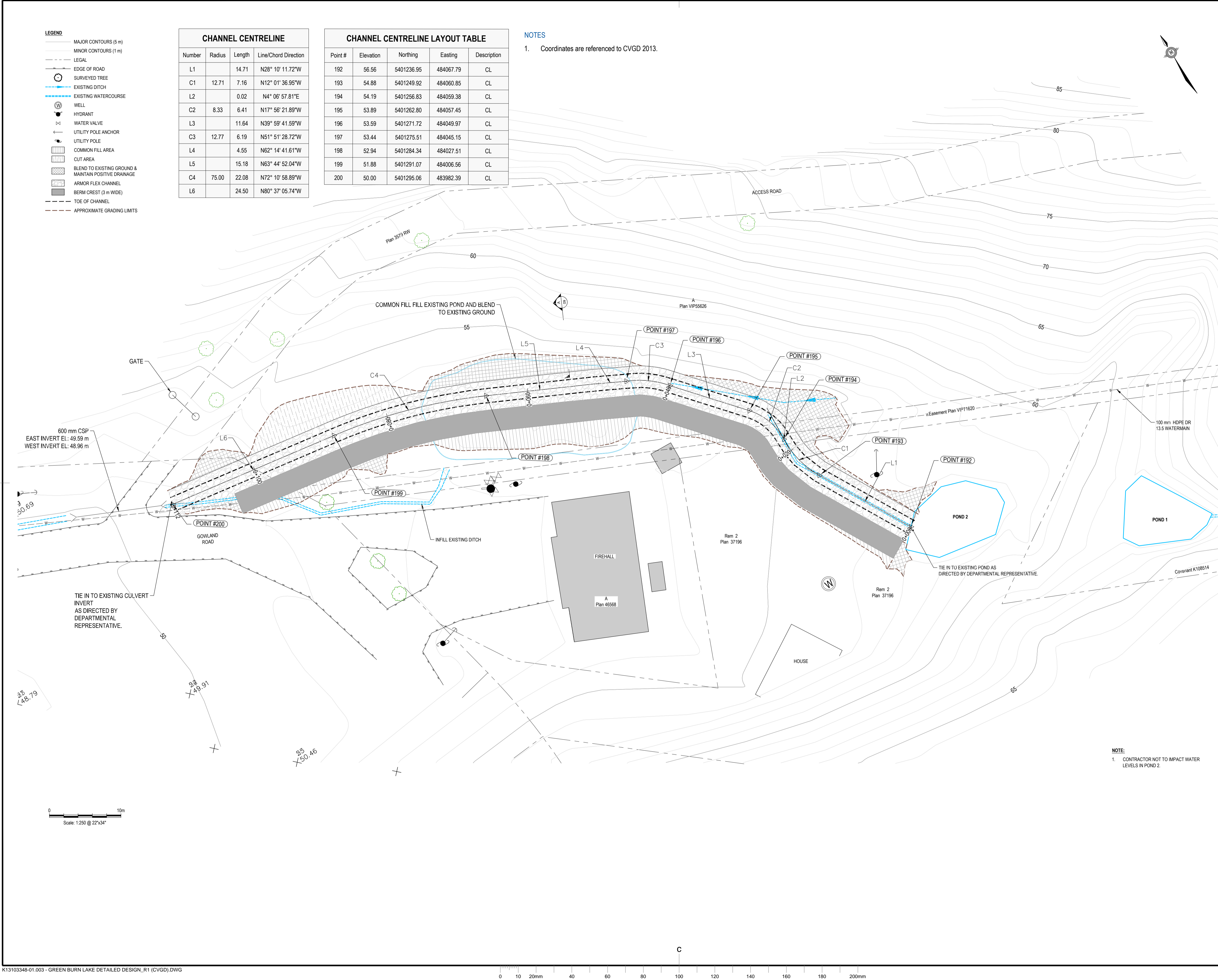
drawing

dessin

**DIVERSION CHANNEL  
EXISTING SITE PLAN**

Designed By	EL	Conçu par
Date	2015/03/20	(yyyy/mm/dd)
Drawn By	JDM	Dessiné par
Date	2015/03/20	(yyyy/mm/dd)
Reviewed By	EL/DNM	Examiné par
Date	2015/03/23	(yyyy/mm/dd)
Approved By		Approuvé par
Date		(yyyy/mm/dd)
Tender		Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet
		5P420-14-5097/A
Drawing no.		No. du dessin
		C-3348-07





Parks Canada

Parcs Canada

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Western and Northern  
Region

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du Nord

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revisions	description	date
A	A detail no. no. du détail	A
B	B location drawing no. sur dessin no.	B
C	C drawing no. dessin no.	C

Consultants Name

Nom de l'expert - conseil

**TETRA TECH EBA  
ENGINEERING PRACTICE**

**150, 1715 Dickson Ave.  
Kelowna, BC**

project

projet

**GREENBURN LAKE DAM  
REHABILITATION**

**GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001**

drawing

dessin

**DIVERSION CHANNEL  
PROPOSED SITE PLAN**

Designed By

EL

Conçu par

2015/03/20

(yyyy/mm/dd)

Drawn By

JDM

Dessiné par

2015/03/20

(yyyy/mm/dd)

Reviewed By

EL/DNM

Examiné par

2015/03/23

(yyyy/mm/dd)

Approved By

Approuvé par

(yyyy/mm/dd)

Tender

Soumission

Project Manager

Administrateur de projets

Project no.

No. du projet

**5P420-14-5097/A**



Drawing no.

No. du dessin

**C-3348-08**



L'entrepreneur doit vérifier toutes les dimensions et conditions sur le site et aviser immédiatement l'ingénieur de toute divergence.

revisions	description	date
	A detail no. no. du detail B location drawing no. sur dessin no. C drawing no. dessin no.	

150, 1715 Dickson Ave.  
Kelowna, BC

GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001

## DIVERSION CHANNEL CENTERLINE PROFILE AND TYPICAL SECTION

5P420-14-5097/A

C-3348-09

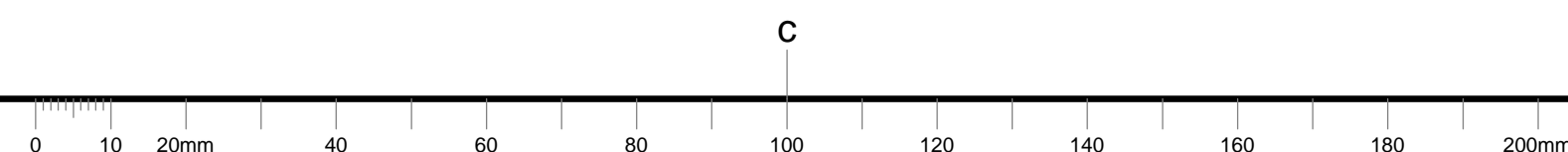


1. Profile view is exaggerated by 5 times vertically



**LEGEND**

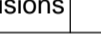
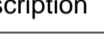
- EXISTING GROUND
- PROPOSED CHANNEL CENTERLINE PROFILE
- INFLOW DESIGN FLOOD LEVEL
- 200 YEAR FLOOD LEVEL





L'entrepreneur doit vérifier toutes les dimensions et conditions sur le site et aviser immédiatement l'ingénieur de toute divergence.

[illegible]

revisions	description	date
	A detail no. no. du détail  B location drawing no. sur dessin no.  C drawing no. dessin no.	

**TETRA TECH EBA  
ENGINEERING PRACTICE**

**150, 1715 Dickson Ave.  
Kelowna, BC**

# DIVERSION CHANNEL 20 METER CROSS SECTIONS

Drawing no.	No. du dessin
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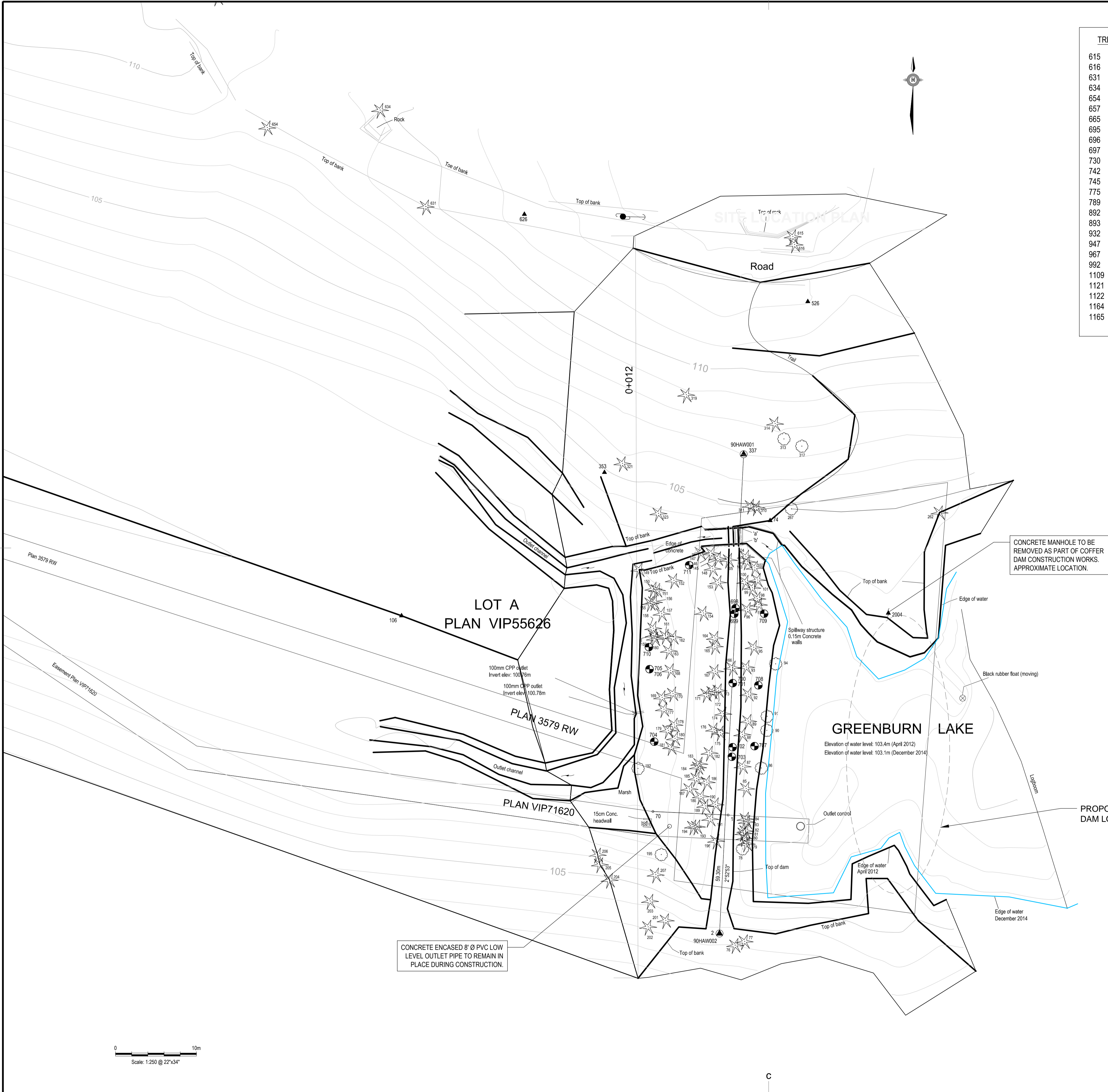


**LEGEND**

--- Existing Ground

— Design Channel





TREE TABLE 2014	
615	Fir 45cm
616	Fir 50cm
631	Fir 65cm
634	Fir 80cm
654	Fir 25cm
657	Cedar 75cm
665	Cedar 72cm
695	Fir 32cm
696	Fir 60cm
697	Fir 35cm
730	Fir 130cm
742	Fir 70cm
745	Cedar 110cm
775	Fir 65cm
789	Fir 50cm
892	Fir 30cm
893	Fir 30cm
932	Cedar 75cm
947	Fir 50cm
967	Fir 70cm
992	Cedar Twin 50cm
1109	Fir 90cm
1121	Fir 40cm
1122	Cedar 55cm
1164	Maple Twin 80cm
1165	Maple 70cm

TREE TABLE 2012	
76	Cedar 40cm
77	Fir 30cm
78	Alder 20cm
79	Fir 7cm
80	Cedar 13cm
81	Fir 10cm
82	Fir 11cm
83	Fir 8cm
84	Fir 11cm
86	Alder 30cm
87	Fir 10cm
88	Fir 20cm
89	Fir 24cm
90	Alder 2x10cm
91	Alder 3x15cm
92	Fir 12cm
93	Fir 10cm
94	Alder 20cm
95	Fir 20cm
96	Fir 23cm
97	Fir 20cm
98	Fir 60cm
99	Fir 20cm
100	Fir 18cm
101	Fir 12cm
102	Fir 17cm
103	Fir 10cm
104	Fir 15cm
105	Fir 25cm
144	Fir 25cm
145	Fir 15cm
146	Fir 17cm
147	Fir 6cm
148	Fir 17cm
149	Fir 22cm
150	Fir 14cm
151	Fir 12cm
152	Fir 30cm
153	Fir 22cm
154	Fir 27cm
155	Fir 10cm
156	Fir 10cm
157	Fir 8cm
158	Fir 10cm
159	Fir 15cm
160	Fir 17cm
161	Fir 17cm
162	Fir 14cm
163	Fir 14cm
164	Fir 23cm
165	Fir 20cm
166	Fir 22cm
167	Fir 30cm
168	Fir 20cm
169	Fir 23cm
170	Fir 10cm
171	Fir 20cm
172	Fir 20cm
173	Fir 20cm
174	Fir 15cm
175	Fir 8cm
176	Fir 2x15cm
177	Fir 10cm
178	Fir 16cm
179	Fir 16cm
180	Fir 7cm
181	Fir 8cm
182	Fir 23cm
183	Fir 15cm
184	Fir 20cm
185	Fir 10cm
186	Fir 20cm
187	Fir 14cm
188	Fir 8cm
189	Cedar 10cm
190	Fir 10cm
191	Fir 15cm
192	Alder 50cm
193	Fir 10cm
194	Fir 7cm
195	Alder 50cm
196	Cedar 6cm
201	Fir 70cm
202	Fir 25cm
203	Cedar 20cm
204	Fir 15cm
205	Fir 30cm
206	Fir 35cm
207	Fir 30cm
262	Fir 20cm
263	Fir 20cm
267	Cherry 10cm
310	Fir 50cm
311	Fir 27cm
312	Cherry 7cm
313	Decid. 2x13cm
314	Fir 50cm
319	Fir 50cm
321	Fir 70cm

Asset Management  
Western and Northern  
Region

Gestion des biens  
Région de l'Ouest et  
du Nord

COORDINATE SYSTEM REFERENCED TO:  
UTM with NAD83 datum, Zone 12, Meter;  
Central Meridian 111d W

Contractor to verify all dimensions &  
conditions on site and immediately notify the  
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immédiatement l'ingénieur de toute divergence.

revisions	description	date
A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no. C drawing no. dessin no.	B C

Consultants Name

Nom de l'expert - conseil

**TETRA TECH EBA  
ENGINEERING PRACTICE**

**150, 1715 Dickson Ave.  
Kelowna, BC**

project

projet

**GREENBURN LAKE DAM  
REHABILITATION**

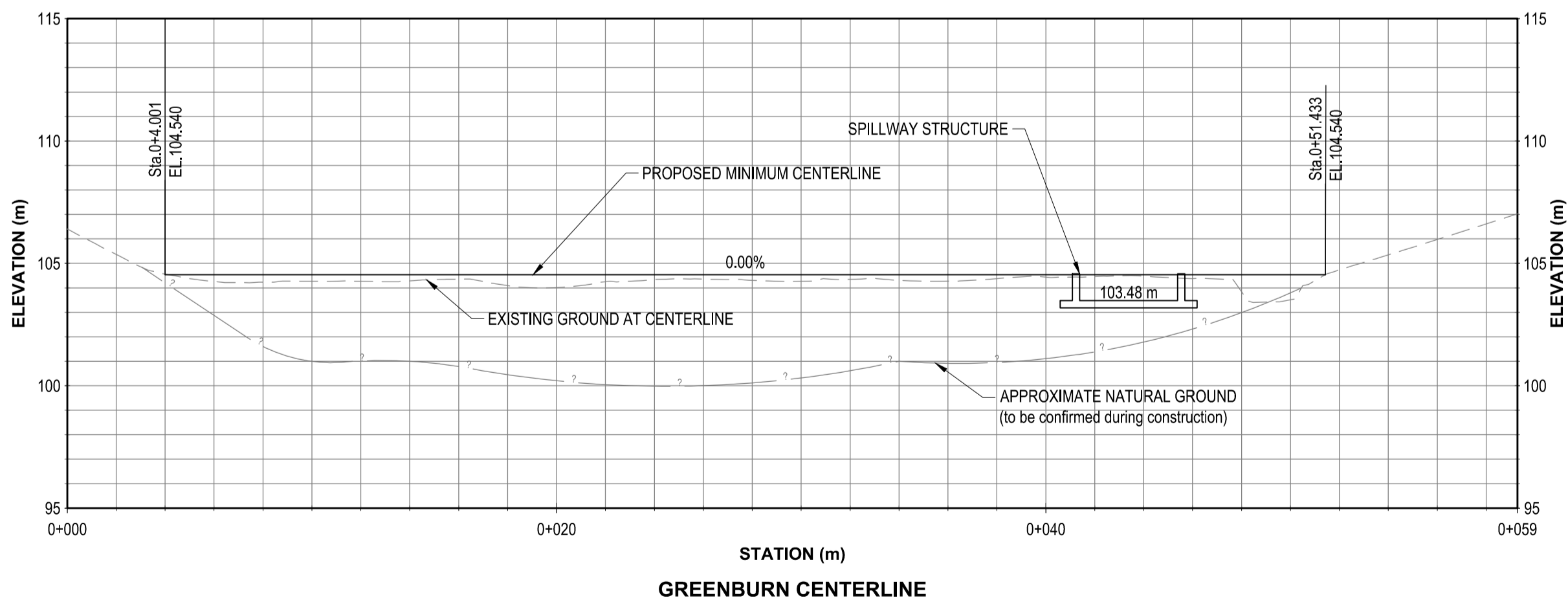
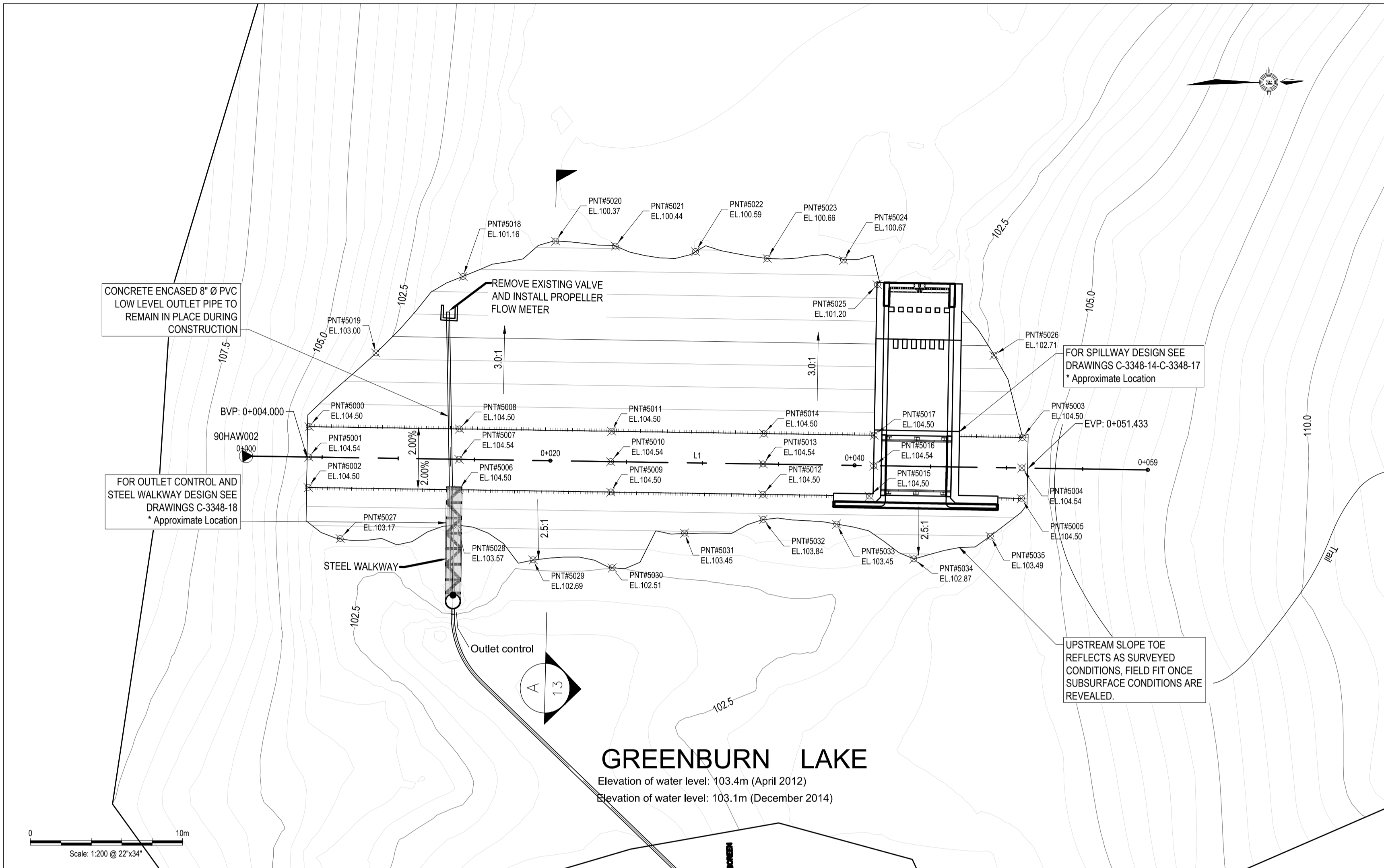
**GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001**

drawing

dessin

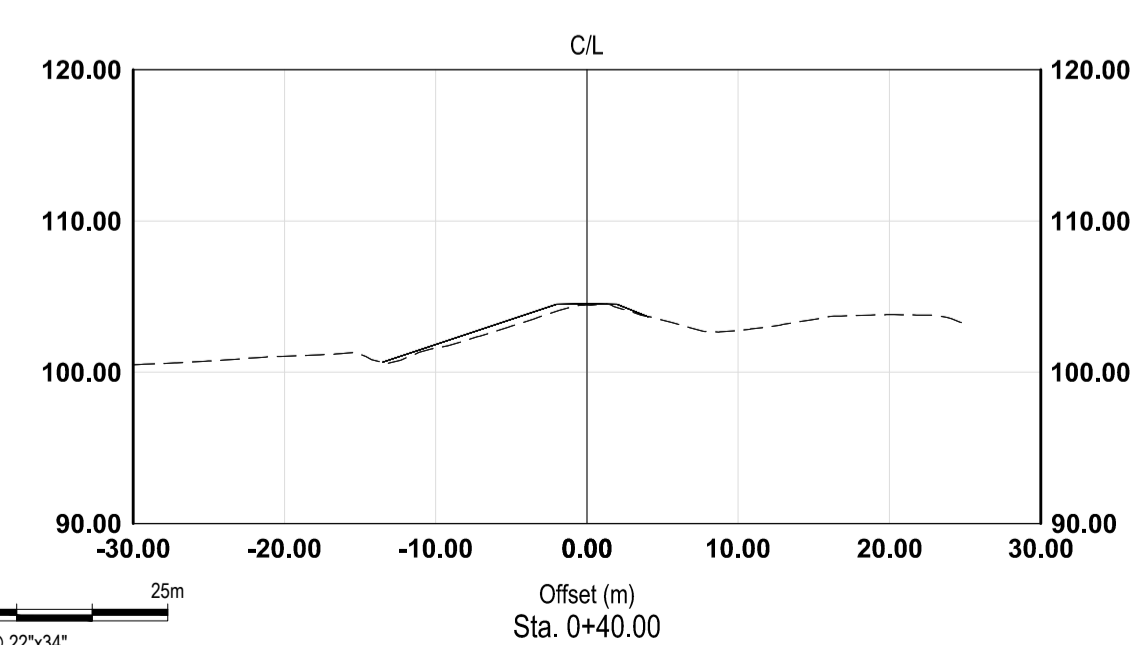
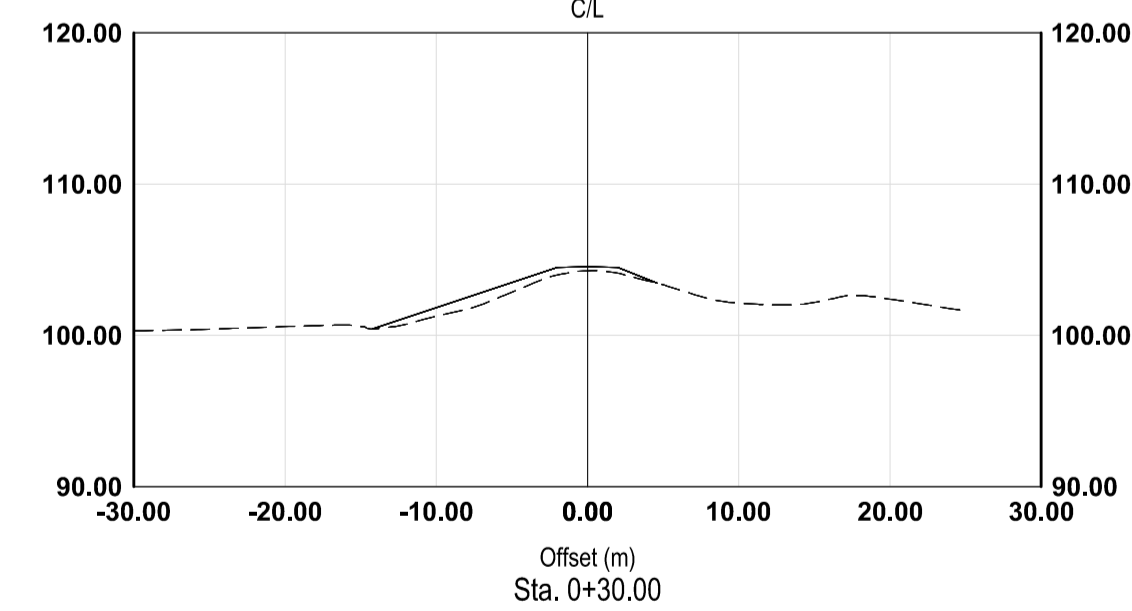
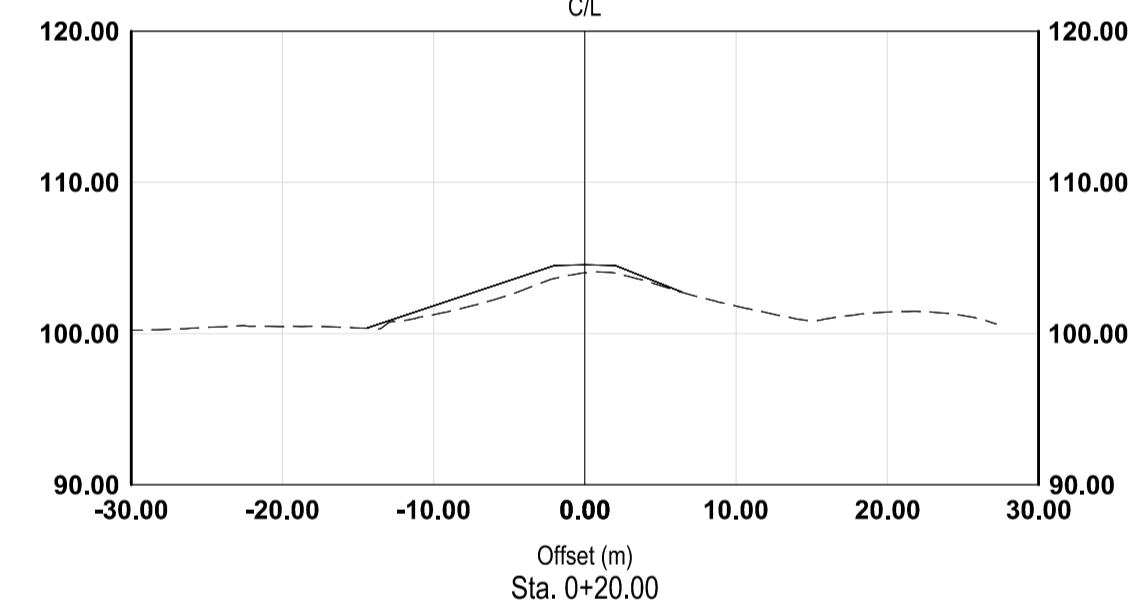
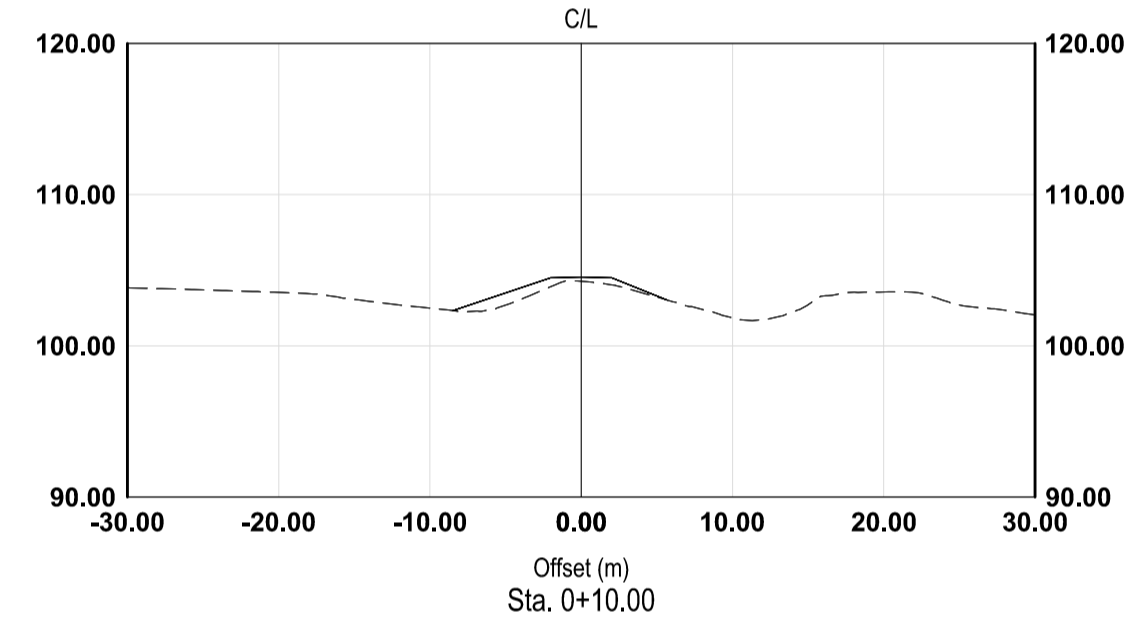
**EMBANKMENT  
EXISTING SITE PLAN  
UPDATED  
TOPOGRAPHY**

Designed By	R. HALLEY	Conçu par
Date	2015/03/28	(yyyy/mm/dd)
Drawn By	R. HALLEY	Dessiné par
Date	2015/03/28	(yyyy/mm/dd)
Reviewed By	B. PATRICK	Examiné par
Date	2015/14/20	(yyyy/mm/dd)
Approved By		Approuvé par
Date		(yyyy/mm/dd)
Tender		Soumission
Project Manager	Administrateur de projets	
Project no.	No. du projet	
	<b>5P420-14-5097/A</b>	
Drawing no.	No. du dessin	
	<b>C-3348-11</b>	



GREENBURN DAM CENTERLINE				
Number	Length	Radius	Line/Chord Direction	A Value
L1	59.281		N2° 52' 52.75"E	

EMBANKMENT LAYOUT POINTS					EMBANKMENT LAYOUT POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	5398854.077	484480.050	104.500	CREST	5018	5398864.525	484470.551	101.162	TOE
5001	5398853.976	484482.051	104.540	CL	5019	5398858.628	484475.365	103.000	TOE
5002	5398853.876	484484.045	104.500	CREST	5020	5398870.690	484468.432	100.371	TOE
5003	5398900.902	484482.406	104.500	CREST	5021	5398874.601	484468.899	100.444	TOE
5004	5398900.802	484484.403	104.540	CL	5022	5398879.856	484469.443	100.588	TOE
5005	5398900.701	484486.401	104.500	CREST	5023	5398884.553	484470.053	100.661	TOE
5006	5398863.748	484484.542	104.500	CREST	5024	5398889.559	484470.339	100.673	TOE
5007	5398863.845	484482.543	104.540	CL	5025	5398891.724	484472.032	101.200	TOE
5008	5398863.949	484480.547	104.500	CREST	5026	5398899.224	484476.939	102.708	TOE
5009	5398873.736	484485.044	104.500	CREST	5027	5398855.858	484487.471	103.171	TOE
5010	5398873.801	484483.044	104.540	CL	5028	5398863.581	484486.875	103.570	TOE
5011	5398873.937	484481.049	104.500	CREST	5029	5398868.481	484489.315	102.688	TOE
5012	5398883.723	484485.547	104.500	CREST	5030	5398873.663	484490.022	102.510	TOE
5013	5398883.810	484483.548	104.540	CL	5031	5398878.493	484487.911	103.450	TOE
5014	5398883.924	484481.552	104.500	CREST	5032	5398883.689	484487.197	103.840	TOE
5015	5398890.714	484485.898	104.500	CREST	5033	5398888.498	484487.670	103.447	TOE
5016	5398891.074	484483.921	104.540	CL	5034	5398893.490	484490.129	102.865	TOE
5017	5398891.169	484481.916	104.500	CREST	5035	5398898.567	484488.813	103.493	TOE



Canada

Parks Canada  
Asset Management  
Western and Northern  
Region

COORDINATE SYSTEM REFERENCED TO:  
UTM with NAD83 datum, Zone 12, Meter;  
Central Meridian 111d W

PROFESSIONAL  
ENGINEER  
B. PATRICK  
COLUMBIA  
May 27, 2015

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.  
L'entrepreneur doit vérifier toutes les dimensions et conditions sur le site et aviser immédiatement l'ingénieur de toute divergence.

revisions	description	date
A	detail no. no. du detail	A
B	location drawing no. sur dessin no.	B
C	drawing no. dessin no.	C

Consultants Name  
Nom de l'expert - conseil

TETRA TECH EBA  
ENGINEERING PRACTICE

150, 1715 Dickson Ave.  
Kelowna, BC

project  
project

GREENBURN LAKE DAM  
REHABILITATION

GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001

drawing  
dessin

EMBANKMENT  
GEOMETRY  
PLAN & PROFILE  
CROSS SECTIONS

Designed By	M. LAWS	Conçu par
Date	2015/02/03	(yyyy/mm/dd)
Drawn By	R. HALLEY	Dessiné par
Date	2015/03/19	(yyyy/mm/dd)
Reviewed By	B. PATRICK	Examiné par
Date	2015/03/30	(yyyy/mm/dd)
Approved By		Approuvé par
Date		(yyyy/mm/dd)
Tender		Soumission

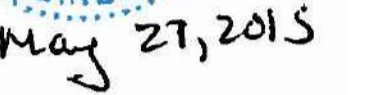
Project Manager  
Administrateur de projets

Project no.  
No. du projet

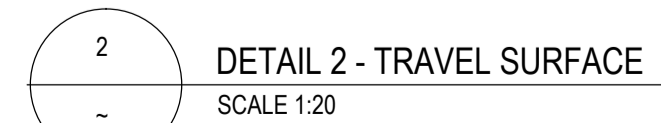
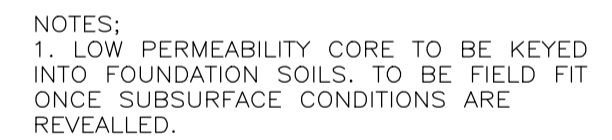
5P420-14-5097/A

Drawing no.  
No. du dessin

C-3348-12



L'entrepreneur doit vérifier toutes les dimensions et conditions sur le site et aviser immédiatement l'ingénieur de toute divergence.



A detail no.  
no. du detail

B location drawing no.  
sur dessin no.

C drawing no.  
dessin no.

**150, 1715 Dickson Ave.  
Kelowna, BC**

**GULF ISLAND NATIONAL PARK, BC**  
**K13103348-01-001**

## EMBANKMENT TYPICAL SECTION & CONSTRUCTION DETAILS

5P420-14-5097/A

C-3348-13



May 27, 2015

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

L'entrepreneur doit vérifier toutes les dimensions et conditions sur le site et aviser immédiatement l'ingénieur de toute divergence.


revisions	description	date
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A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

Consultants Name Nom de l'expert - conseil

**TETRA TECH EBA  
ENGINEERING PRACTICE**150, 1715 Dickson Ave.  
Kelowna, BC

project project

**GREENBURN LAKE DAM  
REHABILITATION**GULF ISLAND NATIONAL PARK, BC  
K13103348-01-001

drawing dessin

**SPILLWAY  
EXISTING STRUCTURE  
AND AS BUILT  
SECTIONS**Designed By P. ALDRIDGE Conçu par  
Date 2015/03/21 (yyyy/mm/dd)Drawn By A. FRY Dessiné par  
Date 2015/03/24 (yyyy/mm/dd)Reviewed By R. SLOPEK Examiné par  
Date 2015/03/25 (yyyy/mm/dd)

Approved By Approuvé par

Date (yyyy/mm/dd)

Tender Soumission

Project Manager Administrateur de projets

Project no. No. du projet

5P420-14-5097/A

Drawing no. No. du dessin

C-3348-14

