



Innovative
Design
Engineering of
America, LLC
412.242.4347

JOB TITLE

P-I-P
WATER PROJECT
MACALLA PLAN

PROJECT	8001	DATE	8/11/05
SCALE	1"=250'	REV. NO.	A
DRAWN	BKS	DWG. NO.	8001-02
CHECKED			

ROOF OF
RESTAURANT
EL. 2811

COFFEE
MILL

DEVELOPED LENGTH = 1748'
ELEVATION CHANGE = 231'

Station	Northing deg min	Easting deg min	Northing deg	Easting deg	Elev ft	Description
3	18 22.115	72 35.225	18.36858	72.58708	2663	Non-Potable Spring
4	18 22.122	72 35.23	18.36870	72.58717	2659	Route from Non-Potable
5	18 22.152	72 35.228	18.36920	72.58713	2646	Potable Spring
6	18 22.276	72 35.292	18.37127	72.58820	2583	Cistern
7	18 22.426	72 35.09	18.37377	72.58483		In front of Wall
8	18 22.427	72 35.09	18.37378	72.58483	2811	Top of Restaurant
9	18 22.419	72 35.089	18.37365	72.58482	2791	Top of Trail
10	18 22.358	72 35.155	18.37263	72.58592	2741	
11	18 22.330	72 35.157	18.37217	72.58595	2729	45 Degree Bend
12	18 22.306	72 35.175	18.37177	72.58625	2722	By Colorful House
13	18 22.317	72 35.197	18.37195	72.58662	2711	
14	18 22.310	72 35.193	18.37183	72.58655	2711	By White House
15	18 22.283	72 35.285	18.37138	72.58808	2580	
16	18 22.273	72 35.292	18.37122	72.58820	2580	Cistern
17	18 22.449	72 35.132	18.37415	72.58553	2700	

POTABLE SPRING
NO. 2

NON-POTABLE
SPRING NO. 3

Route	Distance
16-15	73
15-14	555
14-13	48
13-12	143
12-11	179
11-10	170
10-9	531
9-8	49
TOTAL	1748

CISTERN
LOCATION
EL. 2580