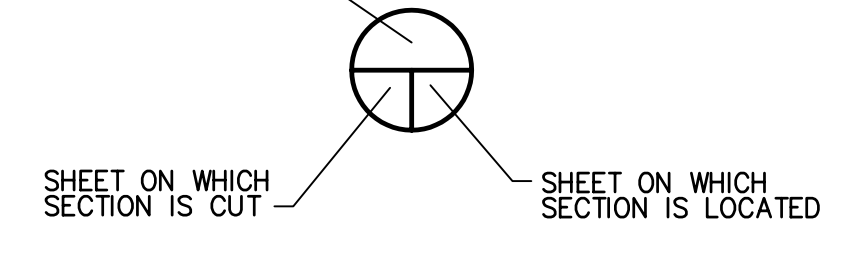


**LEGEND**

- PROPOSED ENVIRONMENTAL CONTROL INFRASTRUCTURE AREA
- PROPOSED 2 METER CONTOUR
- PROPOSED 10 METER CONTOUR
- PROPOSED ROAD CENTERLINE
- PROPOSED STORMWATER CONTROL BASIN
- PROPOSED DRAINAGE SWALE
- PROPOSED LEACHATE COLLECTION TRENCH
- PROPOSED LEACHATE CONVEYANCE LINE
- # PROPOSED ACTIVE LFG WELL AND/OR PASSIVE LFG VENT

**SECTION AND DETAIL KEY**



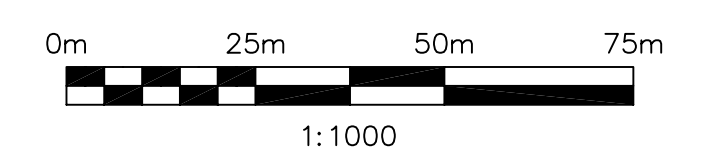
**NOTES:**

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET 2.
2. PROPOSED FINAL COVER GRADES ARE SHOWN. TOP OF PROPOSED WASTE WAS ASSUMED TO BE ONE METER BELOW FINAL COVER GRADES.
3. THE PROPOSED ACTIVE LANDFILL GAS WELLS OR PASSIVE LANDFILL GAS VENTS ARE SHOWN IN CONCEPTUAL PLAN LOCATION ONLY. AN ENGINEERING DESIGN AND EVALUATION MUST BE SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION. THIS EVALUATION SHALL DETERMINE IF THE TOTAL LANDFILL CAPACITY (IN-PLACE AND EXPANDED) EXCEEDS 2,500,000 CUBIC METERS. IF THE EXPANDED LANDFILL CAPACITY EXCEEDS 2,500,000 CUBIC METERS, A LICENSED ENGINEER WILL BE REQUIRED TO CONDUCT AN INVESTIGATION TO EVALUATE IF AN ACTIVE LANDFILL GAS COLLECTION SYSTEM IS REQUIRED. THIS EVALUATION WILL BE CONDUCTED IN ACCORDANCE WITH USEPA TITLE V AND NSPS REQUIREMENTS. THE LANDFILL GAS COLLECTION SYSTEM MAY INCLUDE LANDFILL GAS COLLECTION WELLS, TRENCHES, VENTS, CONDENSATE MANHOLES, AND MISCELLANEOUS CONTROL SYSTEMS. ADDITIONAL DESIGN DETAILS OF LANDFILL GAS CONTROL SYSTEMS ARE INCLUDED IN "LANDFILL DESIGN STANDARDS GUIDELINES ", PREPARED BY VINCENTY, HERES & LAURIA/MALCOLM PIRNIE, INC., 2004.

**CULEBRA ESTIMATED LANDFILL VOLUME\***

CUT 0 CU. METERS.  
 FILL 23,991 CU. METERS  
 NET 23,991 CU. METERS

\* CUT REPRESENTS THE VOLUME OF WASTE REMOVED FROM EXISTING LANDFILL TO STABILIZE STEEP SLOPES. FILL REPRESENTS THE TOTAL VOLUME OF AIRSPACE REMAINING BETWEEN EXISTING AND TOP OF PROPOSED WASTE. NET FILL REPRESENTS THE REMAINING VOLUME OF AIRSPACE AVAILABLE TO ACCEPT FUTURE PLACEMENT OF WASTE CONSIDERING THAT THE WASTE REMOVED FROM EXISTING SLOPES IS PLACED WITHIN THE FOOTPRINT OF THE EXISTING LANDFILL. THE ESTIMATED CUT AND FILL VOLUMES DO NOT INCLUDE WASTE THAT MAY BE LOCATED OUTSIDE OF THE PERMITTED WASTE DISPOSAL LIMITS AND MAY HAVE TO BE PLACED INTO THE LANDFILL.



**NOT FOR CONSTRUCTION**

User: ddowney Spec: PIRNIE STANDARD File: T:\2451088\CADD\PHASE1\Culebra\dwg\PH2-CULEBRA-04.DWG Scale: 1:25 Date: 10/06/2004 Time: 06:38 Layout: Layout2



REVISIONS				
NO.	BY	DATE	REVISIONS	REMARKS

DES	HJH/JTS
DWN	CLD
CKD	JCB

COMMONWEALTH OF PUERTO RICO  
 SOLID WASTE MANAGEMENT AUTHORITY  
**APPENDIX A – PROGRESS REPORT**  
**CONCEPTUAL SITE PLANS**

**CULEBRA LANDFILL**  
**CONCEPTUAL SITE DEVELOPMENT**  
 SCALE AS NOTED

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 MALCOLM PIRNIE, INC.  
 DATE NOVEMBER 2004  
 SHEET 4 OF 6  
 CAD REF. NO. PH2-CULEBRA-04