

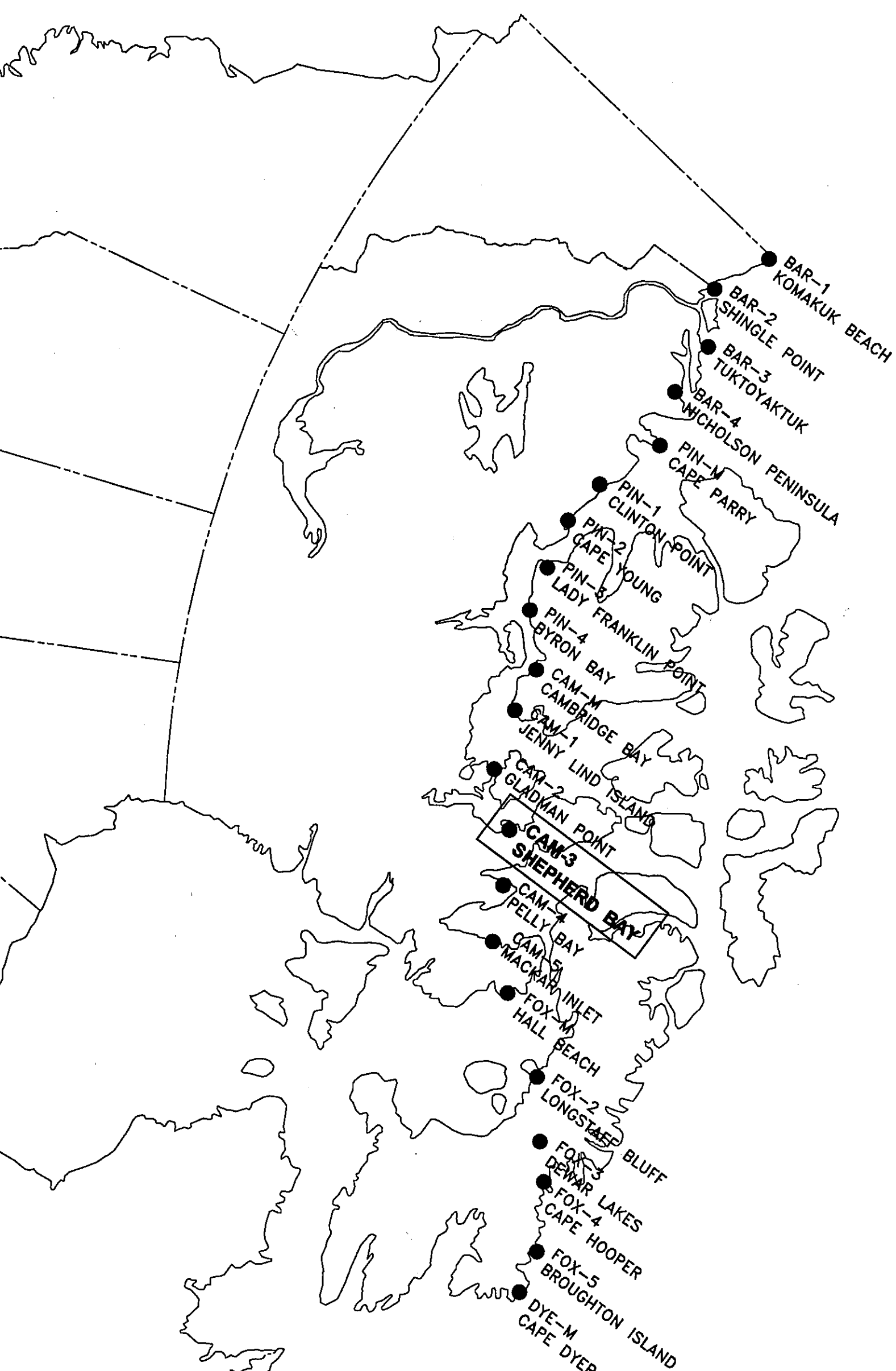
DEW LINE CLEAN UP PROJECT

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CAM-3 SHEPHERD BAY AS-BUILT DRAWINGS



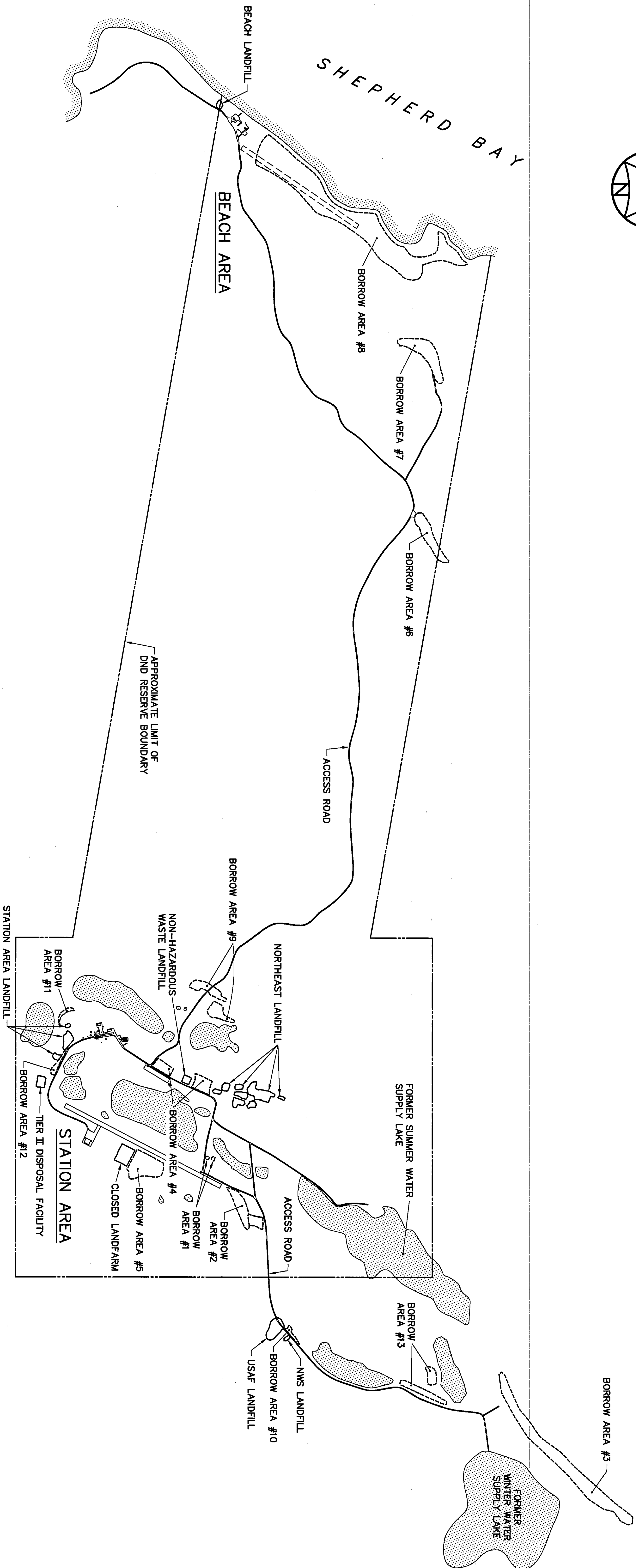
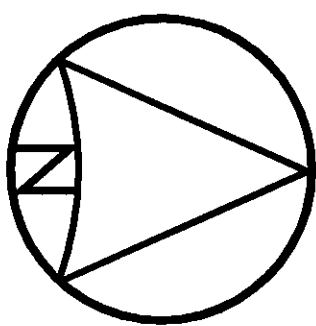
NOTE:
THIS DRAWING PACKAGE HAS BEEN
REVISED BASED ON INFORMATION
SUPPLIED BY DEFENCE CONSTRUCTION
CANADA IN DECEMBER, 2007.
CONTRACT DRAWINGS INCLUDE THE
ENGINEER'S STAMP.

UMA | AECOM

 HATCH™

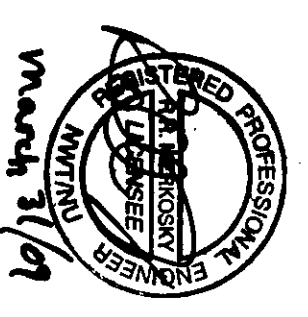
MARCH, 2009

- General Notes:
1. ARCHAEOLOGICAL FEATURES LOCATED AS PER ENVIRONMENTAL CLEAN UP STUDY OF 21 DEW LINE SITES IN CANADA, VOL. 15, UMA 1991.
 2. ALL NON-HAZARDOUS DEBRIS REMOVED WITHIN THE PLAN AREA WAS PLACED IN THE NON-HAZARDOUS WASTE LANDFILL.



- Legend:
- APPROXIMATE LOCATION OF PROPERTY BOUNDARY
 - APPROXIMATE EXTENT OF BORROW AREA
 - BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.
0	09-03-30	AS-BUILT DRAWING		KAM


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AECOM Canada Ltd.
Signature: *[Signature]*
Date: *Apr 3/09*
PERMIT NUMBER: PG39
NWT/NL Association of Professional Engineers and Geoscientists

UMA | AECOM | **HATCH**

SCALE - ÉCHELLE 300 150 0 300 600 900m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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TRADE - MÉTIER	SITING	DATE
		2004-12-10

SUBJECT - SUJET
OVERALL SITE PLAN

PRODUCTION		CONCURRENCE - ASSIGNMENT	
DESIGNED	<i>AMP/KAM</i>	DES. OFF.	
ETUDE		AGENT CONCEPT	
DRAWN	<i>M/LUV</i>	SCOT. HD	
DRAWING		CHEF SCOT.	
CHECKED	<i>KMS</i>	DES. MGR	
VERIFIE		GEST. CONCEPT	
COORDINATION	<i>SMS</i>	REVIEWED - REVU	
DWG. NO. - DESSIN NO. H-S123/2-9101-101			



Headquarters
Quartier général

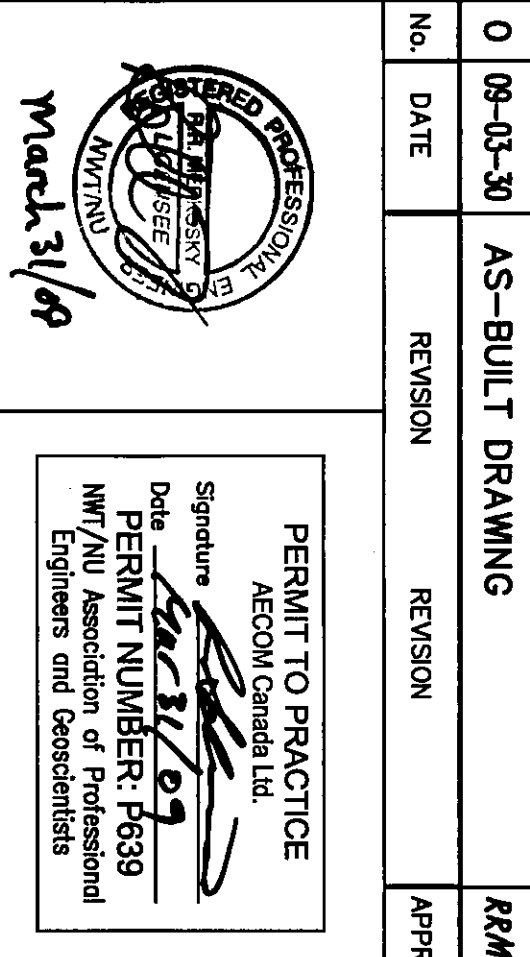
General Notes

1. LOCAL COORDINATE SYSTEM ESTABLISHED BASED ON ASSUMED 40 000 N, 50 000 B AT TEMPORARY BENCHMARK TMBS00.
2. ALL ELEVATIONS ARE REFERENCED TO ASSUMED ELEVATION OF 100M AT TEMPORARY BENCHMARK TMBS00.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. ALL LONG RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL.
5. ARCHAEOLOGICAL FEATURES LOCATED AS PER ENVIRONMENTAL CLEAN UP STUDY OF 21 DEW LINE SITES IN CANADA, VOL. 15, UMA 1991.

Legend:

- Legend for Figure 1:

 - TEMPORARY BENCHMARK (Symbol: A square with a cross inside)
 - APPROXIMATE LOCATION OF PROPERTY BOUNDARY (Symbol: A dashed line)
 - APPROXIMATE EXTENT OF BORROW AREA (Symbol: A solid line)
 - ARCHAEOLOGICAL FEATURE (Symbol: A stippled area)
 - BODY OF WATER (Symbol: A wavy line)



UMA | AECOM  **HATCH**

PROJECT -- PROJECT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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TRADE - METIER	SITING	DATE
		2004-12-10

PROJECT LAYOUT
BEACH AREA
SHEET 1

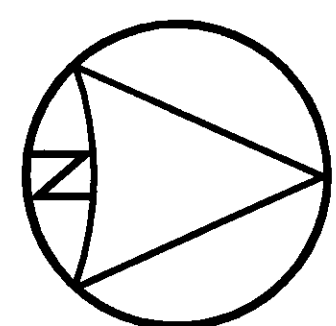
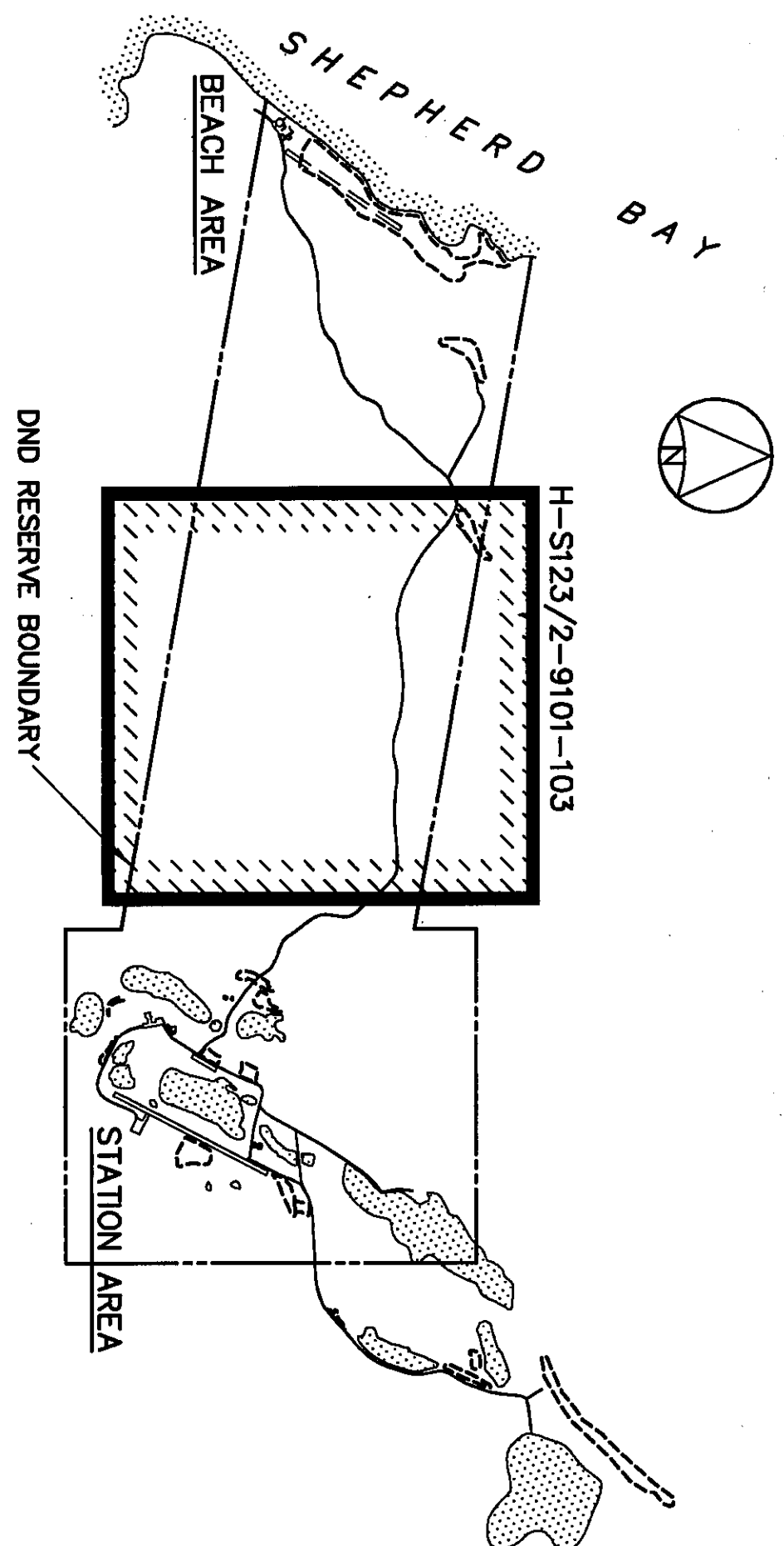
CONCURRENCE - ASSIGNMENT	
DESIGNED <i>AMP/REM</i>	DES OFF AGENT CONCEPT
DESIGNED <i>ETUDE</i>	SECT HD OTHER SECT
DRAMA <i>RM/LIV</i>	DES MGR GEST CONCEPT
CHECKED <i>KMS</i>	
VERIFIED	
COORDINATION <i>SMS</i>	REVIEWED - REVU



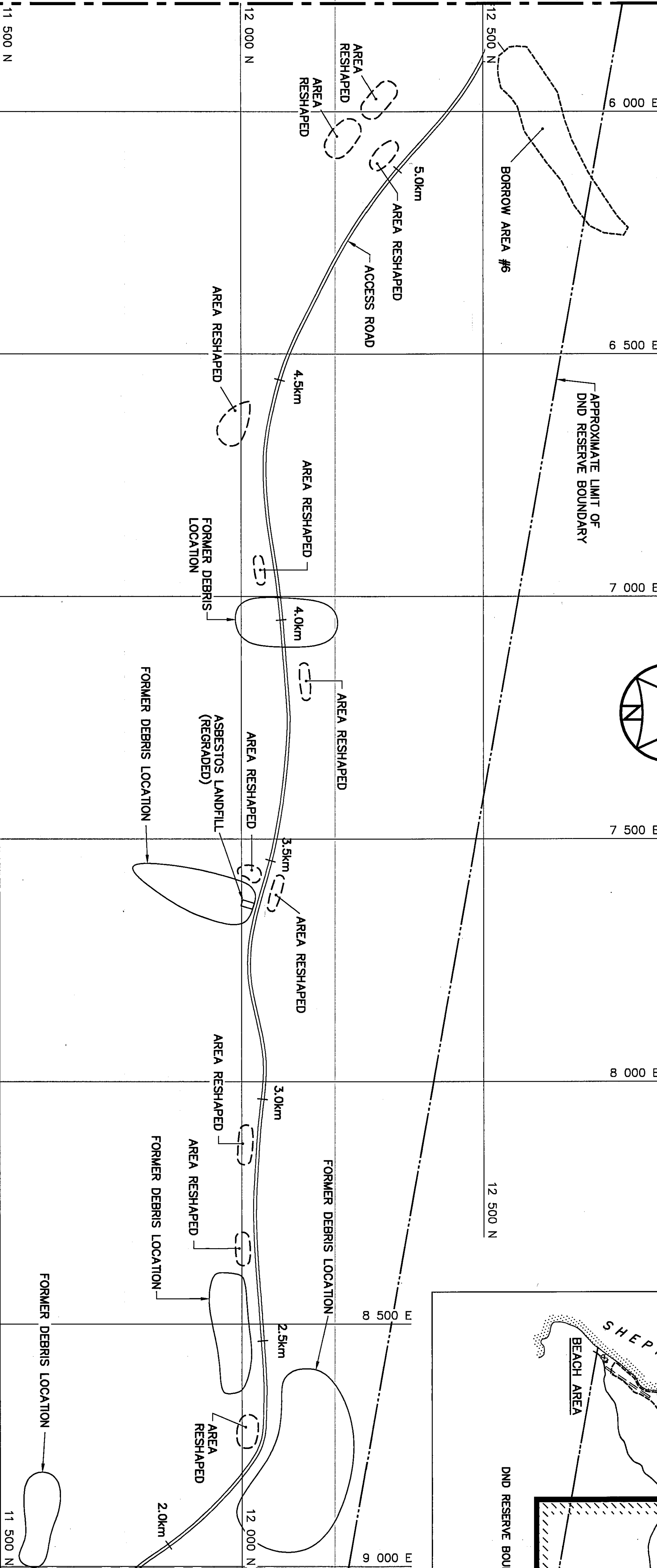
General Notes:

1. LOCAL COORDINATE SYSTEM ESTABLISHED BASED ON ASSUMED 10 000 N, 10 000 E AT SURVEY CONTROL MONUMENT CMT.
2. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL. (REF. DWG. AAP-1, DEPT. OF THE AIR FORCE, USAF).
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. ALL LONG RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL.

KEY PLAN



SEE DWG. H-S123/2-9101-102



SEE DWG. H-S123/2-9101-104

- Legend:
- APPROXIMATE LOCATION OF PROPERTY BOUNDARY
 - APPROXIMATE EXTENT OF BORROW AREA

0	09-03-30	AS-BUILT DRAWING	RAM
No.	DATE	REVISION	APPR.



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Date: *March 21/09*
Permit Number: P699
Mark N. 1/09
Engineers and Geoscientists

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SCALE - ÉCHELLE 100 50 0 100 200 300m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

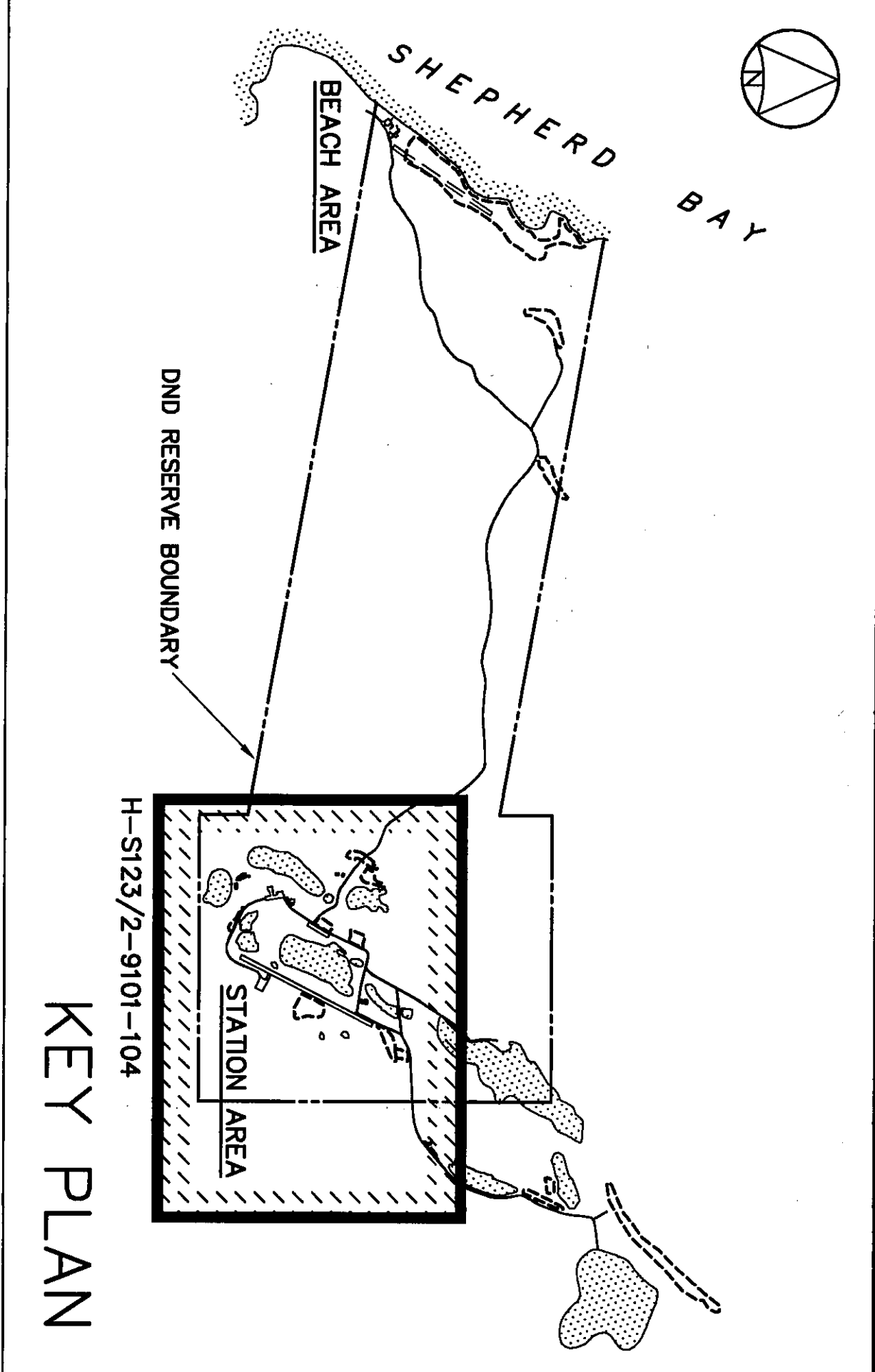
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TRADE - MÉTIER	SITING	DATE
		2004-12-10

SUBJECT - SUJET
PROJECT LAYOUT

BEACH ROAD
SHEET 2

PRODUCTION	CONCURRENCE - ASSÉNTIMENT
DESIGNED <i>AMP/BAH</i>	DES. OFF.
ETUDE <i>AMP/BAH</i>	AGENT CONCEPT
DRAWN <i>TM/LIV</i>	SECT. HD
DRESSINE <i>TM/LIV</i>	CHEF SECT.
CHECKED <i>KMS</i>	DES. MGR.
VERIFIE <i>KMS</i>	GEST. CONCEPT
COORDINATION <i>SWP</i>	REVIEWED - REVU
DWG. NO. - DESSIN NO. H-S123/2-9101-103	

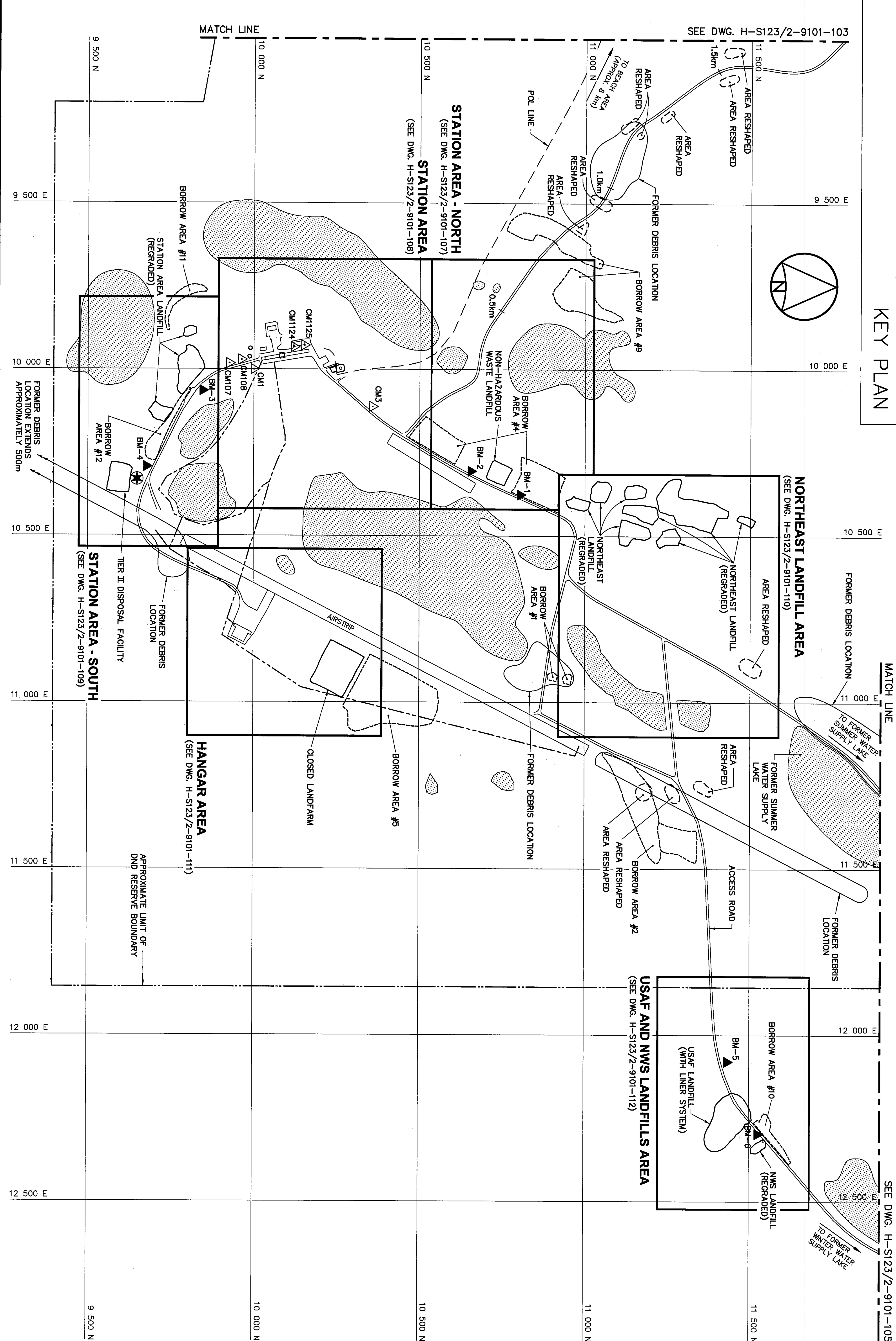


SURVEY CONTROL MONUMENTS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
CM1	10 000.000	10 000.000	41.775	CAM-3 BASELINE
CM3	10 357.750	10 111.994	41.450	OSC MON. 749725
CM1124	10 121.226	9 833.143	43.418	TESCUIT
CM1125	10 152.084	9 927.809	43.406	TESCUIT
CM107	9 982.082	9 982.082	43.670	DMA MON. 11811
CM108	9 926.344	9 970.887	43.680	DMA RM. 11811

PERMANENT BENCHMARKS			
NO.	COORDINATES		DESCRIPTION
	NORTHING	EASTING	
BM-1	10 804.073	10 375.855	42.001 25mm DIA. STEEL PIPE
BM-2	10 655.227	10 305.047	42.002 25mm DIA. STEEL PIPE
BM-3	9 845.782	10 064.384	41.008 25mm DIA. STEEL PIPE
BM-4	9 676.866	10 292.885	42.275 25mm DIA. STEEL PIPE
BM-5	—	—	25mm DIA. STEEL PIPE
BM-6	11 525.266	12 296.706	45.450 25mm DIA. STEEL PIPE

NOTE: THE STATION AREA IS ON A SEPARATE COORDINATE SYSTEM. IT IS NOT TIED-IN TO THE SITE SURVEY AT THE BEACH AREA

***NOTE: NO AS-BUILT SURVEY INFORMATION**



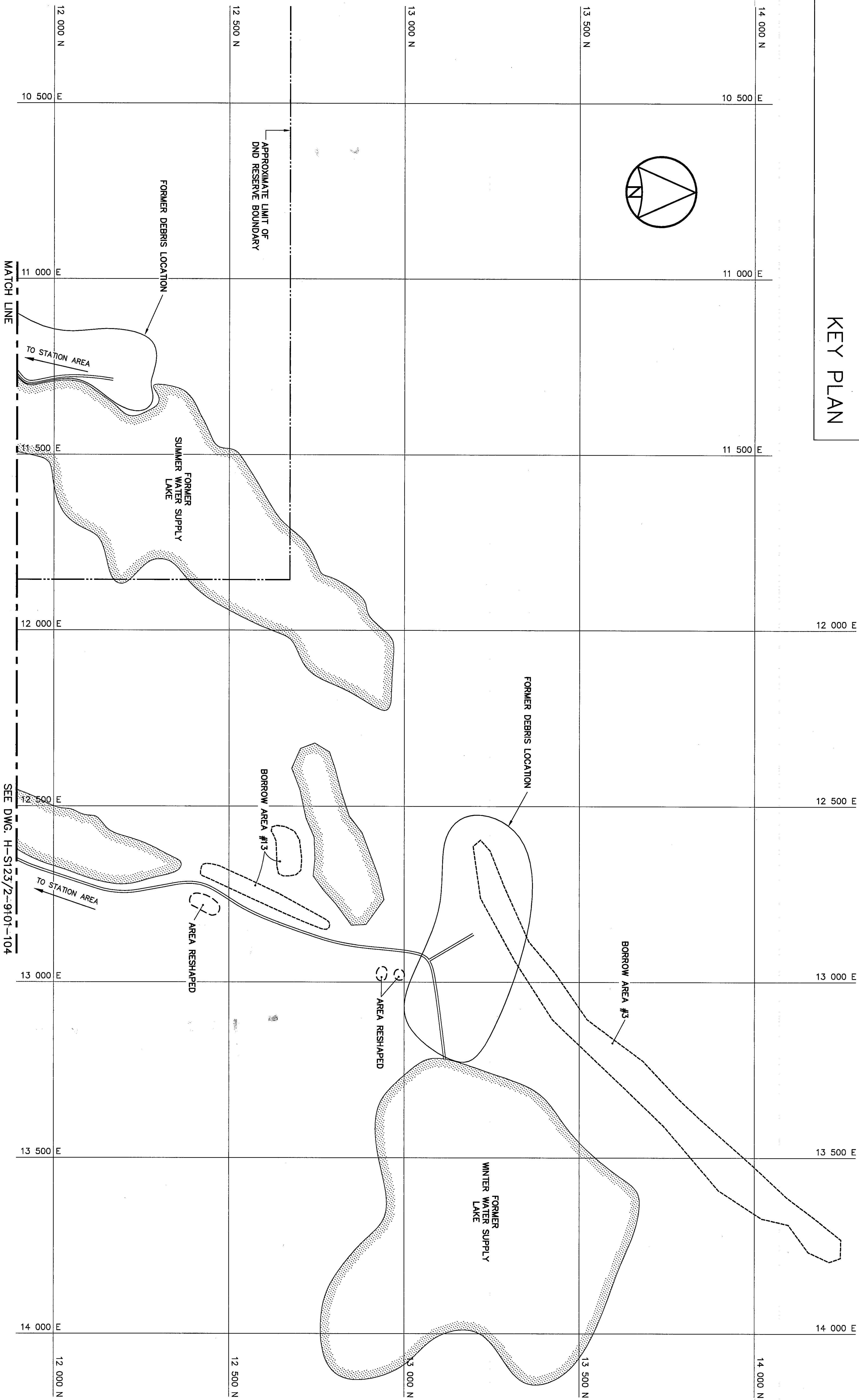
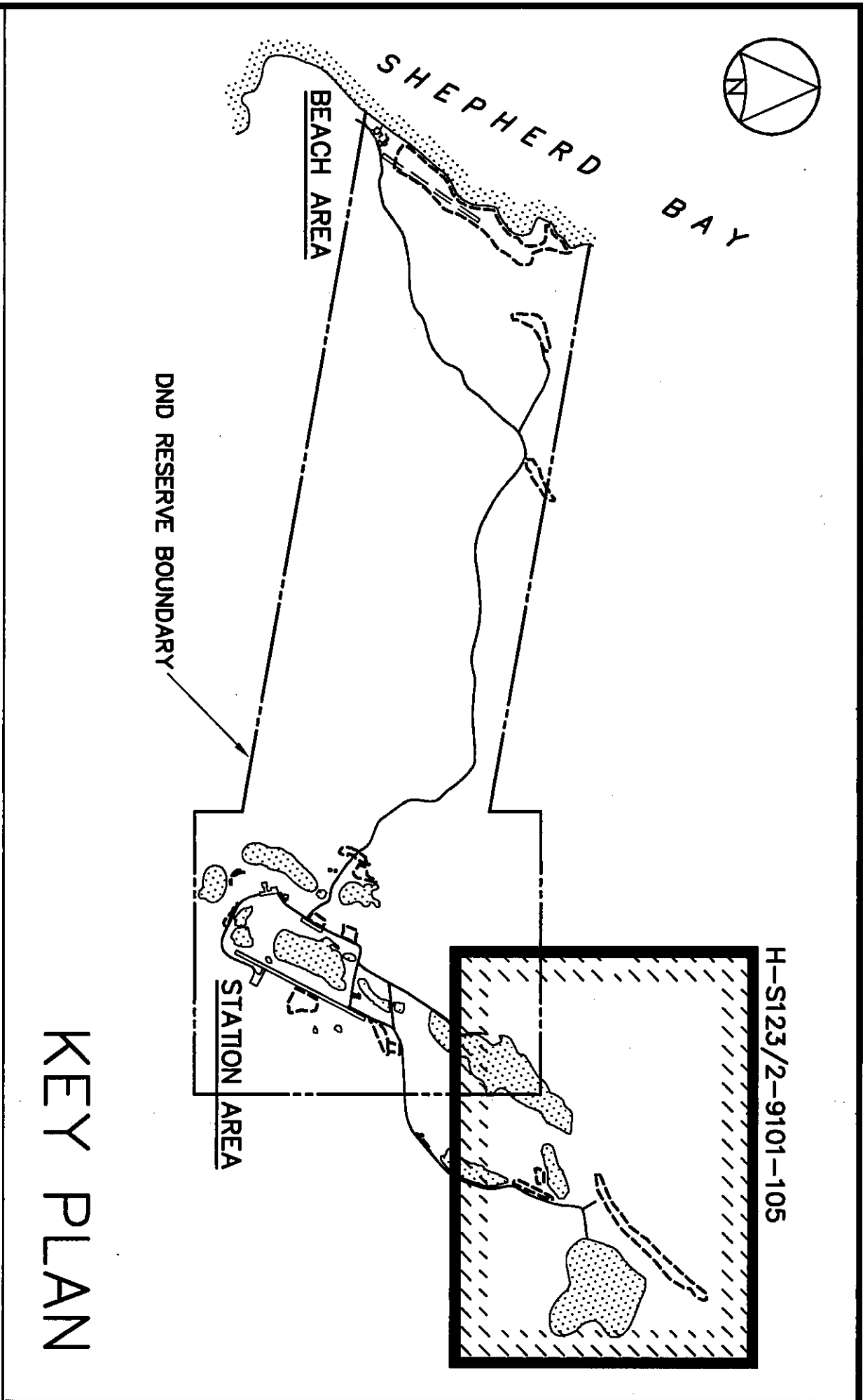
 **National
Defence** **Défense
nationale**

Headquarters
Quartier général

General Notes:

1. LOCAL COMPARTMENT SYSTEM ESTABLISHED BASED ON ASSUMED 10 000 N, 10 000 E AT SURETY CONTROL. MONUMENT CMI.
2. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL. (REF. DWG. AWP-1, DEPT. OF THE ARMY, USAF).
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. ALL LONG RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL.
5. FOR PERMANENT SURVEY CONTROL, (BENCHMARK, INSTALLATION DETAIL), SEE DWG. H-57323-2, 9101-123.

Canada



National Défense
Défense nationale

Headquarters
Quartier général

- General Notes:
1. LOCAL COORDINATE SYSTEM ESTABLISHED BASED ON ASSUMED 10 000 N, 10 000 E AT SURVEY CONTROL MONUMENT CM1.
 2. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL (REF. DWG. AAP-1, DEPT. OF THE AIR FORCE, USAF).
 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 4. ALL LONG RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL.

Legend:

- APPROXIMATE LOCATION OF PROPERTY BOUNDARY
- APPROXIMATE EXTENT OF BORROW AREA
- BODY OF WATER

No.	DATE	REVISION	REVISION	APP.
0	09-03-30	AS-BUILT DRAWING		RJM



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P.Eng. No. 12345
P.Eng. No. 12345

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SCALE - ÉCHELLE 100 50 0 100 200 300m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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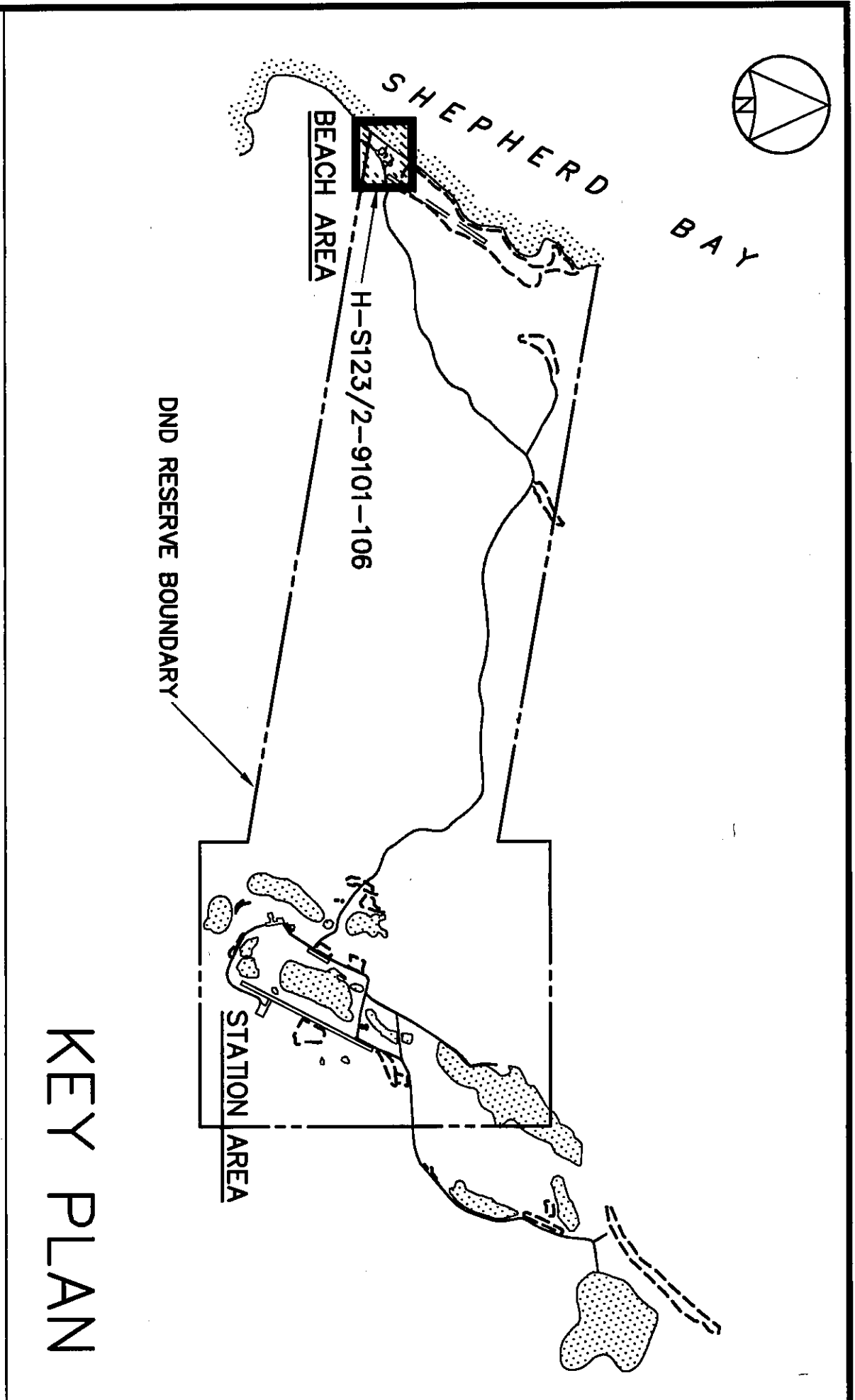
TRADE - MÉTIER
SITING
DATE
2004-12-10

SUBJECT - SUJET
PROJECT LAYOUT
WATER SUPPLY LAKES
SHEET 4

PRODUCTION	CONCURRENCE - ASSÉNIEMENT
DESIGNED AMW/RJM	DES. OFF. AGENT CONCEPT
DRAWN RM/LW	SECT. HD. CHIEF SECT.
CHECKED AMW	DES. MGR. GEST. CONCEPT
COORDINATION JMS	REVIEWED - REVU

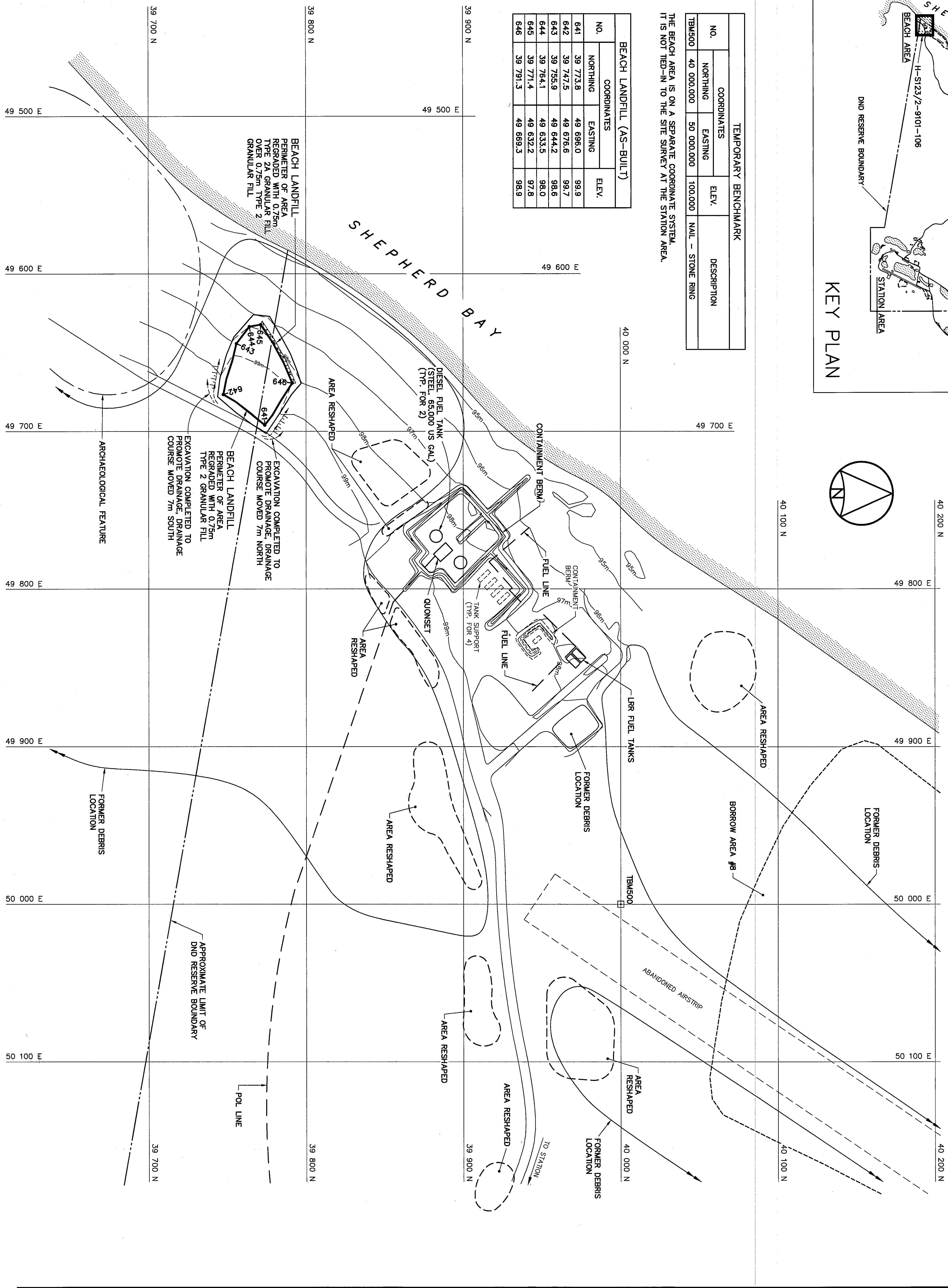
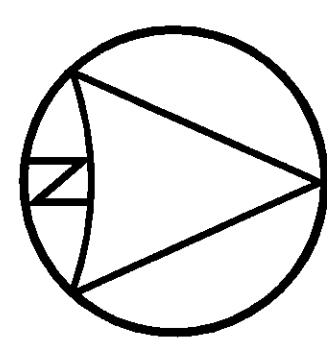
DWG. NO. - DESSIN NO.
H-S123/2-9101-105

Canada



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

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



BEACH LANDFILL (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
641	39 773.8	49 696.0	99.9
642	39 747.5	49 676.6	99.7
643	39 755.9	49 644.2	98.6
644	39 764.1	49 633.5	98.0
645	39 771.4	49 632.2	97.8
646	39 791.3	49 689.3	98.9

TEMPORARY BENCHMARK			
NO.	COORDINATES		DESCRIPTION
	NORTHING	EASTING	
TBM500	40 000.000	50 000.000	NAIL - STONE RING

THE BEACH AREA IS ON A SEPARATE COORDINATE SYSTEM.
IT IS NOT TIED-IN TO THE SITE SURVEY AT THE STATION AREA.

National Défense
Quartier général

Headquarters
Quartier général

- General Notes:
1. ALL ELEVATIONS ARE REFERENCED TO ASSUMED ELEVATION OF 100m AT TEMPORARY BENCHMARK TBM500.
 2. HORIZONTAL CONTROL REFERENCED TO BEACH AREA TEMPORARY BENCHMARK TBM500.
 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 4. ALL LONG RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL.

- Legend:
- TBM500 TEMPORARY BENCHMARK
 - +•+• COORDINATE POINT
 - FORMER BUILDING, STRUCTURE OR TANK LOCATION
 - BODY OF WATER

No.	DATE	REVISION	REVISION	APP.
0	09-03-30	AS-BUILT DRAWING		RAM

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Date: [Date]
PERMIT NUMBER: PB39
AMT/PA Association of Professional Engineers and Geoscientists

UMA | AECOM | HATCH

SCALE - ECHELLE 20 10 0 20 40 60m

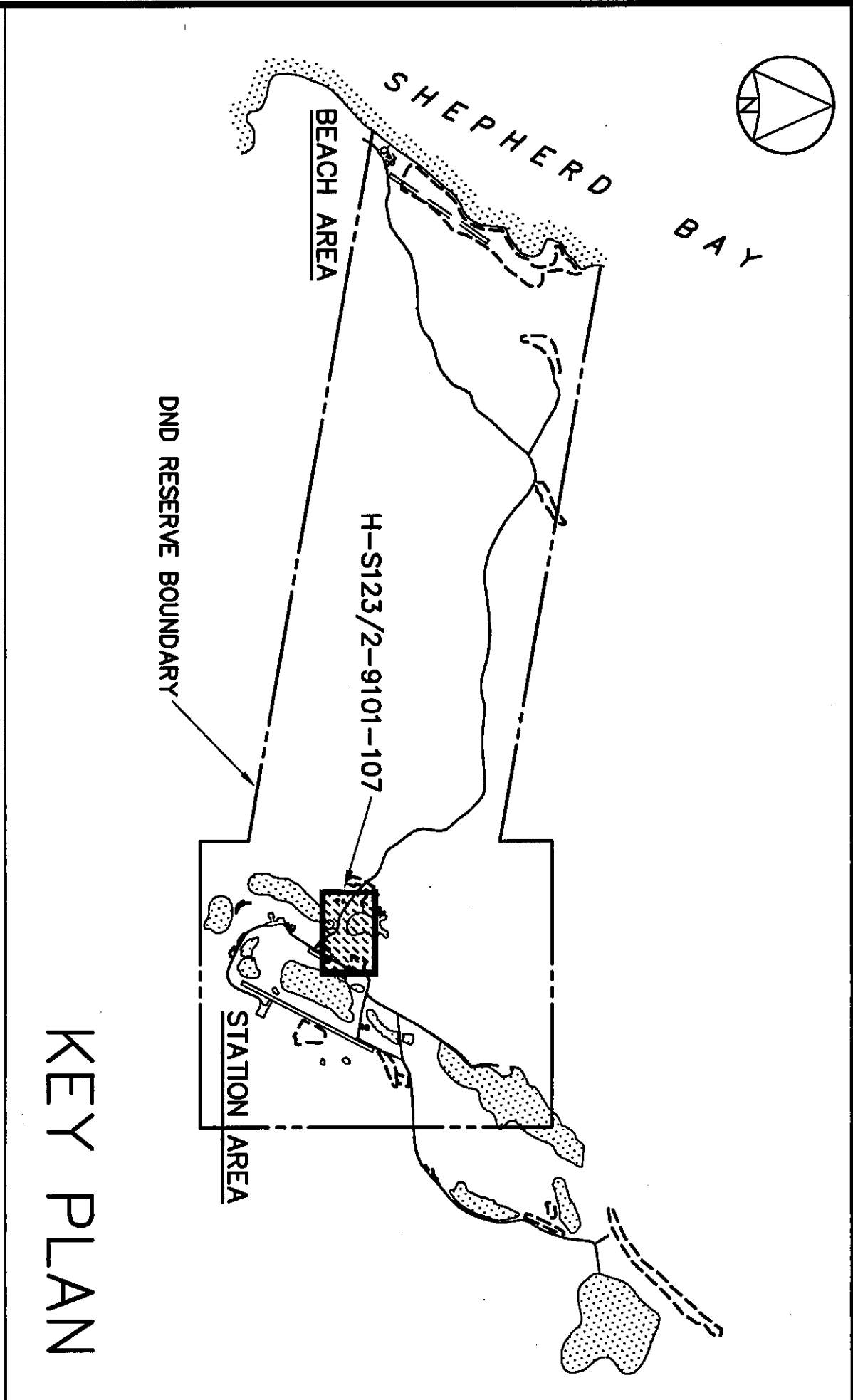
PROJECT - PROJECT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

BEACH AREA
SITE PLAN

PRODUCTION		CONCURRENCE - ASSIGMENT	
DESIGNED	AMP/RAH	DES OFF	
ETUDE	AMP/RAH	AGENT CONCEPT	
DRAWN	AM/LIV	SECT HD	
DRESINE	AM/LIV	CHEF SECT	
CHECKED	AMS	DES MGR	
VERIFIE	AMS	GEST CONCEPT	
COORDINATION	AMS	REVIEWED - REVU	

Canada



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

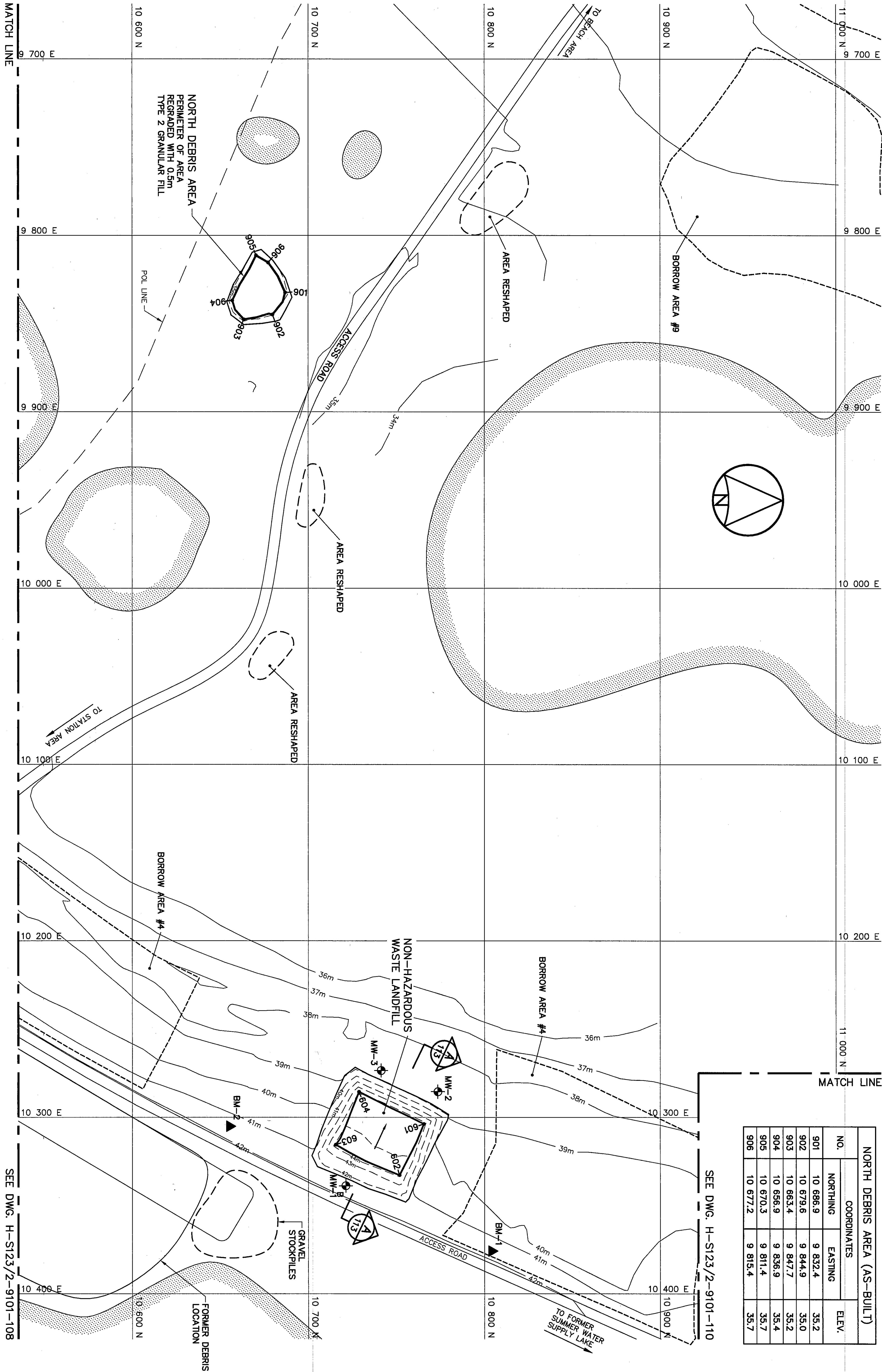
NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

PERMANENT BENCHMARKS (AS-BUILT)				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
BM-1	10 804.073	10 375.885	42.001	25mm DIA. STEEL PIPE
BM-2	10 655.227	10 305.047	42.024	25mm DIA. STEEL PIPE

NON-HAZARDOUS WASTE LANDFILL (AS-BUILT)				
NO.	COORDINATES		ELEV.	
	NORTHING	EASTING		
601	10 765.5	10 303.7	43.4	
602	10 751.6	10 332.7	44.1	
603	10 715.4	10 315.4	44.3	
604	10 728.6	10 285.6	42.9	

NON-HAZARDOUS WASTE LANDFILL MONITORING WELLS (AS-BUILT)				
NO.	COORDINATES		ELEV. (GAP)	
	NORTHING	EASTING		
MW-1	10 721.1	10 338.8	42.2	
MW-2	10 773.5	10 285.5	39.2	
MW-3	10 741.2	10 273.6	39.6	

NORTH DEBRIS AREA (AS-BUILT)				
NO.	COORDINATES		ELEV.	
	NORTHING	EASTING		
901	10 686.9	9 832.4	35.2	
902	10 679.6	9 844.9	35.0	
903	10 663.4	9 847.7	35.2	
904	10 656.9	9 836.9	35.4	
905	10 670.3	9 811.4	35.7	
906	10 677.2	9 815.4	35.7	



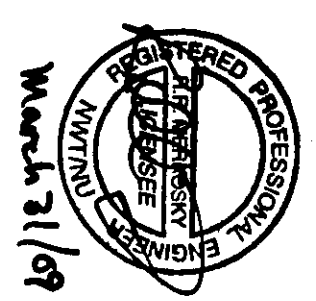
National Defence
Défense nationale

Headquarters
Quartier général

- General Notes:
- ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
 - HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT CMI.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - FOR PERMANENT SURVEY CONTROL, (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-S123/2-9101-123.
 - FOR MONITORING WELL INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-123.

- Legend:
- ▲ BM-1 PERMANENT BENCHMARK LOCATION (2)
 - COORDINATE POINT
 - ⊕ MONITORING WELL LOCATION (2)
 - ⊕ BACKGROUND MONITORING WELL LOCATION (1)
 - BODY OF WATER

No.	DATE	REVISION	REVISION	APP.
0	09-05-30	AS-BUILT DRAWING		RHM



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Signature: *[Signature]*
Date: *March 21/09*
PERMIT NUMBER: P639
N/A/NI Association of Professional Engineers and Geoscientists

UMA | AECOM | HATCH

SCALE - METERS 20 10 0 20 40 60m
PROJECT - PROJECT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

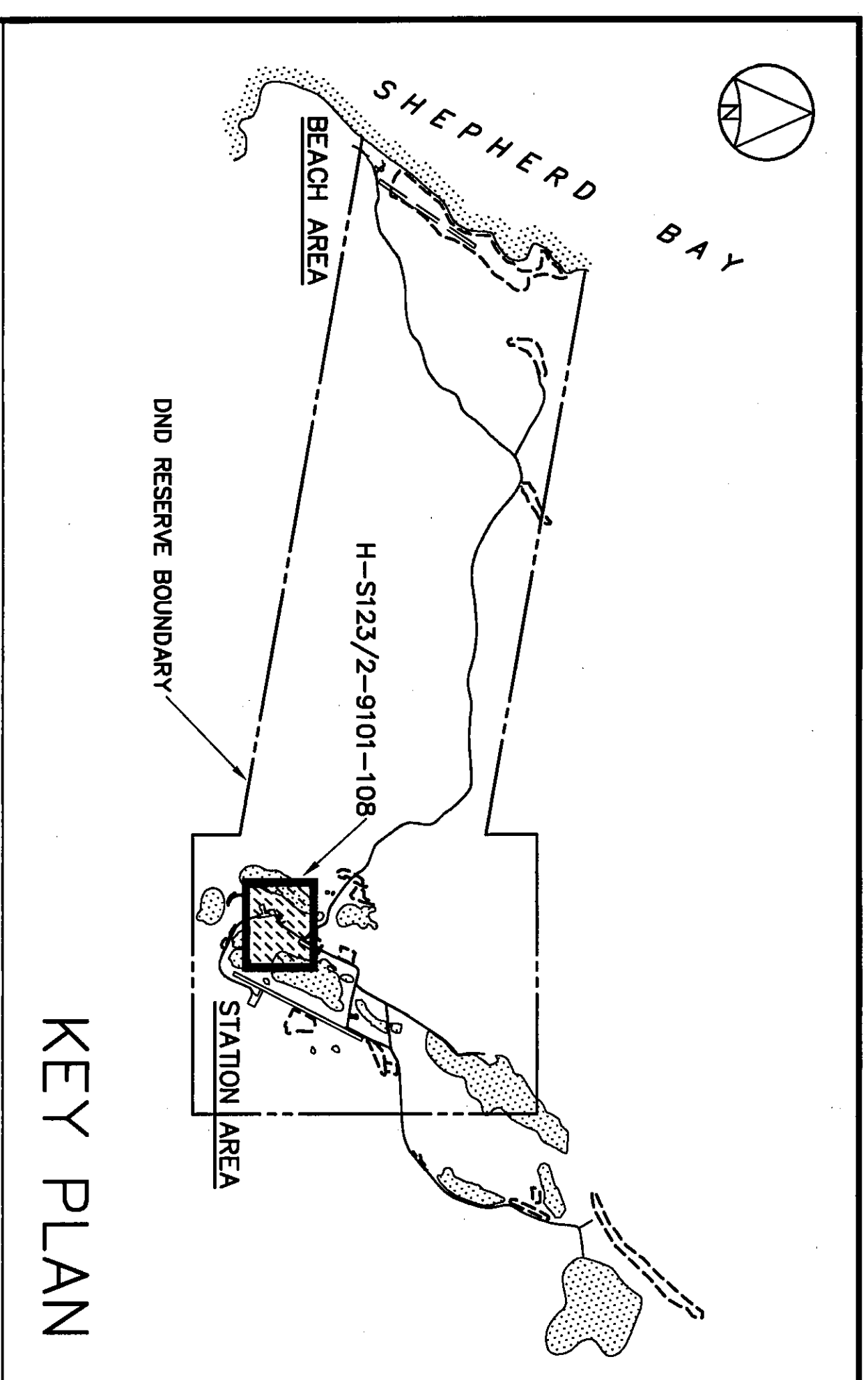
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TRADE - METERS	SITING	DATE
SUBJECT - SLEET		2004-12-10
STATION AREA-NORTH SITE PLAN		

PRODUCTION		CONCURRENCE - ASSIGNMENT	
DESIGNED	AMP/RLM	DES OFF	
ETUDE		AGENT CONCEPT	
DRAWN	RL/LIV	SCOT HD	
DRESINE	RL/LIV	CHEF SCOT	
CHECKED	AMS	DES MGR	
VERIFIE		GEST CONCEPT	
COORDINATION	AMS	REVIEWED - REVU	

DWG. NO. - DESIGN NO.
H-S123/2-9101-107

Canada



STATION POL. DEBRIS AREA
PERIMETER OF AREAS REGRADED
WITH 0.75m TYPE 2 GRANULAR FILL

FORMER DEBRIS
LOCATION

BORROW
AREA #4

TO NORTHEAST LANDFILL

3 HAZ. MATERIAL
STORAGE CONTAINERS
REMOVED

FORMER POND RESHAPED

FORMER POND RESHAPED

Elevations: 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 16

SEE DWG. H-S123/2-9101-107

KEY PLAN

STATION POL DEBRIS AREA
AREA REGRADED WITH 0.4m
TYPE 2A GRANULAR FILL
OVER 0.35m TYPE 2
GRANULAR FILL

STATION POL DEBRIS AREA
PERIMETER OF AREAS REGRADED
WITH 0.75m TYPE 2 GRANULAR FILL

STATION POL DEBRIS AREA
PERIMETER OF AREAS REGRADED
WITH 0.75m TYPE 2 GRANULAR FILL

SURVEY CONTROL MONUMENTS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
CM1	10 000.000	10 000.000	41.775	CGM-3 BASELINE
CM3	10 357.750	10 111.994	41.450	GSC MON. 7/69/25
CM1124	10 121.226	9 933.143	43.418	TCSULT
CM1125	10 152.084	9 927.809	43.406	TCSULT
CM107	9 928.007	9 982.062	43.107	DMA MON. 11/81
CM108	9 982.344	9 970.897	42.690	DMA RM. 11/81

NOTE: THE STATION AREA IS ON A SEPARATE COORDINATE SYSTEM.
IT IS NOT TIED-IN TO THE SITE SURVEY AT THE BEACH AREA.

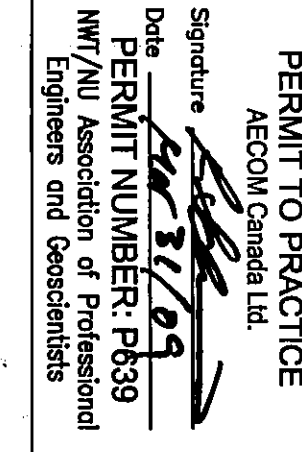
NOTE:
CONTOURS SHOWN AS DASHED LINES WERE
GENERATED FROM SURVEY INFORMATION
AND REPRESENT FINISHED GROUND SURFACE
FOLLOWING REGRADE OR RESHAPING.

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

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

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



HATCH

DEW LINE CLEAN UP

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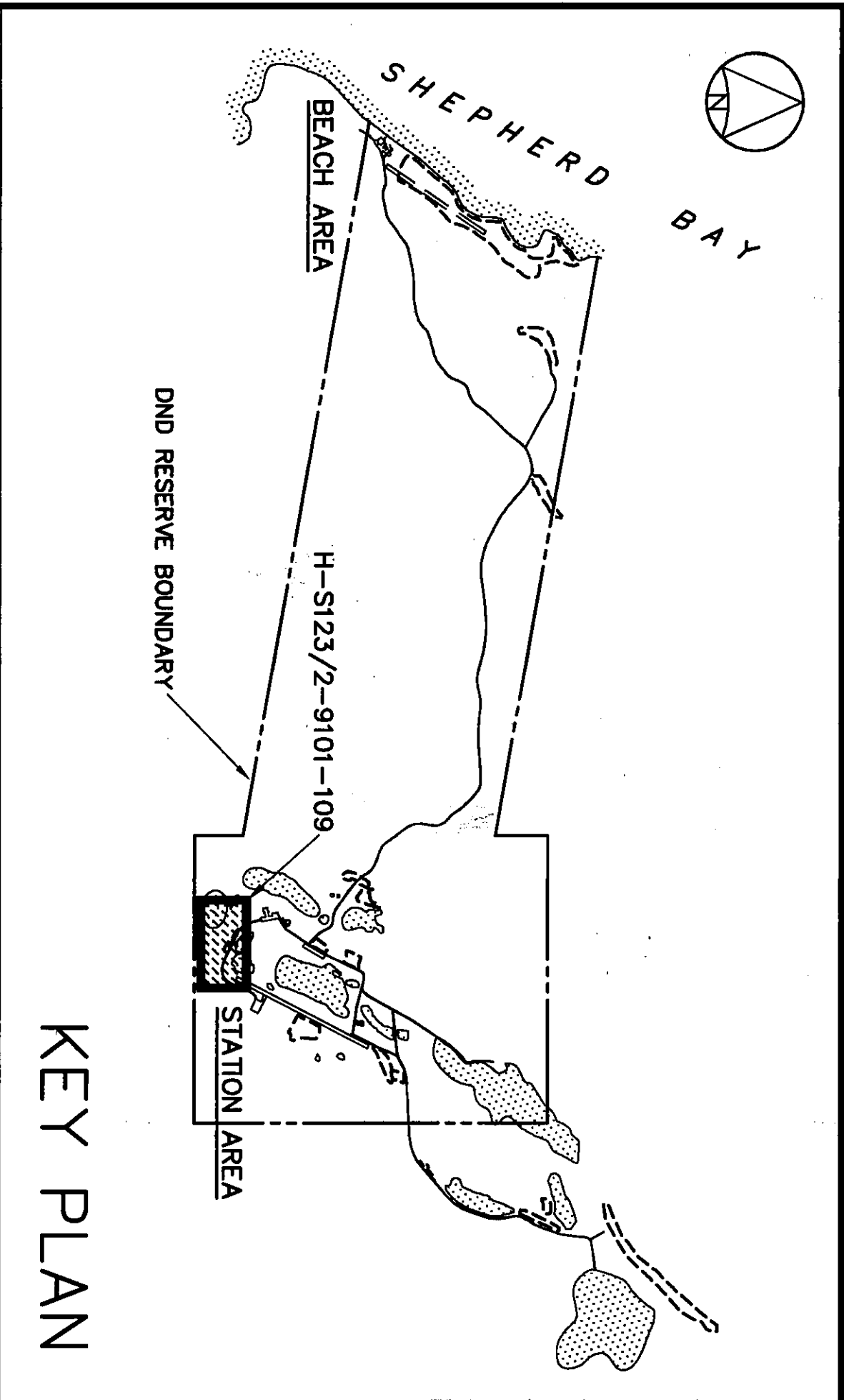
TRADE - METIER	DATE
SITING	2004-12-10

STATION AREA
SITE PLAN

PRODUCTION	CONCURRENCE - ASSÉNTIMENT
DESIGNED ETUDE BRAIN	DES OFF AGENT CONCEPT
DESIGNED M/LUV	SECT HD CHIEF SECT
CHECKED VENUE	DES MOR GUEST CONCEPT
COORDINATION <i>SMS</i>	REVIEWED - REVU

DWG. NO. - DESSIN NO
H-S123/2-9101-108

Canada

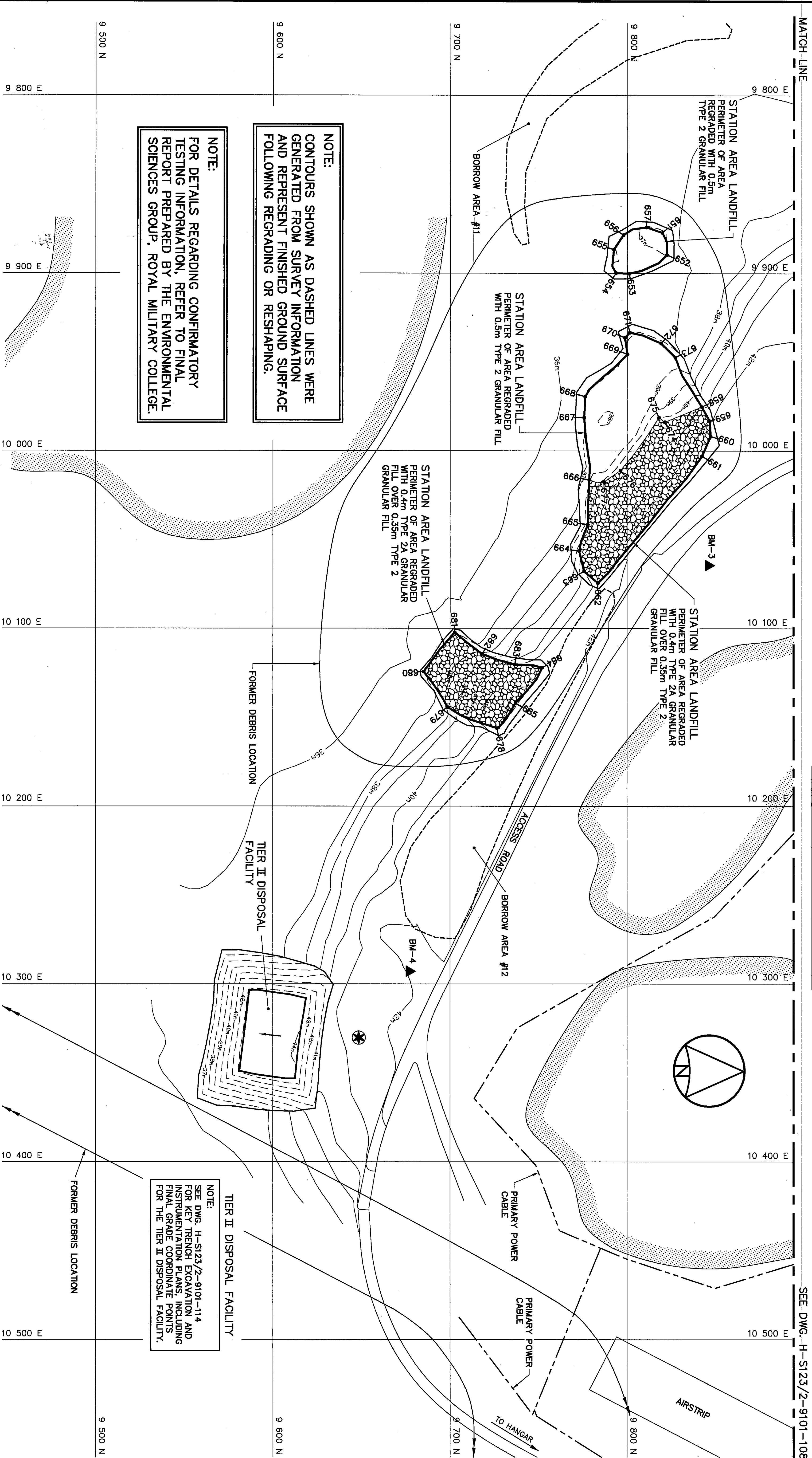


STATION AREA LANDFILL (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
651	9 819.7	9 877.2	37.2
652	9 822.2	9 889.6	37.0
653	9 801.1	9 900.1	36.9
654	9 793.6	9 899.8	36.9
655	9 792.4	9 886.6	37.0
656	9 797.7	9 878.5	36.9
657	9 810.8	9 874.1	37.1

STATION AREA LANDFILL (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
658	9 842.1	9 975.2	41.1
659	9 846.6	9 983.3	42.1
660	9 847.0	9 991.8	42.6
661	9 842.2	10 002.9	42.9
662	9 783.4	10 074.4	41.8
663	9 775.6	10 067.7	41.0
664	9 772.7	10 066.2	39.4
665	9 772.7	10 041.4	38.4
666	9 778.5	10 016.2	37.9
667	9 775.5	9 981.2	37.0
668	9 776.2	9 989.4	37.1
669	9 800.0	9 945.5	37.1
670	9 798.6	9 936.2	36.9
671	9 801.4	9 933.2	36.9
672	9 819.0	9 939.3	37.3
673	9 827.1	9 947.3	37.6
674	9 821.2	9 983.8	40.5
675	9 817.8	9 981.1	40.0
676	9 786.1	10 011.0	39.7
677	9 786.8	10 017.4	39.3

STATION AREA LANDFILL (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
678	9 726.5	10 156.0	42.1
679	9 698.4	10 144.0	38.2
680	9 685.0	10 124.3	36.8
681	9 702.5	10 102.1	36.9
682	9 718.0	10 114.3	38.2
683	9 736.5	10 120.2	40.7
684	9 752.0	10 121.9	42.0
685	9 736.9	10 141.9	42.2

PERMANENT BENCHMARKS			
NO.	COORDINATES		DESCRIPTION
	NORTHING	EASTING	
BM-3	9 845.782	10 064.384	41.808 25mm DIA. STEEL PIPE
BM-4	9 676.856	10 292.885	42.275 25mm DIA. STEEL PIPE



National Defence
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT C.M. NOTED OTHERWISE.
3. ALL DIMENSIONS ARE IN METRES UNLESS WERE OPERATIONAL.
4. ALL LONG RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL.
5. FOR PERMANENT SURVEY CONTROL BENCHMARK INSTALLATION DETAIL, SEE DWG. H-S123/2-9101-123.

Legend:

- ▲ BM-5 PERMANENT BENCHMARK LOCATION (2)
- ⊕ APPROXIMATE LOCATION OF CARVED STONE MONUMENT COORDINATE POINT
- 651 BODY OF WATER

0 10-05-30 AS-BUILT DRAWING R/M

DATE REVISION

DATE REVISION

APPROVED

PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature: [Signature]
Date: 2004-12-10
PERMIT NUMBER: P639
AM/PLI (Licence of Professional Engineer and Architect)

UMA AECOM HATCH

SCALE - ECHÈLLE 20 10 0 20 40 60m

PROJECT - PROJECT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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MINISTER OF NATIONAL DEFENCE.

TRADE - WETTER SITING DATE 2004-12-10

SUBJECT - SLEET

STATION AREA-SOUTH
SITE PLAN

PRODUCTION CONCURRENCE - ASSIGNMENT

DESIGNED AM/RLM DES OFF

ETUDE AGENT CONCEPT

DRAWN RM/LIV SCOT HD

DRESINE CHIEF SCOT

CHECKED AM/RLM DES MGR

VERIFIE GEST CONCEPT

COORDINATION 5/M/

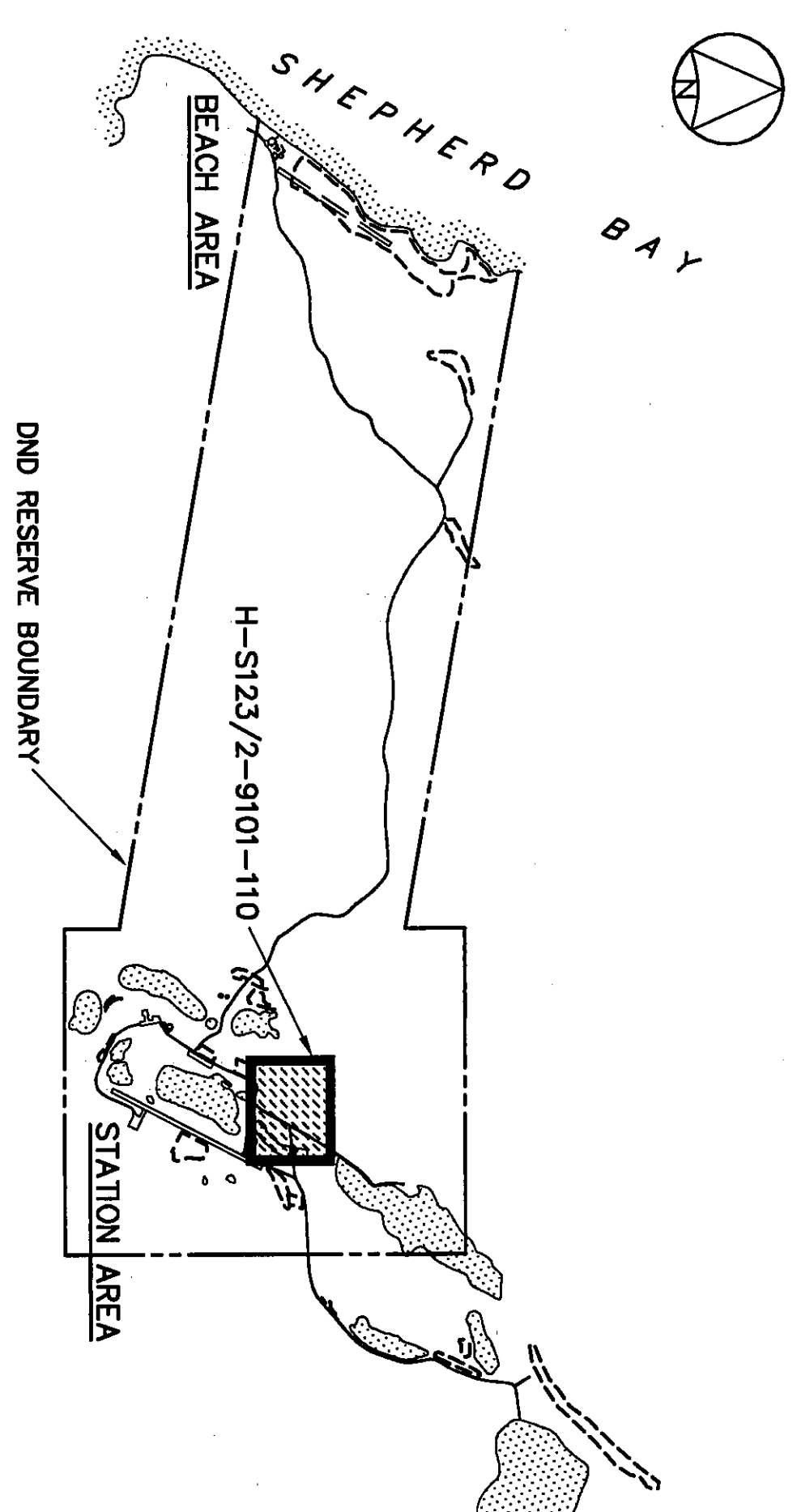
DWG. NO. - DESIGN NO.
H-S123/2-9101-109

Canada

**Headquarters
Quartier général**

General Notes:

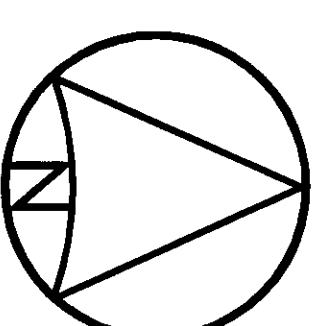
1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT CMI.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.



KEY PLAN

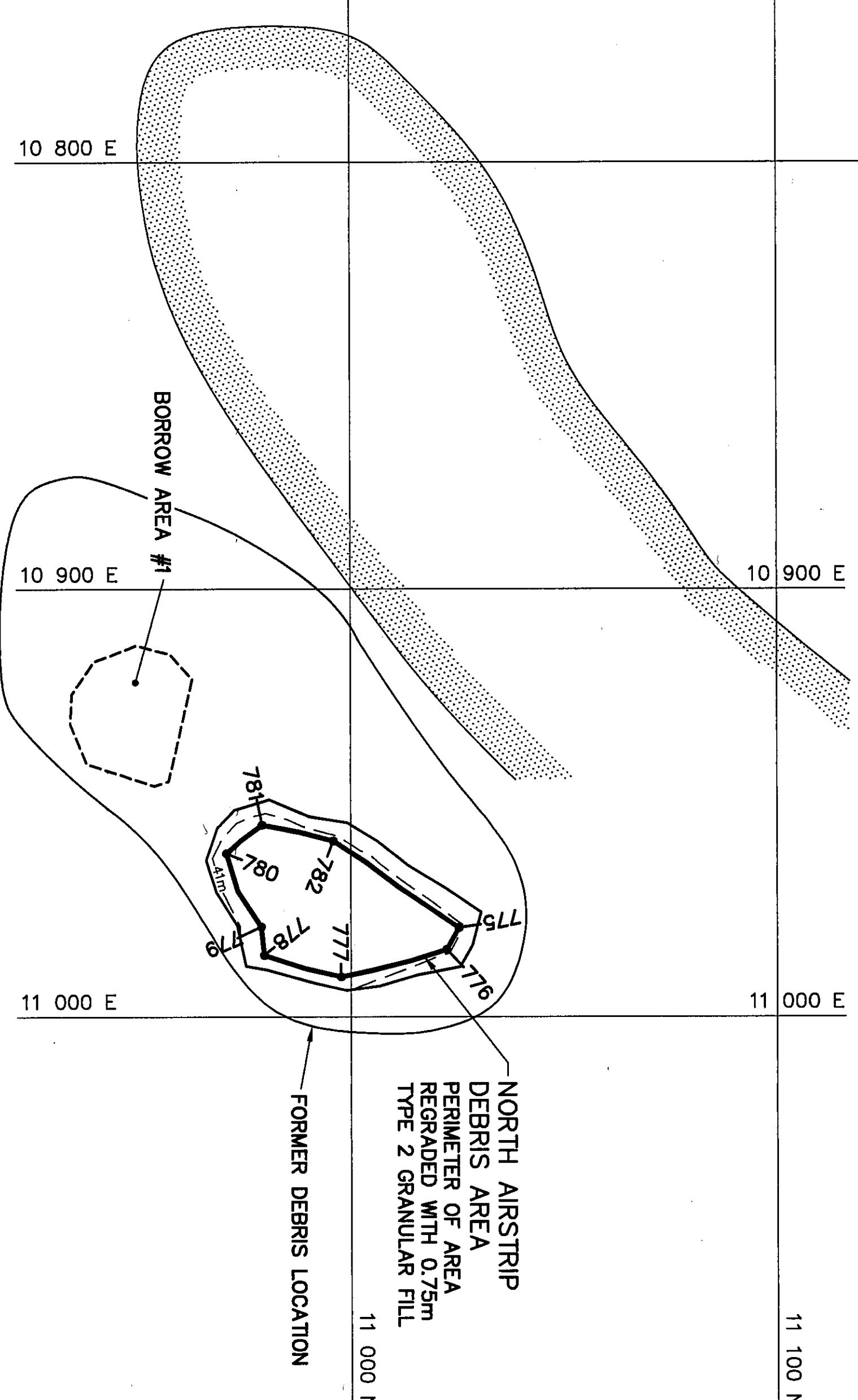
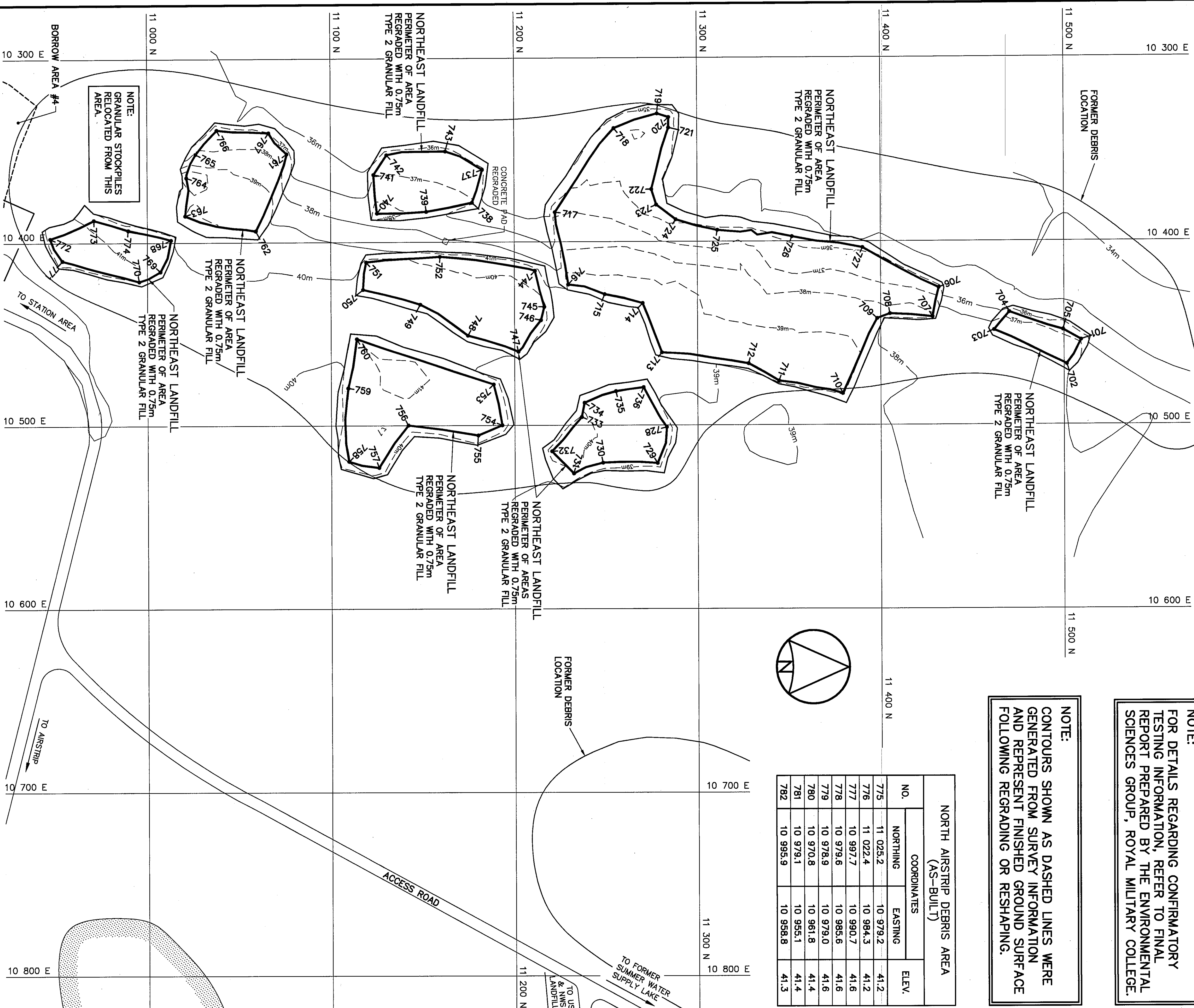
NOTE: FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

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



NORTH AIRSTRIP DEBRIS AREA (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
775	11 025.2	10 979.2	41.2
776	11 022.4	10 964.3	41.2
777	10 997.7	10 960.7	41.6
778	10 979.6	10 985.6	41.6
779	10 978.9	10 979.0	41.6
780	10 970.8	10 981.8	41.4
781	10 979.1	10 985.1	41.4
782	10 956.9	10 958.8	41.3

NORTHEAST LANDFILL (AS-BUILT)							
NO.	COORDINATES			NO.	COORDINATES		
	NORTHING	EASTING	ELEV.		NORTHING	EASTING	ELEV.
701	11 509.2	10 454.2	36.5	738	11 177.0	10 378.6	37.1
702	11 501.4	10 467.4	37.7	739	11 152.0	10 383.4	37.9
703	11 461.8	10 446.7	37.8	740	11 125.1	10 384.2	38.5
704	11 470.1	10 439.0	36.6	741	11 123.3	10 363.3	36.9
705	11 499.4	10 446.7	36.5	742	11 130.4	10 352.6	36.4
706	11 431.6	10 425.4	36.4	743	11 162.4	10 350.7	36.3
707	11 428.2	10 441.4	38.2	744	11 211.3	10 415.7	39.4
708	11 405.0	10 439.7	38.3	745	11 216.3	10 435.6	40.1
709	11 398.0	10 442.3	38.4	746	11 214.4	10 442.8	40.4
710	11 379.3	10 483.0	39.1	747	11 202.1	10 460.0	40.5
711	11 344.4	10 476.2	39.4	748	11 174.5	10 451.1	40.6
712	11 327.8	10 466.7	39.7	749	11 148.6	10 434.1	40.6
713	11 280.4	10 460.6	39.8	750	11 117.3	10 425.9	40.9
714	11 270.0	10 433.7	39.5	751	11 119.1	10 410.9	40.3
715	11 249.3	10 428.7	39.3	752	11 159.4	10 408.0	39.5
716	11 228.4	10 423.3	39.3	753	11 186.5	10 477.7	40.5
717	11 222.2	10 363.9	36.8	754	11 193.1	10 489.9	40.5
718	11 254.5	10 338.4	35.9	755	11 180.0	10 505.4	40.7
719	11 278.2	10 330.5	35.4	756	11 141.9	10 499.8	40.7
720	11 284.4	10 332.5	35.4	757	11 125.9	10 522.9	40.7
721	11 284.4	10 338.1	35.6	758	11 109.5	10 519.5	40.8
722	11 275.0	10 371.6	35.8	759	11 108.2	10 479.6	40.5
723	11 275.0	10 379.9	35.7	760	11 13.8	10 452.9	41.0
724	11 288.2	10 388.0	35.8	761	11 076.0	10 351.8	37.4
725	11 310.9	10 393.9	36.2	762	11 059.1	10 355.7	38.9
726	11 351.6	10 397.4	35.8	763	11 020.6	10 385.4	40.0
727	11 277.6	10 403.5	35.9	764	11 021.3	10 364.7	38.3
728	11 283.0	10 501.1	39.4	765	11 026.3	10 351.9	40.8
729	11 277.9	10 520.7	39.4	766	11 037.9	10 338.8	37.6
730	11 248.1	10 520.4	39.6	767	11 066.1	10 340.4	37.0
731	11 232.2	10 528.2	39.8	768	11 012.9	10 398.5	40.8
732	11 220.2	10 514.1	40.4	769	11 007.1	10 415.8	40.9
733	11 236.6	10 495.5	40.1	770	10 995.5	10 421.2	41.0
734	11 236.3	10 487.8	39.9	771	10 953.6	10 409.7	41.6
735	11 255.3	10 481.6	39.7	772	10 946.9	10 397.6	41.3
736	11 262.6	10 479.5	39.7	773	10 970.8	10 387.6	40.8
737	11 182.4	10 360.7	36.2	774	10 989.5	10 353.2	40.6



			RH
0	09-03-30	AS-BUILT DRAWING	
No.	DATE	REVISION	APPR



PERMIT TO PRACTICE
AECOM Canada Ltd.

Signature 
Date Mar 31/09
PERMIT NUMBER: P639
NWT /NU Association of Professional
Engineers and Geoscientists

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HATCH



PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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TRADE - MEIER	SITING	DATE
		2004-12-10

**NORTHEAST LANDFILL AREA
SITE PLAN**

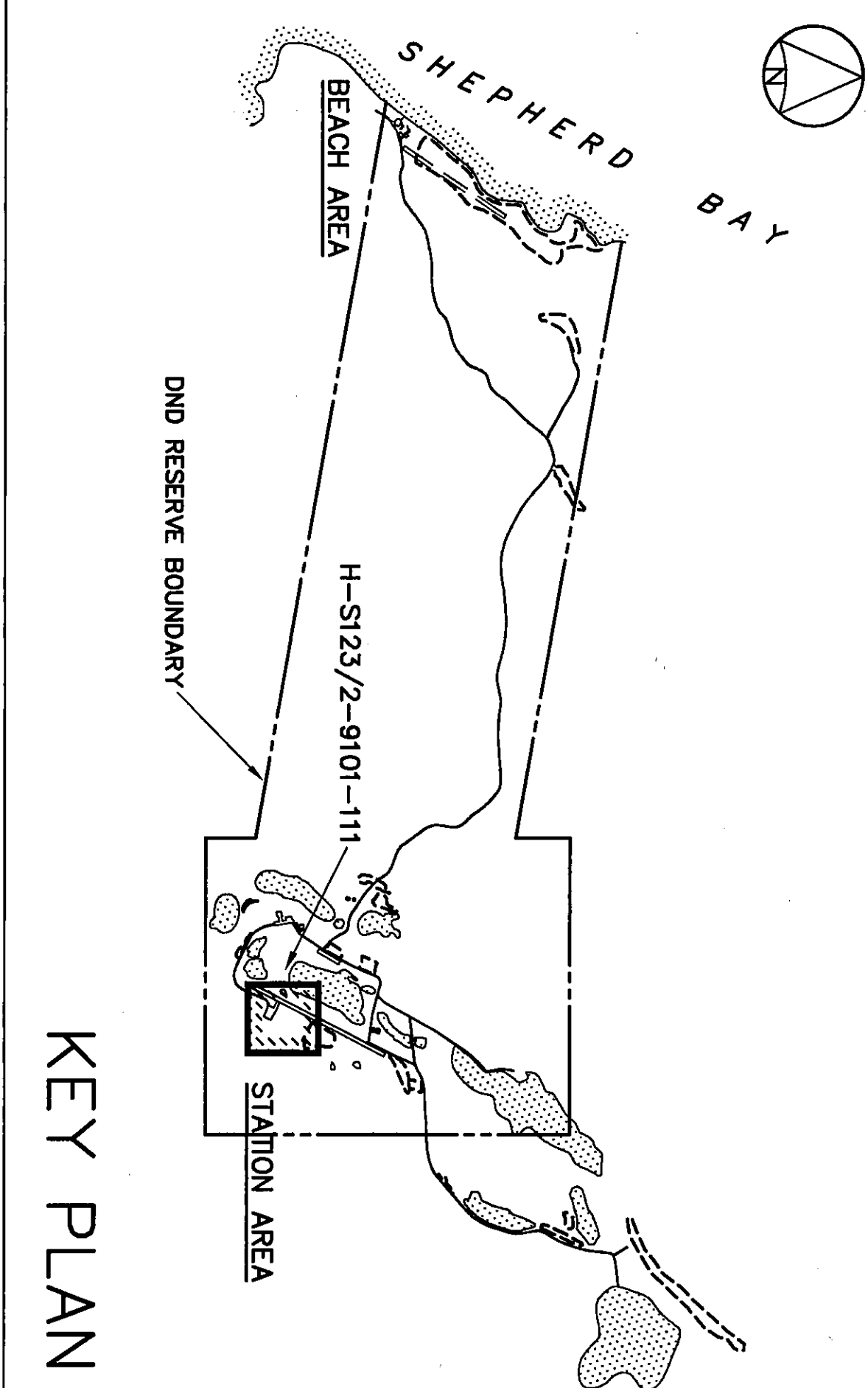
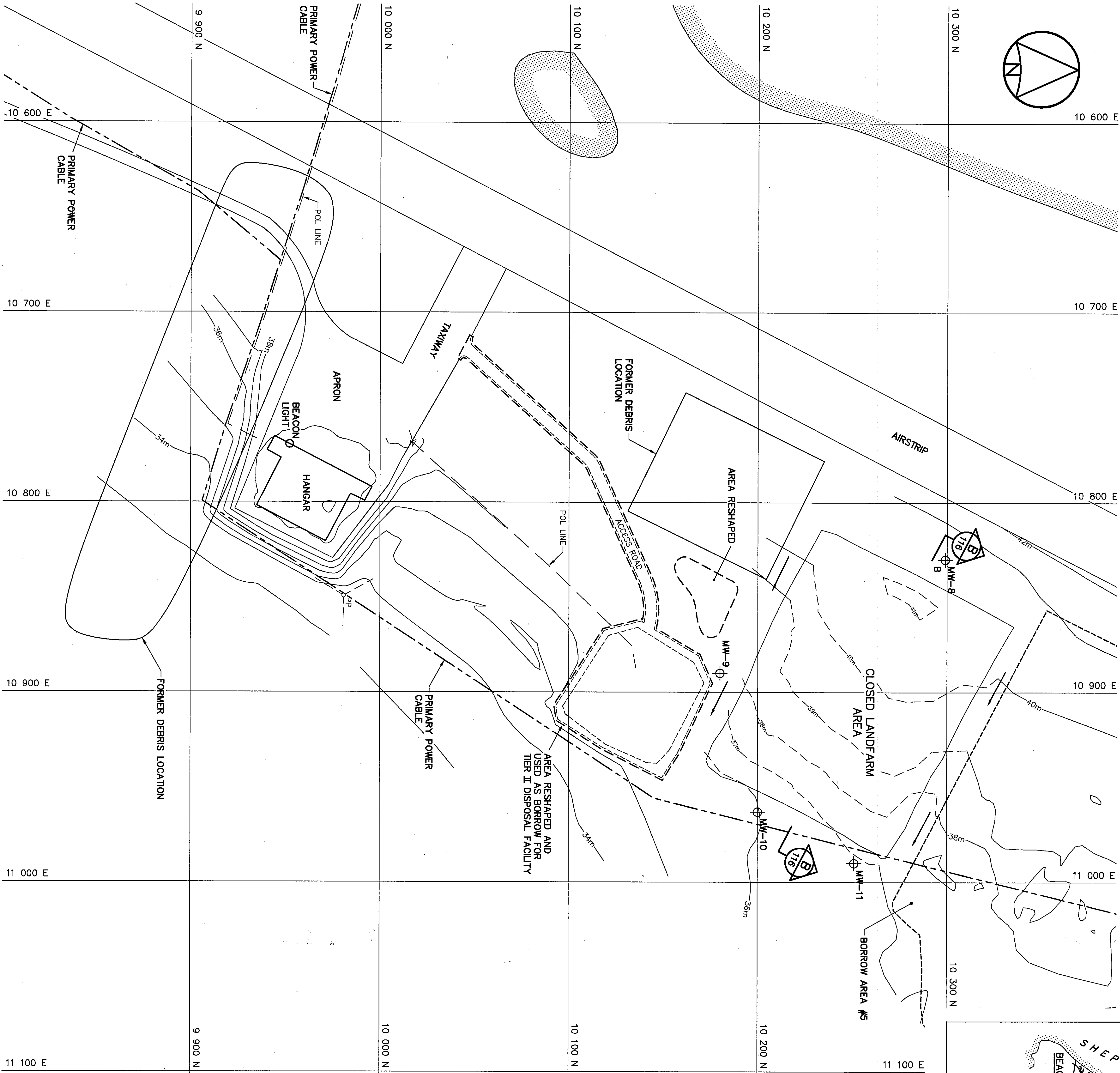
PRODUCTION		CONCERNANCE – ASSIGNMENT	
DESIGNED	AMP/TEAM	DES. OFF.	
ETUDE		ABSENT CONCEPT	
BRANIN	RM/UV	SECT. HD	
DESIGN		CHEF SECT	
CHECKED		DES. MGR	
VERIFIE	KMG	GEST CONCEPT	
COORDINATION		REVIEWED – REVU	
SING			

DWG. NO. – DESIGN NO.
H-5123/2-9101-110

Canada

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

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



LANDFARM DECOMMISSIONED MONITORING WELLS*		
NO.	UTM COORDINATES	
	NORTHING	EASTING
MW-8	-	-
MW-9	-	-
MW-10	-	-
MW-11	-	-

* NOTE: NO AS-BUILT SURVEY INFORMATION.

- General Notes:
1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
 2. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT C.M.
 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 4. ALL LONG RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL.

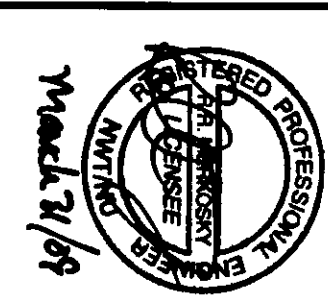
National Defence
Défense nationale

Headquarters
Quartier général

Legend:

- MONITORING WELL LOCATION (3)
- DECOMMISSIONED
- BACKGROUND MONITORING WELL LOCATION (1) - DECOMMISSIONED
- FORMER UTILITY POLE
- o.p.p.
- BODY OF WATER

0	09-03-30	AS-BUILT DRAWING	R/M
No.	DATE	REVISION	APPR.



PERMIT TO PRACTICE
AECOM Canada Ltd.
Date: 2004-12-10
PERMIT NUMBER: P639
MW/RL Association of Professional
Engineers and Geoscientists

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SCALE - ECHELLE 20 10 0 20 40 60m
PROJECT - PROJECT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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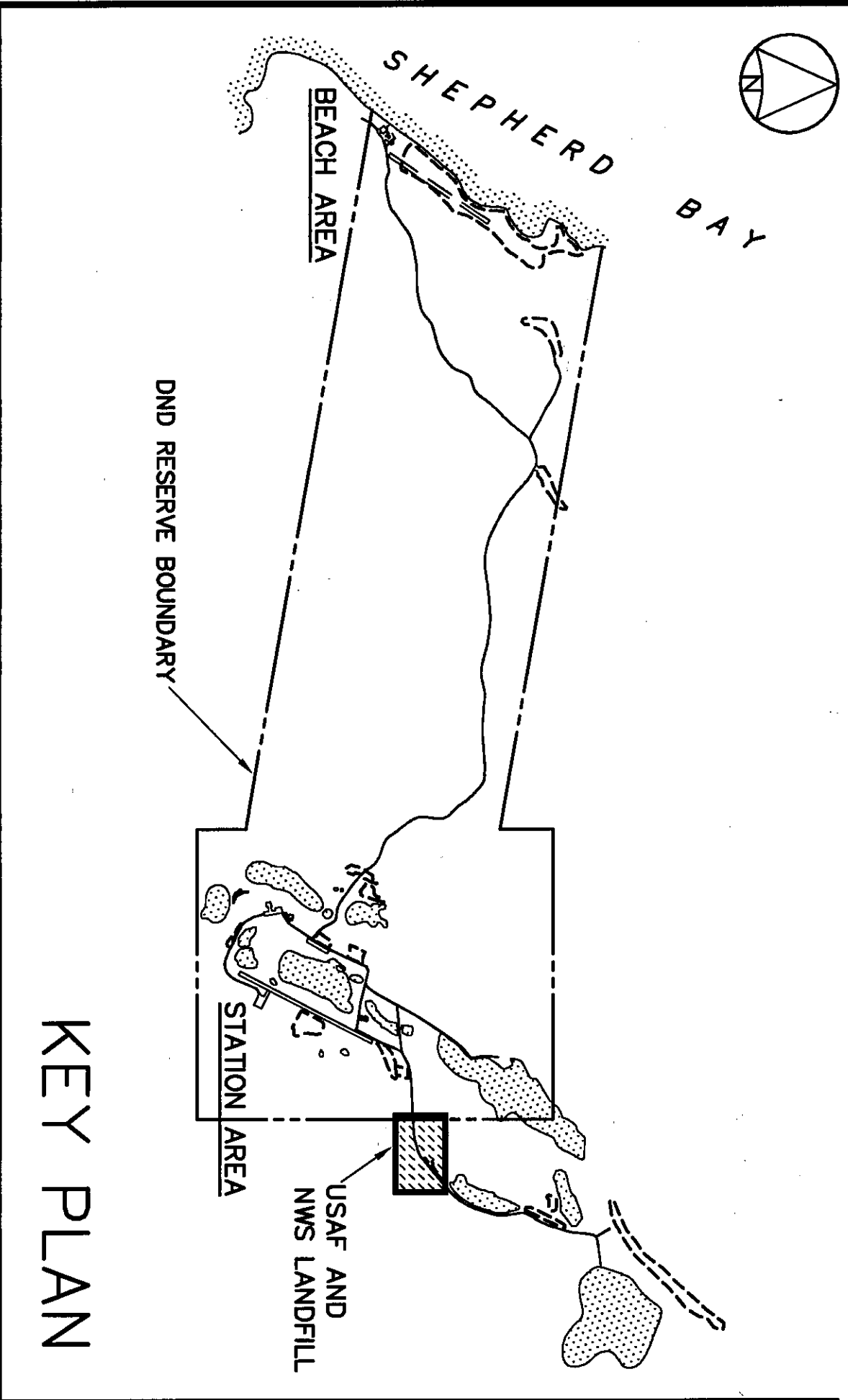
TRADE - METIER	SITING	DATE
SUBJECT - SUJET		2004-12-10

HANGAR AREA
SITE PLAN

PRODUCTION		CONCURRENCE - ASSIGNEMENT	
DESIGNED	AMW/RM	DES. OFF.	AGENT CONCEPT
DRAWN	M/LUV	SECT. HD.	CHEF SECT.
DRAWN	M/LUV	SECT. HD.	CHEF SECT.
CHECKED	MKS	DES. MGR.	DES. MGR.
VERIFIED	MKS	DES. MGR.	DES. MGR.
COORDINATION	REVU	REVIEWED	REVU

DWG. NO. - DESIGN NO.
H-S123/2-9101-111

Canada



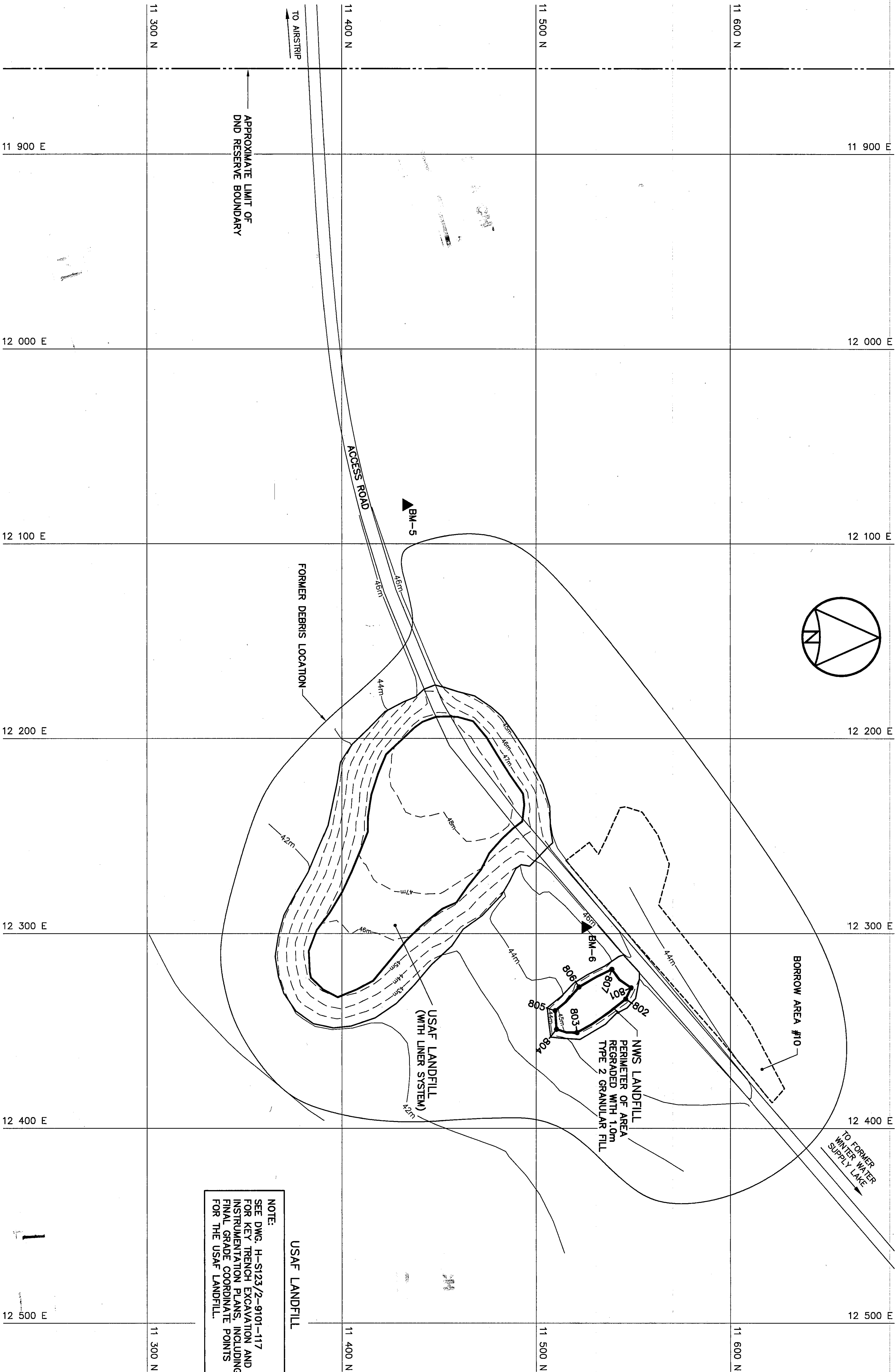
NWS LANDFILL (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
801	11 548.8	12 327.9	45.7
802	11 546.1	12 333.6	45.6
803	11 521.0	12 350.8	45.3
804	11 510.4	12 349.2	44.9
805	11 509.7	12 339.6	44.9
806	11 522.0	12 327.4	45.5
807	11 538.9	12 318.4	45.8

PERMANENT BENCHMARKS			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
BM-5	-	-	25mm DIA. STEEL PIPE
BM-6	11 525.256	12 296.706	45.450 25mm DIA. STEEL PIPE

* NOTE: NO AS-BUILT SURVEY INFORMATION.

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

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



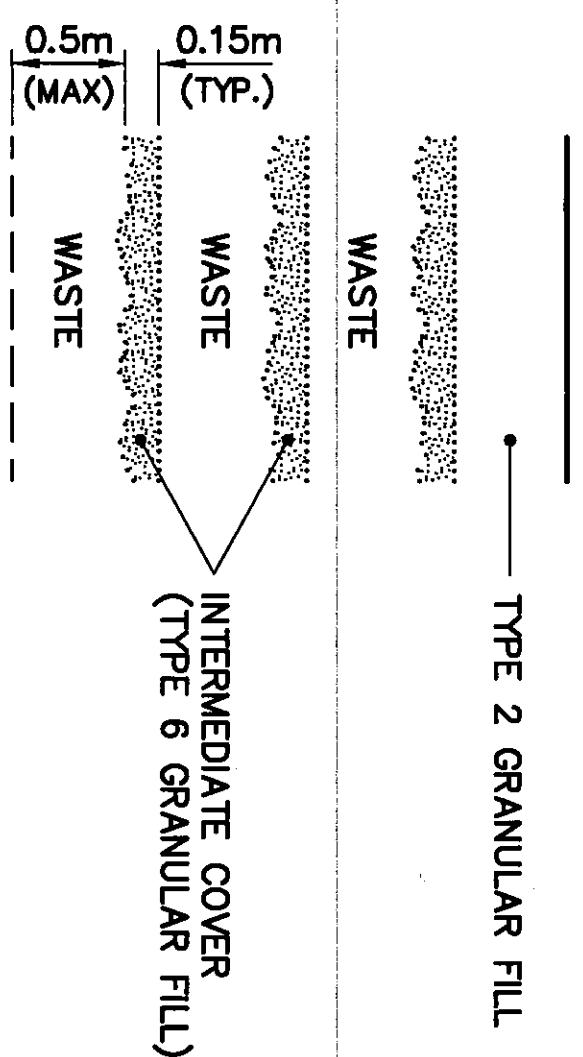
NOTE:
SEE DWG. H-S123/2-9101-117 FOR KEY TRENCH EXCAVATION AND INSTRUMENTATION PLANS, INCLUDING FINAL GRADE COORDINATE POINTS FOR THE USAF LANDFILL.

National Defence Défense nationale	
Headquarters Quartier général	
General Notes: 1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL. 2. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT CMT. 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. 4. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-S123/2-9101-123.	
Legend: ▲ BM-5 PERMANENT BENCHMARK LOCATION (2) -801 COORDINATE POINT	
0 10-03-30 AS-BUILT DRAWING	
No.	DATE
REVISION	REVISION
APPR.	
PERMIT TO PRACTICE AECOM Canada Ltd. Signature: <i>[Signature]</i> Date: <i>March 21/09</i> PERMIT NUMBER: P83 I hereby certify that the above is a true and correct copy of the original as submitted to the Engineer and Geoscientist.	
UMA AECOM HATCH	
SCALE - EXHIBIT 20 10 0 20 40 60m	
PROJECT - PROJECT CAM-3 SHEPHERD BAY	
DEW LINE CLEAN UP	
© COPYRIGHT HER MAJESTY THE QUEEN IN RIGHT OF CANADA, 2006, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE.	
TRADE - METERS	SITING
DATE	2004-12-10
SUBJECT - SLEET	
USAF LANDFILL AND NWS LANDFILL AREA SITE PLAN	
PRODUCTION	CONCURRENCE - ASSESSMENT
DESIGNED <i>AMP/RAH</i>	DES OFF
ETUDE <i>AMP/RAH</i>	AGENT CONCEPT
DRAWN <i>PA/LW</i>	SECT HO
DRAWING <i>PA/LW</i>	CHIEF SECT
CHECKED <i>AMP</i>	DES MGR
VERIFIED <i>AMP</i>	GEST CONCEPT
COORDINATION	REVIEWED - REVU
DWG. NO. - DESIGN NO. H-S123/2-9101-112	
Canada	

General Notes:

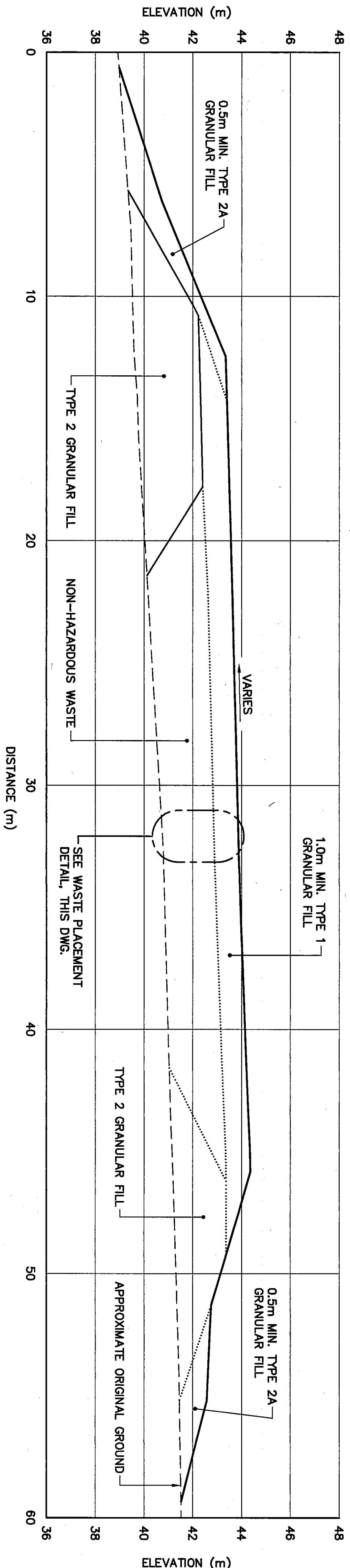
1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

NOTE:
ADDITIONAL WASTE LAYERS, MAY
HAVE BEEN REQUIRED TO ACHIEVE
THE NON-HAZARDOUS WASTE
LANDFILL DESIGN ELEVATIONS.

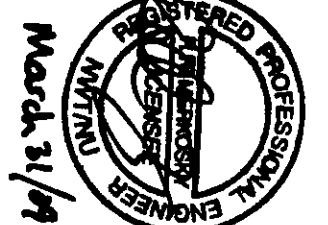


WASTE PLACEMENT DETAIL

SCALE: NTS



SECTION A
107

No.	0	Date	09-02-20	AS-BUILT DRAWING	Revision	Revision	APP.	KM
Legend: GENERATED BASED ON AS-BUILT SURVEY INFORMATION CONSTRUCTED AS PER DESIGN NO AS-BUILT SURVEY INFORMATION								
 PERMIT TO PRACTICE AECOM Canada Ltd. Signature: <i>[Signature]</i> Date: <i>March 31/14</i> PERMIT NUMBER: PB39 AM/Professional Engineer and Architect								
UMA AECOM HATCH								
SCALE - ÉCHELLE 2 1 0 2 4 5m								
PROJECT - PROJET CAM-3 SHEPHERD BAY								
DEW LINE CLEAN UP								
© COPYRIGHT HER MAJESTY THE QUEEN IN RIGHT OF CANADA 2006, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE.								
TRADE - MÉTIER	SITING		DATE		2004-12-10			
SUBJECT - SUJET NON-HAZARDOUS WASTE LANDFILL CROSS SECTION AND DETAIL								
PRODUCTION		CONCURRENCE - ASSAIGNMENT						
DESIGNED	AM/RAH	DES. OFF.						
ETUDE	AM/RAH	AGENT CONCEPT						
DRAWN	AM/UV	SECT. HD						
DRAWING	AM/UV	CHEF SECT.						
CHECKED	AM/	DES. MGR						
VERIFIED	AM/	CEST. CONCEPT						
COORDINATION	AM/	REVIEWED - REVU						
DWG. NO. - DESSIN NO. H-S123/2-9101-113								

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

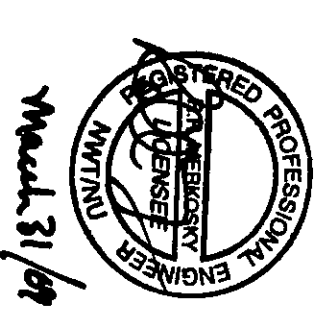
General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT CMT.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR VERTICAL THERMISTOR CABLE INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-122.
5. FOR MONITORING WELL INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-123.
6. KEY TRENCH BELOW SATURATED BERMS EXTENDS BELOW ORIGINAL GROUND TO EXPOSED BEDROCK OR SATURATED GROUND (DEPTH VARIES).

Legend:

- COORDINATE POINT
- VERTICAL THERMISTOR CABLE INSTALLATION (4)
- MONITORING WELL LOCATION (3)
- BACKGROUND MONITORING WELL LOCATION (1)

0	09-03-30	AS-BUILT DRAWING	REM
No.	DATE	REVISION	REVISION
APPR.			



PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature: *[Signature]*
Date: *12/12/07*
Permit Number: P839
I hereby certify that I am a duly Licensed Professional Engineer and Geoscientist

UMA | AECOM | HATCH

SCALE - ECHELLE 10 5 0 10 20 30m

PROJECT - PROJECT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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MINISTER OF NATIONAL DEFENCE

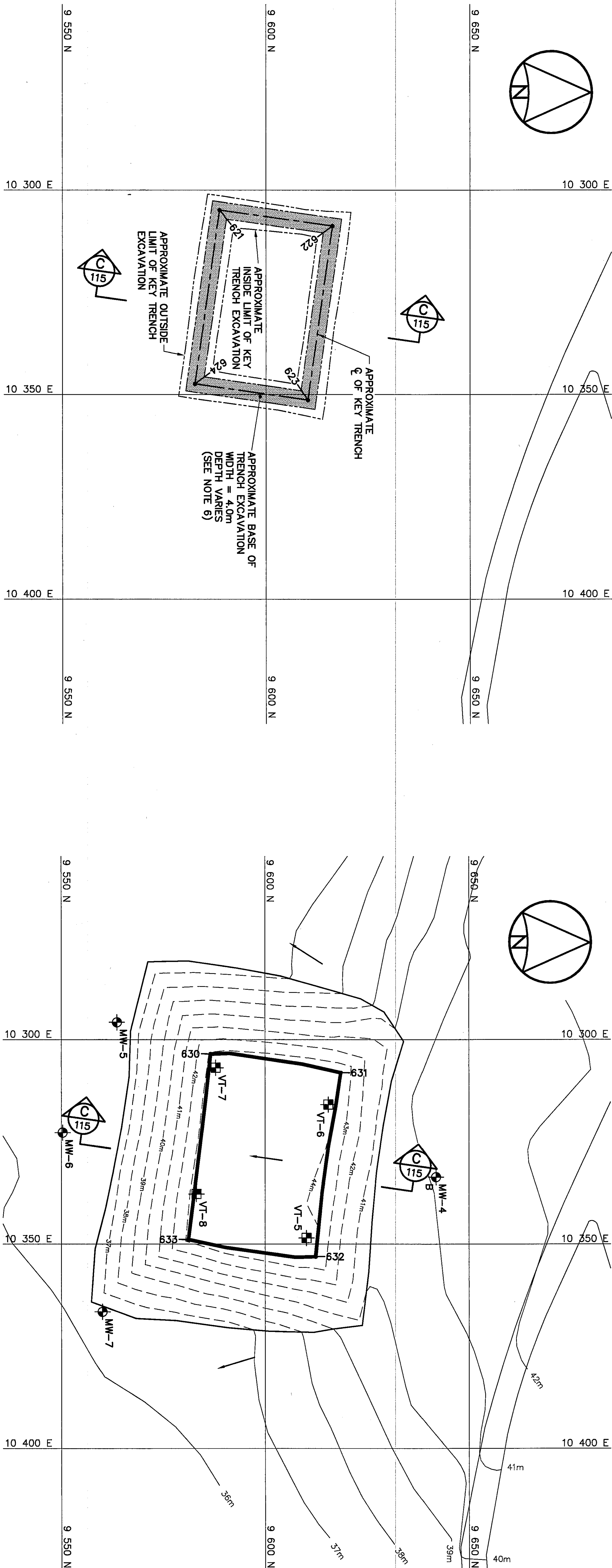
TRADE - METRE SITING DATE 2004-12-10

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

PRODUCTION		CONCURRENCE - ASSESSMENT	
DESIGNED	<i>AMP/RAH</i>	DES OFF	AGENT CONCEPT
ETUDE	<i>AMP/RAH</i>	SECT HD	PERMIT NUMBER P839
DRAWN	<i>RAH/LUV</i>	CHEF SECT	DESIGN NO.
DRAWN	<i>RAH/LUV</i>	DESIGN NO.	DESIGN NO.
CHECKED	<i>AMP</i>	DESIGN NO.	DESIGN NO.
VERIFIE	<i>AMP</i>	DESIGN NO.	DESIGN NO.
COORDINATION	<i>AMP</i>	DESIGN NO.	DESIGN NO.
		REVIEWED - REVU	

DWG. NO. - DESIGN NO.
H-S123/2-9101-114

Canada



KEY TRENCH EXCAVATION PLAN

TIER II DISPOSAL FACILITY KEY TRENCH EXCAVATION (DESIGN)*		
COORDINATES		
NO.	NORTHING	EASTING
621	9 588.6	10 304.8
622	9 616.3	10 308.8
623	9 610.3	10 351.3
624	9 582.6	10 347.4

* NOTE: NO AS-BUILT SURVEY INFORMATION.

TIER II DISPOSAL FACILITY MONITORING WELLS (AS-BUILT)			
NO.	COORDINATES		ELEV. (GAP)
	NORTHING	EASTING	
MW-4	9 641.9	10 333.6	41.9
MW-5	9 563.7	10 295.8	37.0
MW-6	9 550.3	10 322.7	36.9
MW-7	9 580.1	10 366.6	36.9

TIER II DISPOSAL FACILITY VERTICAL THERMISTORS (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
VT-5	9 610.1	10 348.5	44.2
VT-6	9 615.5	10 315.9	44.0
VT-7	9 587.9	10 306.9	43.3
VT-8	9 583.1	10 337.8	43.4

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. TYPE 6 INTERMEDIATE FILL WAS REQUIRED FOR LANDFILLING OF ORGANIC OR WET SOILS ONLY.
4. KEY TRENCH BELOW SATURATED BERMS EXTENDS BELOW ORIGINAL GROUND TO SOUND BEDROCK OR SATURATED GROUND (DEPTH VARIES).

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION
CONSTRUCTED AS PER DESIGN
NO AS-BUILT SURVEY INFORMATION

0	09-02-20	AS-BUILT DRAWING	RAM
No.	DATE	REVISION	APPR.



PERMIT TO PRACTICE
AECOM Canada Ltd.
Date: *10/10/04*
PERMIT NUMBER: P039
ANY FUTURE SIGNATURES AND DATES REQUIRED

UMA | AECOM | **HATCH**

SCALE - ECHELLE

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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MINISTER OF NATIONAL DEFENCE.

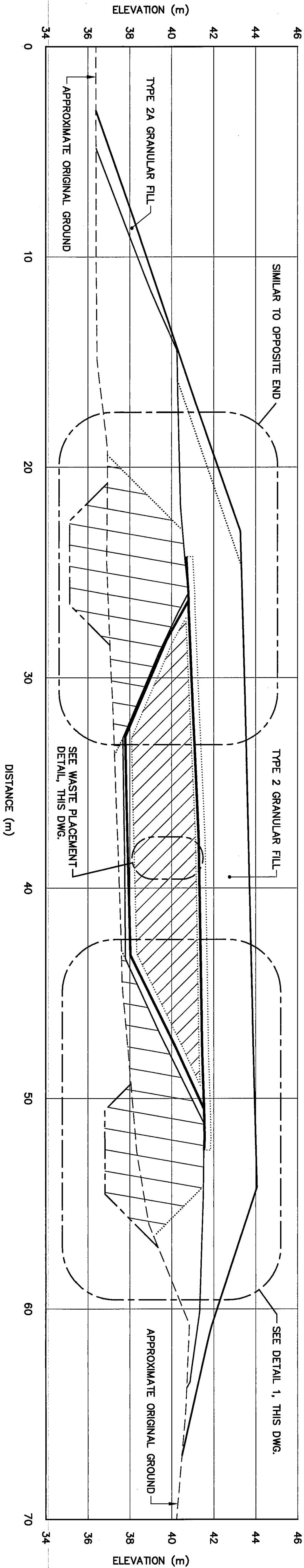
TRADE - METIER	SITING	DATE
		2004-12-10

SUBJECT - SILET

**TIER II DISPOSAL FACILITY
CROSS SECTION AND DETAIL**

PRODUCTION		CONCURRENCE - ASSEMBLEMENT	
DESIGNED	<i>AMP/AM</i>	DES. OFF.	
ETUDE		AGENT CONCEPT	
DRAWN	<i>AM/LW</i>	SECT. HD.	
DESSINE		CHIEF SECT.	
CHECKED	<i>AMS</i>	DES. MGR.	
VERIFIE		BEST CONCEPT	
COORDINATION		REVIEWED - REVU	
	<i>JMG</i>		
DWG. NO. - DESSIN NO.		H-S123/2-9101-115	



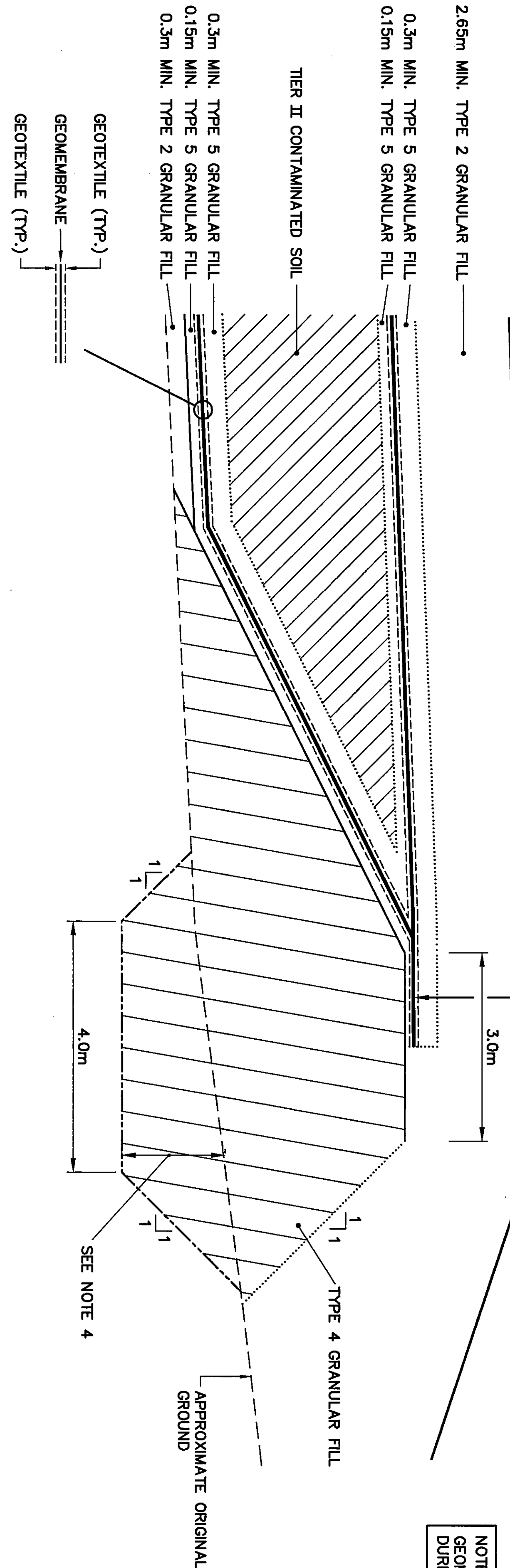


SECTION **C**
114

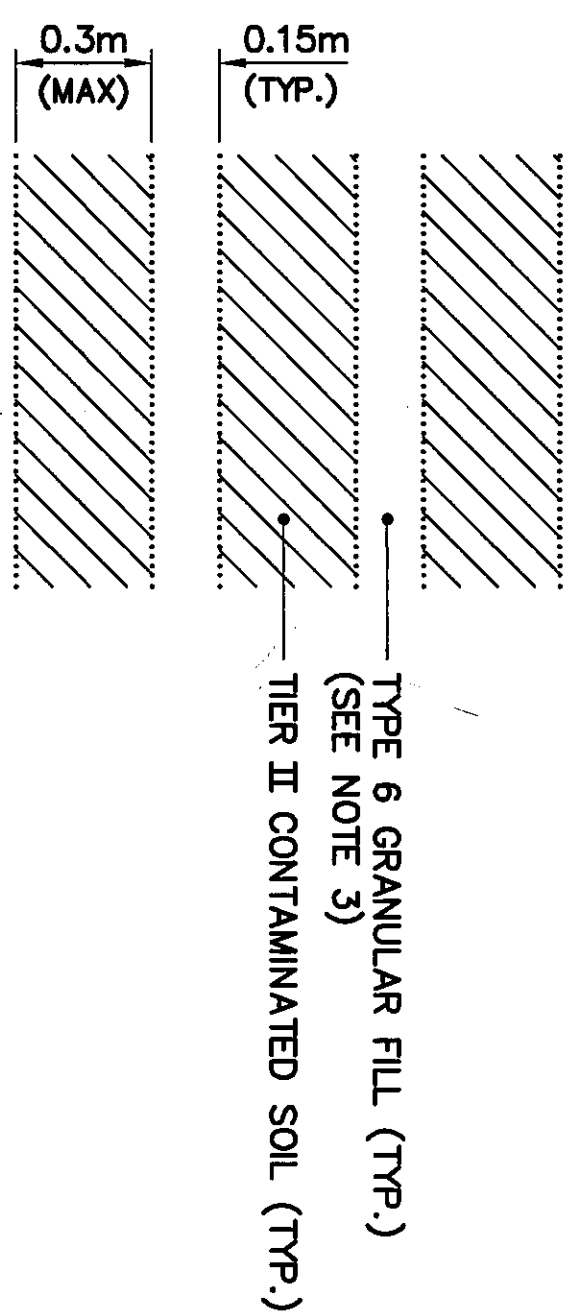
NOTE:
LINERS ARE IN CONTACT WITH EACH OTHER OVER THE TOP OF THE BERM AND PERIMETER WELDED.

NOTE:
GEOMEMBRANE LINERS WERE PROTECTED DURING INTERIM CONSTRUCTION.

NOTE:
ADDITIONAL TIER II SOIL LAYERS, MAY HAVE BEEN REQUIRED, TO ACHIEVE THE TIER II DISPOSAL FACILITY DESIGN ELEVATIONS.



DETAIL **1**
1



WASTE PLACEMENT DETAIL
SCALE: NTS

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

GENERATED BASED ON AS-BUILT
SURVEY INFORMATION

PERMIT TO PRACTICE
 AECOM Canada Ltd.
 Signature: *Felix*
 Date: *Aug 21/09*
 PERMIT NUMBER: P639
 NMT/NU Association of Professional
 Engineers and Geoscientists

SCALE - ECHELLE
AS SHOWN

PROJECT - PROJCT

CAM-3 SHEPHERD BAY

TRADE - METIER	DATE
SITING	2004-12-1
SUBJECT - SUJET	

CROSS SECTION AND DETAILS

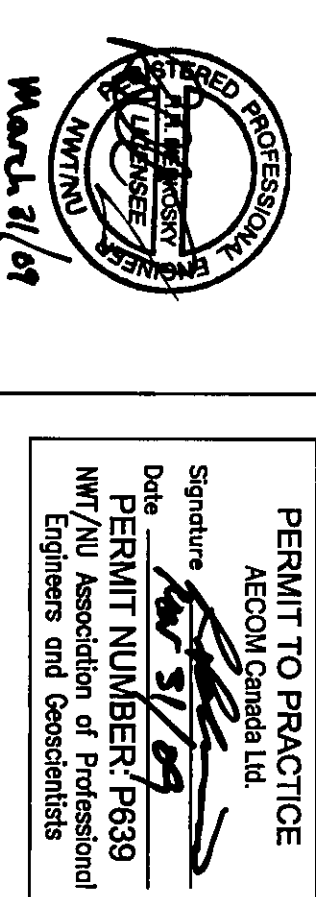
DWG. NO. — DESSIN NO.
H-S123/2-9101-116

- General Notes:
1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
 2. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT C.M.I.
 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 4. FOR VERTICAL THERMISTOR CABLE INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-122.
 5. FOR MONITORING WELL INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-123.
 6. KEY TRENCH EXTENDS BELOW ORIGINAL GROUND TO SOUND BEDROCK OR SATURATED GROUND (DEPTH VARIES).

Legend:

- COORDINATE POINT
- VERTICAL THERMISTOR CABLE INSTALLATION (+)
- MONITORING WELL LOCATION (+)

No.	DATE	REVISION	REVISION	APP.
0	09-03-30	AS-BUILT DRAWING		RKM



LUMA AECOM HATCH

SCALE - GRAPHIC 10 5 0 10 20 30m
PROJECT - PRODUCT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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TRADE - METTER SITING DATE 2004-12-10

SUBJECT - SUELT

USAF LANDFILL
KEY TRENCH EXCAVATION PLAN &
GRADING/INSTRUMENTATION PLAN

DESIGNED	ETUDE	AMW/RAW	DES OFF
DRAWN	DRAM	AM/LUV	AGENT CONCEPT
CHECKED	DESIGN	AMG	CHIEF SECT
VERIFIED	COORDINATION	SMG	DES MGR
			REVIEWED - REVU

DWG. NO. - DESIGN NO.
H-S123/2-9101-117

Canada

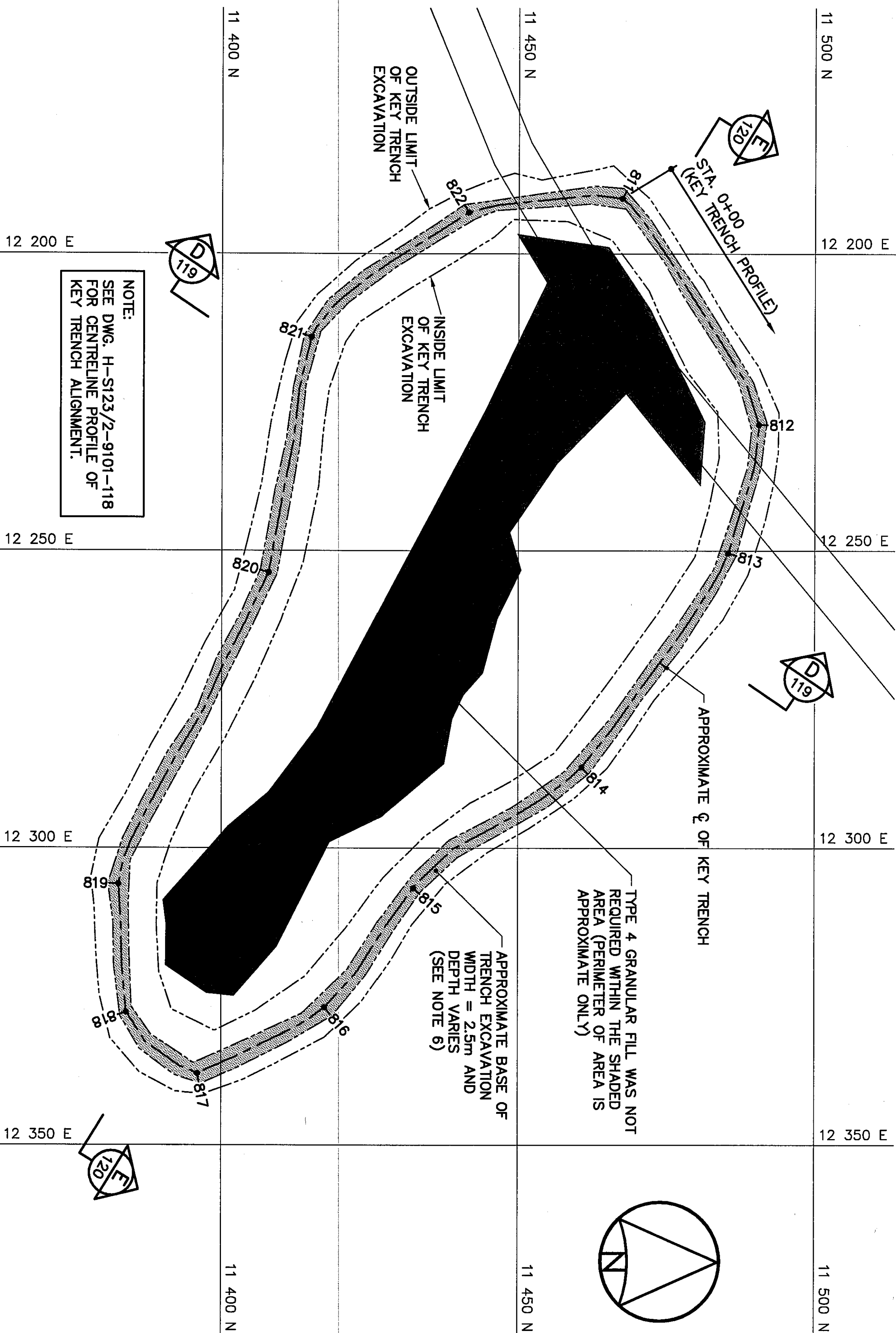
NOTE:
CONTOURS SHOWN AS DASHED LINES WERE
GENERATED FROM SURVEY INFORMATION
AND REPRESENT FINISHED GROUND SURFACE
FOLLOWING REGRAIDING OR RESHAPING.

USAF LANDFILL KEY TRENCH EXCAVATION (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
B11	11 467.4	12 190.7	44.0
B12	11 490.5	12 228.8	44.2
B13	11 485.4	12 280.4	44.2
B14	11 460.7	12 266.3	42.7
B15	11 432.3	12 308.8	42.0
B16	11 417.4	12 326.9	41.8
B17	11 396.0	12 338.0	41.5
B18	11 384.0	12 327.7	41.3
B19	11 382.7	12 306.1	41.4
B20	11 407.9	12 253.7	42.0
B21	11 415.1	12 214.1	42.6
B22	11 441.5	12 193.0	44.0

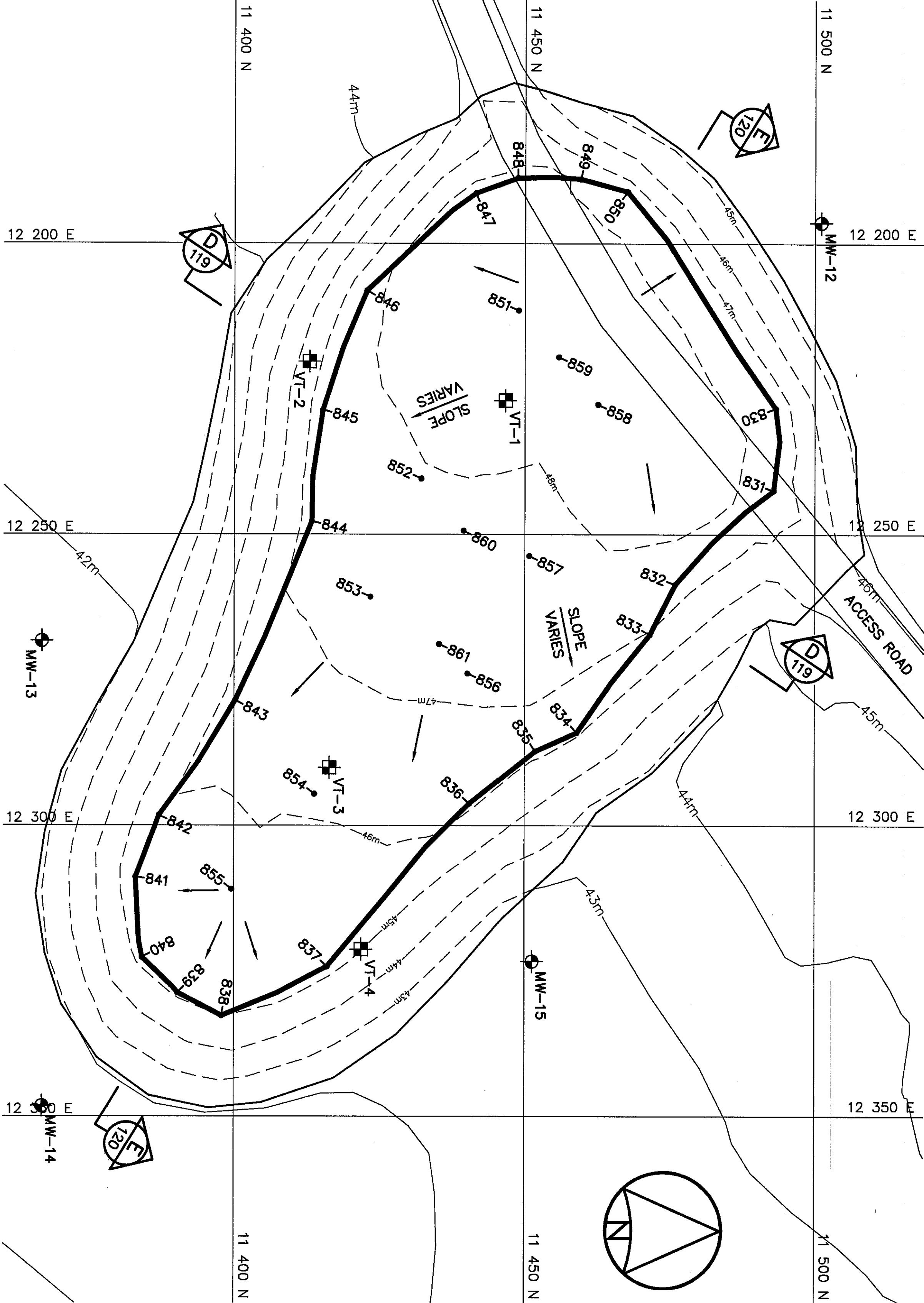
USAF LANDFILL MONITORING WELLS (AS-BUILT)			
NO.	COORDINATES		ELEV. (CAP)
	NORTHING	EASTING	
MW-12	11 501.1	12 196.4	44.9
MW-13	11 366.9	12 268.4	42.4
MW-14	11 367.0	12 348.2	42.2
MW-15	11 451.3	12 323.4	43.0

USAF LANDFILL VERTICAL THERMISTORS (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
VT-1	11 446.7	12 227.0	48.3
VT-2	11 413.0	12 220.3	46.7
VT-3	11 416.4	12 290.0	46.4
VT-4	11 421.9	12 321.4	45.1

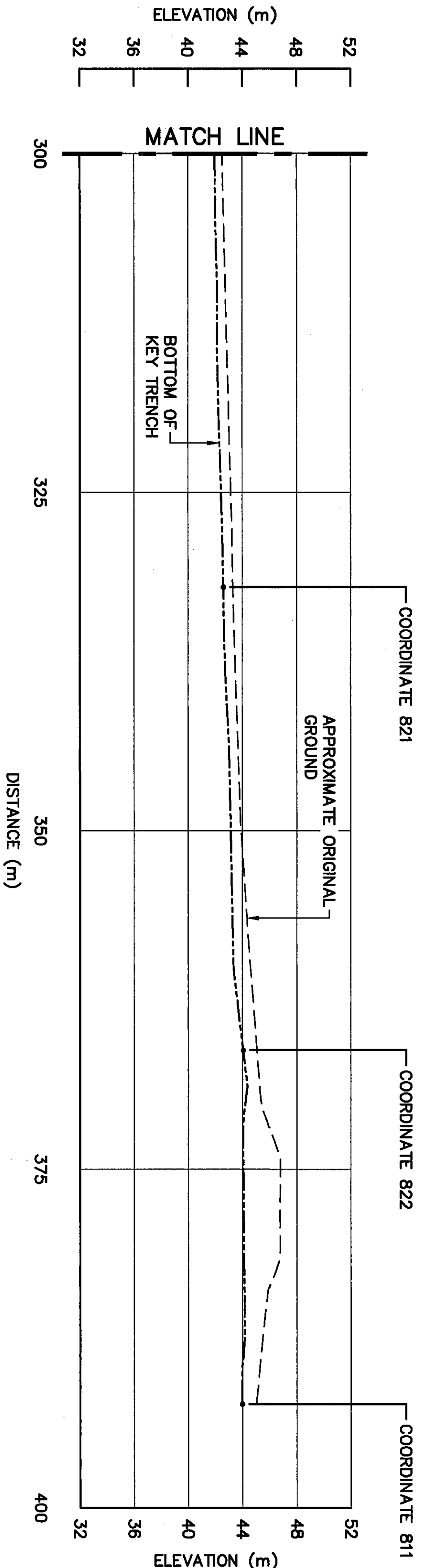
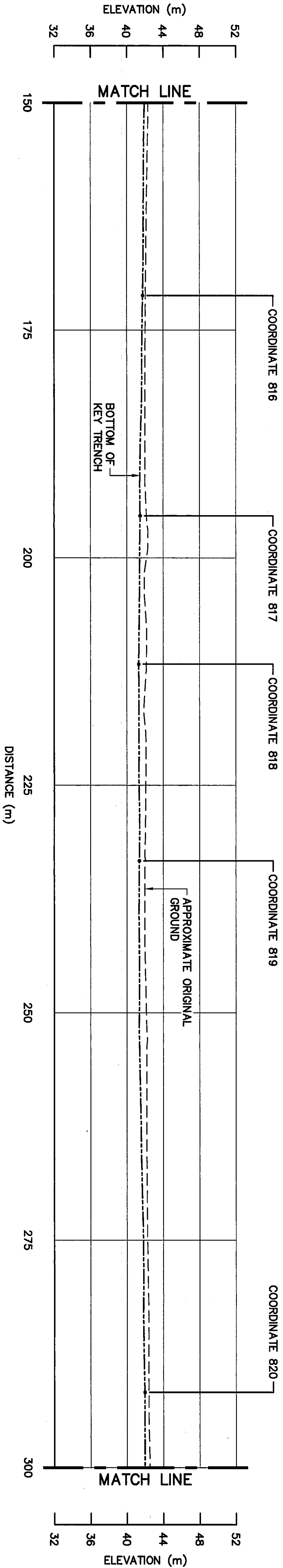
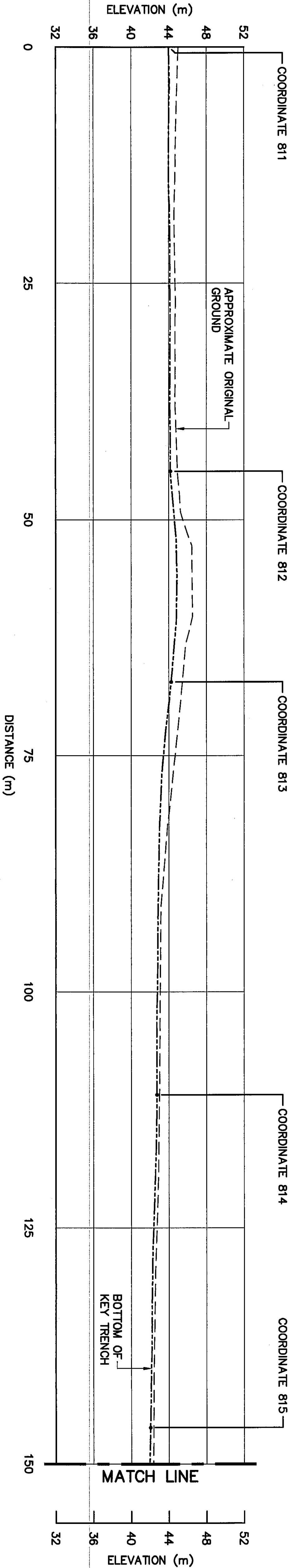
USAF LANDFILL FINAL LANDFILL SURFACE (AS-BUILT)					
NO.	COORDINATES		NO.	COORDINATES	ELEV.
	NORTHING	EASTING		NORTHING	EASTING
B30	11 493.3	12 228.3	846	11 422.8	12 208.1
B31	11 492.9	12 242.4	847	11 441.5	12 191.4
B32	11 475.9	12 258.6	848	11 448.7	12 188.7
B33	11 471.6	12 267.2	849	11 459.6	12 188.9
B34	11 459.0	12 284.0	850	11 467.6	12 191.1
B35	11 451.8	12 287.2	851	11 448.9	12 211.5
B36	11 440.5	12 296.2	852	11 432.2	12 240.4
B37	11 416.1	12 324.3	853	11 423.4	12 280.7
B38	11 397.9	12 332.7	854	11 413.8	12 294.6
B39	11 390.3	12 328.8	855	11 399.6	12 311.0
B40	11 384.2	12 322.7	856	11 440.2	12 273.9
B41	11 383.1	12 308.9	857	11 450.8	12 253.7
B42	11 387.1	12 298.3	858	11 462.6	12 227.7
B43	11 400.2	12 276.5	859	11 455.8	12 218.5
B44	11 413.4	12 247.7	860	11 439.5	12 248.3
B45	11 415.2	12 228.6	861	11 435.3	12 268.9



KEY TRENCH EXCAVATION PLAN



- General Notes:
1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 3. KEY TRENCH EXTENDS BELOW ORIGINAL GROUND TO SOUND BEDROCK OR SATURATED GROUND (DEPTH VARIES).



KEY TRENCH CENTRELINE PROFILE

PRODUCTION		CONCURRENCE - ASSESSMENT	
DESIGNED	<i>AMP/RAH</i>	DES OFF	
ETUDE		AGENT CONCEPT	
DRAWN	<i>RA/LW</i>	SECT HD	
DRESSINE		CHIEF SECT	
CHECKED	<i>AKS</i>	DES MGR	
VERIFIE		GEST CONCEPT	
COORDINATION	<i>SMK</i>	REVIEWED - REVU	

DWG. NO. - DESIGN NO.
H-S123/2-9101-118

No.	0	09-03-30	AS-BUILT DRAWING	RAH
DATE		REVISION		APPR.



PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature: *RAH/09*
Date: *Mar 21/09*
PERMIT NUMBER: P639
Professional Engineer and Geoscientist

UMA | AECOM | HATCH

SCALE - ECHELLE 5 2.5 0 5 10 15m

PROJECT - PROJECT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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CANADA 2008, AS REPRESENTED BY THE
MINISTER OF NATIONAL DEFENCE.

TRADE - METIER	SITING	DATE
		2004-12-10

SUBJECT - SILET

USAF LANDFILL

KEY TRENCH CENTRELINE PROFILE

- General Notes:
1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
 2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 3. KEY TRENCH EXTENDS BELOW ORIGINAL GROUND TO SOUND BEDROCK OR SATURATED GROUND (DEPTH VARIES). BOTTOM GEOTEXTILE WAS PLACED DIRECTLY ON BASE OF EXCAVATED KEY TRENCH.

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION
CONSTRUCTED AS PER DESIGN
NO AS-BUILT SURVEY INFORMATION

0	09-03-30	AS-BUILT DRAWING	KRM
No.	DATE	REVISION	APPR.



PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature: *[Signature]*
Date: *[Date]*
PERMIT NUMBER: P639
I hereby authorize the use of my name and seal for the purpose of certifying the design and construction of the project.

UMA | AECOM | **HATCH**

SCALE - EXHIBIT 2 1 0 2 4 6m

PROJECT - PROJECT
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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MINISTER OF NATIONAL DEFENCE.

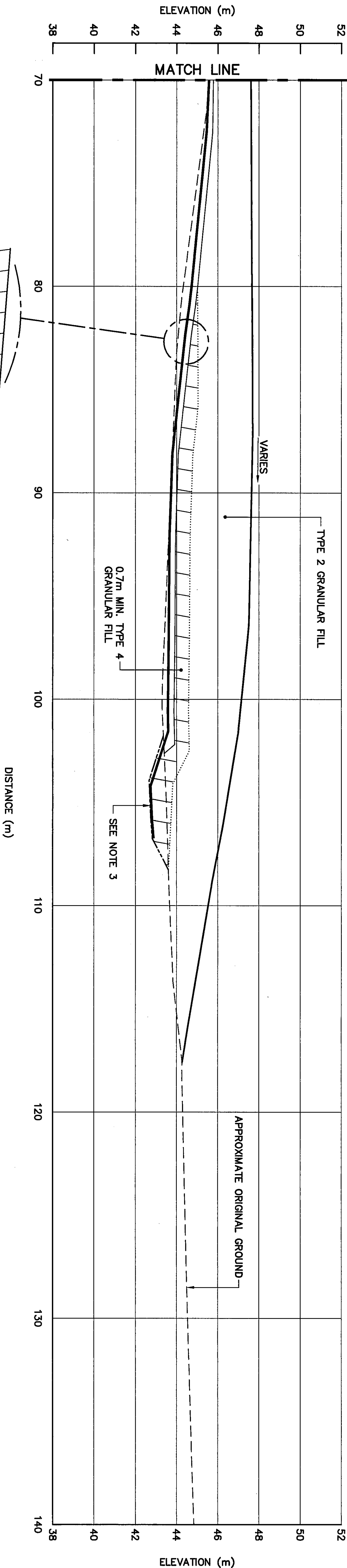
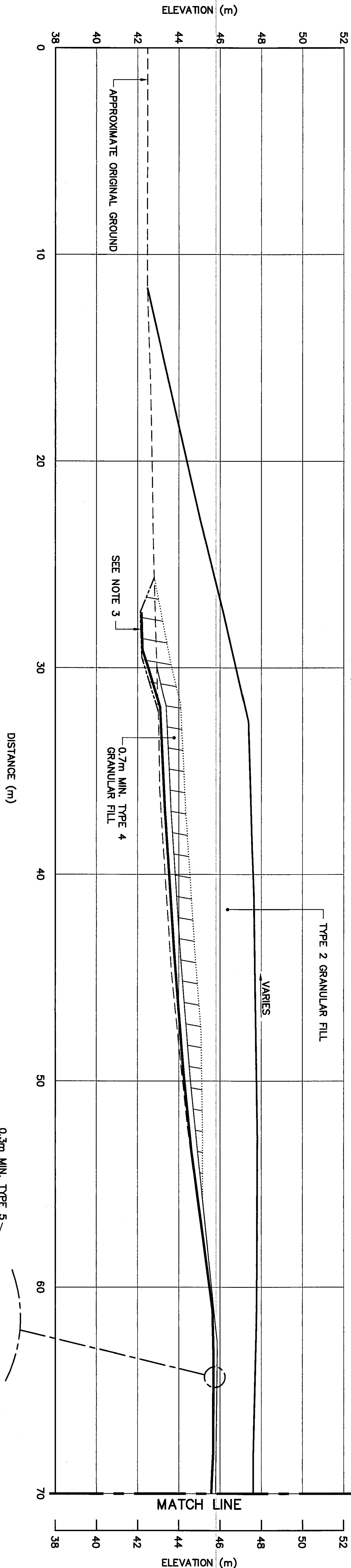
TRADE - METRE SITING DATE 2004-12-10

SUBJECT - SILET

USAF LANDFILL
CROSS SECTION
SHEET 1

PRODUCTION	CONCURRENCE - ASSIGNMENT
DESIGNED <i>AW/RAH</i>	DES. OFF.
ETUDE <i>AW/RAH</i>	AGENT CONCEPT
DRAWN <i>AW/LUV</i>	SECT. HD.
DRAWN <i>AW/LUV</i>	CHEF SECT.
CHECKED <i>AW</i>	DES. MGR.
VERIFIE <i>AW</i>	GEST. CONCEPT
COORDINATION <i>AW</i>	REVIEWED - REVU

DWG. NO. - DESIGN NO.
H-5123/2-9101-119

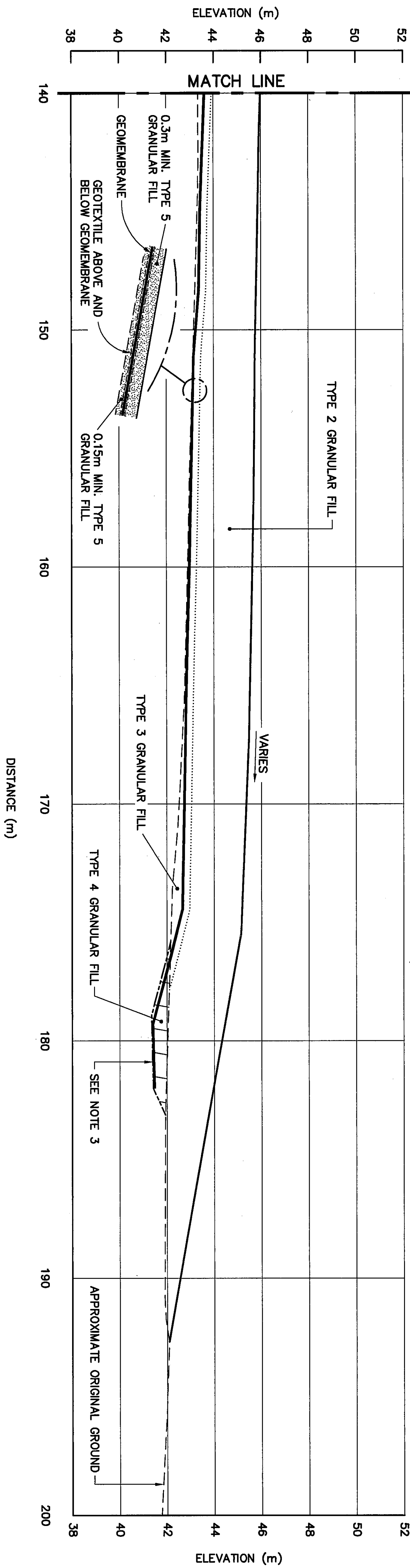
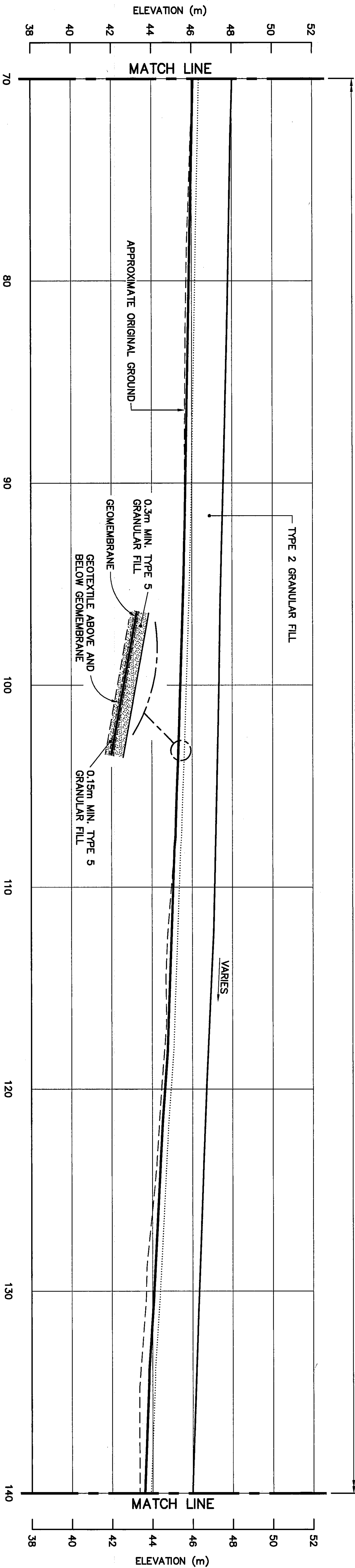
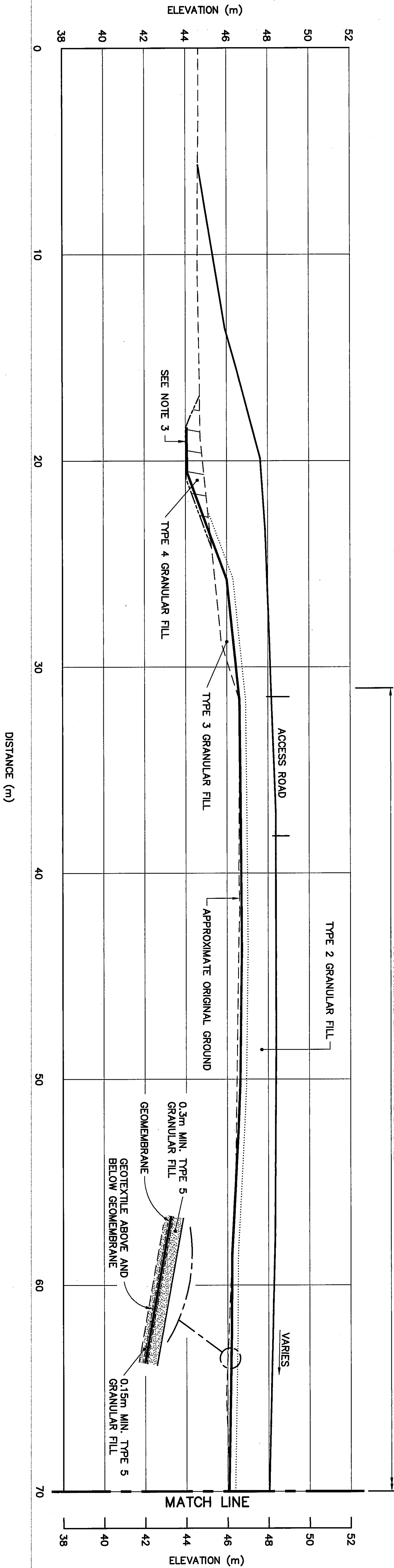


SECTION

D
117

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. KEY TRENCH EXTENDS BELOW ORIGINAL GROUND TO SOUND BEDROCK OR SATURATED GROUND (WHERE AVAILABLE) AND IS FLOORED WITH A KEY TRENCH ON BASE OF EXCAVATED KEY TRENCH.



SECTION

E 117

Legend:

GENERATED BASED ON AS-BUILT SURVEY INFORMATION
CONSTRUCTED AS PER DESIGN
NO AS-BUILT SURVEY INFORMATION

0	09-03-30	AS-BUILT DRAWING		
No.	DATE	REVISION	REVISION	APPR.



PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature: *[Signature]*
Date: *10/11/09*
PERMIT NUMBER: P839
Engineers and Geoscientists

UMA | AECOM | **HATCH**

SCALE - ECHELLE 2 1 0 2 4 6m

PROJECT - PROJECT CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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MINISTER OF NATIONAL DEFENCE.

TRADE - METERS	SITING	DATE
		2004-12-10

SUBJECT - SLEET
**USAF LANDFILL
CROSS SECTION
SHEET 2**

PRODUCTION	CONCURRENCE - ASSENTMENT
DESIGNED <i>AMW/RAM</i>	DES. OFF.
ETUDE <i>AMW/RAM</i>	AGENT CONCEPT
DRAWN <i>AMW/LW</i>	SECT. HO.
DESIGNED <i>AMW/LW</i>	CHIEF SECT.
CHECKED <i>AMW</i>	DES. MGR.
VERIFIED <i>AMW</i>	GEST. CONCEPT
COORDINATION <i>AMW</i>	REVIEWED - REVU
DWG. NO. - DESIGN NO. H-S123/2-9101-120	

1. BEACH POL ELEVATIONS ARE REFERENCED TO ASSUED ELEVATION OF 100m AT TEMPORARY BENCHMARK TBMS00.
2. BEACH POL. HORIZONTAL CONTROL REFERENCED TO TEMPORARY BENCHMARK TBMS00.
3. STATION POL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
4. STATION POL HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT CMI.
5. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

REMEDIATED HYDROCARBON ARE,

PERMIT TO PRACTICE
AECOM Canada Ltd.

Signature 
Date Mar 31/09
PERMIT NUMBER: P639
NMT/NU Association of Professional
Engineers and Geoscientists

SCALE - ECHELLE
AS SHOWN

CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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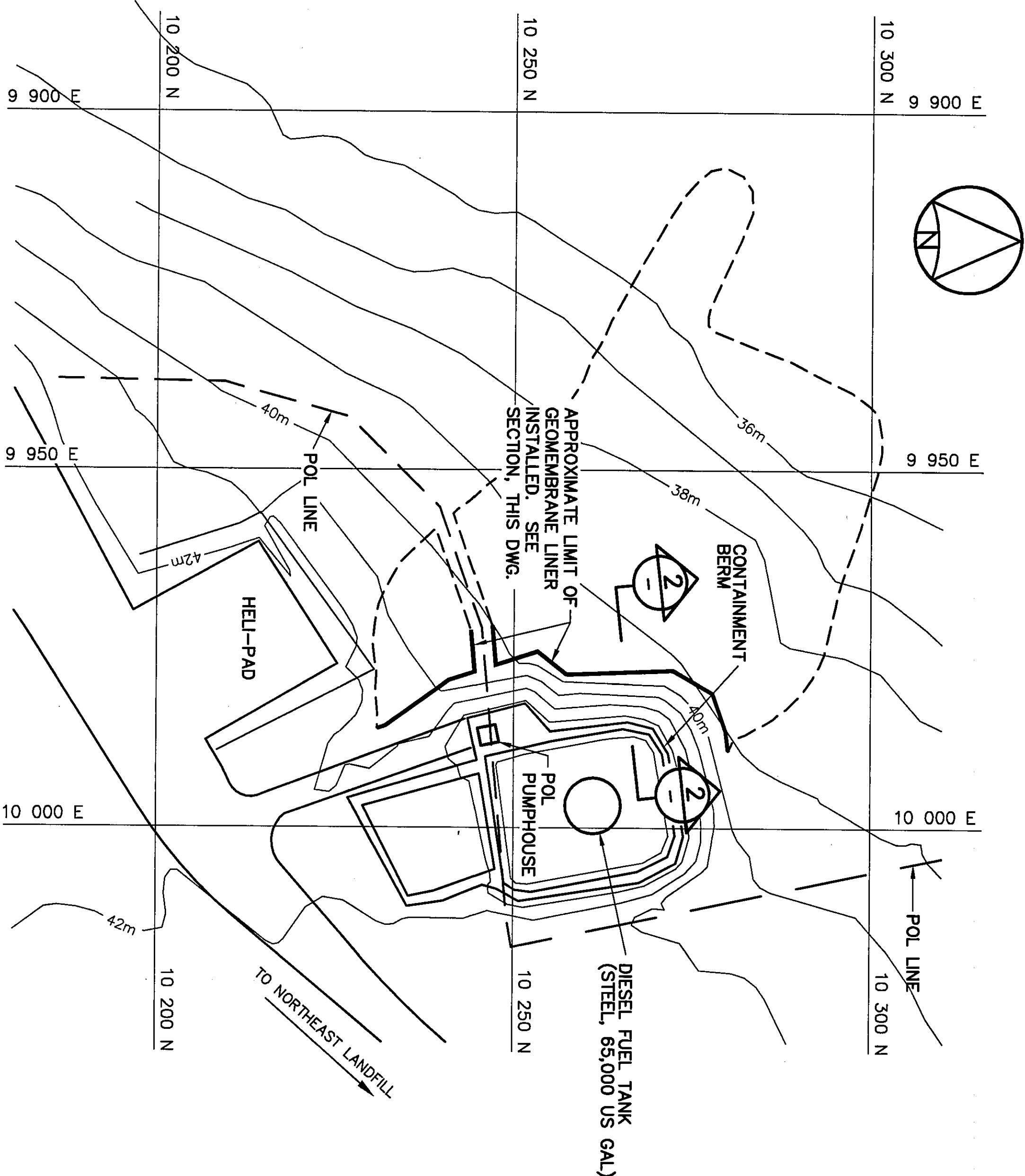
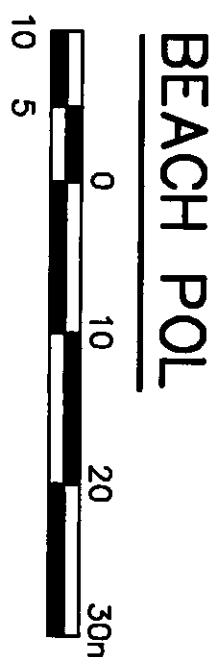
IRADE - MEIER
SITING
DATE
2004-12-10

CONTAMINATED POL PADS SOIL EXCAVATION SECTION AND DETAILS

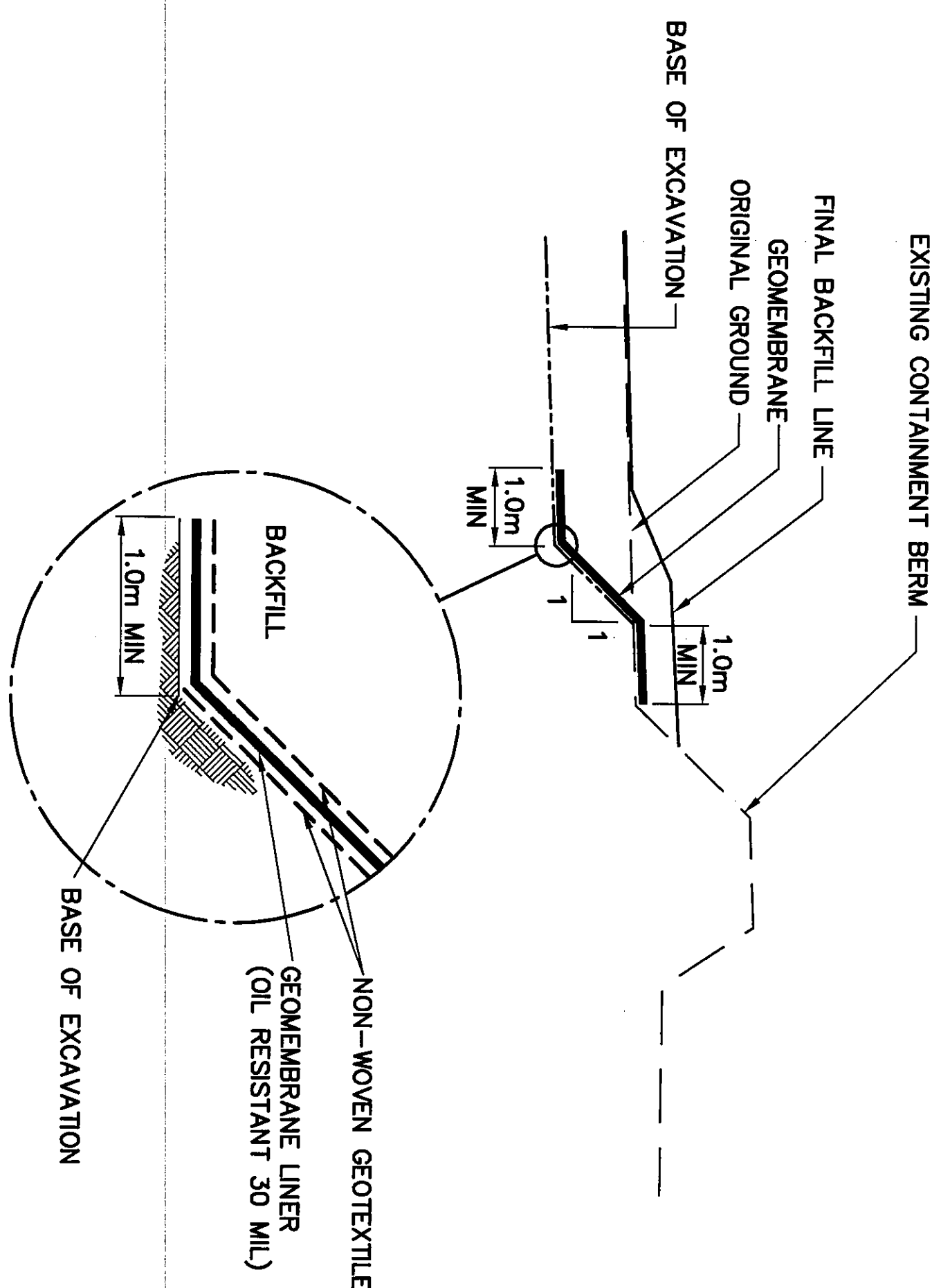
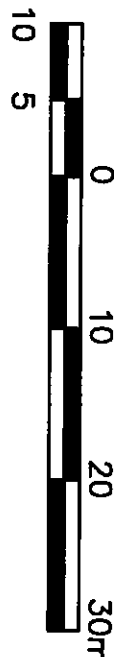
PRODUCTION		CONCURRENCE – ASSIGNMENT	
DESIGNED	AMP/REM	DES OFF	
ETUDE		AGENT CONCEPT	
DRAMA	RM/LUV	SECT HD	
DESIGNE		CHEF SECT	
CHECKED		DES MGR	
VERIFIE	MMG	GEST CONCEPT	
COORDINATION		REVIEWED – REVU	
	MMG		

DWG. NO. – DESSIN NO.
H-S123/2-9101-12

Canada



STATION POL AND STATION POL PAD



SECTION 2
SCALE: NTS

General Notes:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

TABLE 1
VERTICAL THERMISTOR CABLE INSTALLATION

INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS
USAF LANDFILL		
VT-2	3.5	IN KEY TRENCH
VT-4	3.3	IN KEY TRENCH

NOTE:
INSTALLED ALL THERMISTOR STRINGS TO BASE LINER UNLESS NOTED OTHERWISE

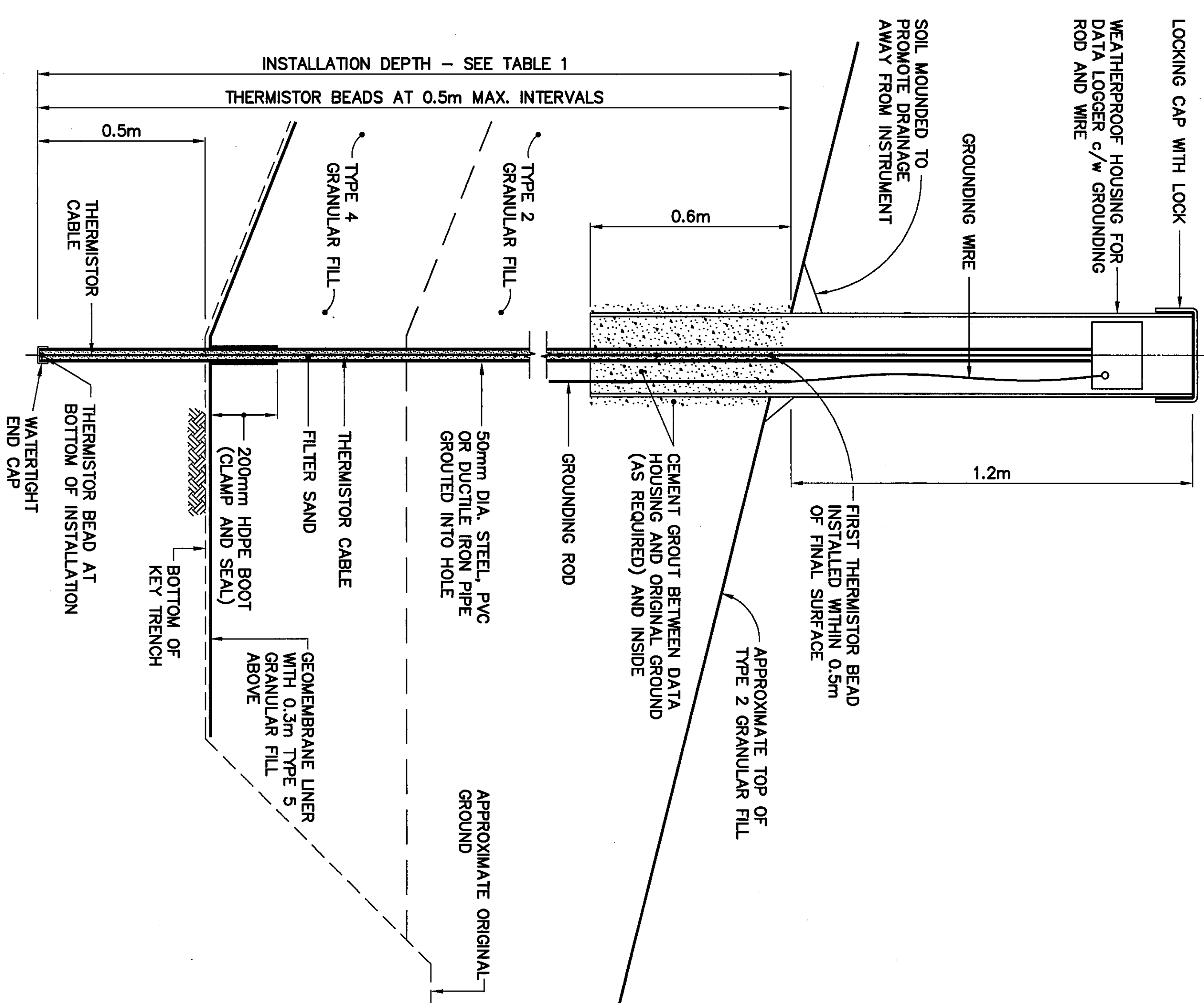
TABLE 2

INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS
USAF LANDFILL		
VT-1	2.6	ON PLATEAU
VT-3	3.6	ON PLATEAU

TABLE 3
VERTICAL THERMISTOR CABLE INSTALLATION

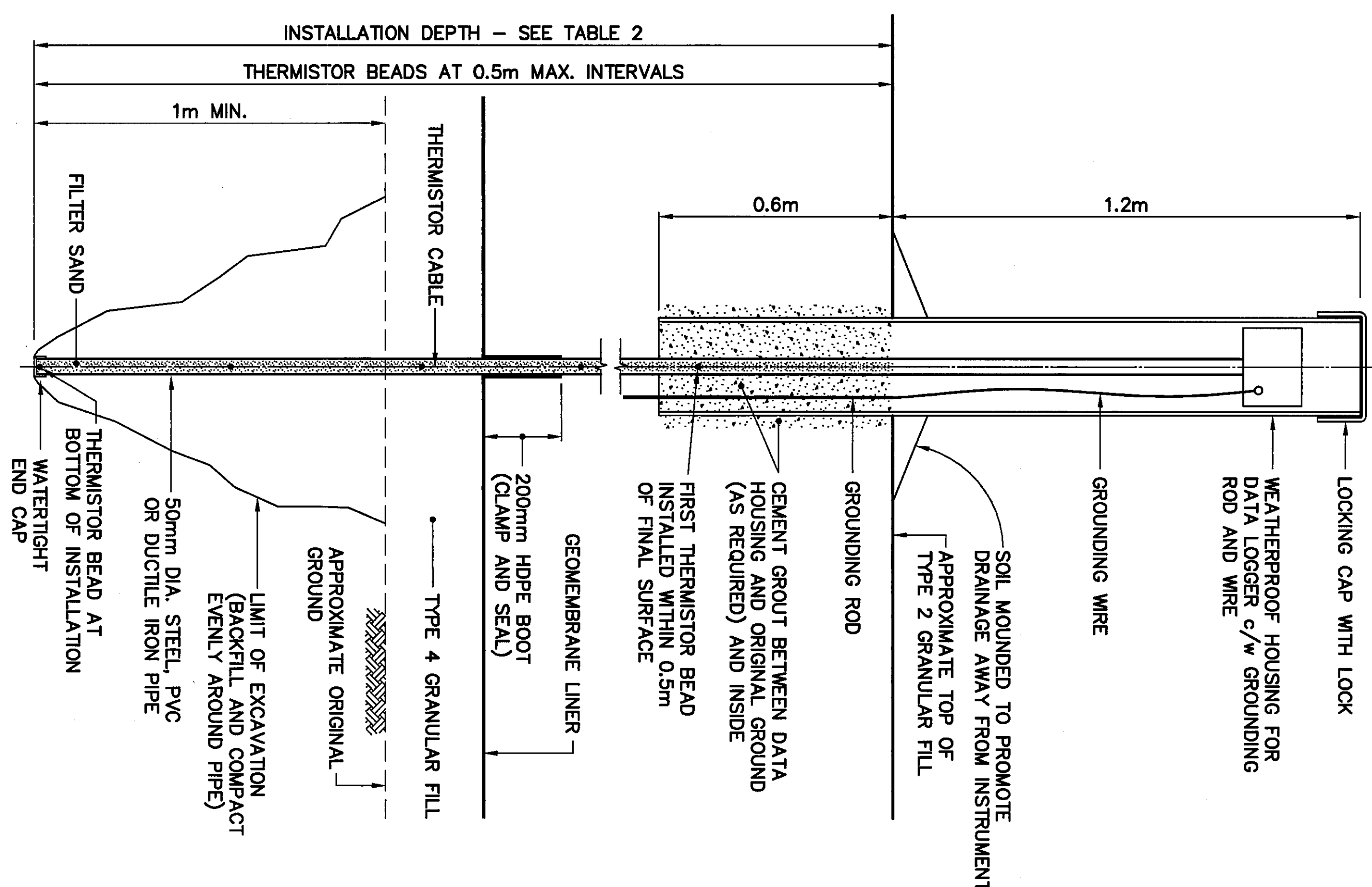
INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS
TIER II DISPOSAL FACILITY		
VT-5	6.3	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH
VT-6	6.1	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH
VT-7	7.2	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH
VT-8	7.1	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH

NOTE:
INSTALLED ALL THERMISTOR STRINGS TO BASE LINER UNLESS NOTED OTHERWISE



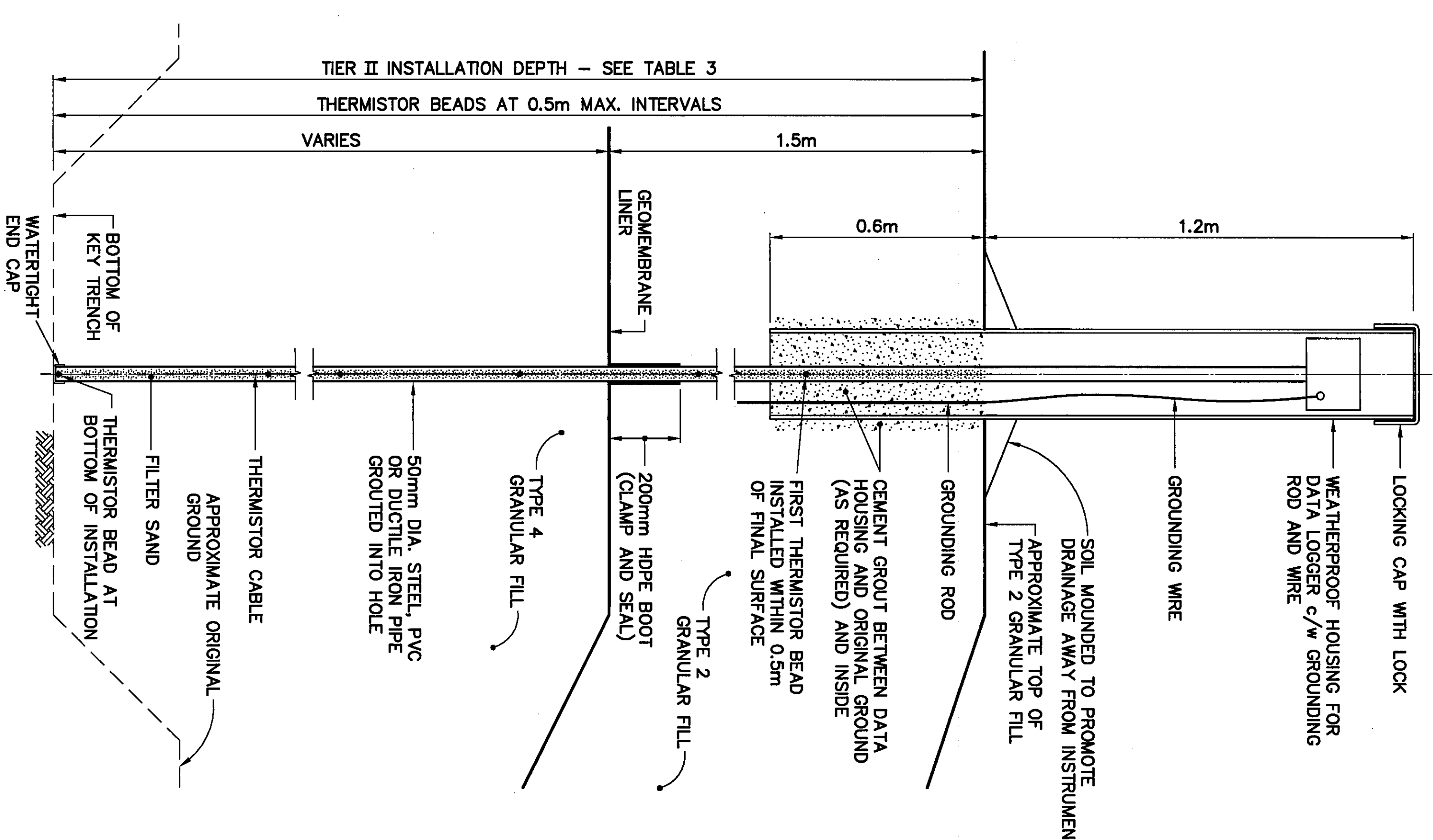
TYPICAL THERMISTOR CABLE INSTALLATION

SCALE: NTS
KEY TRENCH, VT-2 AND VT-4



TYPICAL THERMISTOR CABLE INSTALLATION

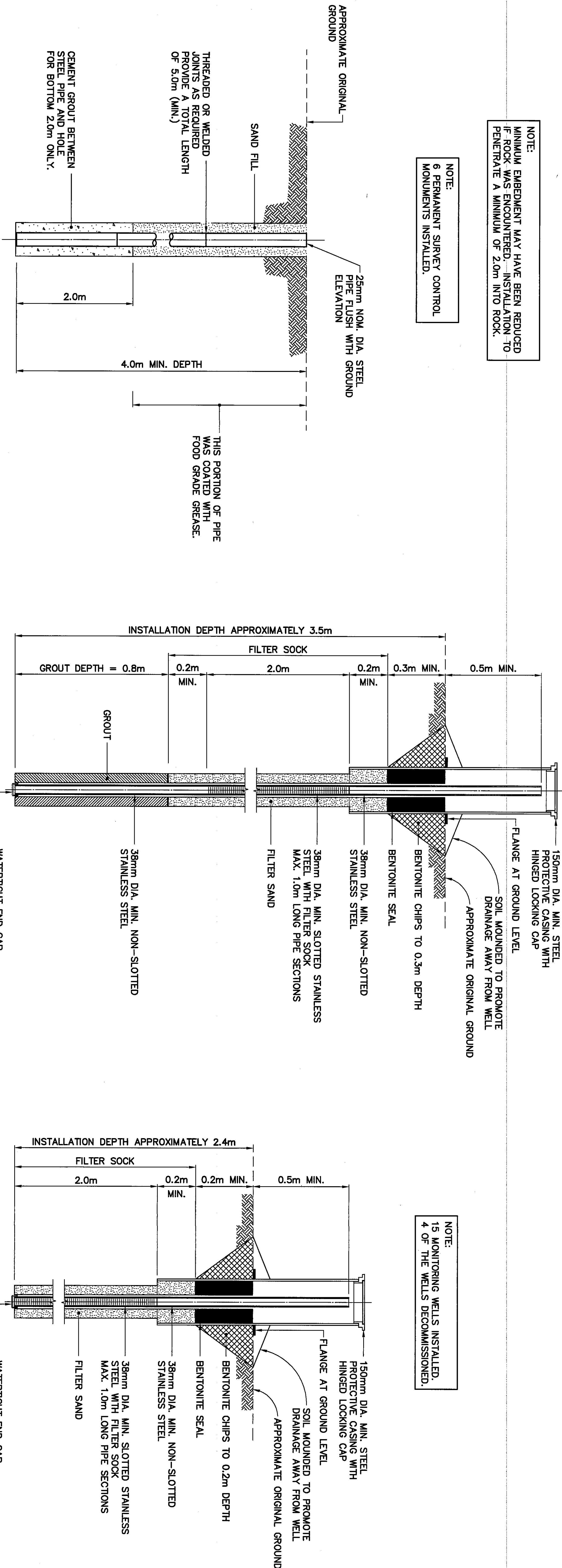
SCALE: NTS
PLATEAU, VT-1 AND VT-3



TYPICAL THERMISTOR CABLE INSTALLATION

SCALE: NTS
TIER II DISPOSAL FACILITY, VT-5 TO VT-8

General Notes:
1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.



TYPICAL PERMANENT SURVEY CONTROL MONUMENT

SCALE: NTS
ALSO CALLED PERMANENT BENCHMARK

TYPICAL MONITORING WELL

SCALE: NTS
ALSO, TYPICAL BACKGROUND MONITORING WELL INSTALLATION

TYPICAL MONITORING WELL

SCALE: NTS
ALSO, TYPICAL BACKGROUND MONITORING WELL INSTALLATION FOR BEDROCK DEPTH 42.7m

MISCELLANEOUS DETAILS
SHEET 2

PRODUCTION		CONCURRENCE - ASSAIGNMENT	
DESIGNED	<i>BMW</i>	DES. OFF.	AGENT CONCEPT
DRAWN	<i>CMZ/IC</i>	SECT. HD.	CHIEF SECT.
CHECKED	<i>RMW</i>	DES. MGR.	QEST. CONCEPT
COORDINATION	<i>SMG</i>	REVIEWED - REVU	

DWG. NO. - DESIGN NO.
H-S123/2-9101-123

1. BEACH AREA ELEVATIONS ARE REFERENCED TO ASSIGNED ELEVATION OF 100m AT TEMPORARY BENCHMARK TBMS00.
2. BEACH AREA HORIZONTAL CONTROL REFERENCED TO TEMPORARY BENCHMARK TBMS00.
3. STATION AND HANGAR AREA ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
4. STATION AND HANGAR AREA HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENT C.M1.
5. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
6. ALL STRUCTURES DEMOLISHED WERE DEMOLISHED TO TOP OF CONCRETE FOUNDATIONS UNLESS NOTED OTHERWISE.
7. ALL POLES WERE REMOVED UNLESS NOTED OTHERWISE.
8. PIPELINES AND ANCILLARY EQUIPMENT REMOVED AND LOCATIONS OF PIPE SUPPORTS AND PIPELINE MARKERS.
9. LOCATION OF POL LINES ARE APPROXIMATE.

DEMOLISHED
CONCRETE PAD REGRADED
UTILITY POLE REMOVED
BODY OF WATER

PERMIT TO PRACTICE
 AEON Canada Ltd.
 Signature *[Signature]*
 Date *Mar 21/08*
 PERMIT NUMBER: 0639
 MNV/NU Association of Professional
 Engineers and Geoscientists

SCALE - ECHELLE
AS SHOWN

DEW LINE CLEAN UP

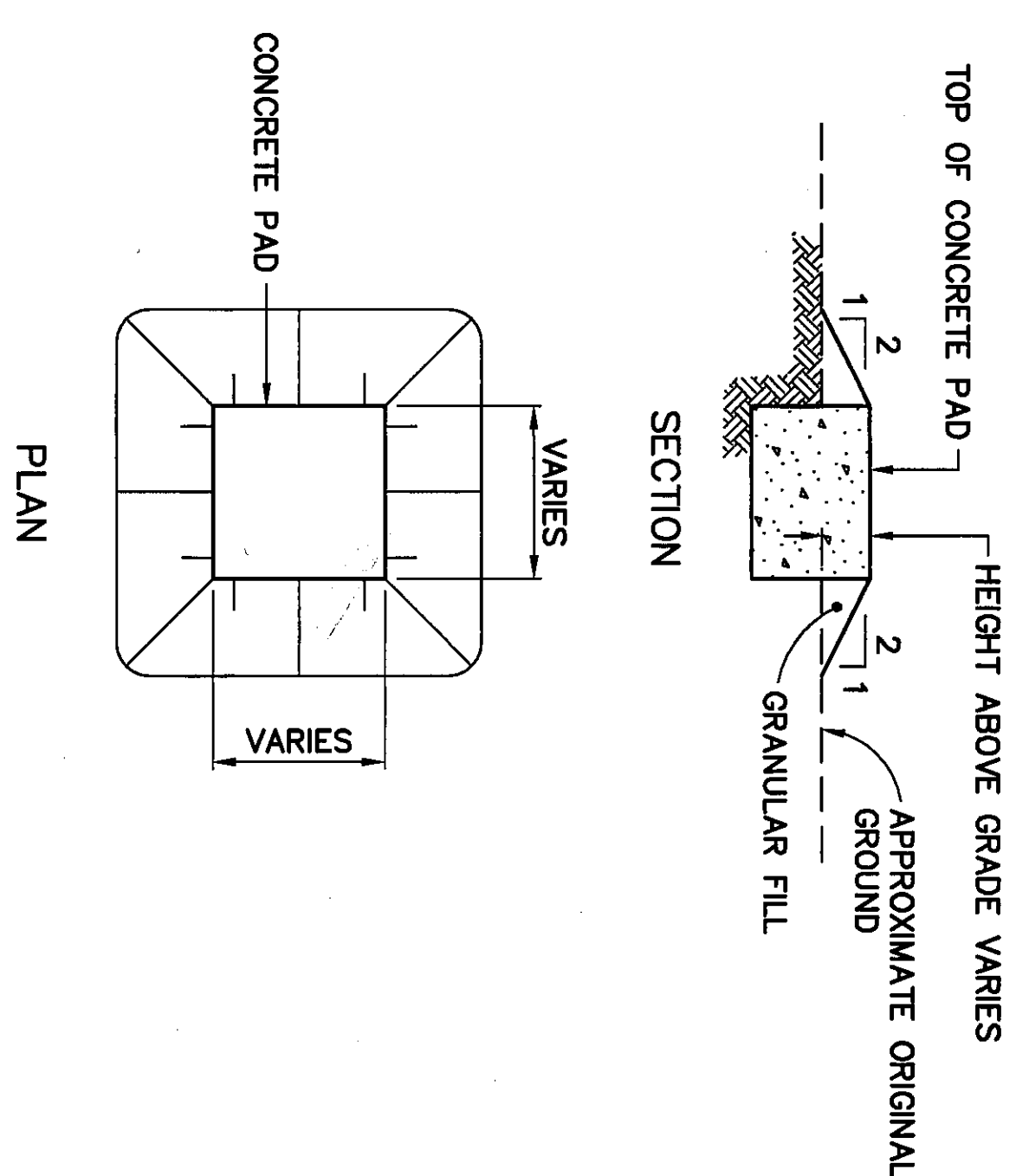
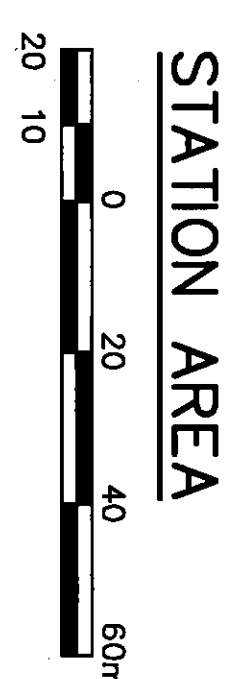
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DISCUSSION

ANS

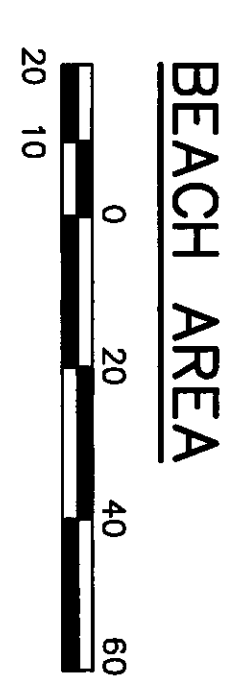
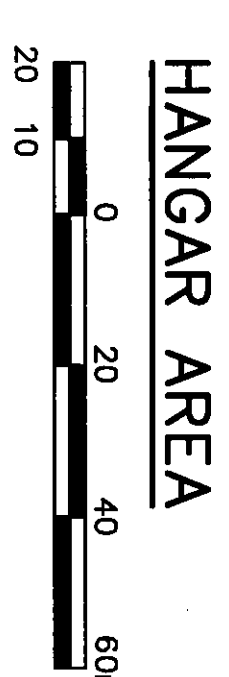
COORDINATION	REVIEWED – REV
<i>CMC</i>	

DWG. NO. — DESSIN NO.
H-S123/2-9101-20

Canadaⁿⁱ

SURVEY CONTROL MONUMENTS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
CM1	10 000,000	10 000,000	41.775	CAM.-3, BASELINE
CM3	10 357,750	10 111,994	41.450	GSC. MON. 749725
CM1124	10 121,226	9 933,143	43.418	TECSULT
CM1125	10 152,084	9 927,809	43.406	TECSULT
CM107	9 926,007	9 982,062	43.107	DMA. MON. 11811
CM108	9 962,444	9 970,897	42.650	DMA. RM. 11811

NOTE: THE STATION AREA IS ON A SEPARATE COORDINATE SYSTEM. IT IS NOT TIED-IN TO THE SITE SURVEY AT THE BEACH AREA.



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 AEON Canada Ltd.
 Signature *[Signature]*
 Date *Mar 21/08*
 PERMIT NUMBER: 0639
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 Engineers and Geoscientists