

# Défense nationale.

# DEW LINE CLEAN UP PROJECT

		DRA	WING INDEX		
DRAWING No.	TITLE	DRAWING No.	TITLE	DRAWING No.	TITLE
SITING		SITING	L	STRUCTURAL	
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H-B233/1-9101-102	PROJECT LAYOUT SHEET 1	MAIN LANDELL CROSS SECTION		H-B233/1-9101-202	BEACH AREA AND HEATED VEHICLE STORAGE AREA DEMOLITION SITE PLANS
H-B233/1-9101-102A	PROJECT LAYOUT SHEET 2	H-B233/1-9101-116	TIER II DISPOSAL FACILITY KEY TRENCH EXCAVATION PLAN & GRADING/INSTRUMENTATION PLAN	H <del>-B233/1-9101-203</del>	WAREHOUSE PLAN AND SECTION
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H-B233/1-9101-105	MIDDLE SITE LANDFILL AREA SITE PLAN	H-8233/1-9101-119	AIRSTRIP AREA LANDFARM PLAN AND CROSS SECTION	H <del>-B233/1-9101-207</del>	ATWELL DORMITORY . PLAN, SECTION AND ELEVATION
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H-B233/1-9101-109A	CLOSED STATION AREA LANDFARM CROSS SECTION	H-B233/1-9101-124	MISCELLANEOUS DETAILS SHEET 1	H-B233/1-9101-213	HEATED VEHICLE STORAGE PLAN AND ELEVATIONS
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H-B233/1-9101-111	MAIN LANDFILL KEY TRENCH EXCAVATION PLAN	H-B233/1-9101-126	MISCELLANEOUS DETAILS SHEET 3	0.000	1
H <del>-8233/1-9101-112</del>	MAIN LANDFILL KEY TRENCH CENTRELINE PROFILE	H <del>-B233/1-9101-127</del>	FOX-4-CAPE HOOPER CONTAINER STORAGE AREA	© COPYRIGHT  HER MAJESTY THE QUEEN IN RIGHT OF CANADA 2013, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE.	
H-B233/1-9101-113	MAIN LANDFILL CROSS SECTION SHEET 1	H-B233/1-9101-128	BYE-M - CAPE-DYER CONTAINER STORAGE AREA		

NOTE:

THIS DRAWING PACKAGE HAS BEEN REVISED BASED ON INFORMATION SUPPLIED BY DEFENCE CONSTRUCTION CANADA IN 2006 AND 2011.

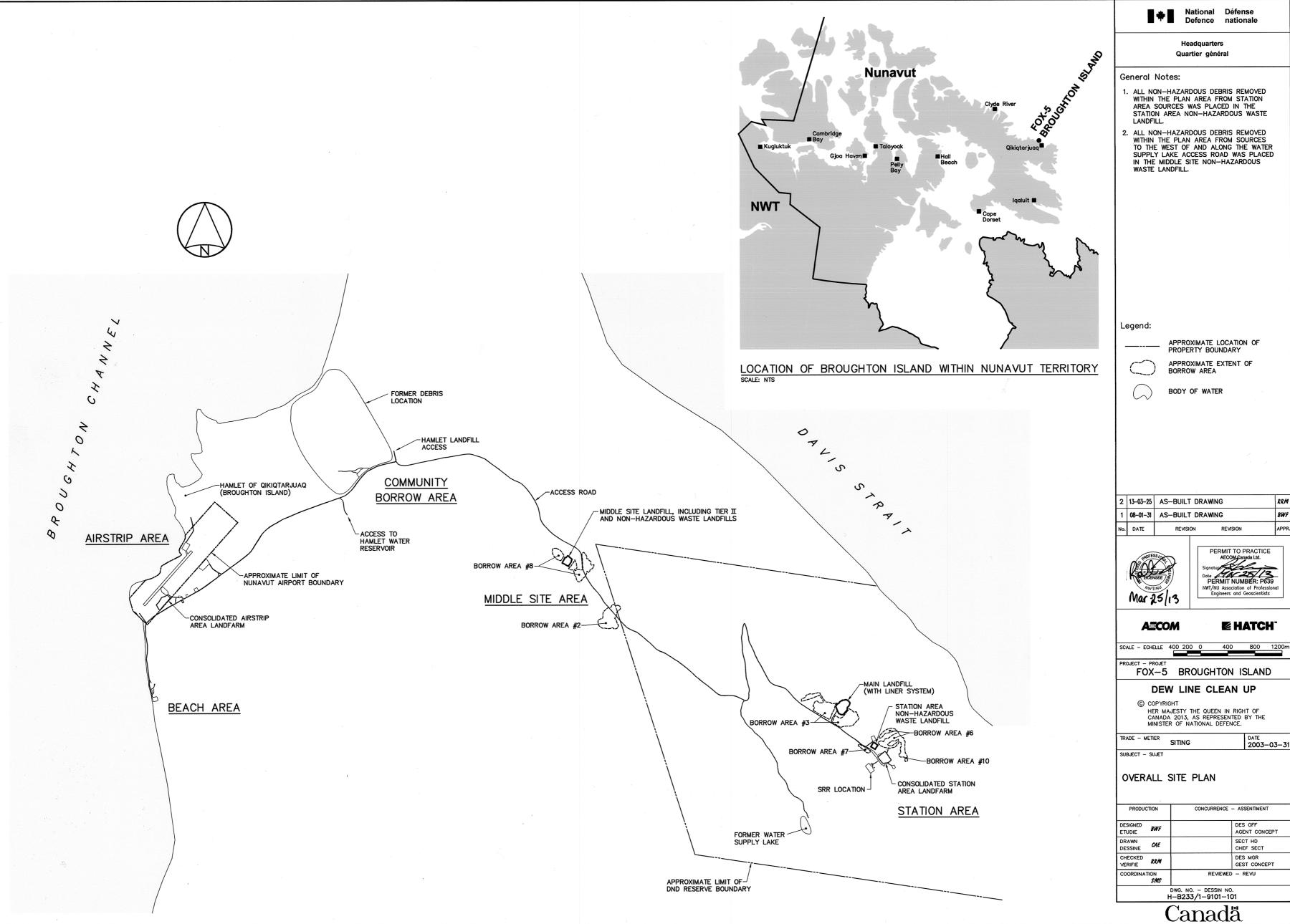


# FOX-5 BROUGHTON ISLAND AS-BUILT DRAWINGS

**A**ECOM

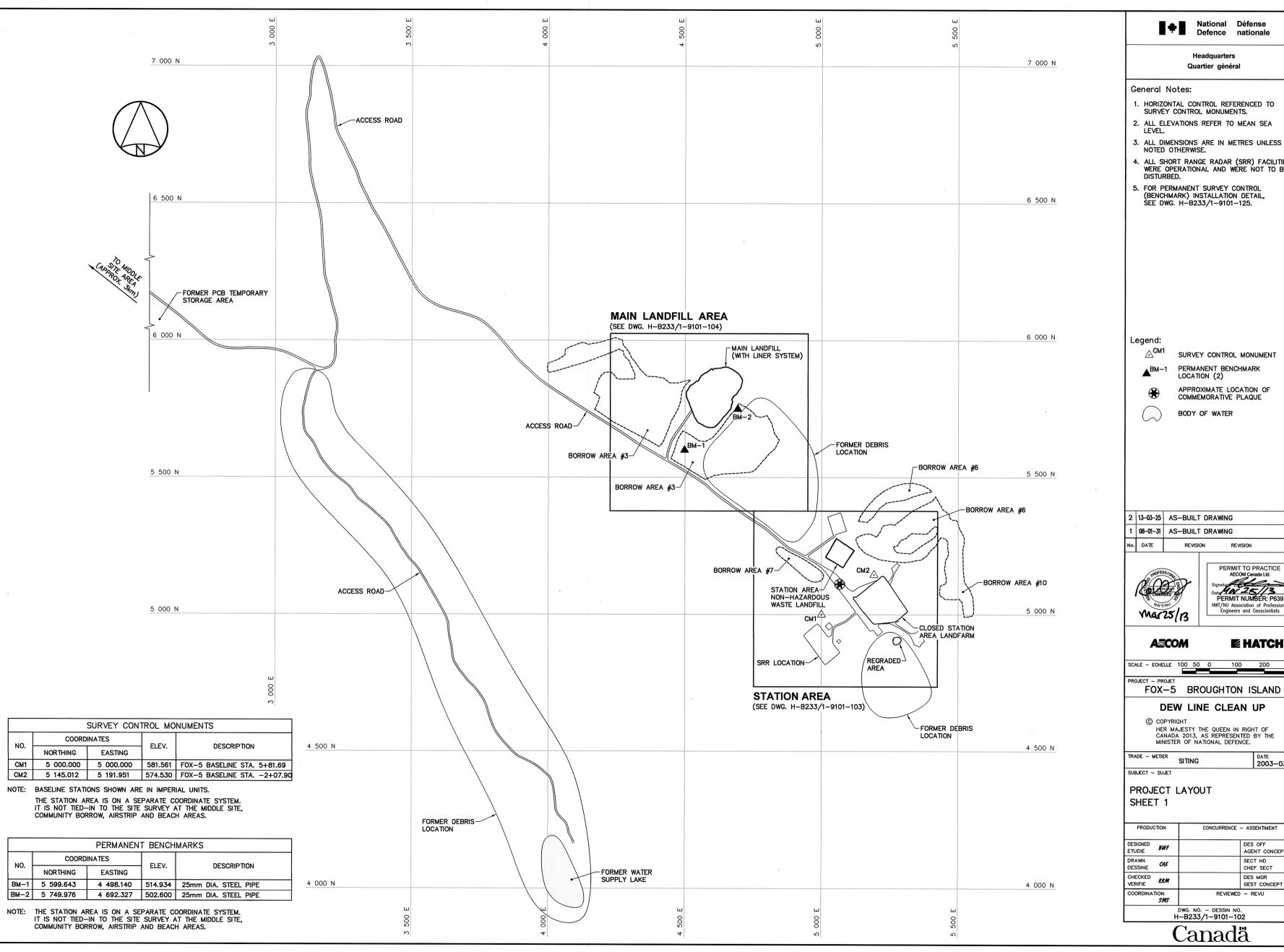


**MARCH, 2013** 



BWF

PRODUC	CTION	CONCURRENCE	- ASSENTIMENT
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINA	TION SMS	REVIEWED	- REVU
		DWC NO - DESSIN NO	1



- 1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.

- 4. ALL SHORT RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL AND WERE NOT TO BE DISTURBED.
- 5. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

SURVEY CONTROL MONUMENT

PERMANENT BENCHMARK LOCATION (2)

2 13-03-25 AS-BUILT DRAWING

PERMIT TO PRACTICE

**E HATCH** 

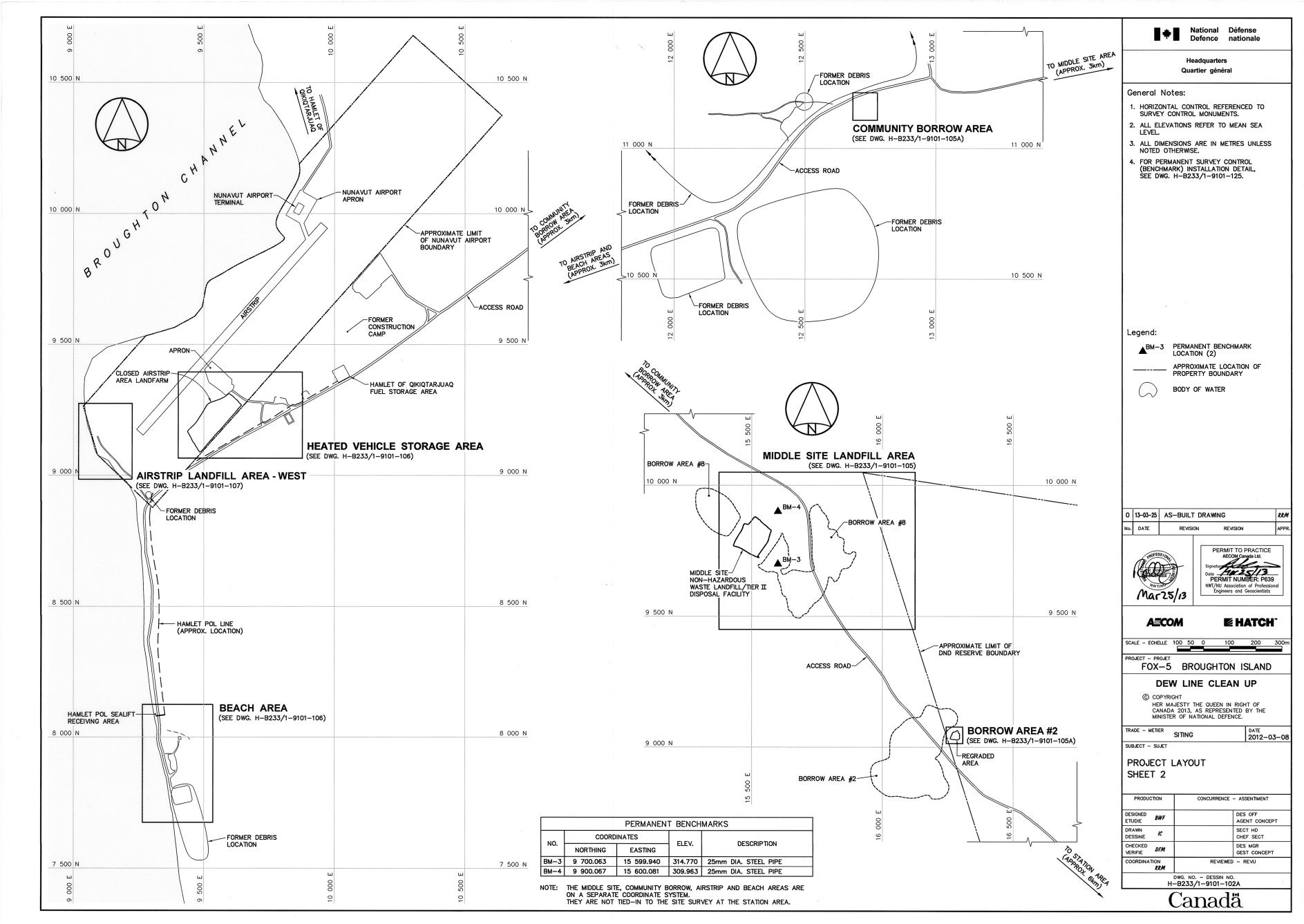
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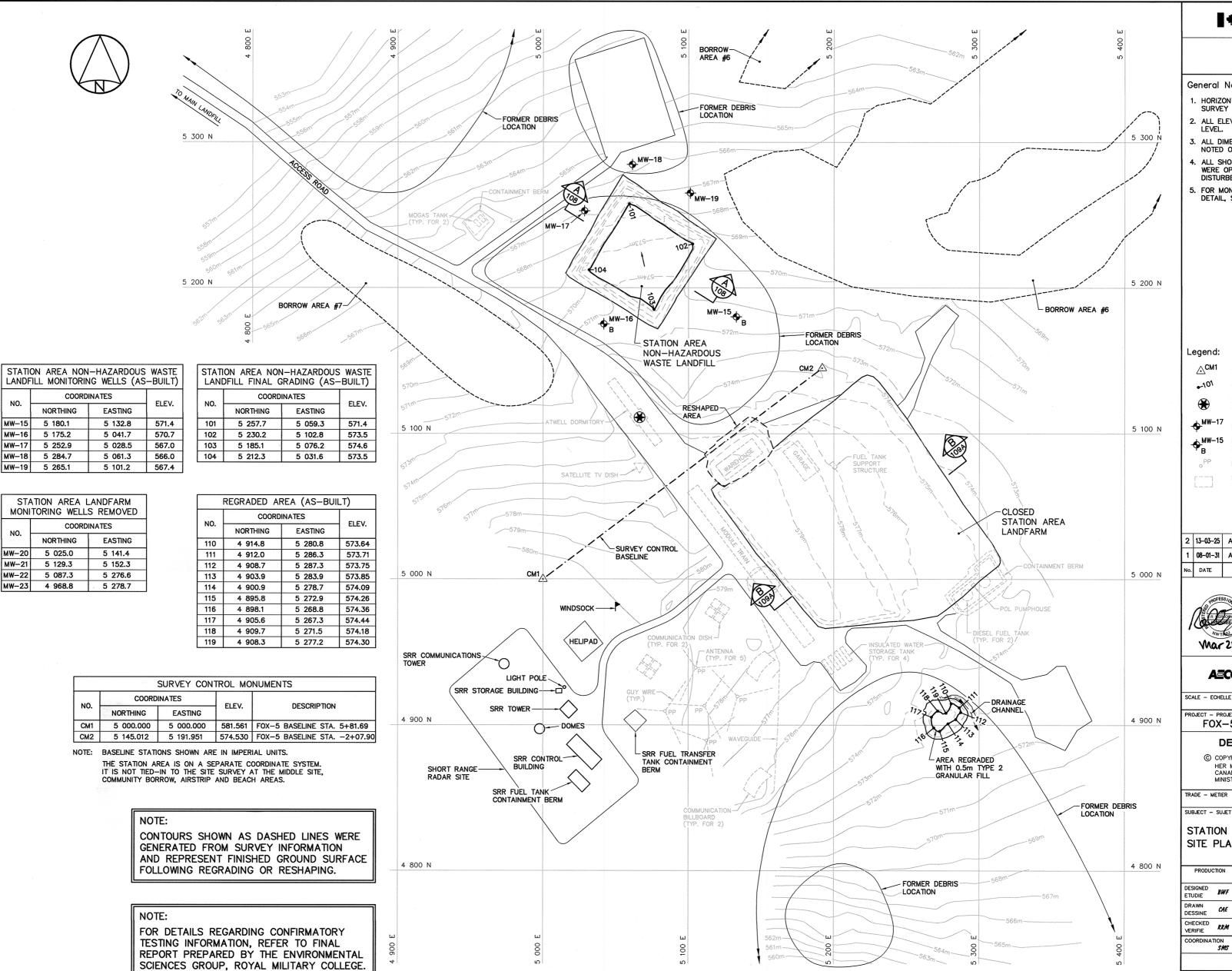
HER MAJESTY THE QUEEN IN RIGHT OF CANADA 2013, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE.

DATE **2003-03-3**1

AGENT CONCEPT SECT HD CHEF SECT DES MGR GEST CONCEPT REVIEWED - REVU

DWG. NO. - DESSIN NO. H-B233/1-9101-102







National Défense

Quartier général

#### General Notes:

- HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
- 2. ALL ELEVATIONS REFER TO MEAN SEA
- 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 4. ALL SHORT RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL AND WERE NOT TO BE
- 5. FOR MONITORING WELL INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

SURVEY CONTROL MONUMENT

COORDINATE POINT

APPROXIMATE LOCATION OF COMMEMORATIVE PLAQUE

MONITORING WELL LOCATION (3)

MW-15 BACKGROUND MONITORING WELL LOCATION (2)

FORMER UTILITY POLE

FORMER BUILDING, STRUCTURE OR TANK LOCATION

No.	DATE	REVISION	REVISION	APPR.
1	08-01-31	AS-BUILT DRA	WING	BWF
2	13-03-25	AS-BUILT DRA	WING	RRM





#### A=COM

**EHATCH** 

#### FOX-5 BROUGHTON ISLAND **DEW LINE CLEAN UP**

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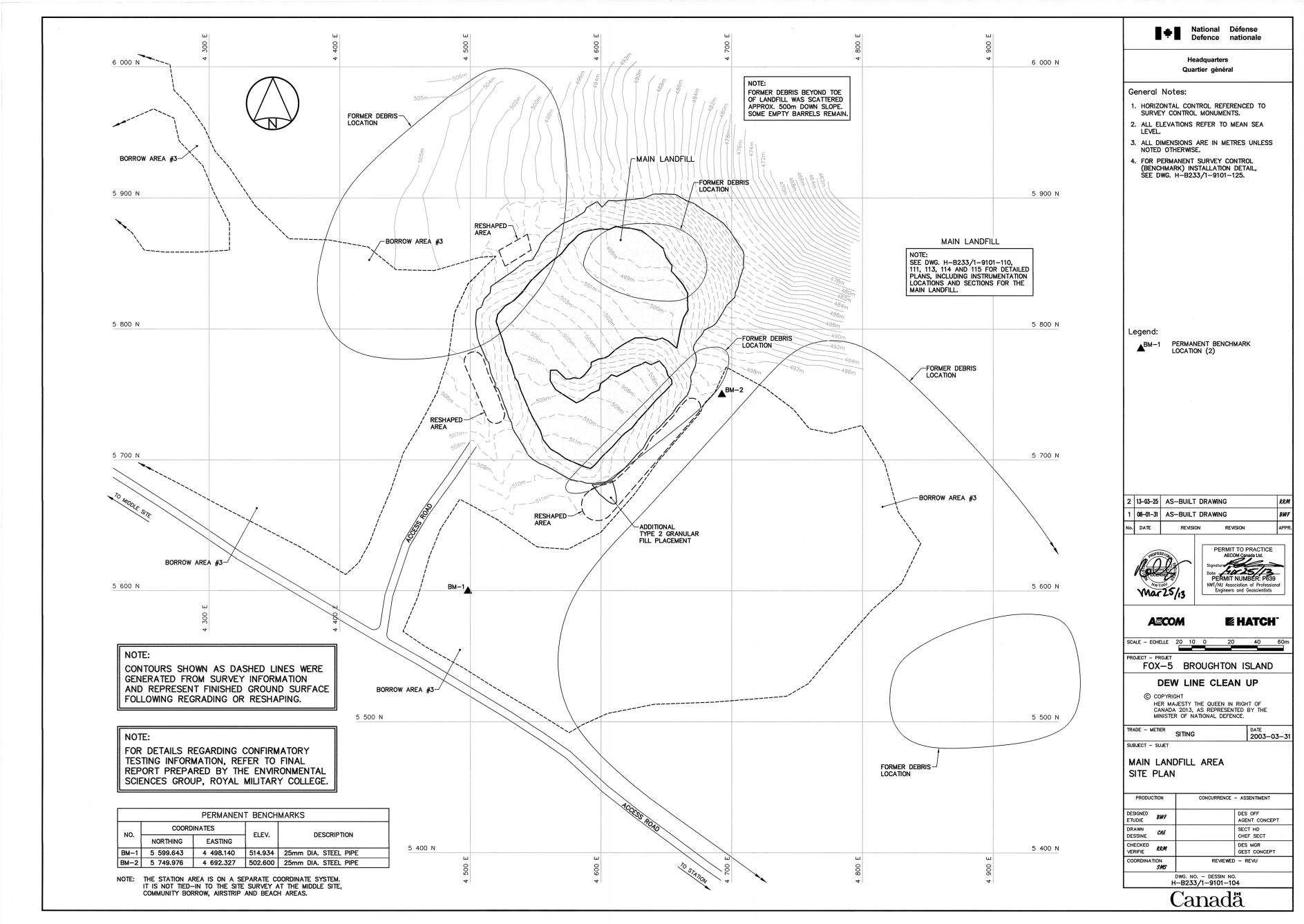
HER MAJESTY THE QUEEN IN RIGHT OF CANADA 2013, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE.

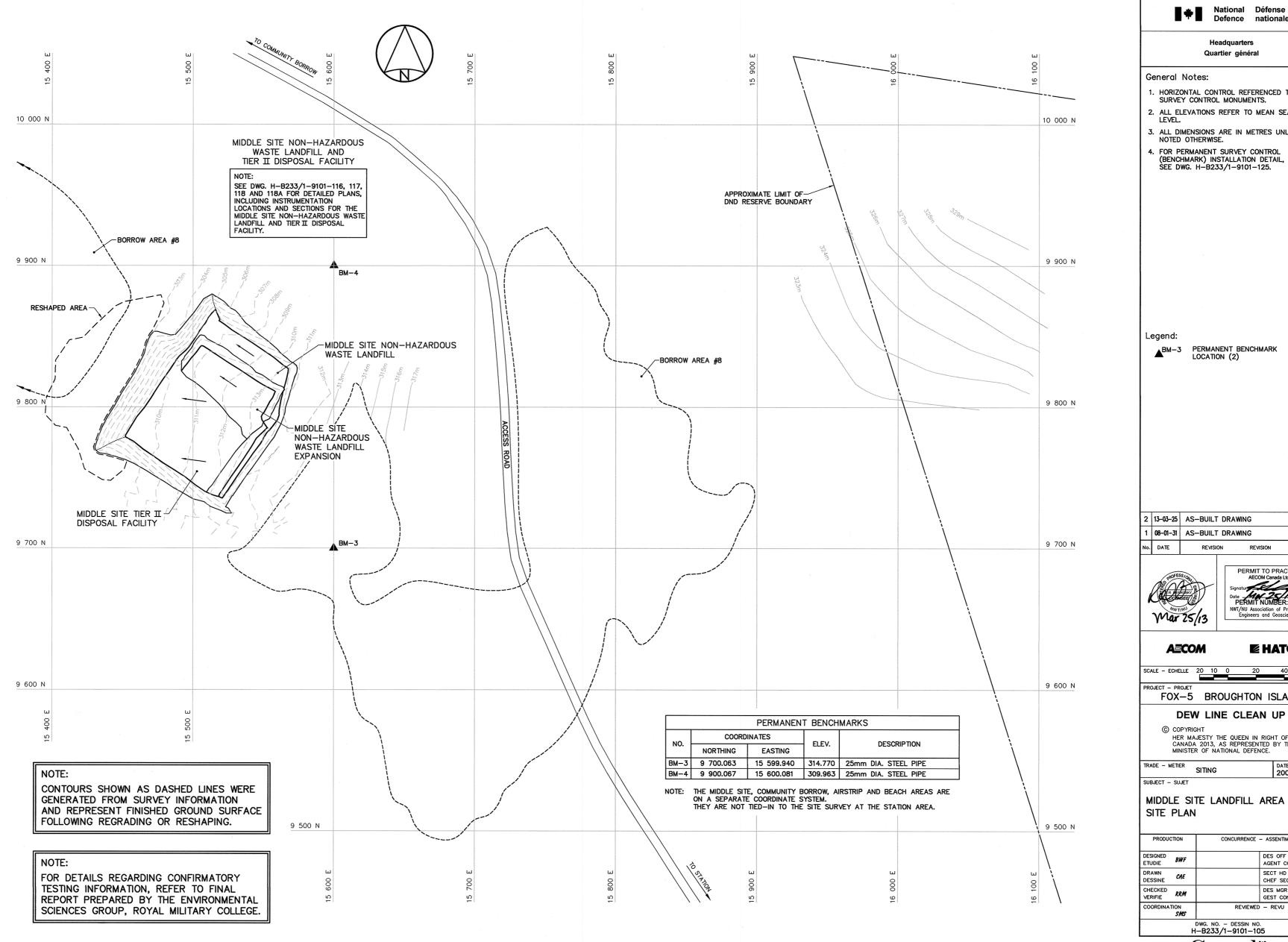
TRADE - METIER SITING

2003-03-3

STATION AREA SITE PLAN

PRODUCTION		CONCURRENCE - ASSENTIMENT		
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT	
DRAWN DESSINE	CAE	1	SECT HD CHEF SECT	
CHECKED VERIFIE	RRM	1	DES MGR GEST CONCEPT	
COORDINA	TION SMS	REVIEWED	- REVU	





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- 1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
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- 4. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

2 13-03-25 AS-BUILT DRAWING RRM 1 08-01-31 AS-BUILT DRAWING BWF



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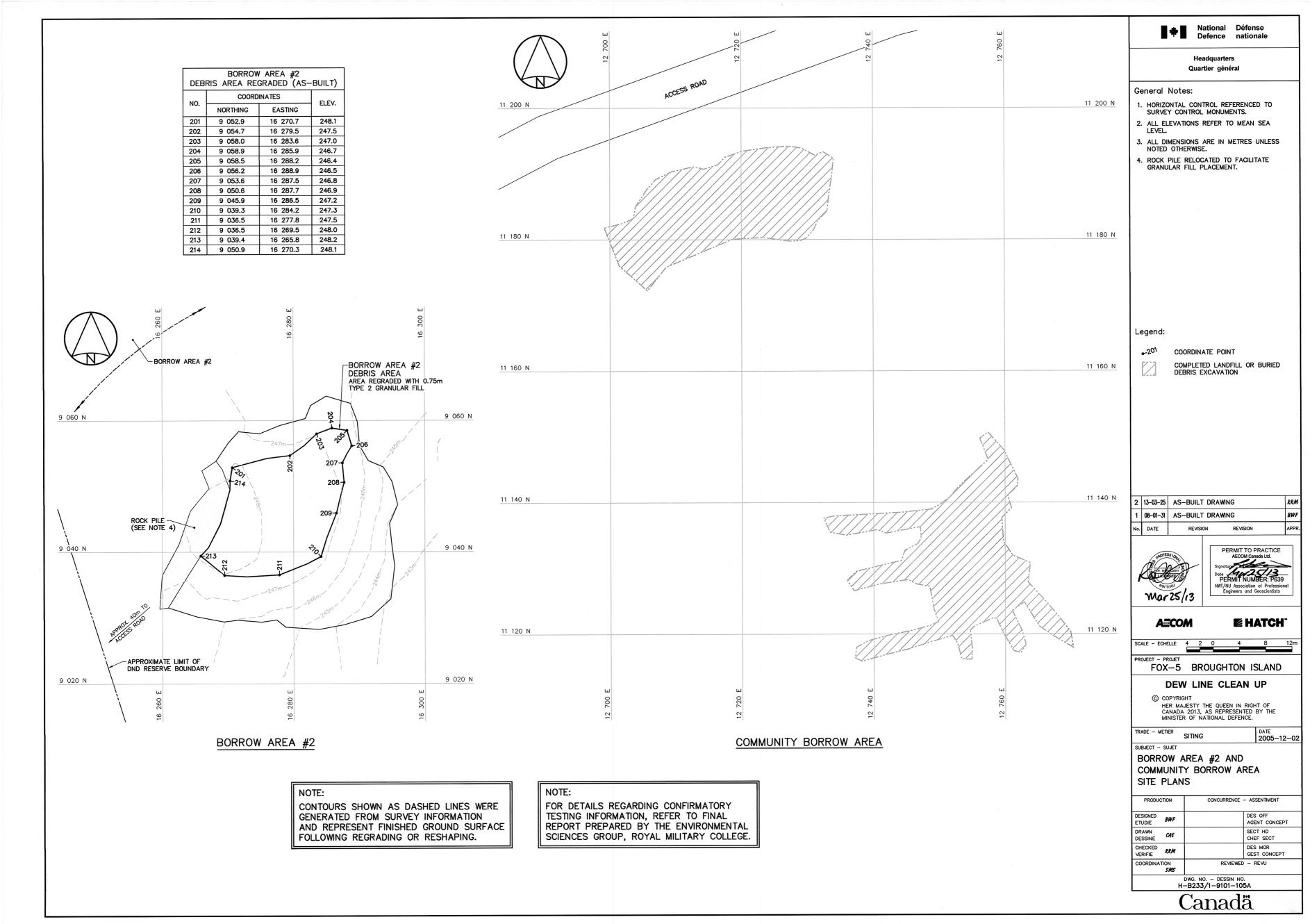
FOX-5 BROUGHTON ISLAND

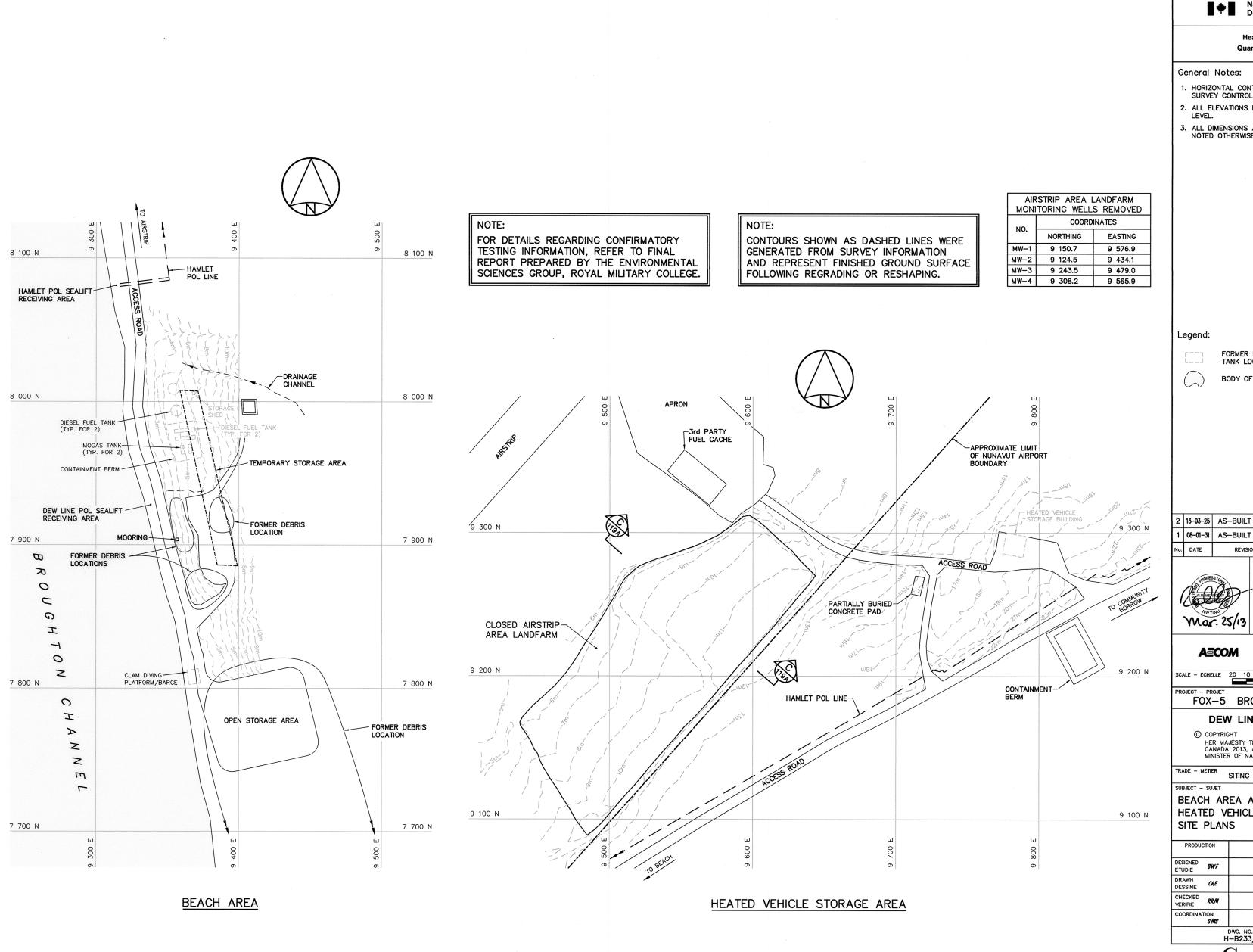
DATE 2003-03-3

MIDDLE SITE LANDFILL AREA

PRODUCTION		CONCURRENCE	- ASSENTIMENT
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION SMS		REVIEWED	- REVU
		DWC NO DESCIN NO	

DWG. NO. - DESSIN NO. H-B233/1-9101-105







Quartier général

#### General Notes:

- 1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
- 2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

FORMER BUILDING, STRUCTURE OR TANK LOCATION

BODY OF WATER

13-03-25 AS-BUILT DRAWING BWF 08-01-31 AS-BUILT DRAWING





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FOX-5 BROUGHTON ISLAND

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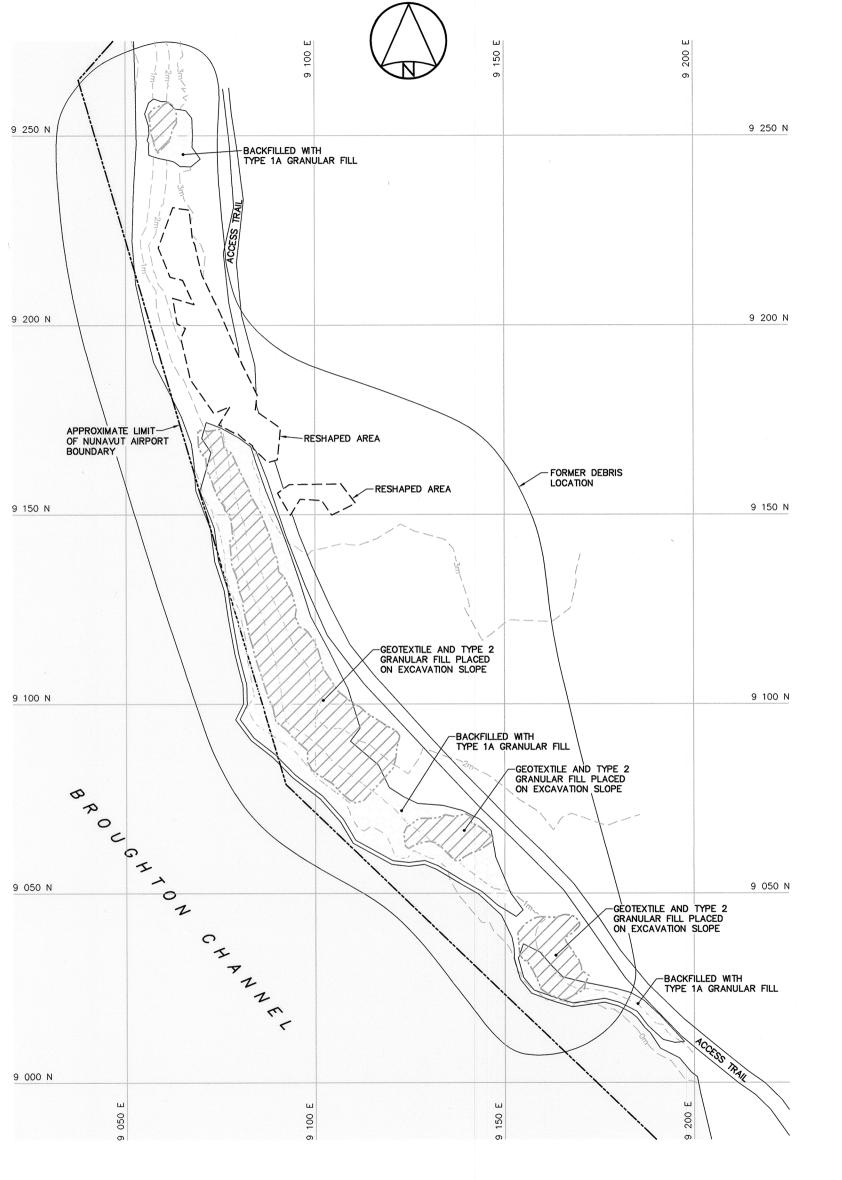
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2003-03-31

BEACH AREA AND HEATED VEHICLE STORAGE AREA SITE PLANS

PRODUC	CTION	CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF	DES OFF AGENT CONCEPT	
DRAWN DESSINE	CAE	SECT HD CHEF SECT	
CHECKED VERIFIE	RRM	DES MGR GEST CONCEPT	
COORDINA	TION SMS	REVIEWED - REVU	
		G. NO. – DESSIN NO. B233/1—9101—106	



#### AIRSTRIP LANDFILL AREA-WEST



#### NOTE:

FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.



National Défense nationale

Quartier général

#### General Notes:

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COMPLETED LANDFILL OR BURIED DEBRIS EXCAVATION



BODY OF WATER

3	13-03-25	AS-BUILT DRAWING	RRM
2	08-01-31	AS-BUILT DRAWING	BWF
1	05-05-18	REVISED LANDFILL EXTENTS	BW#
No.	DATE	REVISION REVISION	APPR.





**■ HATCH** 

#### A=COM

SCALE - ECHELLE

FOX-5 BROUGHTON ISLAND

#### **DEW LINE CLEAN UP**

AS SHOWN

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TRADE - METIER SITING

SUBJECT - SUJET

AIRSTRIP LANDFILL AREA-WEST SITE PLAN AND CROSS SECTIONS

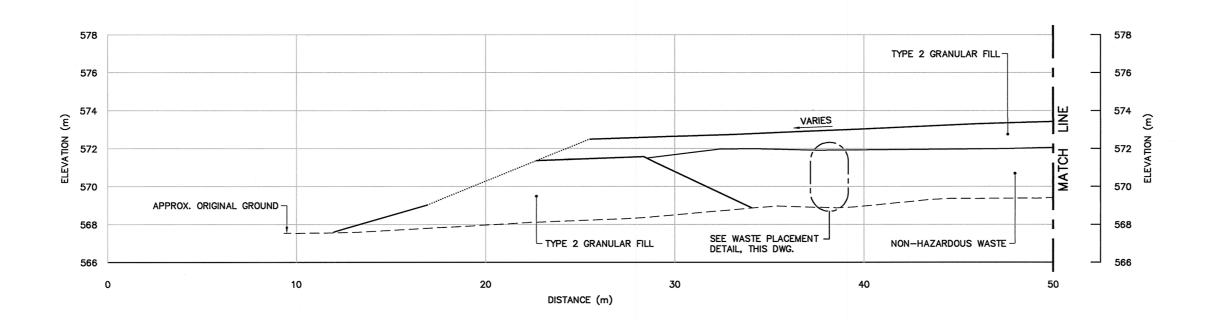
PRODUC	CTION	CONCURRENCE	- ASSENTIMENT
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINA	TION SMS	REVIEWED	- REVU
		DWG NO - DESSIN NO	

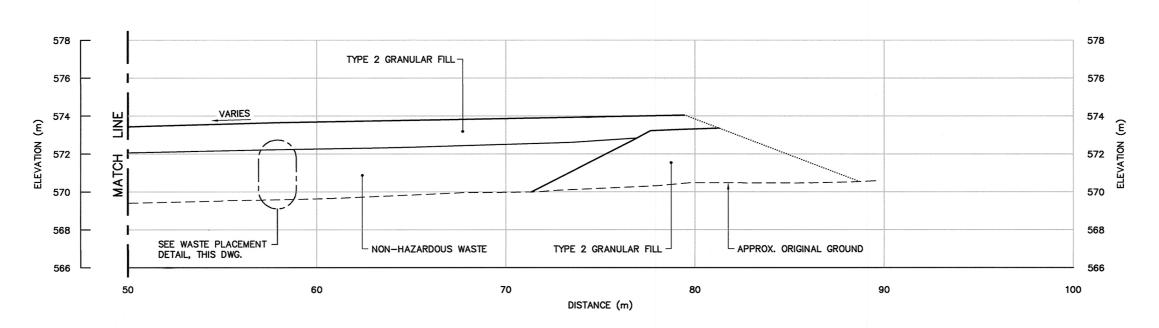
DWG. NO. - DESSIN NO. H-B233/1-9101-107

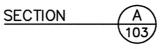


- TYPE 2 GRANULAR FILL INTERMEDIATE COVER (TYPE 6 GRANULAR FILL) WASTE WASTE INTERMEDIATE COVER (TYPE 6 GRANULAR FILL) WASTE WASTE

#### WASTE PLACEMENT DETAIL SCALE: NTS







National Défense Defence nationale

Quartier général

#### General Notes:

- 1. ALL ELEVATIONS REFER TO MEAN SEA
- 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION

CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

2 13-03-25 AS-BUILT DRAWING 1 08-01-31 AS-BUILT DRAWING BWF No. DATE





E HATCH

**AECOM** 

SCALE - ECHELLE 2

FOX-5 BROUGHTON ISLAND

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TRADE - METIER SITING SUBJECT - SUJET

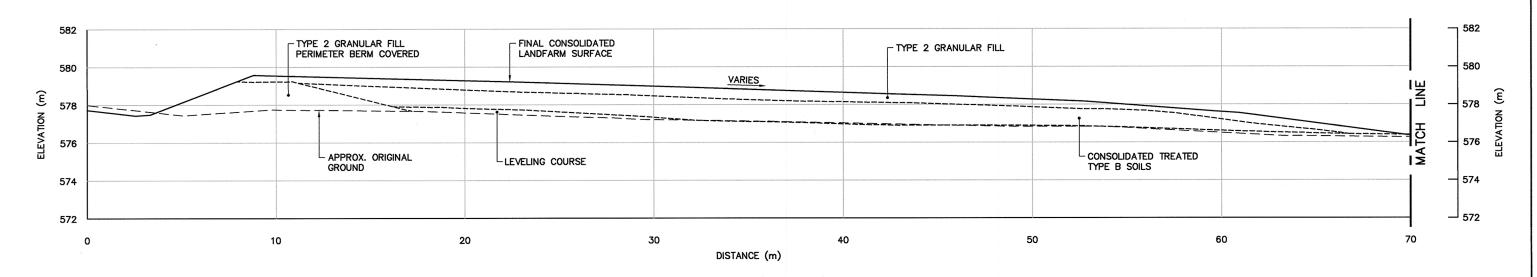
DATE 2003-03-31

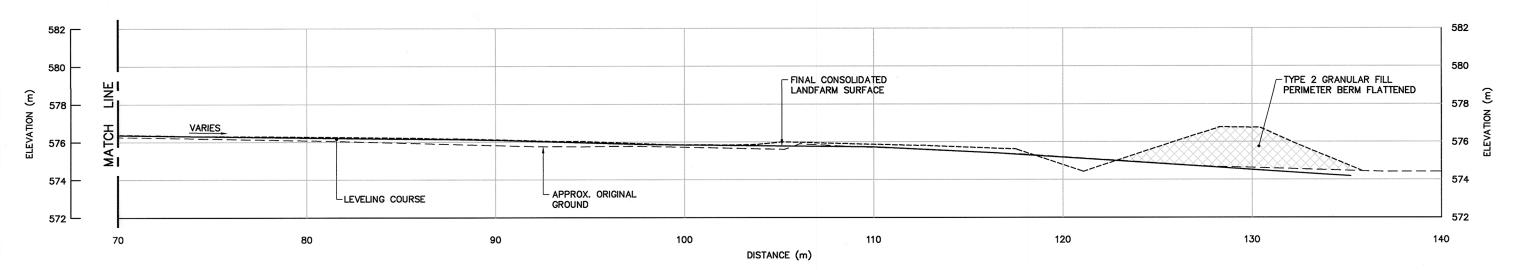
STATION AREA

NON-HAZARDOUS WASTE LANDFILL CROSS SECTION

PRODUCTION CONCURRENCE - ASSENTIMENT DESIGNED ETUDIE BWF DES OFF AGENT CONCEPT DRAWN DESSINE CAE SECT HD CHEF SECT CHECKED RRM
VERIFIE DES MGR GEST CONCEPT

DWG. NO. - DESSIN NO. H-B233/1-9101-108





SECTION 103



National Défense Defence nationale

Quartier général

General Notes:

- 1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION

GENERATED BASED ON INTERMEDIATE AS-BUILT SURVEY INFORMATION

RRM BWF 2 13-03-25 AS-BUILT DRAWING 1 08-01-31 AS-BUILT DRAWING



PERMIT TO PRACTICE
AECOM Canada Ltd.
Signatur
Date
PERMIT NUMBER: P639

**EHATCH** 

DATE 2006-11-24

**AECOM** 

SCALE - ECHELLE 2 1

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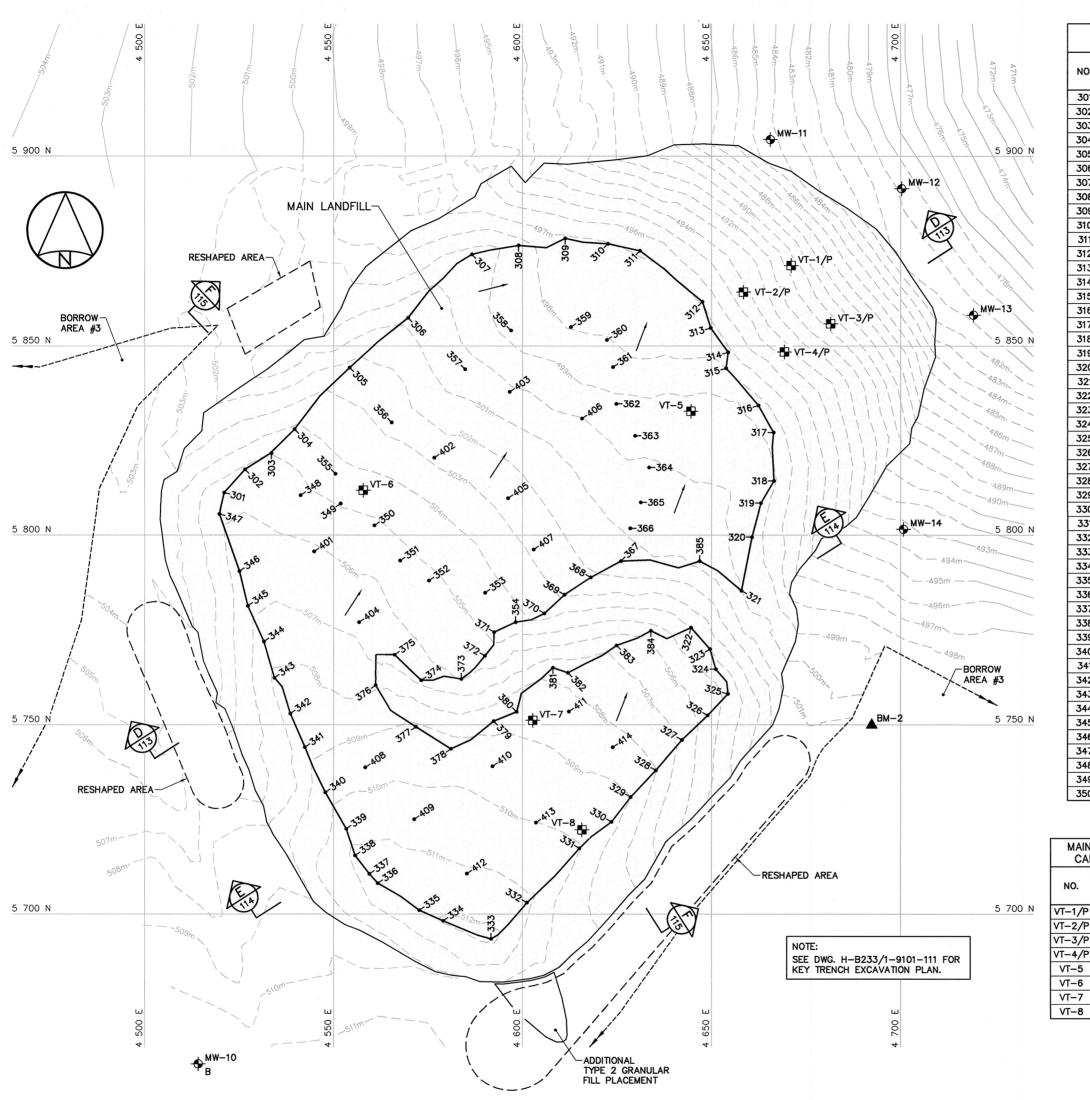
TRADE - METIER SITING SUBJECT - SUJET

CLOSED

STATION AREA LANDFARM CROSS SECTION

CONCURRENCE - ASSENTIMENT DES OFF AGENT CONCEPT DRAWN DESSINE SECT HD CHEF SECT CAE CHECKED RRM DES MGR GEST CONCEPT COORDINATION SMS

DWG. NO. - DESSIN NO. H-B233/1-9101-109A



	COORDINATES			COORDINATES			
NO.	NORTHING	EASTING	ELEV.	NO.	NORTHING	EASTING	ELEV.
301	5 811.2	4 521.1	505.7	351	5 793.3	4 567.6	505.4
302	5 817.4	4 526.6	505.2	352	5 788.0	4 575.3	505.3
303	5 821.6	4 533.6	505.0	353	5 784.8	4 590.2	504.6
304	5 828.0	4 539.7	504.2	354	5 777.1	4 598.2	504.4
305	5 844.3	4 554.2	502.3	355	5 816.2	4 550.5	504.4
306	5 857.5	4 569.8	500.8	356	5 829.8	4 565.4	502.7
307	5 874.2	4 586.6	499.4	357	5 843.9	4 584.8	500.4
308	5 876.5	4 599.0	498.5	358	5 854.1	4 597.0	498.7
309	5 878.4	4 611.3	497.2	359	5 855.0	4 612.9	497.9
310	5 876.9	4 622.7	497.1	360	5 851.6	4 622.4	498.0
311	5 875.1	4 631.1	496.9	361	5 844.4	4 624.0	498.3
312	5 861.7	4 647.6	497.0	362	5 834.7	4 624.9	499.3
313	5 854.7	4 649.8	497.3	363	5 826.2	4 629.8	499.8
314	5 848.4	4 654.4	497.2	364	5 817.9	4 633.5	500.1
315	5 844.1	4 653.8	498.0	365	5 808.6	4 631.3	500.6
316	5 834.2	4 662.4	498.5	366	5 801.8	4 628.5	500.9
317	5 827.1	4 666.4	498.5	367	5 793.2	4 626.1	501.3
318	5 814.3	4 666.5	499.1	368	5 788.8	4 618.1	502.2
319	5 808.4	4 663.1	499.5	369	5 784.3	4 611.2	502.9
320	5 799.5	4 660.7	499.6	370	5 779.4	4 605.8	503.5
321	5 785.3	4 658.0	500.0	371	5 774.5	4 592.6	504.7
322	5 775.6	4 644.6	504.0	372	5 768.2	4 590.1	505.2
323	5 770.0	4 649.6	504.0	373	5 762.1	4 583.8	505.9
324	5 764.7	4 651.2	504.5	374	5 761.8	4 573.2	506.6
325	5 758.2	4 654.3	504.8	375	5 768.5	4 566.2	506.4
326	5 752.5	4 649.0	505.6	376	5 760.5	4 561.1	507.9
327	5 746.0	4 642.2	506.8	377	5 749.5	4 571.8	509.2
328	5 738.0	4 635.3	508.0	378	5 743.7	4 581.1	509.5
329	5 730.9	4 628.7	509.0	379	5 751.0	4 592.4	508.8
330	5 724.3	4 623.6	509.4	380	5 753.4	4 598.5	508.7
331	5 717.4	4 615.1	510.1	381	5 765.1	4 608.1	507.6
332	5 703.0	4 601.2	511.2	382	5 763.7	4 612.1	507.7
333	5 693.5	4 591.7	512.3	383	5 771.0	4 624.9	506.8
334	5 698.2	4 579.1	512.1	384	5 774.8	4 634.0	505.5
335	5 701.0	4 572.7	511.7	385	5 793.1	4 646.9	500.7
336	5 708.1	4 561.7	511.5	-	0 700		-
337	5 710.6	4 559.5	511.6	401	5 795.7	4 544.9	506.1
338	5 715.5	4 555.7	511.2	402	5 820.5	4 576.7	502.8
339	5 722.5	4 553.4	510.7	403	5 837.9	4 596.6	500.2
340	5 732.2	4 547.9	509.6	404	5 777.1	4 556.8	506.8
341	5 744.1	4 542.4	508.8	405	5 809.7	4 596.2	502.6
342	5 753.0	4 538.6	508.4	406	5 830.8	4 615.8	500.0
343	5 762.4	4 534.3	508.2	407	5 796.2	4 603.0	502.9
344	5 772.0	4 531.6	507.5	408	5 738.8	4 558.4	509.6
345	5 781.4	4 527.3	506.8	409	5 725.0	4 571.4	510.6
346	5 790.5	4 525.1	506.6	410	5 739.1	4 592.1	509.5
347	5 805.6	4 519.8	505.8	411	5 753.5	4 612.3	509.3
348	5 810.5	4 541.3	505.2	412	5 710.7	4 585.3	511.1
349	5 808.3	4 551.9	503.2	413	5 724.1	4 603.6	510.0
350	5 802.6	4 560.8	505.2	414	5 744.1	4 623.9	508.4
550	3 002.0	7 300.0	303.2	414	3 /44.1	4 023.9	300.4

MAIN LANDFILL FINAL GRADING (AS-BUILT)

MAIN LANDFILL GROUND TEMPERATURE CABLES/PIEZOMETERS (AS-BUILT)			
NO.	COORD	INATES	ELEV.
NO.	NORTHING	EASTING	ELEV.
VT-1/P	5 871.2	4 671.1	490.5
VT-2/P	5 864.2	4 658.5	494.3
VT-3/P	5 855.8	4 681.5	490.5
VT-4/P	5 848.4	4 669.3	494.4
VT-5	5 832.7	4 644.6	499.4
VT-6	5 811.8	4 557.9	504.5
VT-7	5 751.2	4 602.7	508.7
VT-8	5 722.2	4 615.8	509.8

MAIN LANDFILL MONITORING WELLS (AS-BUILT)				
COORDINATE		INATES	ELEV.	
NO.	NORTHING	EASTING	- ELEV.	
MW-10	5 660.5	4 514.2	511.1	
MW-11	5 904.4	4 665.5	484.6	
MW-12	5 891.5	4 700.2	479.8	
MW-13	5 858.1	4 719.3	480.5	
MW-14	5 801.6	4 700.7	493.3	

FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

PERMANENT BENCHMARKS						
O. COORDINATES		ELEV.	DESCRIPTION			
NORTHING	EASTING	LLEV.	DESCRIPTION			
5 749.976	4 692.327	502.600	25mm DIA. STEEL PIPE			
	NORTHING	NORTHING EASTING	NORTHING EASTING ELEV.			

NOTE: THE STATION AREA IS ON A SEPARATE COORDINATE SYSTEM. IT IS NOT TIED—IN TO THE SITE SURVEY AT THE MIDDLE SITE, COMMUNITY BORROW, AIRSTRIP AND BEACH AREAS.



National Défense

#### General Notes:

- 1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
- 2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 4. FOR MONITORING WELL INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.
- 5. FOR GROUND TEMPERATURE CABLE/ PIEZOMETER INSTALLATION DETAILS, SEE DWG. H-B233/1-9101-124.
- 6. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

PERMANENT BENCHMARK LOCATION (1)

COORDINATE POINT

MONITORING WELL LOCATION (4)

BACKGROUND MONITORING WELL LOCATION (1)

GROUND TEMPERATURE CABLE LOCATION (4)

GROUND TEMPERATURE CABLE AND PIEZOMETER LOCATION (4)

3	13-03-25	AS-BUILT DRAWING RRM		
2	08-01-31	AS-BUILT DRAWING BWF		
1	06-02-28	REVISED LANDFILL DESIGN	RRM	
No.	DATE	REVISION REVISION	APPR.	





#### **A**\(\inf\)COM

**EHATCH** 

#### FOX-5 BROUGHTON ISLAND **DEW LINE CLEAN UP**

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TRADE - METIER SITING

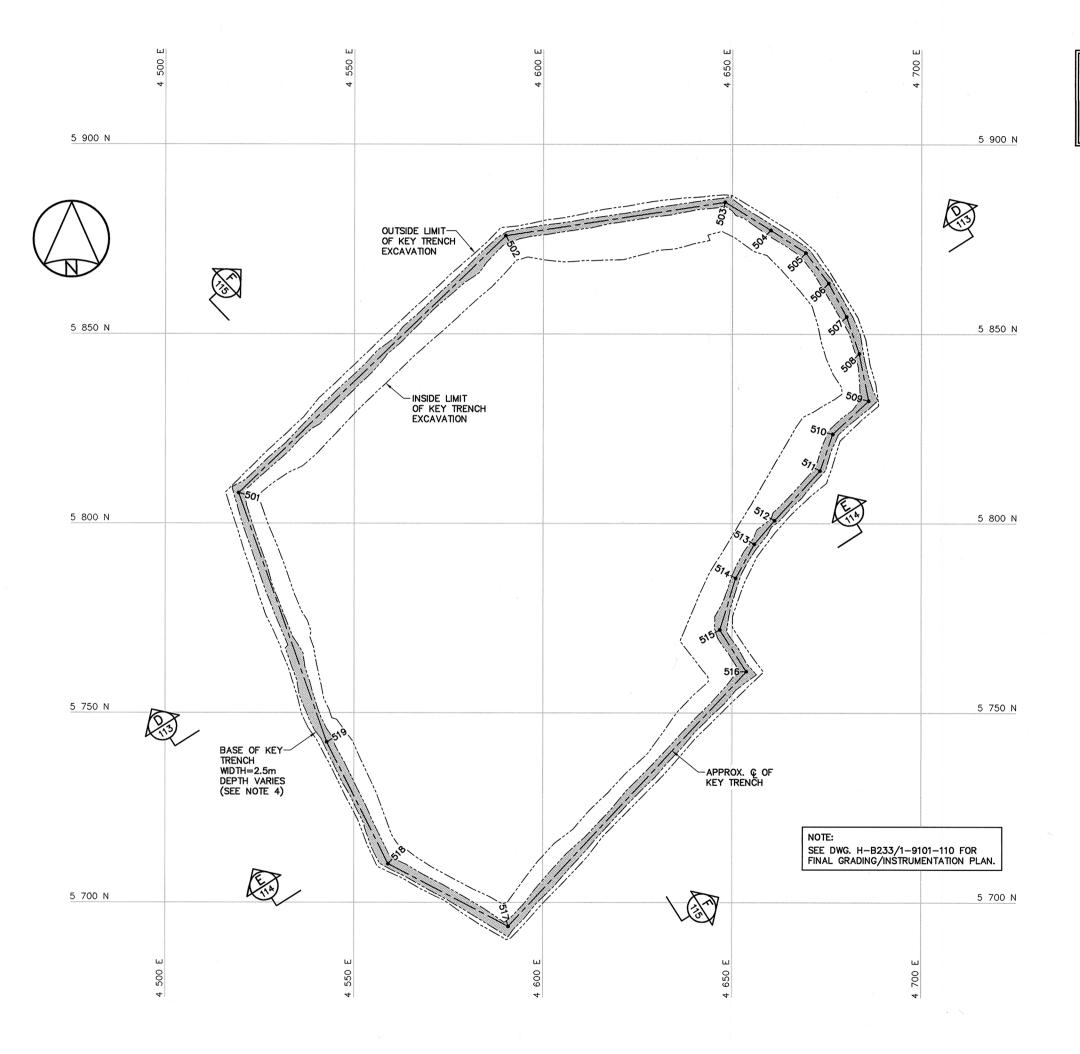
2003-03-3

SUBJECT - SUJET

MAIN LANDFILL GRADING/INSTRUMENTATION PLAN

PRODUCTION	CONCURRENCE - ASSENTIMENT	
DESIGNED BWF	DES OFF AGENT CONCEPT	
DRAWN DESSINE CAE	SECT HD CHEF SECT	
CHECKED RRM	DES MGR GEST CONCEPT	
COORDINATION SMS	REVIEWED - REVU	

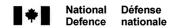
DWG. NO. - DESSIN NO. H-B233/1-9101-110



#### NOTE:

FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

MAIN LANDFILL KEY TRENCH				
EXCAVATION (AS-BUILT)				
NO.	COORD	INATES		
NO.	NORTHING	EASTING		
501	5 808.0	4 519.4		
502	5 875.9	4 590.1		
503	5 884.8	4 648.1		
504	5 877.4	4 660.2		
505	5 871.5	4 669.4		
506	5 863.4	4 675.4		
507	5 854.6	4 680.2		
508	5 844.9	4 683.5		
509	5 832.4	4 686.1		
510	5 823.6	4 676.6		
511	5 813.9	4 673.2		
512	5 800.8	4 661.2		
513	5 794.6	4 655.9		
514	5 785.6	4 651.0		
515	5 772.0	4 646.8		
516	5 761.0	4 653.8		
517	5 693.7	4 590.9		
518	5 710.2	4 559.1		
519	5 742.3	4 542.8		



#### General Notes:

- HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
- 2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 4. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.

Legend:

-501 COORDINATE POINT

3	13-03-25	AS-BUILT DRAWING		
2	08-01-31	AS-BUILT DRAWING		
1	05-07-22	REVISED TRENCH ALIGNMENT	BW#	
No.	DATE	REVISION REVISION	APPR.	





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FOX-5 BROUGHTON ISLAND

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TRADE - METIER SITING SUBJECT - SUJET

DATE 2003-03-31

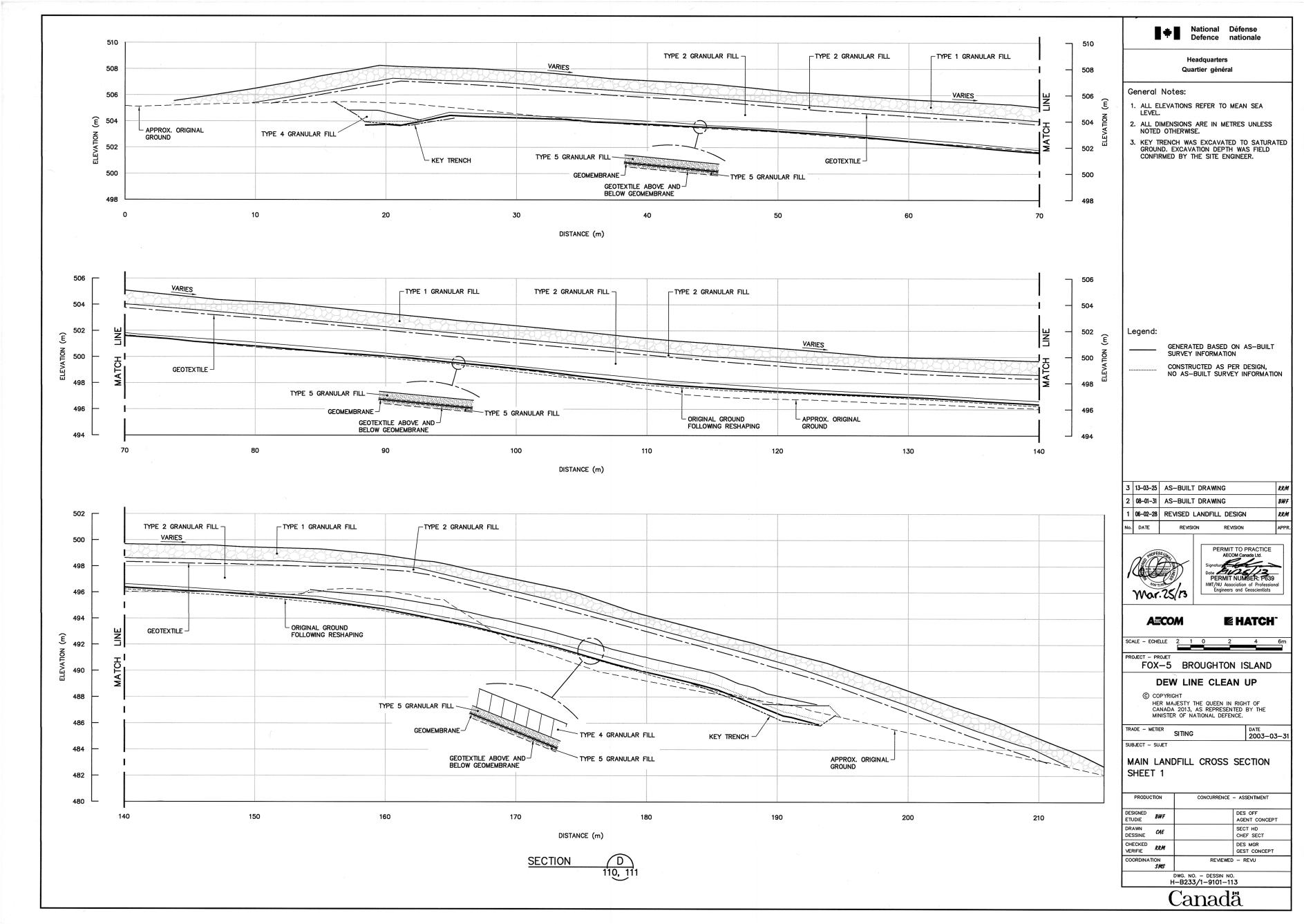
MAIN LANDFILL

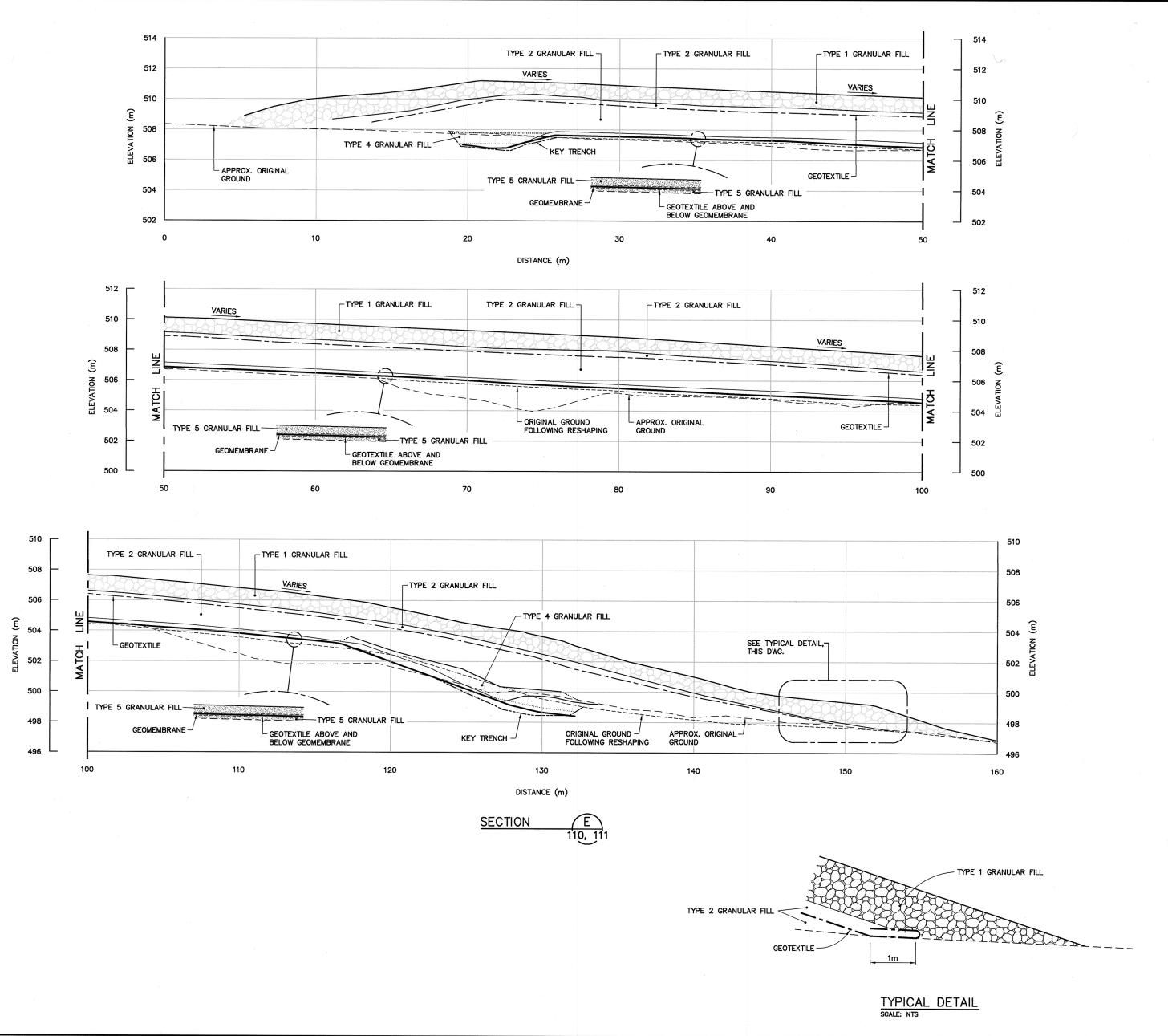
KEY TRENCH EXCAVATION PLAN

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION SMS		REVIEWED	- REVU
	DWG. NO DESSIN NO.		

H-B233/1-9101-111







National Défense Defence nationale

Quartier général

#### General Notes:

- 1. ALL ELEVATIONS REFER TO MEAN SEA
- 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 3. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION

CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

3 13-03-25 AS-BUILT DRAWING BWF 2 08-01-31 AS-BUILT DRAWING RRM 06-02-28 REVISED LANDFILL DESIGN DATE REVISION



SCALE - ECHELLE

PERMIT TO PRACTICE AECOM Canada Ltd.

**AECOM** 

**EHATCH** 

DATE 2003-03-31

PROJECT - PROJET FOX-5 BROUGHTON ISLAND

#### **DEW LINE CLEAN UP**

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TRADE - METIER SITING

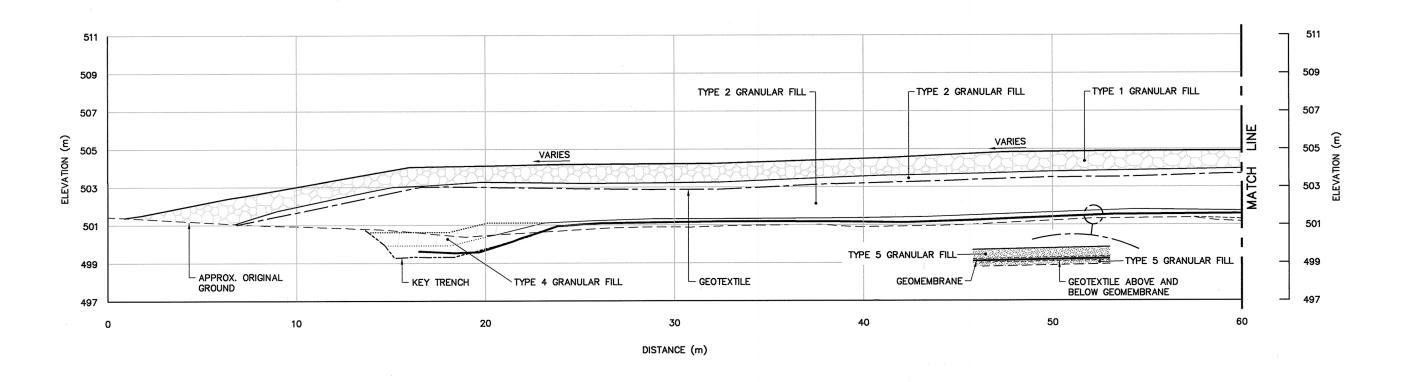
SUBJECT - SUJET

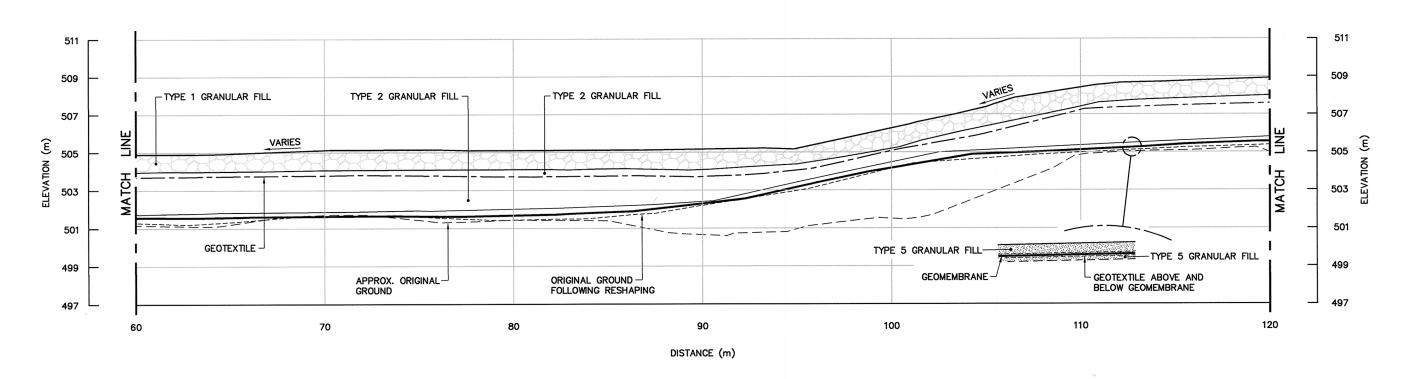
MAIN LANDFILL

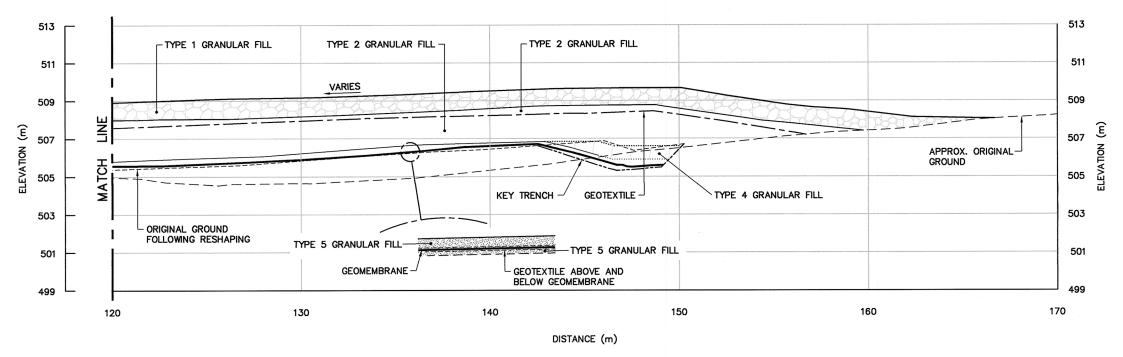
CROSS SECTION AND DETAIL SHEET 2

DESIGNED ETUDIE DES OFF AGENT CONCEPT BWF DRAWN DESSINE CHEF SECT CHECKED RRM DES MGR GEST CONCEPT COORDINATION SMS REVIEWED - REVU

DWG. NO. - DESSIN NO. H-B233/1-9101-114







SECTION 110, 111

National Défense Defence nationale

Quartier général

#### General Notes:

- 1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 3. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION

CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

3 13-03-25 AS-BUILT DRAWING RRM 2 08-01-31 AS-BUILT DRAWING 1 06-02-28 REVISED LANDFILL DESIGN RRM





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FOX-5 BROUGHTON ISLAND

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TRADE - METIER SITING SUBJECT - SUJET

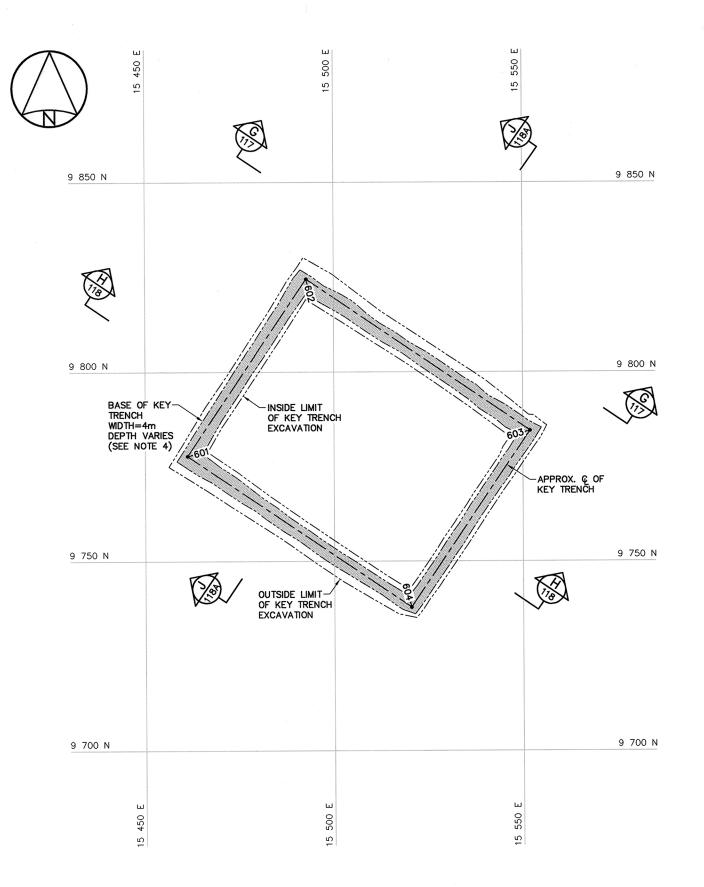
DATE 2003-03-31

MAIN LANDFILL CROSS SECTION

SHEET 3

CONCURRENCE - ASSENTIMENT PRODUCTION DESIGNED ETUDIE DES OFF BWF AGENT CONCEPT DRAWN DESSINE SECT HD CHEF SECT CAE CHECKED RRM DES MGR GEST CONCEPT REVIEWED - REVU

DWG. NO. - DESSIN NO. H-B233/1-9101-115



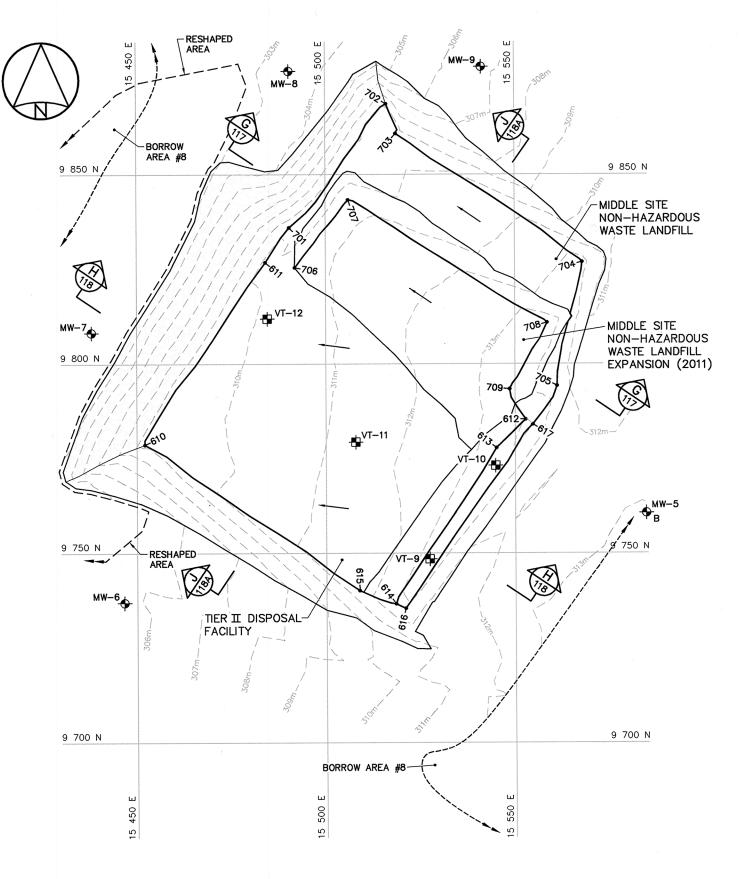
#### KEY TRENCH EXCAVATION PLAN

TIER :	TIER II DISPOSAL FACILITY KEY TRENCH EXCAVATION (AS-BUILT)				
NO.	COORDINATES				
NO.	NORTHING	EASTING			
601	9 777.8	15 461.2			
602	9 824.5	15 492.7			
603	9 784.5	15 551.9			
604	9 737.9	15 520.4			

#### NOTE:

FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.



#### FINAL GRADING/INSTRUMENTATION PLAN

MIDDLE SITE TIER II DISPOSAL FACILITY FINAL GRADING (AS-BUILT)					
	COORD	INATES	ELEV.		
NO.	NORTHING	EASTING	ELEV.		
610	9 778.8	15 452.1	309.4		
611	9 826.8	15 484.1	310.3		
612	9 785.3	15 552.8	314.0		
613	9 777.9	15 545.1	313.7		
614	9 736.6	15 518.4	312.8		
615	9 740.1	15 508.8	311.6		
616	9 735.4	15 520.9	312.9		
617	9 784.0	15 554.7	314.0		

MIDDLE SITE  NON—HAZARDOUS WASTE LANDFILL  FINAL GRADING (AS—BUILT)				
NO.	COORDINATES		ELEV.	
NU.	NORTHING	EASTING	ELEV.	
701	9 836.0	15 490.4	309.6	
702	9 868.7	15 516.1	308.8	
703	9 860.9	15 518.6	309.5	
704	9 826.9	15 567.8	312.3	
705	9 794.2	15 561.1	312.8	
706	9 825.4	15 491.9	310.5	
707	9 843.3	15 506.0	310.7	
708	9 810.9	15 558.5	313.4	
709	9 793.4	15 548.6	313.4	

MIDDLE SITE LANDFILL MONITORING WELLS				
COORDINATES		INATES	ELEV.	
NO.	NORTHING	EASTING	ELEV.	
MW-5	9 760.6	15 584.6	313.2	
MW-6	9 736.9	15 446.6	305.9	
MW-7 9 808.2 15 438.1 303.1				
MW-8	9 877.3	15 490.4	303.5	
MW-9 9 878.4 15 541.2 306.7				

MIDDLE SITE LANDFILL GROUND TEMPERATURE CABLES				
NO.	COORDINATES		ELEV.	
	NORTHING	EASTING	ELEV.	
VT-9	9 748.5	15 527.3	313.4	
VT-10	9 773.1	15 544.8	314.0	
VT-11	9 779.4 15 507.9 3			
VT-12	9 811.9	15 484.6	310.3	



National Défense Defence nationale

- 1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
- 2. ALL ELEVATIONS REFER TO MEAN SEA
- 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.
- 5. FOR MONITORING WELL INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.
- 6. FOR GROUND TEMPERATURE CABLE INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

-601 COORDINATE POINT

3 13-03-25 AS-BUILT DRAWING 08-01-31 AS-BUILT DRAWING

05-09-02 REVISED FILL PLACEMENT

MONITORING WELL LOCATION (4)

BACKGROUND MONITORING WELL LOCATION (1) GROUND TEMPERATURE CABLE LOCATION (4)





REVISION

A=COM

**EHATCH** 

BW#

FOX-5 BROUGHTON ISLAND

#### **DEW LINE CLEAN UP**

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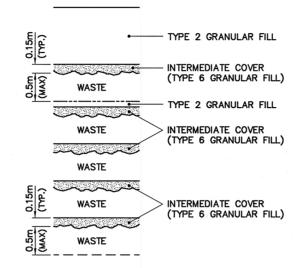
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MINISTER OF NATIONAL DEFENCE.

TRADE - METIER SITING SUBJECT - SUJET

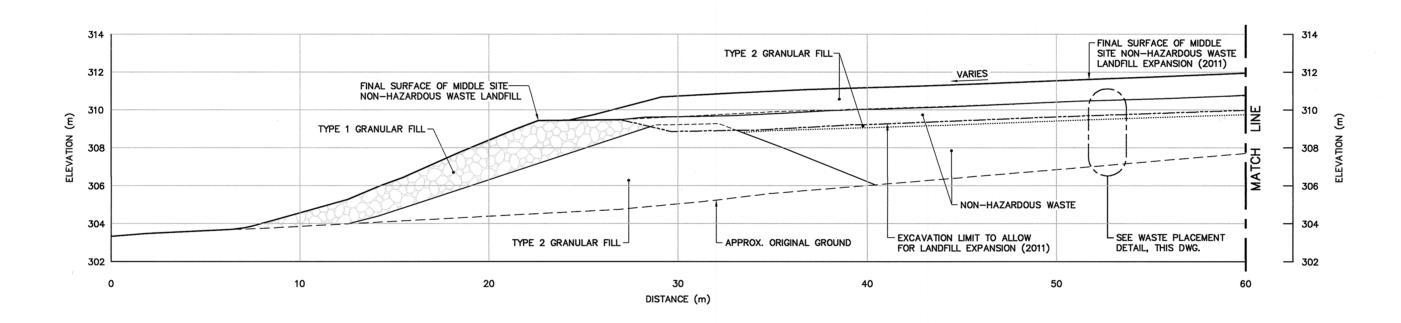
#### TIER II DISPOSAL FACILITY KEY TRENCH EXCAVATION PLAN & GRADING/INSTRUMENTATION PLAN

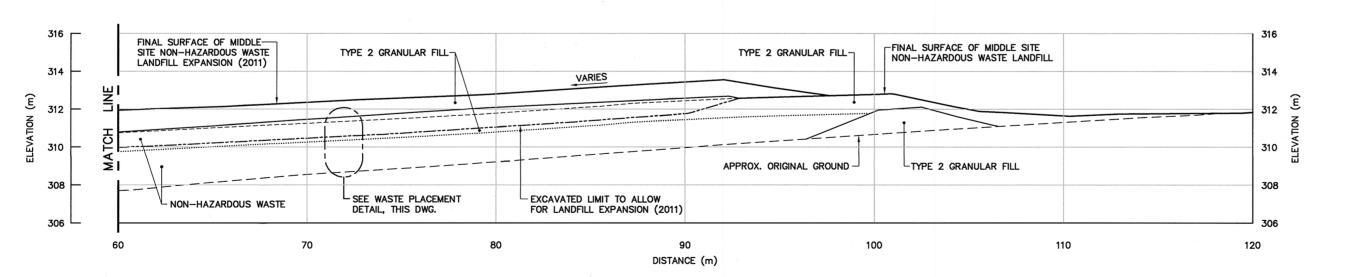
PRODUC	TION	CONCURRENCE	- ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT	3
DRAWN DESSINE	CAE		SECT HD CHEF SECT	
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT	
COORDINAT	TION SMS	REVIEWED	O - REVU	
	04	C NO - DESSIN NO	1	

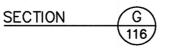
H-B233/1-9101-116



## WASTE PLACEMENT DETAIL







National Défense Defence nationale

#### General Notes:

ALL ELEVATIONS REFER TO MEAN SEA LEVEL.

Quartier général

2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION

GENERATED BASED ON INTERMEDIATE AS-BUILT SURVEY INFORMATION EXCAVATED LANDFILL SURFACE TO ALLOW FOR LANDFILL EXPANSION (2011)

CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

2 13-03-25 AS-BUILT DRAWING BWF 08-01-31 AS-BUILT DRAWING REVISION



SCALE - ECHELLE



**■ HATCH** 

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TRADE - METIER SITING

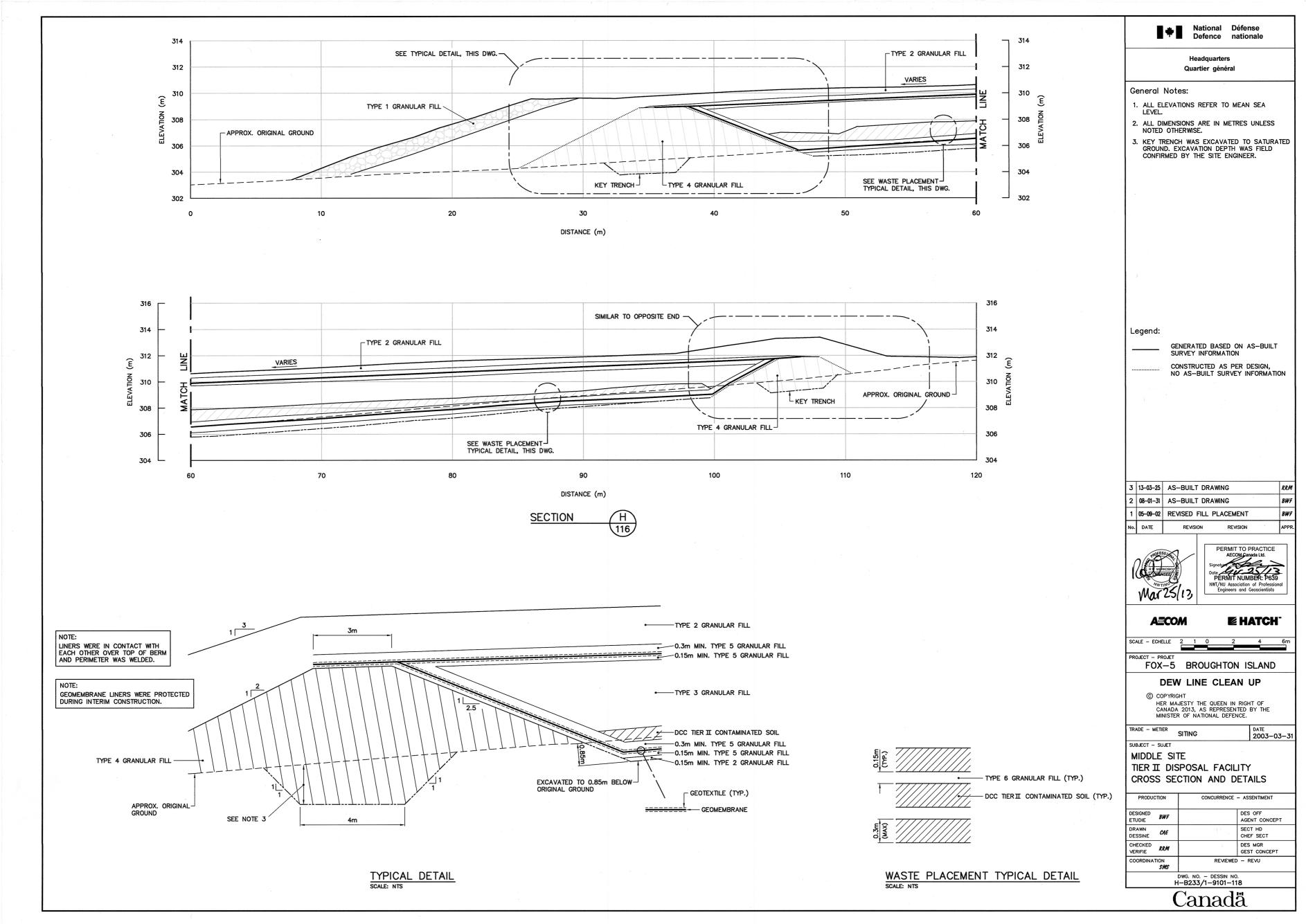
DATE 2003-03-31

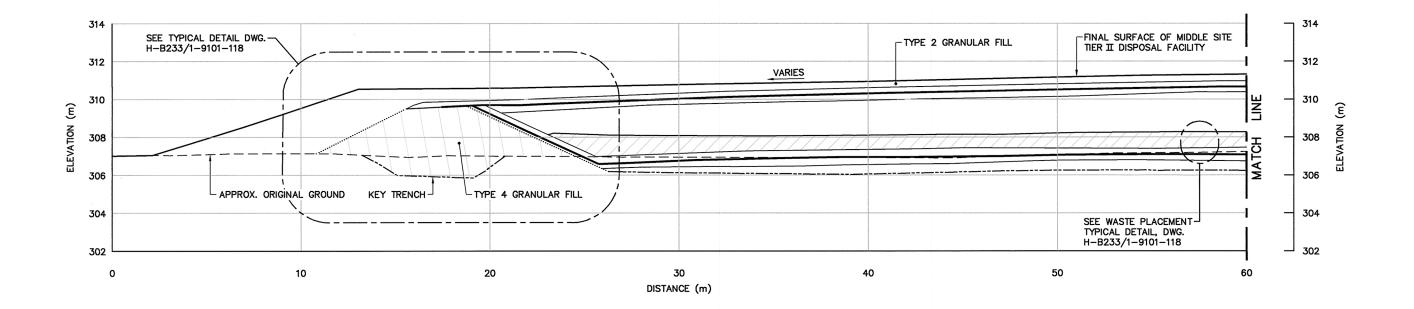
SUBJECT - SUJET MIDDLE SITE

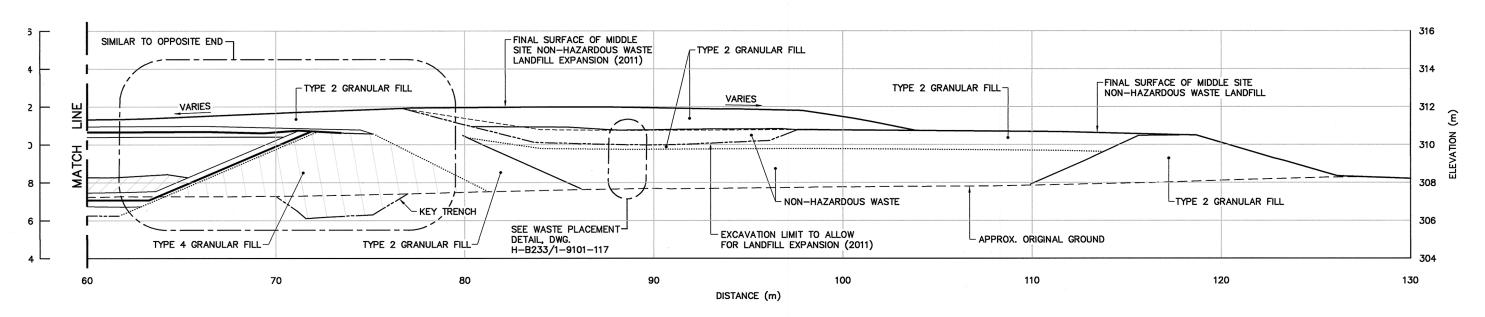
NON-HAZARDOUS WASTE LANDFILL CROSS SECTION AND DETAIL

DESIGNED BWF AGENT CONCEPT DRAWN DESSINE SECT HD CHEF SECT CAE CHECKED KRM DES MGR GEST CONCEPT REVIEWED - REVU

DWG. NO. - DESSIN NO. H-B233/1-9101-117







SECTION

National Défense Defence nationale

Headquarters Quartier général

#### General Notes:

- 1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

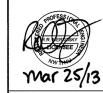
Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION

GENERATED BASED ON INTERMEDIATE AS—BUILT SURVEY INFORMATION EXCAVATED LANDFILL SURFACE TO ALLOW FOR LANDFILL EXPANSION (2011)

CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

0 13-03-25 AS-BUILT DRAWING RRM o. DATE



**A**ECOM

SCALE - ECHELLE 2 1

PERMIT TO PRACTICE
AECOM Canada Ltd.

Signature
Date
PERMIT NUMBER: P639
NWT/NU Association of Professional
Engineers and Geoscientists **■ HATCH** 

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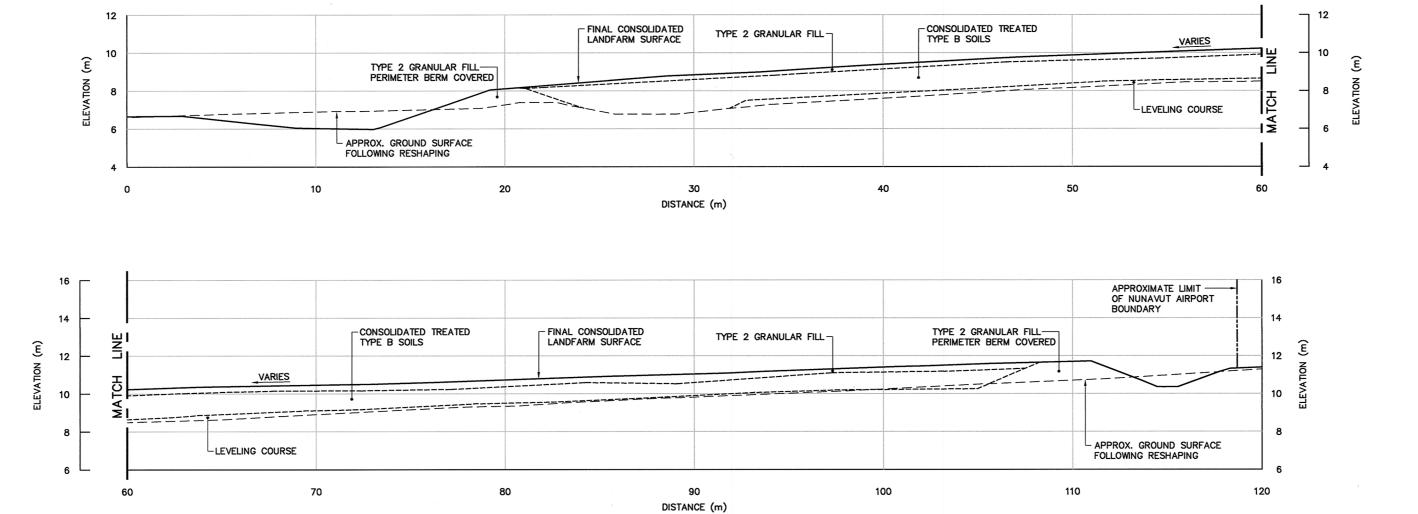
TRADE - METIER SITING

DATE 2012-03-08

SUBJECT - SUJET MIDDLE SITE NON-HAZARDOUS WASTE LANDFILL/TIER II DISPOSAL FACILITY CROSS SECTION

CONCURRENCE - ASSENTIMENT DESIGNED BWF DES OFF AGENT CONCEPT DRAWN DESSINE SECT HD CHEF SECT IC CHECKED DTM DES MGR GEST CONCEPT REVIEWED - REVU COORDINATION RRM

DWG. NO. - DESSIN NO. H-B233/1-9101-118A



**SECTION** 

General Notes:

- 1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION

GENERATED BASED ON INTERMEDIATE AS-BUILT SURVEY INFORMATION

2 13-03-25 AS-BUILT DRAWING RRM BWF 08-01-31 AS-BUILT DRAWING APPR. DATE REVISION





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FOX-5 BROUGHTON ISLAND

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TRADE - METIER SITING

SUBJECT - SUJET

CLOSED

AIRSTRIP AREA LANDFARM CROSS SECTION

CONCURRENCE - ASSENTIMENT PRODUCTION DESIGNED BWF DES OFF AGENT CONCEPT DRAWN DESSINE CAE SECT HD CHEF SECT CHECKED RRM DES MGR GEST CONCEPT REVIEWED - REVU

DWG. NO. - DESSIN NO. H-B233/1-9101-119A

TABLE 1 GROUND TEMPERATURE CABLE INSTALLATION				
INSTRUMENT No.	THE PERIOR COMMENTS			
MAIN LANDFILL	MAIN LANDFILL			
VT-5	4.51			
VT-6	4.75			
VT-7 4.67				

TABLE 2 GROUND TEMPERATURE CABLE AND PIEZOMETER INSTALLATION				
INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS		
MAIN LANDFILL				
VT-2/P2	4.84	PIEZOMETER TIP INSTALLED BELOW LINER		
VT-4/P4	4.22	PIEZOMETER TIP INSTALLED BELOW LINER		

- DATA LOGGER

GROUNDING ROD

50mm DIA. PVC PIPE GROUTED INTO HOLE

200mm HDPE BOOT (CLAMP AND SEAL)

FILTER SAND

WATERTIGHT

END CAP

LOCKING CAP WITH LOCK

VIBRATING WIRE

GROUNDING WIRE

TH - SEE TABLE 2
AT 0.5m INTERVALS
VARIES

APPROX. TOP OF TYPE 1 GRANULAR FILL

THERMISTOR CABLE

PIEZOMETER LEADS

TABLE 3				
GROUND TEMPERATURE CABLE AND PIEZOMETER INSTALLATION				
INSTRUMENT APPROXIMATE DEPTH BELOW FINAL GRADE (m)		COMMENTS		
MAIN LANDFILL				
VT-1/P1	5.08	PIEZOMETER TIP INSTALLED BELOW LINER		
VT-3/P3	4.50	PIEZOMETER TIP INSTALLED BELOW LINER		
VT-8	4.59	PIEZOMETER NOT REQUIRED		

-DATA LOGGER

CEMENT GROUT BETWEEN DATA HOUSING AND EXISTING GROUND (AS REQUIRED) AND INSIDE

GROUNDING ROD

50mm DIA. PVC PIPE GROUTED INTO HOLE

THERMISTOR CABLE

- 200mm HDPE BOOT (CLAMP AND SEAL)

BOTTOM OF KEY TRENCH

VIBRATING WIRE PIEZOMETER TIP

-FILTER SAND

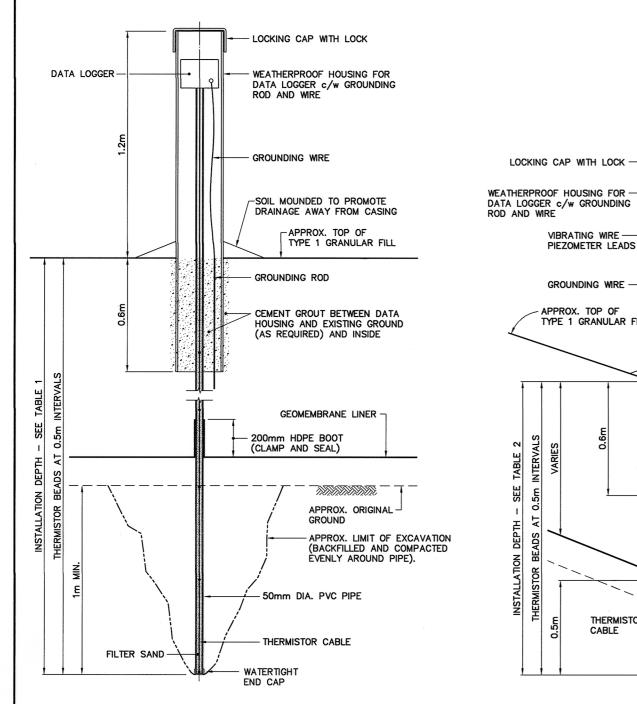
WATERTIGHT END CAP

- APPROX. TOP OF TYPE 1 GRANULAR FILL

-GEOMEMBRANE LINER

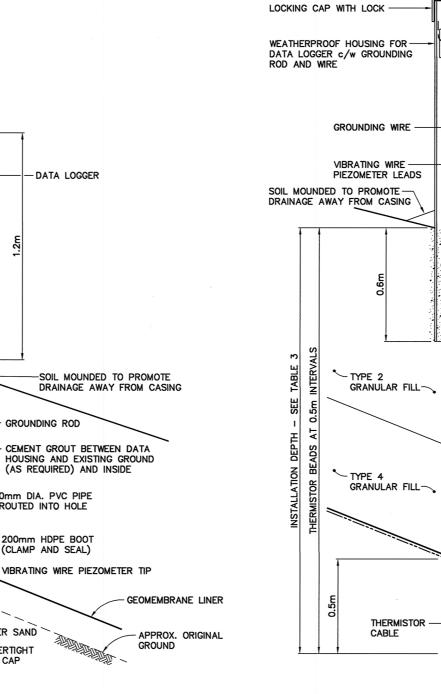
APPROX. ORIGINAL-

7XXX



TYPICAL GROUND TEMPERATURE CABLE SCALE: NTS
MAIN LANDFILL, VT-5, VT-6, VT-7 (PLATEAU)

TYPICAL GROUND TEMPERATURE CABLE SCALE: NTS
MAIN LANDFILL, VT-2/P2, VT-4/P4 (SLOPES WITH PIEZOMETER)



# TYPICAL GROUND TEMPERATURE CABLE

MAIN LANDFILL, VT-1/P1, VT-3/P3, VT-8 (KEY TRENCH WITH PIEZOMETER)

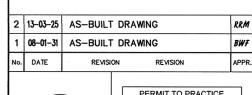
General Notes:

LEVEL.

National Défense Defence, nationale

#### Headquarters Quartier général

- 1. ALL ELEVATIONS REFER TO MEAN SEA
- 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 3. LOCATIONS OF INSTRUMENTATION ARE SHOWN ON THE DRAWINGS INCLUDING COORDINATE TABLES.







DATE 2003-03-3

#### A=COM **EHATCH**

SCALE - ECHELLE AS SHOWN

#### FOX-5 BROUGHTON ISLAND

**DEW LINE CLEAN UP** 

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TRADE - METIER SITING

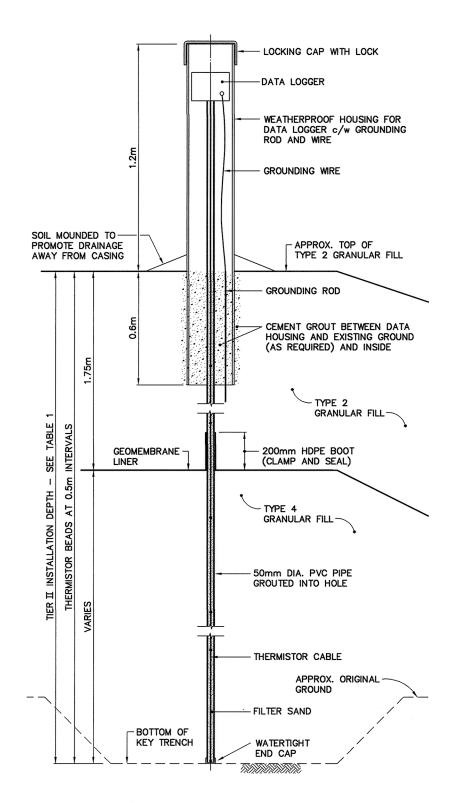
SUBJECT - SUJET

MISCELLANEOUS DETAILS

SHEET 1

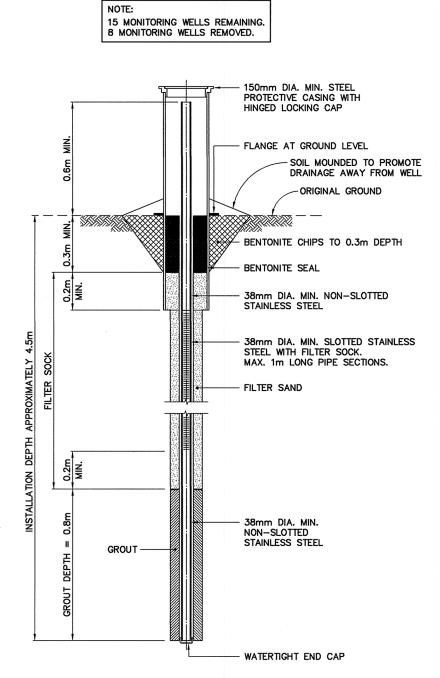
PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINA	COORDINATION REVIEWED - REVU		
	1	DWG. NO DESSIN NO. H-B233/1-9101-12	

TABLE 1 GROUND TEMPERATURE CABLE INSTALLATION			
INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS	
TIER II DISPOSAL FACILITY			
VT-9	4.18	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH	
VT-10	4.25	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH	
VT-11	2.69	INSTALLED TO 1m ABOVE ELEVATION OF BOTTOM LINER	
VT-12	6.24	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH	



### TYPICAL GROUND TEMPERATURE CABLE

TIER II DISPOSAL FACILITY, VT-9, VT-10, VT-11, VT-12

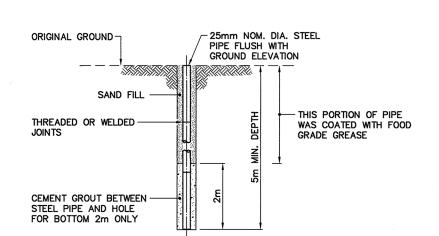


# TYPICAL MONITORING WELL

INCLUDING TYPICAL BACKGROUND MONITORING WELL INSTALLATION

MIN. EMBEDMENT WAS REDUCED IF ROCK WAS ENCOUNTERED. INSTALLATION WAS PENETRATED 2m (MIN.) INTO ROCK.

4 PERMANENT SURVEY CONTROL MONUMENTS INSTALLED.



# TYPICAL PERMANENT SURVEY CONTROL MONUMENT

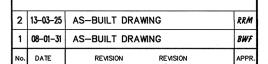
ALSO KNOWN AS PERMANENT BENCHMARK

National Défense
Defence nationale

Headquarters Quartier général

#### General Notes:

- 1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 3. LOCATIONS OF INSTRUMENTATION ARE SHOWN ON THE DRAWINGS INCLUDING COORDINATE TABLES.







**■ HATCH** 

**A=COM** 

SCALE - ECHELLE AS SHOWN

FOX-5 BROUGHTON ISLAND

#### **DEW LINE CLEAN UP**

HER MAJESTY THE QUEEN IN RIGHT OF CANADA 2013, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE.

TRADE - METIER SITING

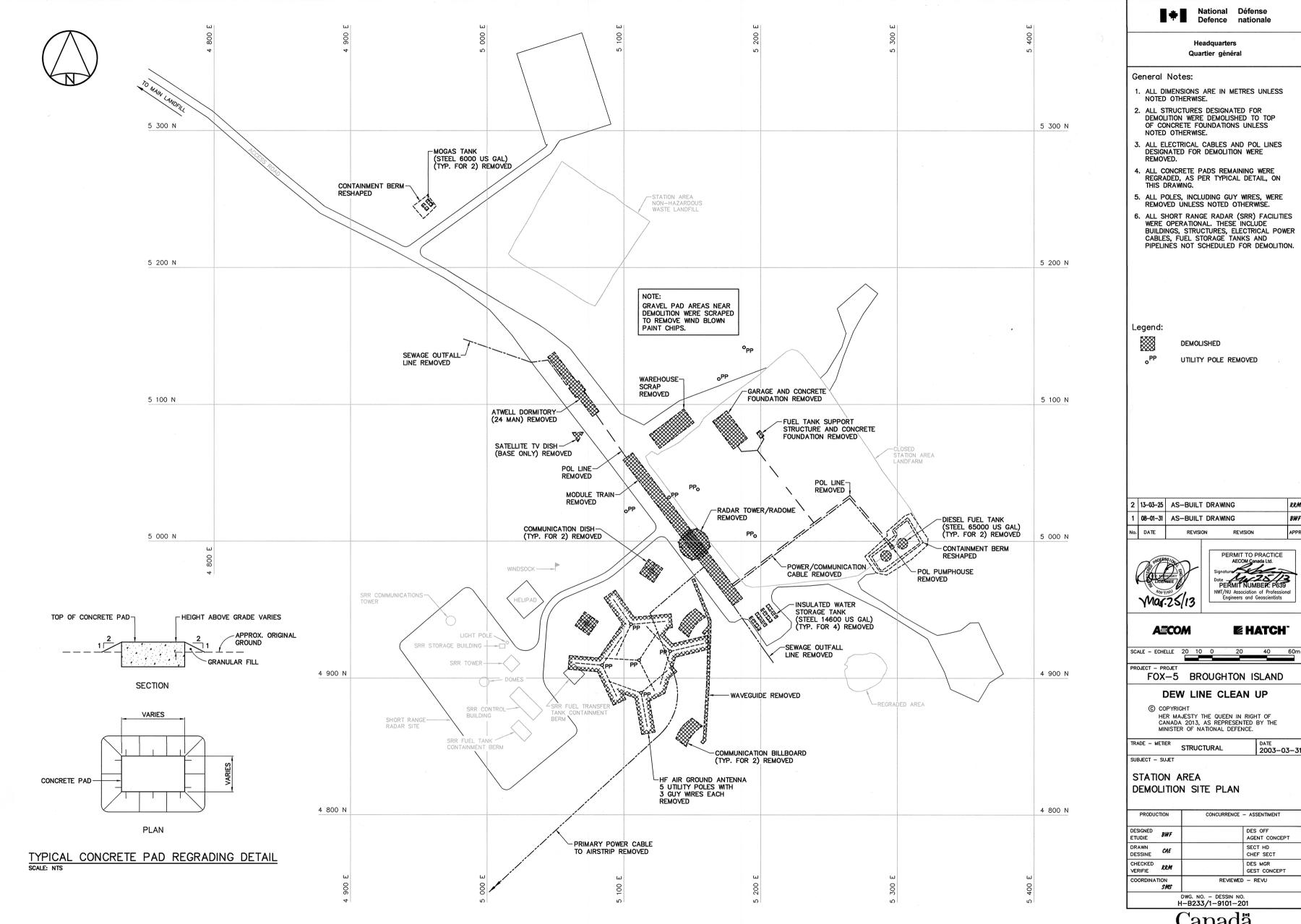
DATE 2003-03-31 SUBJECT - SUJET

#### MISCELLANEOUS DETAILS SHEET 2

PRODUCTION CONCURRENCE - ASSENTIMENT DESIGNED ETUDIE DES OFF AGENT CONCEPT DRAWN DESSINE SECT HD CHEF SECT CAE CHECKED RRM DES MGR GEST CONCEPT COORDINATION SMS REVIEWED - REVU

DWG. NO. - DESSIN NO. H-B233/1-9101-125

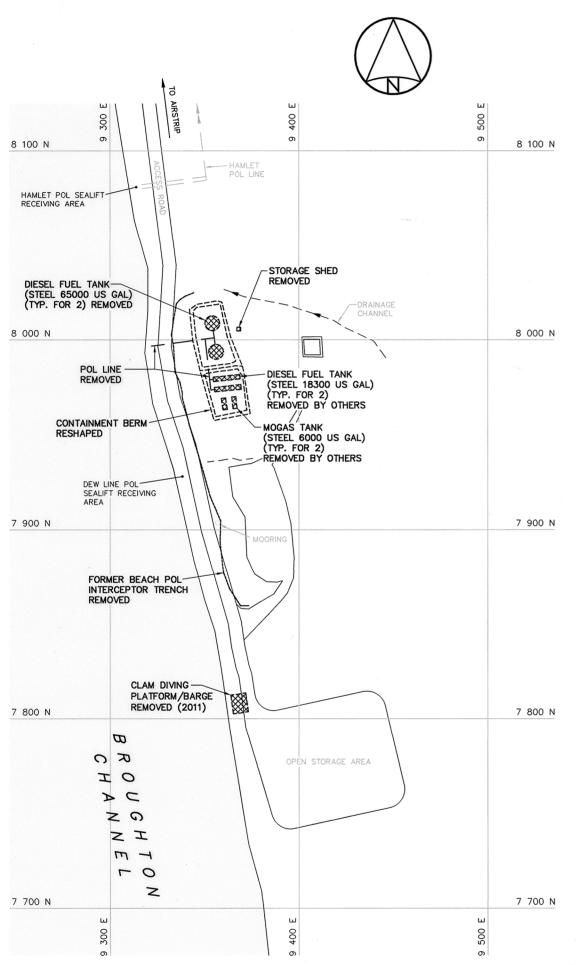




2	13-03-25	AS-BUILT DRAWING	RRA
1	08-01-31	AS-BUILT DRAWING	BW
	D. T.	DE 1401011	



PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF	DES OFF AGENT CONCEPT	
DRAWN DESSINE	CAE	SECT HD CHEF SECT	
CHECKED VERIFIE	RRM	DES MGR GEST CONCEPT	
COORDINATION REVIEWED - RE		REVIEWED - REVU	
		/G. NO. – DESSIN NO. B233/1-9101-201	



STORAGE AREA

HAMLET POL LINE-

POWER/COMMUNICATION -

CABLES, ABOVE GROUND PORTIONS REMOVED

9 400 N

APRON

9 300 N

9 200 N

POWER/COMMUNICATION— CABLES, ABOVE GROUND

> POWER/COMMUNICATION / CABLES, ABOVE GROUND; PORTIONS REMOVED

PORTIONS REMOVED

ROTATING BEACON/TRANSFORMER SUPPORT FRAME REMOVED

°<sub>PP</sub>

800

OVERHEAD LINES REMOVED

HEATED VEHICLE STORAGE
BUILDING REMOVED (2011)

HEATED VEHICLE STORAGE AREA

BEACH AREA



National Défense Defence nationale

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#### General Notes:

 ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Quartier général

- 2. ALL STRUCTURES DESIGNATED FOR DEMOLITION WERE DEMOLISHED TO TOP OF CONCRETE FOUNDATIONS UNLESS NOTED OTHERWISE.
- 3. ALL ELECTRICAL CABLES AND POL LINES DESIGNATED FOR DEMOLITION WERE REMOVED.
- 4. ALL CONCRETE PADS REMAINING WERE REGRADED, AS PER TYPICAL DETAIL, SEE DWG. H—B233/1—9101—201.
- 5. ALL POLES, INCLUDING GUY WIRES, WERE REMOVED UNLESS NOTED OTHERWISE.
- 6. ALL SHORT RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL. THESE INCLUDE BUILDINGS, STRUCTURES, ELECTRICAL POWER CABLES, FUEL STORAGE TANKS AND PIPELINES NOT SCHEDULED FOR DEMOLITION.

Legend:

9 400 N

9 300 N

9 200 N

PRIMARY POWER/COMMUNICATION
CABLE TO STATION AREA REMOVED



DEMOLISHED



UTILITY POLE REMOVED



BODY OF WATER

2	13-03-25	AS-BUILT DRA	WING	RRA
1	08-01-31	AS-BUILT DRA	WING	BW:
No.	DATE	REVISION	REVISION	APP





A=COM

**■ HATCH** 

SCALE - ECHELLE 20 10 0 20 40

PROJECT - PROJET

FOX-5 BROUGHTON ISLAND

#### DEW LINE CLEAN UP

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TRADE - METIER STRUCTURAL

SUBJECT - SUJET

DATE 2003-03-31

BEACH AREA AND HEATED VEHICLE STORAGE AREA DEMOLITION SITE PLANS

PRODUCTION	CONCURRENCE	CONCURRENCE - ASSENTIMENT	
DESIGNED BWF		DES OFF AGENT CONCEPT	
DRAWN DESSINE CAE		SECT HD CHEF SECT	
CHECKED KRM		DES MGR GEST CONCEPT	
COORDINATION SMS	REVIEWED - REVU		

H-B233/1-9101-202