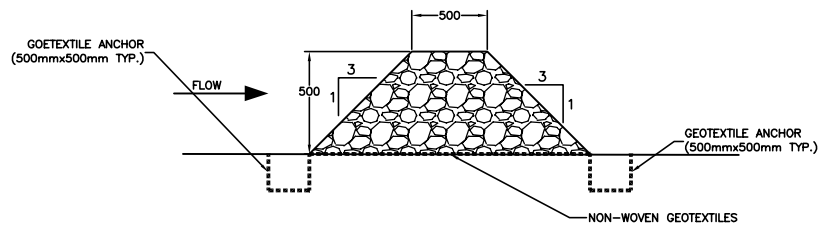


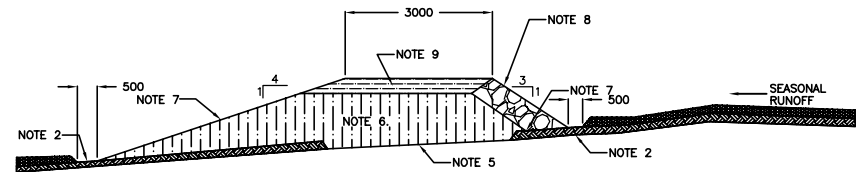
PLOT DATE: 20 April 2008 PLOT BY: SUMMERS, MATTHEW

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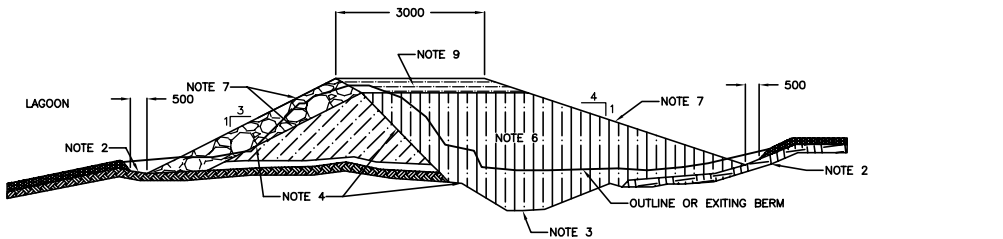
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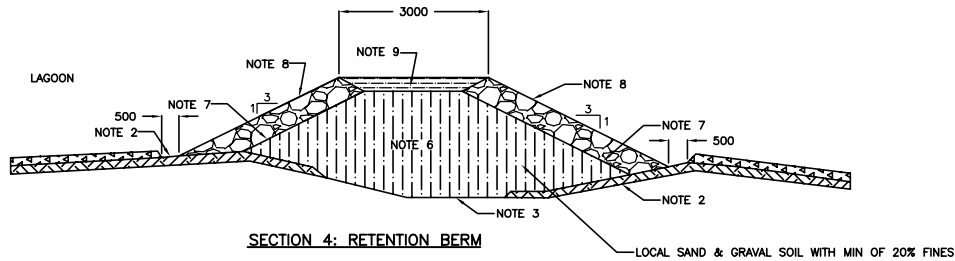
SECTION 1: WETLAND FLOW CONTROL BERM



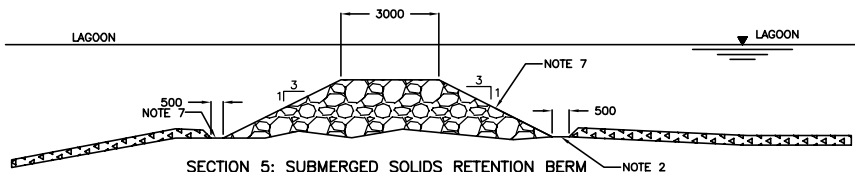
SECTION 2: TYPICAL RUNOFF CONTROL & DIVERSION BERM



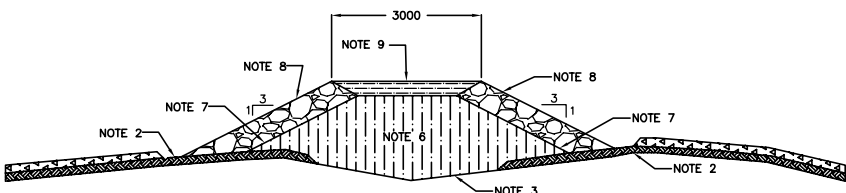
SECTION 3: SUPPLEMENTARY RETENTION BERM



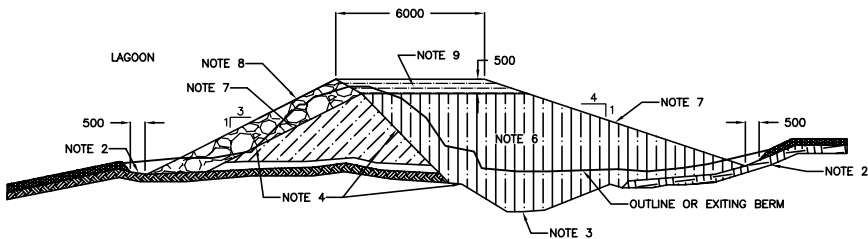
SECTION 4: RETENTION BERM



SECTION 5: SUBMERGED SOLIDS RETENTION BERM



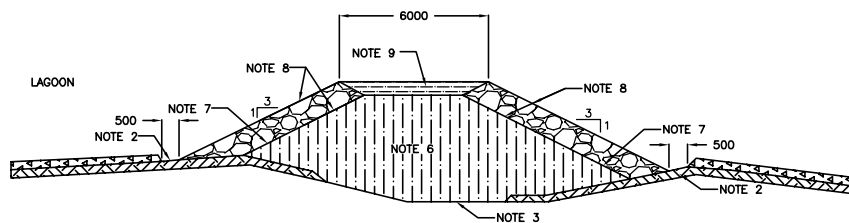
SECTION 6: ISOLATION AND DIVERSION BERM



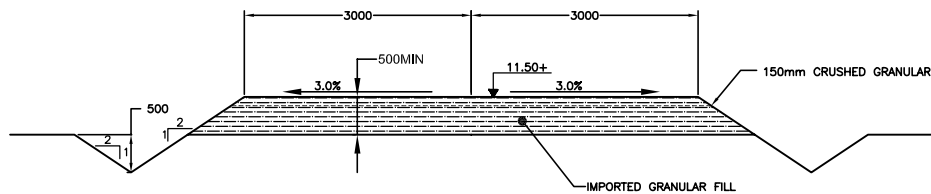
SECTION 7: SUPPLEMENTARY RETENTION BERM WITH ACCESS ROAD TO DECANT LOCATION

NOTES:

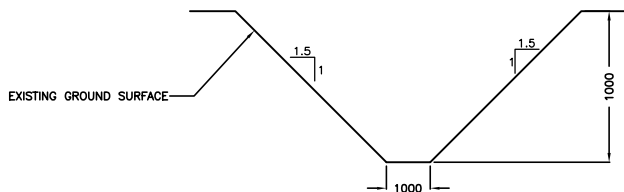
1. ESTABLISH CENTER AND PERIMETER DIMENSIONS OF PROPOSED BERM.
2. REMOVE ALL SURFACE ORGANICS TO A DISTANCE OF 0.5m BEYOND TOE OF BERM.
3. ESTABLISH CREST ALIGNMENT OF PROPOSED LOW PERMEABILITY BERM AND EXCAVATE A FURTHER 150mm DEPTH OR MORE TO A WIDTH EXTENDING 0.3m BEYOND THE EDGES OF THE CREST. REMOVE ALL COBBLES, BOULDERS AND COARSE GRAVEL AND EXPOSE NATIVE FINE GRAINED SOIL. PROOF ROLL AND COMPACT PREPARED SURFACE. ENSURE ALL REMNANTS OF FORMER DRAINAGE CHANNELS ARE REMOVED.
4. TRIM EXISTING BERMS TO A 1:1 SLOPE WHERE ADDITIONAL LOW PERMEABILITY LOCAL FILL IS TO BE PLACED OR TO 2H:1V WHERE RIP RAP MATERIAL IS TO BE PLACED. REUSE SUITABLE MATERIAL, DISPOSE OF OVERLY WET OR CONTAMINATED MATERIAL FROM BERMS. SUB EXCAVATE AT EXTERIOR EDGE OF EXISTING BERM IN AREA OF TP-2 TO REMOVE ALL BURNT DEBRIS FROM FORMER LANDFILL OPERATION FROM UNDER PROPOSED BERM CONSTRUCTION AREA.
5. REMOVE WATER FROM EXCAVATIONS THROUGH GRAVITY DRAINAGE OR PUMPING. WHERE INCOMING WATER PERSISTS, PLACE A MIXTURE OF 25% 'CLAY' (FROM BORROW AREA 1 OR 2) WITH 75% LOW PERMEABILITY LOCAL FILL AND TAMP INTO BOTTOM OF CLEANED EXCAVATION AFTER REMOVAL OF EXCESS WATER. REPEAT WITH ADDITIONAL LIFTS OF SIMILAR MATERIAL UNTIL 0.3m ABOVE THE LEVEL OF INCOMING WATER/LOCAL WATER TABLE. ALLOW THIS FILL TO STABILIZE UNTIL IT CAN SUPPORT THE PASSAGE OF A HALF LOADED DUMP TRUCK. IF NECESSARY, CUT A 3m WIDE TRENCH ALONG THE MIDDLE OF OVERLY WET CLAY FILL AND PLACE AND COMPACT ADDITIONAL CLAY FILL IN LIFTS TO ACHIEVE THIS OBJECTIVE. ADDITIONAL LIFTS OF LOCAL LOW PERMEABILITY FILL MATERIAL CAN THEN BE PLACED AND COMPACTED AS SPECIFIED.
6. USE LOCAL SAND AND GRAVEL SOIL (150mm MINUS MATERIALS SEE SPECIFICATION) WITH A MINIMUM OF 10% FINES TO CONSTRUCT CORE OF BERM IN MAXIMUM 0.3m THICK LIFTS. SCREEN OUT OVERSIZE MATERIAL AND USE FOR RIP RAP. COMPACT EACH LIFT TO 95% OF MAXIMUM STANDARD PRACOR DRY DENSITY AT 0% TO 2% ABOVE ITS OPTIMUM MOISTURE CONTENT.
7. ENDS OF BERM SHALL MEET WITH LOCAL TERRAIN. SLOPE SIDES OF FILL TO A MAXIMUM SLOPE OF 4H:1V WHERE SLOPE FACE IS NOT RIP RAPPED, AND TO A MAXIMUM SLOPE OF 3H:1V WHERE FACE IS RIP RAP.
8. ADD A 0.7m HORIZONTAL WIDTH OF RIP RAP MATERIAL TO ALL FACES EXPOSED TO STANDING OR RUNNING WATER AS INDICATED. RIP RAP SHALL CONSIST OF HARD ANGULAR ROCK WITH SIZES RANGING FROM 0.5m TO SAND WELL GRADED AND TAMPED INTO PLACE.
9. COVER CREST OF ABOVE WATER RETENTION BERMS WITH MINIMUM OF 0.3m THICK LIFT OF CRUSHED STONE WITH MINIMAL WIDTH OF 3m (CREST WIDTH).



SECTION 8: RETENTION BERM AND ROAD



SECTION 9: TYPICAL ROAD STRUCTURE



SECTION 10: WETLAND OPFM WATER SECTION

LEGEND

	ORGANIC GROUND COVER
	GRANULAR SURFACE ROCK
	SILTY SAND & GRAVEL
	RIP RAP ROCKFILL
	CRUSHED STONE
	EXISTING GROUND

Stamp

A	2008 04/21	ISSUED FOR 95% SUBMISSION
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No. Date Description

REVISIONS



Design M.Y. \ K.R.J.

Drawn M.D.S.

Project Title

Government of Nunavut
Cambridge Bay
Waste Facilities

Drawing Title

SCHEMATIC
DETAILS OF
BERM
STRUCTURES

Scale:
NOT TO SCALE

Project No.
91011

Date
08/04/21

Drawing No.
C-06

Revision
A