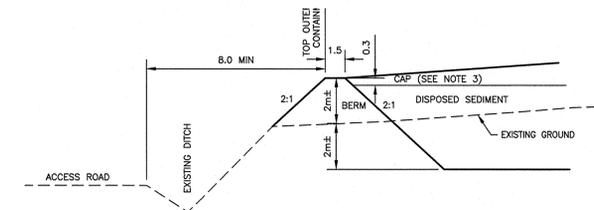
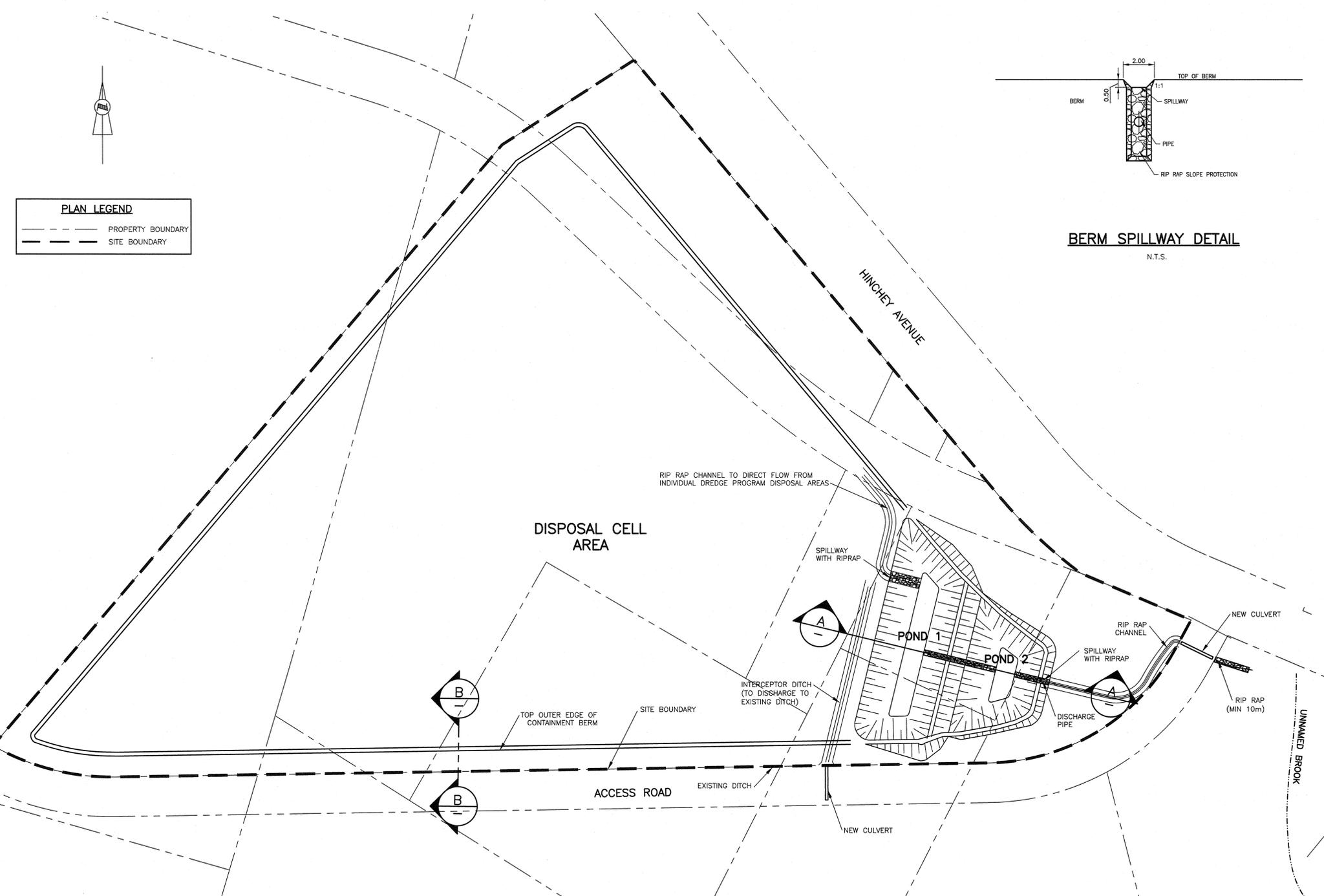


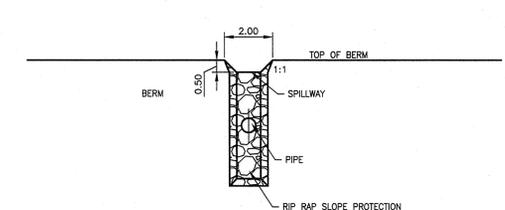
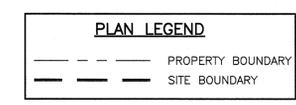
SECTION A-A
N.T.S.



SECTION B-B
TYPICAL DISPOSAL CELL BERM DETAIL
N.T.S.



SITe PLAN
SCALE = 1:750



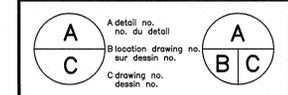
BERM SPILLWAY DETAIL
N.T.S.

This Design Drawing should be read in conjunction with the report Site Management Plan, Disposal Site for Dredged Spoils, Lingan, Nova Scotia, prepared by Stantec Consulting Ltd. for PWGSC, dated Nov. 6, 2014.

Notes:

- The liner for the Settling Ponds will consist of Bentomat geosynthetic clay liner or equivalent, with a minimum permeability of 1 X 10⁻⁵ cm/sec.
- The top of berm elevation for Settling Pond 1 will be 30.5 metres and for Settling Pond 2 will be 27.5 metres.
- Permanent fencing should be installed around the Settling Ponds, at the outside toe of the berm slope, with a lockable 2.4 metre wide gate.
- The cap on disposed sediments should have a minimum thickness of 0.3 metres, and should be graded to slope downwards towards the external berms, i.e. those around the perimeter of the Disposal Cell Area.
- Internal berms in the Disposal Cell Area will be created for each dredging program, and will have the same construction as the external berms.
- Internal and external berms should be constructed to have a top elevation that is 2 metres above existing grade. The only exception will be an overflow spillway with an elevation 0.5 metres below the general berm top elevation, located on the side closest to the Settling Pond. The spillway should be 2 metres wide and surfaced with gravel. The slope of the berm below the spillway should also be surfaced with gravel. A Berm Spillway Design is provided for the Settling Ponds, and the spillway for each dredging program disposal area should follow the same design (without the culvert).
- Temporary ditching should be created from the base of the internal berm (at the spillway location) to the inlet location into Settling Pond 1 (at the northern corner of the pond). This ditching should have gravel base and sides, and sedimentation control structures installed every 50 metres of length. Sedimentation control should consist of hay bales, with a geotextile fabric covering on the upgradient side, staked to prevent movement.
- The ditch from the outlet culvert from Settling Pond 2 to the culvert under the access road (eastern culvert) should also have rip rap sides and base, and sedimentation control as detailed in Item 7 above.
- The ditch along the western side of Settling Pond 1 should direct general surface flow (outside the individual dredge disposal program areas) from the site to the ditch along the north side of the access road, before the western culvert under the access road.
- Culverts from Settling Pond 1 to Settling Pond 2, and from Settling Pond 2 to the rip rap channel should have an elbow on the upgradient end.
- The culverts under the access road should extend a minimum of 1 metre beyond the toe of the access road embankment on both sides of the road.

revisions	date



project **LINGAN** project

drawing **DISPOSAL CELL DESIGN** dessin

designed MD	conçu
date DEC. 05, 2014	
drawn BSP	dessiné
date DEC. 05, 2014	
approved	approuvé
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Tender	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC
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101	