



## **Addendum to Basic Impact Analysis**

Installation of Beach Access Trail with Pedestrian Bridge  
Trout Brook Campground, Cape Breton Highlands National Park

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**PROJECT TITLE & LOCATION**

Installation of Beach Access Trail with Pedestrian Bridge  
Trout Brook Campground  
Cape Breton Highlands National Park

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**PROPONENT INFORMATION**

Robie Gourd, Asset Manager  
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**PROPOSED PROJECT DATES**

As of May 2020, the construction of Trout Brook Campground is ongoing. The installation of the beach access trail and pedestrian bridge is expected to be conducted in the summer of 2020.

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**PROJECT FILE NUMBER**

CBFU2020-007

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### **BACKGROUND & UPDATED PROJECT DESCRIPTION**

In 2016, a Basic Impact Analysis (Project No. CBFU2016-014) was prepared to address potential environmental impacts associated with constructing a campground at the Trout Brook day use area, located along the Cabot Trail in Cape Breton Highlands National Park. Trout Brook day use area was chosen as the site for this new campground following the decommissioning of the lower Chéticamp Campground in 2015 due to flooding.

As of May 2020, construction activities at Trout Brook Campground are ongoing with the addition of various facilities, oTENTik accommodations, and walk-in campsites. The project specifications have been updated to include details for the addition of a beach access trail, which involves the installation of a pedestrian bridge crossing Trout Brook. The beach access trail is planned to be located at the south end of the campground (Figure 1), with switchbacks and a bridge crossing to accommodate the steep slopes in this area and provide safe access to the beach area. Diagrams providing the specifications for the trail and bridge are provided in Appendix I.



Figure 1. Aerial view of trout Brook Campground with approximate location of proposed beach access trail with pedestrian bridge.

## ADDITIONAL MITIGATION MEASURES

The valued environmental components, potential effects, and mitigation measures outlined in the 2016 Basic Impact Analysis (BIA) continue to be applicable to this project; however, given the updated scope of work, the following additional mitigation measures are noted specifically with respect to the construction of the trail and pedestrian bridge for beach access:

### ***Project Planning***

1. Project activities will comply with the *Fisheries and Oceans Canada (DFO) Measures to Protect Fish and Fish Habitat* (Appendix II).
2. Complete work in and around waterbodies during the summer low flow period (June 1 to September 30).
3. Clearly identify the sensitive features specific to the site and adapt the project design and schedule accordingly.



### ***General Project Activities***

4. Use no treated wood (as creosote) that will, once installed, be permanently or seasonally in direct contact with any body of water.
5. Use natural materials and environmentally-friendly finishes (i.e., paints and stains) and products whenever possible.
6. Petrochemical products, paints, or other chemicals must be stored a minimum of 30 m away from waterbodies.
7. Any spills must be contained and cleaned-up as soon as it is possible to safely do so. Spills must be reported immediately to the designated Parks Canada staff.
8. Should conditions at the work site indicate that there are unforeseen negative impacts to fish, wildlife, cultural resources, or visitor experience resources, all work shall cease immediately, and designated Parks Canada staff should be consulted to determine next steps.
9. Minimize the extent and duration of work within watercourses and bank areas as much as possible.
10. Debris should not be allowed to enter waterbodies and must be retrieved to the extent possible if it does.
11. If cultural resources are encountered, work must cease in the immediate area, the site secured, and the designated Parks Canada staff contacted for further direction.
12. Follow designed layout for the trail and ensure that natural drainage patterns are preserved.

### ***Equipment Operations***

13. Equipment should be properly tuned, clean and free of contaminants, in good operating order, free of leaks, and fitted with standard air emission control devices.
14. Select equipment appropriate to the nature of work being conducted (e.g., avoid using large scale machinery when hand tools or smaller scale machinery could be used).
15. Whenever possible, operate machinery on land above the high-water mark (HWM).
16. If necessary, the crossing of any water body by construction equipment, or the use of such equipment within waterbodies must be approved by designated Parks Canada staff. If approved:
  - Consult with Parks Canada staff prior to conducting these activities to determine single entry and exit points for any watercourse crossings
  - Use small scale equipment
  - Protect access points
  - Locate crossings at straight sections of the watercourse, perpendicular to the bank, whenever possible
  - Limit crossing to a one-time event (i.e., over and back).



17. Any required cleaning of tools and equipment should be done off-site, in an appropriate area located at least 30 m from a waterbody.
18. Machinery must be stored, maintained, and refuelled on a flat surface, and a minimum of 30 m from waterbodies, as measured from the HWM.
19. Use low pressure or rubber tracked equipment to minimize soil compaction and ground disturbance

### ***Vegetation***

20. Clearly identify the clearing zone and clear the minimum area necessary for project completion.
21. Retain a 30 m vegetated buffer from the HWM of waterbodies and a 15 m buffer from steep slopes. If clearing is required within the buffer zone, conduct minimal selective clearing by hand to ensure soil stability and prevent run off.
22. Minimize clearing in the HWM zone as much as possible to maintain vegetative buffer at the shoreline, cover, and windbreaks. When practical, prune or top vegetation instead of grubbing/uprooting.
23. Where vegetation has been removed/damaged, re-establish with native vegetation as soon as possible.
24. Keep excavations to a minimum to maintain vegetative cover.

### ***Erosion and Sediment Control***

25. Implement erosion and sediment control measures as appropriate.
26. Avoid soil-disturbing activities during periods with saturated soils, periods of high rainfall intensity, runoff, high winds, or wet snow. Temporarily stop work when wet ground conditions contribute to erosion and sediment transport.
27. Plan project activities to minimize soil handling and limit equipment movement over exposed soils and steep or unstable slopes prone to erosion.
28. Ensure rock, rip rap, or other materials placed on the banks or within the active channel or floodplain of the waterbody are inert and free of silt, overburden, debris, or other deleterious substances.
29. Excavated material and debris must be stored in a stable area, above the high-water mark or active floodplain, and, where possible, 15 m from drainage features and/or the top of steep slopes. Protect excavated material from re-entering the waterbody.



## SIGNIFICANCE OF RESIDUAL ADVERSE EFFECTS


As concluded in the 2016 BIA, when implementing the proposed mitigation measures, the lasting environmental impacts are considered to be minimal with no significant residual environmental effects.

## DECISION

Taking into account the implementation of mitigation measures outlined in the 2016 BIA and this BIA Addendum, the project is considered:

- ☒ not likely to cause significant adverse environmental effects.  
☐ likely to cause significant adverse environmental effects.

## APPROVAL

<b>Prepared by:</b>  Angie Ricketts Resource Management Officer – Impact Assessment	<b>Date:</b>  May 22, 2020
<b>Reviewed by:</b>  Archie Doucette Impact Assessment Specialist	<b>Date:</b>  May 25, 2020
<b>Approval signature:</b> Name & position ( <i>Field Unit Superintendent</i> ):  Rob Howey A/Site Superintendent 	<b>Date:</b>  June 1, 2020

## ATTACHMENTS

APPENDIX I – Site Plans

APPENDIX II – DFO Measures to Protect Fish and Fish Habitat

## **APPENDIX I**

### Site Plans



NOTES:

- ALL DISTURBED AND EXPOSED AREAS SHALL BE REINSTATED WITH MINIMUM 150mm TOPSOIL AND HYDROSEED. SEE DRAWING L-101.
- INSTALL 2.0m WIDE TYPE 1 GRAVEL STRIP AT END OF PARKING STALLS. SEE DETAIL 3 ON THIS DRAWING.
- CAMP SITES, OTENTIKS AND MICRO CUBES CONSTRUCTION TO BE COMPLETED BY PARKS CANADA. EXISTING PATHWAYS ARE 80% COMPLETE AND REQUIRE FINAL PLACEMENT OF TYPE 1 AS DIRECTED BY PARKS.
- AREA OF EXISTING PATH INDICATED ON PLAN TO BE REGRADED TO EVEN SLOPE OF PATH TO A MAXIMUM 10% OR AS DIRECTED BY PARKS.
- ASPHALT APRON TO BE MAINTAINED OR REINSTATED AS PER DEPARTMENTAL REPRESENTATIVE.
- ALL DIMENSIONS INDICATED ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. PIPE SIZES INDICATED ARE IN MILLIMETERS. ALL ELEVATIONS ARE GEODETIC.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK AND SHALL COMPLY WITH THE PERMIT REQUIREMENTS AND CONDITIONS.
- DRAWINGS HAVE BEEN PRODUCED USING LIDAR INFORMATION PROVIDED BY NATURAL RESOURCES CANADA AND SURVEY DATA BY STANTEC. CONTRACTOR TO CONFIRM EXISTING GRADES WITH GRADES PROVIDED ON DRAWINGS AND INFORM DEPARTMENTAL REPRESENTATIVE OF DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- MAINTAIN MINIMUM DISTURBANCE IN ALL AREAS.

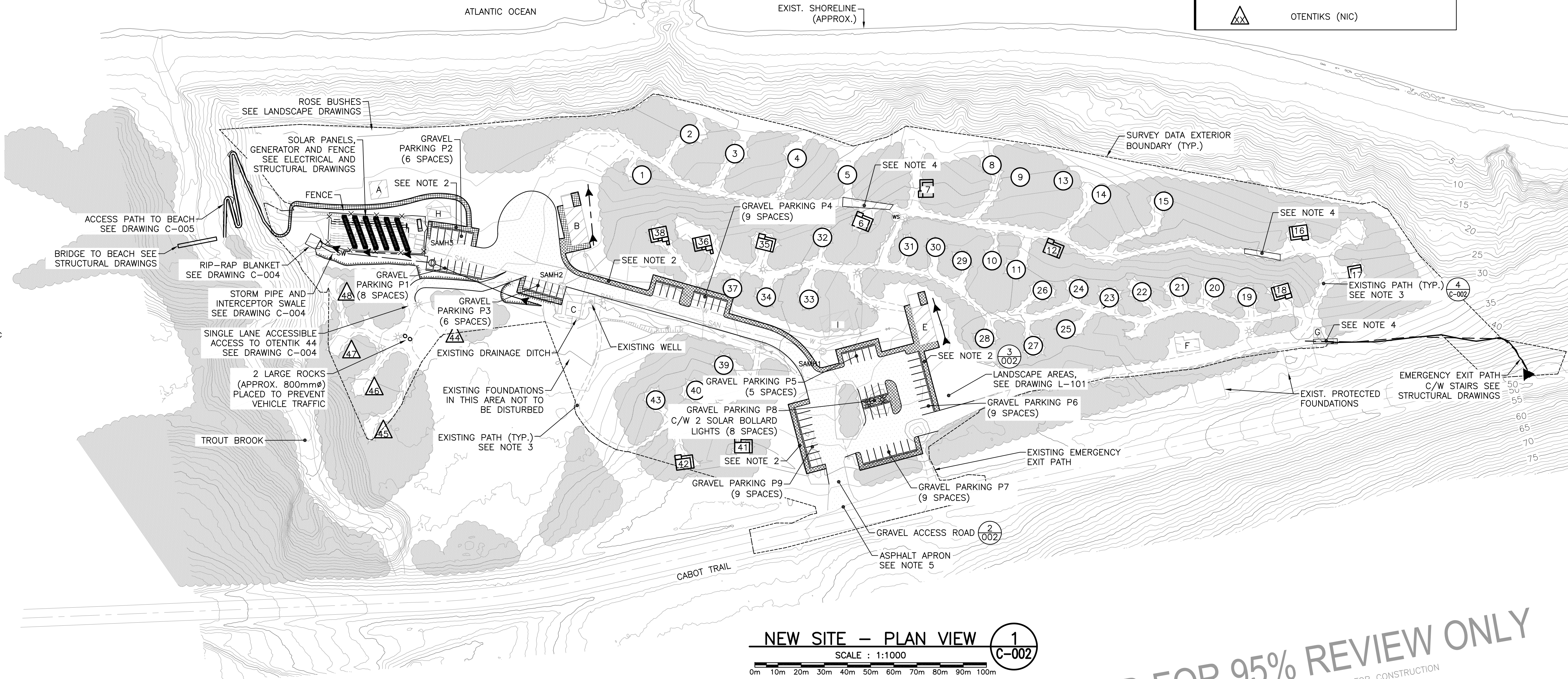
- CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO A CONDITION EQUAL OR BETTER THAN EXISTED BEFORE CONSTRUCTION.
- ONCE CONSTRUCTION IS COMPLETE, ALL SURFACES SHALL HAVE POSITIVE DRAINAGE WITHOUT PONDING.
- MAINTAIN SITE IN TIDY CONDITION FREE FROM ACCUMULATION OF WASTE PRODUCTS AND DEBRIS. UPON OBTAINING SUBSTANTIAL PERFORMANCE OF THE WORK, REMOVE SURPLUS PRODUCTS, TOOLS, MACHINERY AND EQUIPMENT FROM THE SITE. COMPLETION OF CLEANUP IS REQUIRED FOR TOTAL PERFORMANCE OF THE WORK.
- CONTRACTOR SHALL PROVIDE A RECORD INFORMATION PACKAGE CONSISTING OF REDLINE DRAWING MARK-UPS AND A FINAL SURVEY. FINAL SURVEY SHALL BE COMPLETED BY CONSTRUCTION SURVEYORS AT THE CONTRACTORS OWN EXPENSE AND SHALL INCLUDE LOCATES OF ALL ABOVE AND BELOW GRADE INFRASTRUCTURE CONSTRUCTED. SUBMITTAL OF THE FINAL SURVEY SHALL INCLUDE AUTOCAD FILE AND RAW POINTS DATA USING METRIC UNITS IN NAD83 (CSRS2010) UTM ZONE 20 AND CANADIAN GEODETIC VERTICAL DATUM (GGVD) 2013.
- CONTRACTOR MUST TRAVEL ON ROADS AND PATHS AS MUCH AS POSSIBLE. ANY DEVIATION FROM THESE SURFACES MUST BE APPROVED BY DEPARTMENTAL REPRESENTATIVE AND FULLY REINSTATED BY THE CONTRACTOR TO THE REQUIREMENTS OF THE DEPARTMENTAL REPRESENTATIVE.
- EXISTING FOUNDATIONS MAY BE PRESENT IN AREAS ON THE SITE. EXACT LOCATIONS TO BE COORDINATED WITH THE DEPARTMENTAL REPRESENTATIVE. EXCAVATION AND CONSTRUCTION ACTIVITIES SHALL NOT DISTURB EXISTING FOUNDATIONS.

BUILDING DESCRIPTION LEGEND

- A NEW INTERPRETIVE CENTRE (BY OTHERS)
- B EXISTING WASHROOM AND KITCHENETTE SHELTER
- C EXISTING WATER TREATMENT BUILDING
- E EXISTING WASHROOM AND KITCHENETTE SHELTER
- F EXISTING PICNIC SHELTER
- G EXISTING PIT PRIVY
- H EXISTING KITCHEN SHELTER
- I FUTURE KIOSK (N.I.C.)

LEGEND

- EXISTING WATER SPIGOT
- EXISTING VALVE CHAMBER
- EXISTING WELL
- EXISTING SANITARY MANHOLE
- STORM MANHOLE
- EXISTING PATH
- WALKING PATH STRUCTURE
- GRAVEL ROAD/PARKING STRUCTURE
- BUILDING OUTLINE
- VEGETATION TO REMAIN
- MICRO CUBES (NIC)
- CAMP SITES (NIC)
- OTENTIKS (NIC)

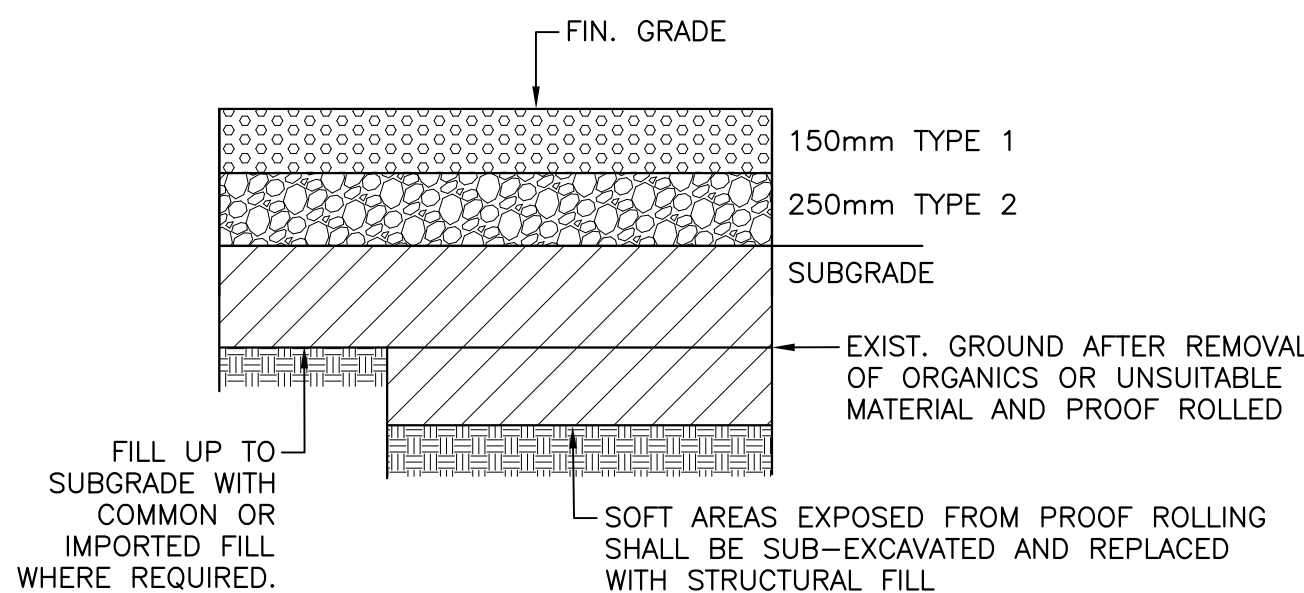


NEW SITE - PLAN VIEW

SCALE : 1:1000

1  
C-002

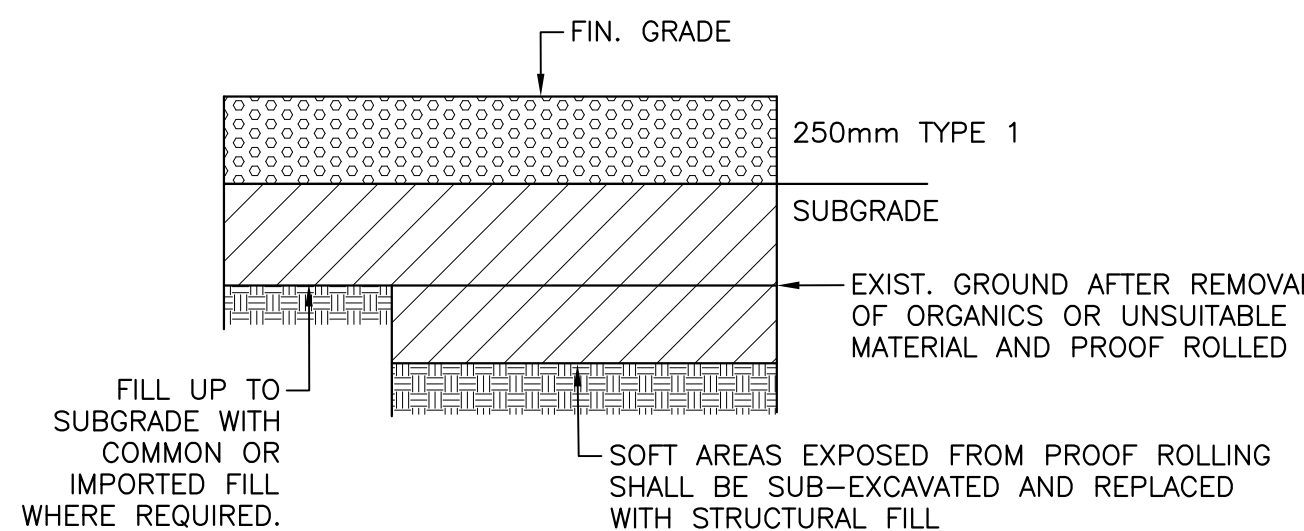
ISSUED FOR 95% REVIEW ONLY  
ISSUED FOR CLIENT REVIEW PURPOSES NOT FOR CONSTRUCTION



GRAVEL ROAD/PARKING STRUCTURE

2  
C-002

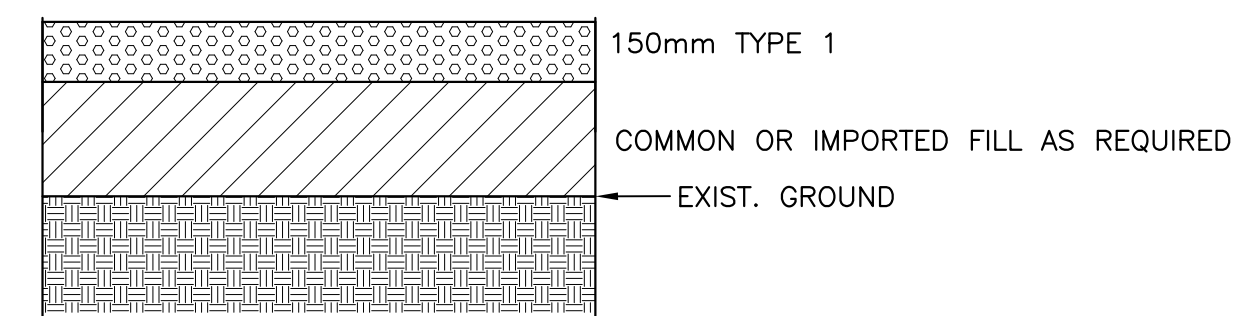
C-003/C-004



WALKING PATH STRUCTURE

3  
C-002

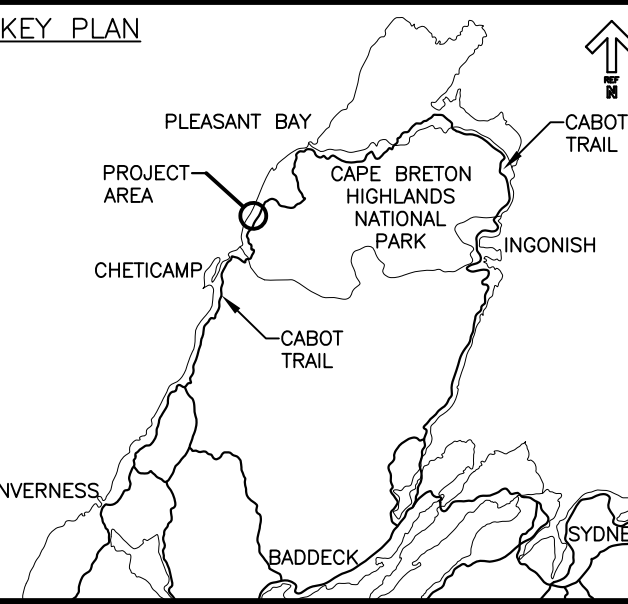
C-003/C-004



EXISTING PATH  
(SEE NOTE 3)

4  
C-002

C-003/C-004



C	ISSUED FOR 95% REVIEW	02/07/2020
B	ISSUED FOR 75% REVIEW	12/02/2019
A	ISSUED FOR 50% REVIEW	09/13/2019
revisions		date

project

PARKS CANADA  
TROUT BROOK  
CAMPGROUND  
PHASE 2

drawing

PROPOSED  
SITE PLAN

designed C.B. conçu

date 2019.09.13

drawn K.J. dessiné

date 2019.09.09

approved C.B. approuvé

date 2019.12.02

Tender Soumission

PCA Project Manager Administrateur de projets PCA

project number no. du projet

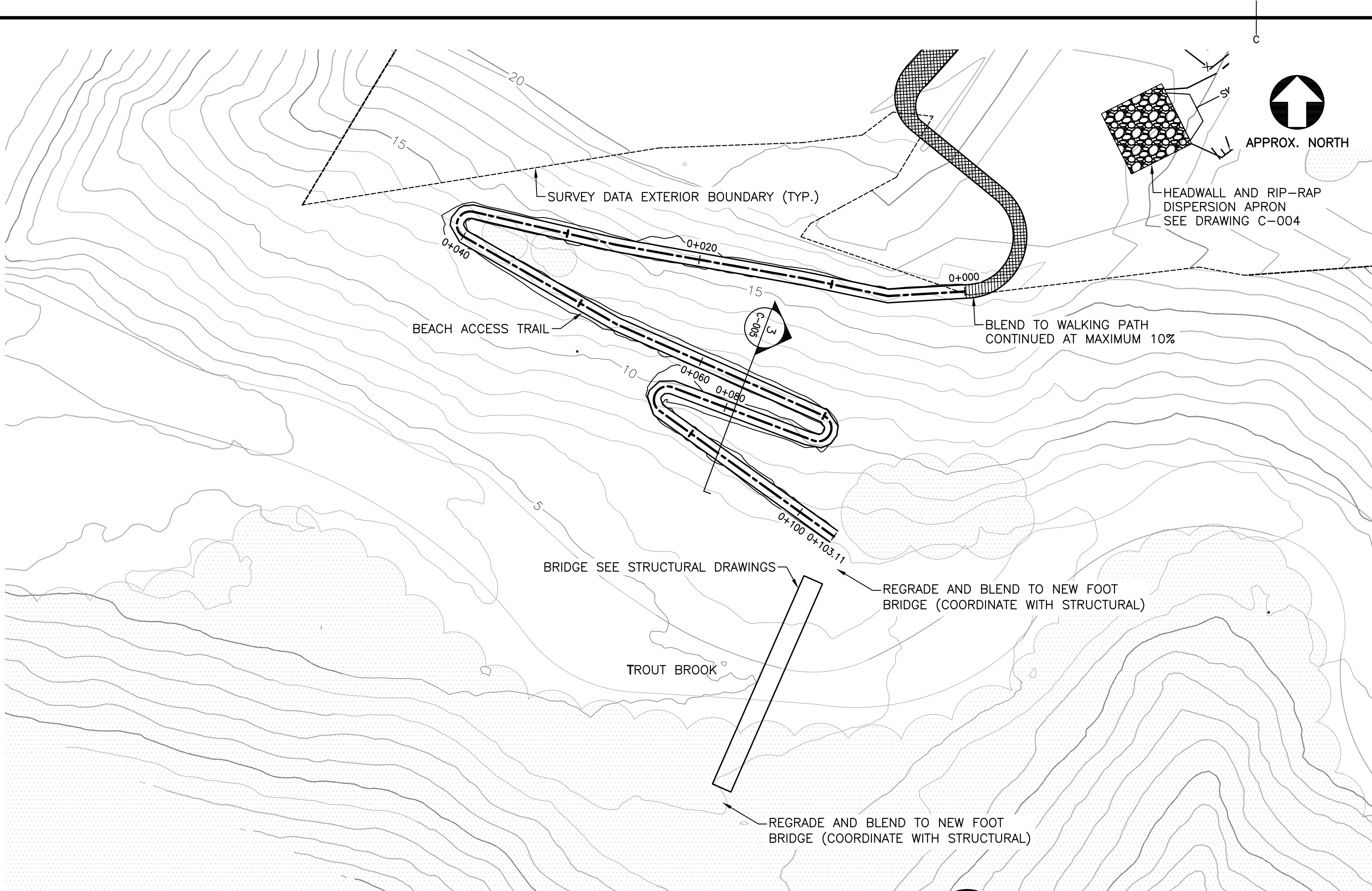
01092017

drawing no. no. du dessin

C-002



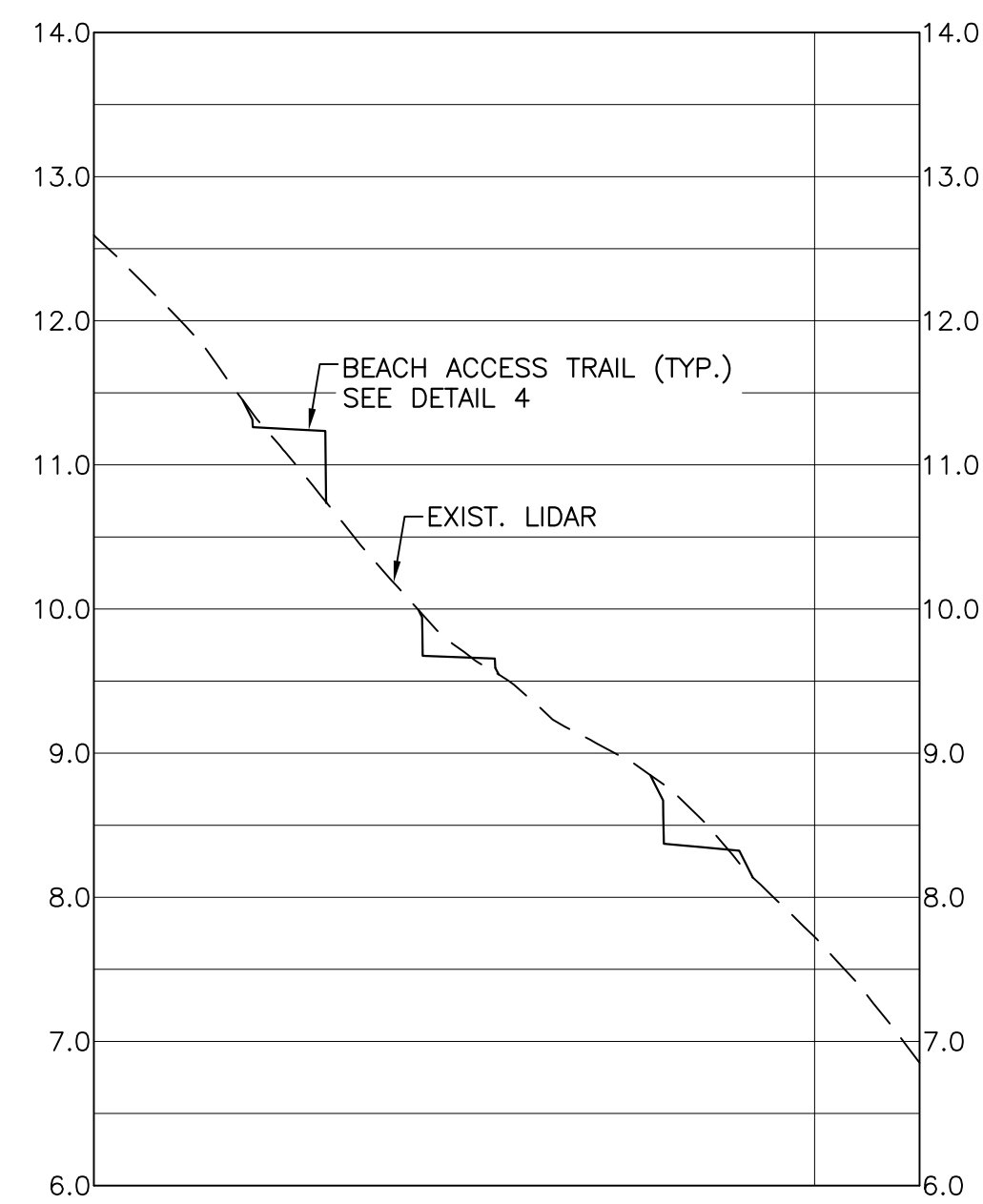
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BEACH ACCESS TRAIL — PLAN VIEW 1 C-006

SCALE: 1:250

0m 5m 10m 15m 20m 25m



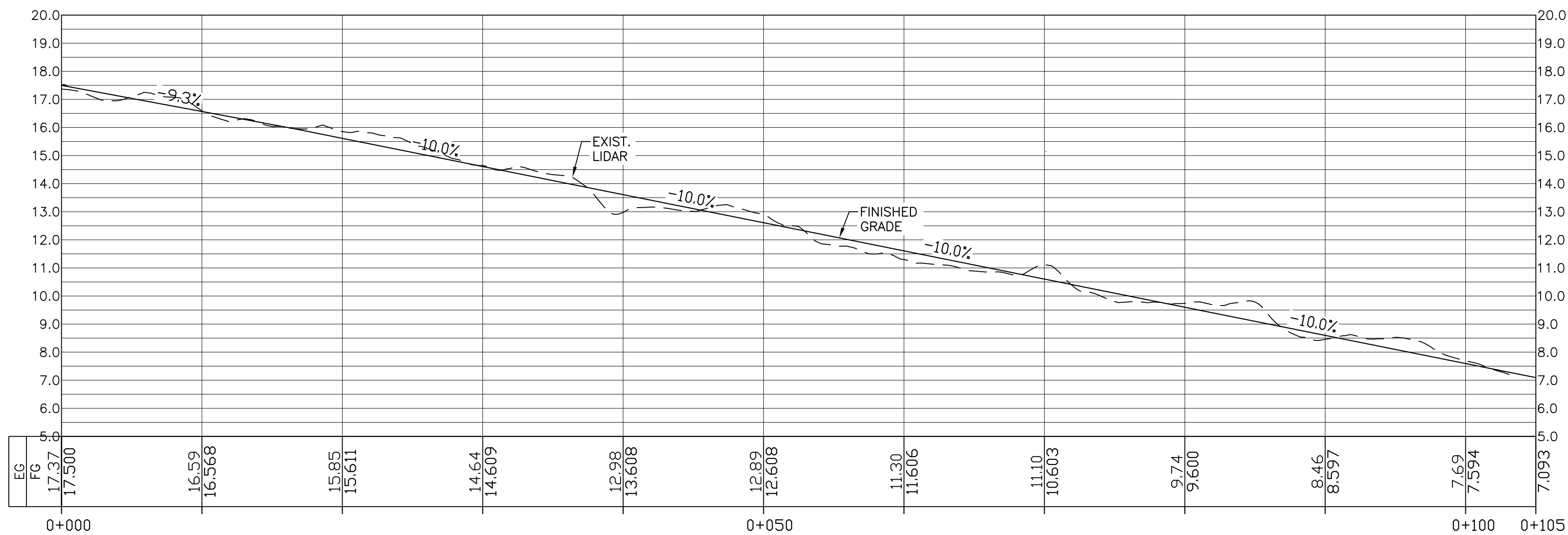
SECTION A 3 C-006

SCALE : H-1:100 V-1:50

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

ISSUED FOR 95% REVIEW ONLY

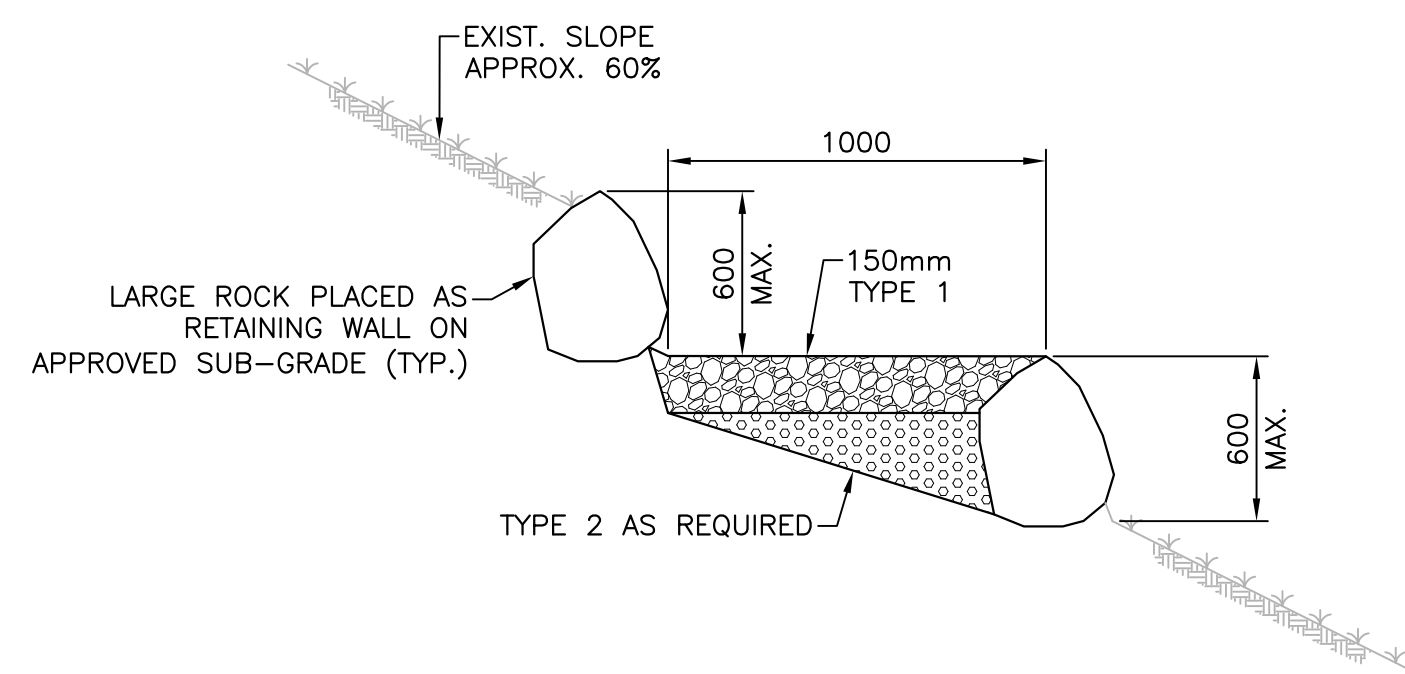
ISSUED FOR CLIENT REVIEW PURPOSES NOT FOR CONSTRUCTION



BEACH ACCESS TRAIL — PROFILE VIEW 2 C-006

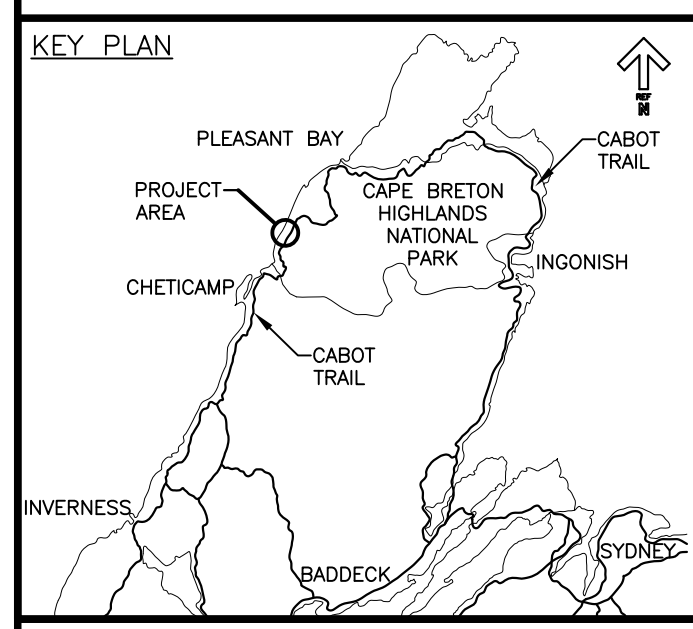
SCALE: H-1:250 V-1:125

0m 5m 10m 15m 20m 25m



BEACH ACCESS TRAIL DETAIL 4 C-006

SCALE : N.T.S.



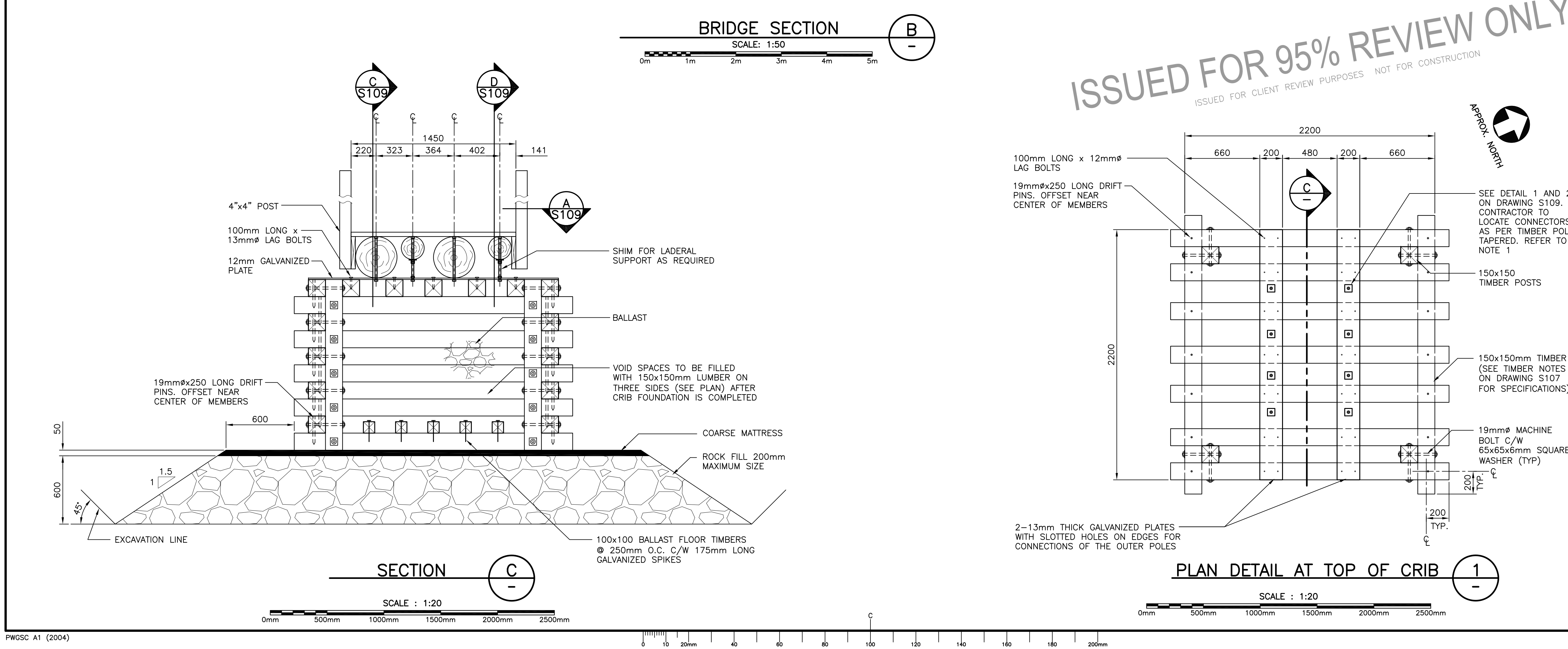
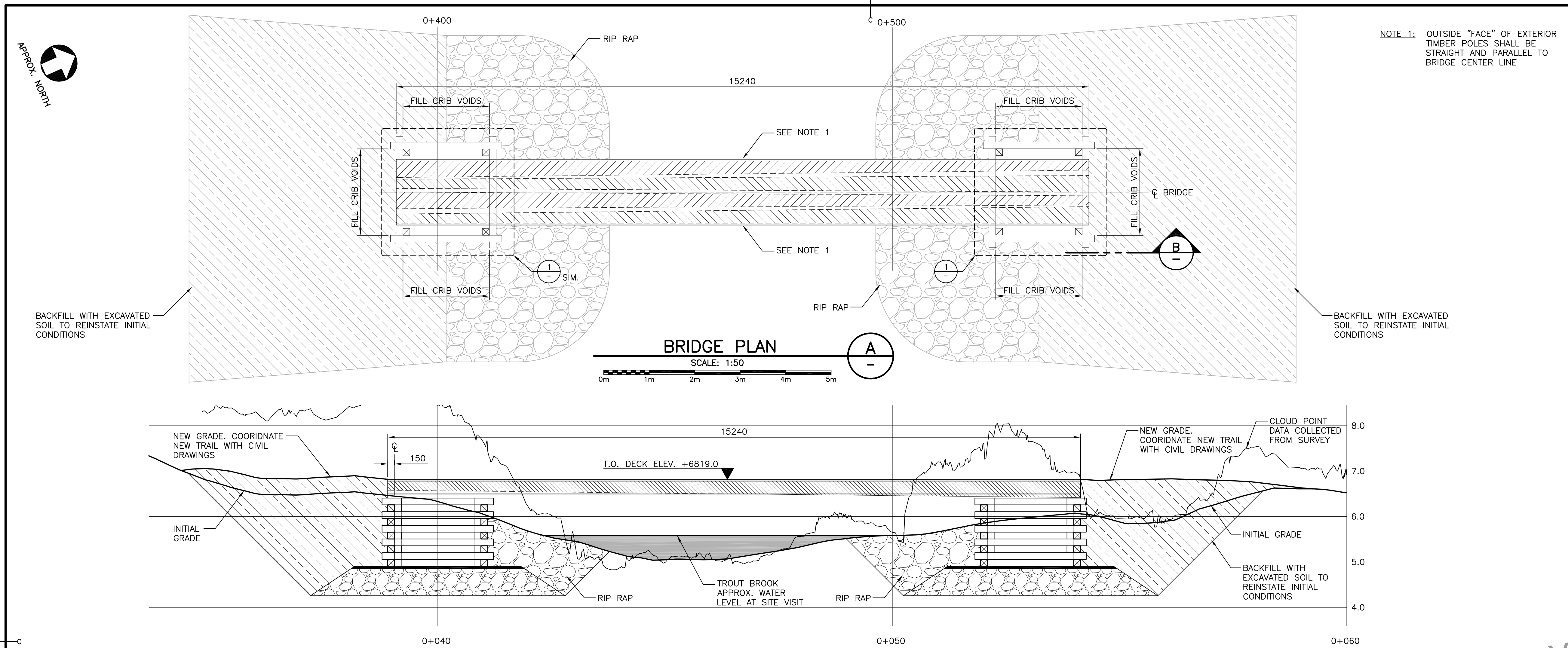
B	ISSUED FOR 95% REVIEW	02/07 2020
A	ISSUED FOR 75% REVIEW	12/02 2019
revisions		date

project PARKS CANADA TROUT BROOK CAMPGROUND PHASE 2

drawing BEACH ACCESS TRAIL PLAN, PROFILE AND SECTIONS

designed C.B.	conçu
date 2019.11.10	
drawn K.J.	dessiné
date 2019.11.10	
approved C.B.	approuvé
date 2019.12.02	
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number 01092017	no. du projet
drawing no. C-005	no. du dessin





**KEY PLAN**

PRIME:  
STANTEC CONSULTING LTD.  
102 - 40 HIGHFIELD PARK DRIVE  
DARTMOUTH, NS B3A 0A3  
WWW.STANTEC.COM  
STANTEC NO. 133348246

ARCHITECT:  
STANTEC ARCHITECTURE LTD.  
102 - 40 HIGHFIELD PARK DRIVE  
DARTMOUTH, NS B3A 0A3

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**NOTE:**  
FOUNDATION PACKAGE ALREADY INSTALLED (N.I.C.)

B	ISSUED FOR 95% REVIEW	FEB 07 2020
A	ISSUED FOR 75% REVIEW	DEC 02 2019
revisions		date
project		projct

**PARKS CANADA  
TROUT BROOK  
CAMPGROUND -  
BUILDING PACKAGE  
PHASE 2**

**STRUCTURAL  
BRIDGE  
PLANS AND SECTIONS**

designed	N.GUY	conçu
date	2019.07.08.	
drawn	P.LARISEY	dessiné
date	2019.07.08.	
approved	N.GUY	approuvé
date	2019.07.08.	
Tender		Soumission
PWGCSC Project Manager	Administrateur de projets TPSCG	
project number	no. du projet	
<b>R.01092017</b>		
drawing no.	no. du dessin	
<b>S108</b>		

E-DRM/GDD-E:

## **APPENDIX II**

DFO Measures to Protect Fish and Fish Habitat



Fisheries and Oceans Canada

Home → Aquatic ecosystems → Projects near water

# Measures to protect fish and fish habitat

Comply with the fish and fish habitat protection provisions of the *Fisheries Act* by incorporating measures to avoid:

- causing the death of fish
- harmful alteration, disruption or destruction of fish habitat in your work, undertaking or activity

Works, undertaking or activities where impacts to fish and fish habitat can be avoided if you can follow the measures to protect fish and fish habitat include:

- clear span bridges
- bridge maintenance
- on-land mineral exploration activities
- decking repairs for docks, piers, wharves and bridges

You're responsible for reviewing the complete list of measures and implementing those that are applicable to your work, undertaking or activity. If you can't completely implement the protection measures, [check if your project needs a review](#).

## Prevent the death of fish

You can prevent the death of fish by:

- avoiding killing fish by means other than fishing
- avoiding using explosives in or near water
- planning in water work, undertaking or activity to respect timing windows to protect fish, including:
  - their eggs
  - juveniles
  - spawning adults
  - the organisms upon which they feed and migrate

## Maintain riparian vegetation

Measures to maintain riparian vegetation include:

- maintaining an undisturbed vegetated buffer zone between areas of on-land activity and the high water mark of any water body
- using existing trails, roads or cut lines wherever possible



- avoiding tree removal
- using methods to prevent soil compaction, such as swamp mats or pads

## Carry out works, undertakings and activities on land

You can prevent the harmful alteration, disruption or destruction of fish habitat by avoiding:

- conducting any work, undertaking or activity in water
- placing fill or other temporary or permanent structures below the high water mark
- fording of the watercourse
- disturbing or removing materials from the banks, shoreline or waterbody bed, such as:
  - sand
  - rocks
  - aquatic vegetation
  - natural wood debris
- building structures in areas that:
  - may result in erosion and/or scouring of the stream bed or banks
  - are inherently unstable, like:
    - bends
    - meanders
    - floodplains
    - alluvial fans
    - braided streams

## Maintain fish passage

Maintain fish passage by avoiding:

- changing flow or water level
- obstructing or interfering with the movement and migration of fish

## Ensure proper sediment control

Ensure proper sediment control by:

- avoiding introducing sediment in the water, like:
  - silts
  - clays
  - sands
- developing and implementing an erosion and sediment control plan
  - installing effective erosion and sediment control measures to stabilize all erodible and exposed areas

- regularly inspecting and maintaining the erosion and sediment control measures during all phases of the project
- keeping the erosion and sediment control measures in place until all disturbed ground has been permanently stabilized
- installing settling basin and/or filtration system for water flowing onto the site and water being pumped or diverted from the site, including:
  - holding back runoff water until suspended sediment has resettled in the settling basin and runoff water is clear
  - dewatering gradually to prevent sediment resuspension and bank destabilization
- disposing of and stabilizing all excavated material above the high water mark or top of bank of nearby waterbodies and ensuring sediment re-entry to the watercourse is prevented
- heeding weather advisories and scheduling work to avoid wet, windy and rainy periods that may result in high flow volumes and/ or increase erosion and sedimentation
- regularly monitoring the watercourse for signs of sedimentation during all phases of the work, undertaking or activity and taking corrective action if required
- using biodegradable erosion and sediment control materials whenever possible and removing all exposed non-biodegradable erosion and sediment control materials once site is stabilized
- operating machinery on land in stable dry areas
- stopping work and containing sediment-laden water to prevent dispersal
- installing temporary clear span bridges to accommodate expected high water flows and to not damage erodible banks
- limiting the impacts to stream or shoreline banks

## Prevent entry of deleterious substances in water

Prevent entry of deleterious substances in water by:

- avoiding depositing any deleterious substances in the watercourse
- developing a response plan to be implemented immediately in the event of a spill of a deleterious substance
- keeping an emergency spill kit on site
- stopping work and containing deleterious substances to prevent dispersal
- reporting any spills of sewage, oil, fuel or other deleterious material whether near or directly into a water body
- ensuring clean-up measures are suitably applied so as not to result in further alteration of the bed and/or banks of the watercourse
- cleaning up and appropriately disposing of the deleterious substances
- planning activities near water such that materials and chemicals don't enter the watercourse, including:
  - grout
  - paint
  - primers

- degreasers
  - rust solvents
  - poured concrete
  - blasting abrasives
  - or other chemicals
- maintaining all machinery on site in a clean condition and free of fluid leaks to prevent any deleterious substances from entering the water
- washing, refueling and servicing machinery and store fuel and other materials for the machinery in such a way as to prevent any deleterious substances from entering the water
- disposing all waste materials (including construction, demolition, excavation, commercial logging) above the high water mark of nearby waterbodies to prevent entry
- ensuring that building material used in a watercourse is handled and treated in a manner to prevent the release or leaching of substances into the water that may be deleterious to fish

## Related links

- [2019 changes to the \*Fisheries Act\*](#)
- [Request a review of your project near water](#)
- [Standards and codes of practice](#)

### Date modified:

2019-08-28