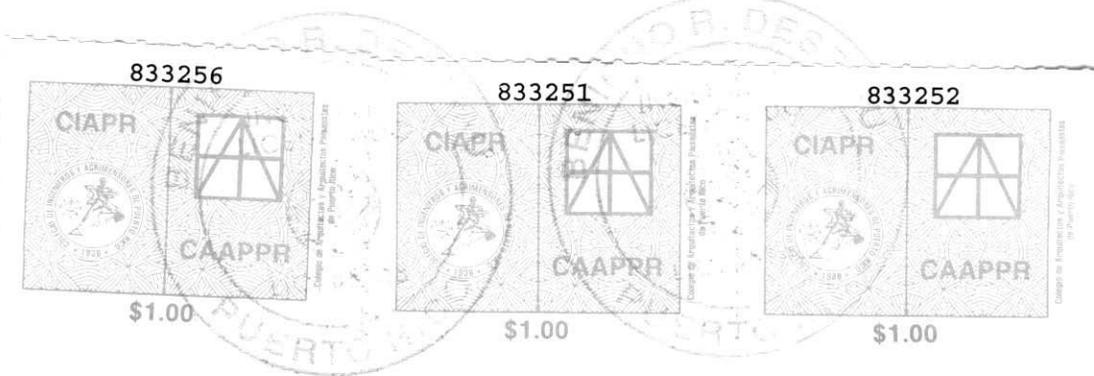


Despiau Associates

CONSULTING GEOTECHNICAL ENGINEERS



PRELIMINARY SUBSURFACE EXPLORATION AND
GEOTECHNICAL ENGINEERING ASSESSMENTS FOR
THE PROPOSED MONTE ELVIRA DEVELOPMENT
AT SAN ILDEFONZO WARD, COAMO, PUERTO RICO
REFERENCE DA/11S3302



SAN JUAN, PUERTO RICO
NOVEMBER 8, 2011

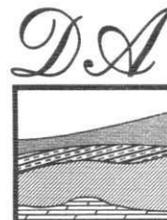
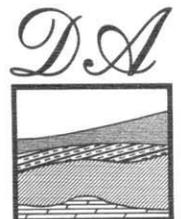


Table of Contents

	Page
I. INTRODUCTION	1
II. SITE AND PROJECT DESCRIPTION	1
III. FIELD SUBSURFACE AND SAMPLING PROGRAM	2
3.1 Subsurface Investigations	2
3.2 Surface Soil Data and Site Geology	2
3.2.1 Surface Soil Data	2
3.2.2 Geological Notes.....	4
3.3 Stratigraphic Units	5
3.3.1 Surface Layers.....	5
3.3.2 Completely Weathered Layers	5
3.3.3 Highly Weathered to Fresh Rock Layers.....	6
3.4 Groundwater Levels	6
IV. PRELIMINARY GEOTECHNICAL ENGINEERING ASSESSMENTS	6
4.1 General Preliminary Foundation Construction Guidelines.....	7
4.2 Fill Embankment Stabilization at Lowland Sectors.....	7
4.3 Preliminary Geotechnical and Foundation Design	8
4.3.1 Special Settlement Considerations at Lowland Sectors.....	8
4.4 Required Soil Improvements at Lowland Sectors	9
4.4.1 Considerations for Fill Construction	9
4.4.2 Groundwater Considerations	10
4.5 Earthquake Design.....	10
4.6 General Earthwork and Site Improvement Recommendations	10
4.6.1 Existing Slope Stability Conditions at Project Lands.....	11
4.6.2 Special Considerations for Earthfill Construction	11
4.6.3 Special Considerations for Cuts Required for Grading	12
4.6.4 Earthwork Demucking Operations	13
4.6.5 Excavations and Rippability Characteristics	13
4.7 Storm Water Run-off Control	14
4.8 Recommended Final Geotechnical Exploration	14
4.9 Additional Recommendations	15
V. LIMITATIONS OF THIS REPORT	15
Appendix (1) - Boring Logs	
Appendix (2) - Earthwork Specifications	
Appendix (2-A) - Specifications for Excavation and Earthwork Benching	
Appendix (3) - Special Laboratory Tests	



I. INTRODUCTION

This report presents the results of the preliminary geotechnical exploration at the Proposed Single-family Dwelling Units *and Walkup Units* at Monte Elvira Development. The site is located north of State Road PR-14, in the vicinity of Km. 30.7 at San Ildefonso Ward, Coamo, Puerto Rico.

The work was undertaken at the request of the firm Juan Ayguabibas & Associates – Civil Engineer, on behalf of Monte Elvira Corporation, Developers. The work made following acceptance of the proposal No. 09-11-11 for the subsurface exploration dated August 29, 2011. The technical aspects of the work were made with the collaboration of Mr. Juan Ayguabibas, P.E.

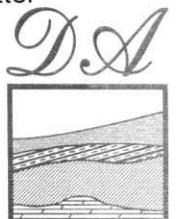
This report presents the preliminary engineering assessment to assist the A/E design team in the preliminary design, cost estimates, and preparation of the Environmental Site Assessment (ESA) of the project. The work shall be used to provide the engineering design assessments regarding the proposed *earthwork phase of construction of the proposed cut and fill sections as required for the Site Engineering Design and to establish the subsurface conditions at the site* for the identified *Single-family structures of Monte Elvira Development*. The parameters of foundation design of any structure at the site shall be contained in the final geotechnical report covered in a separate work.

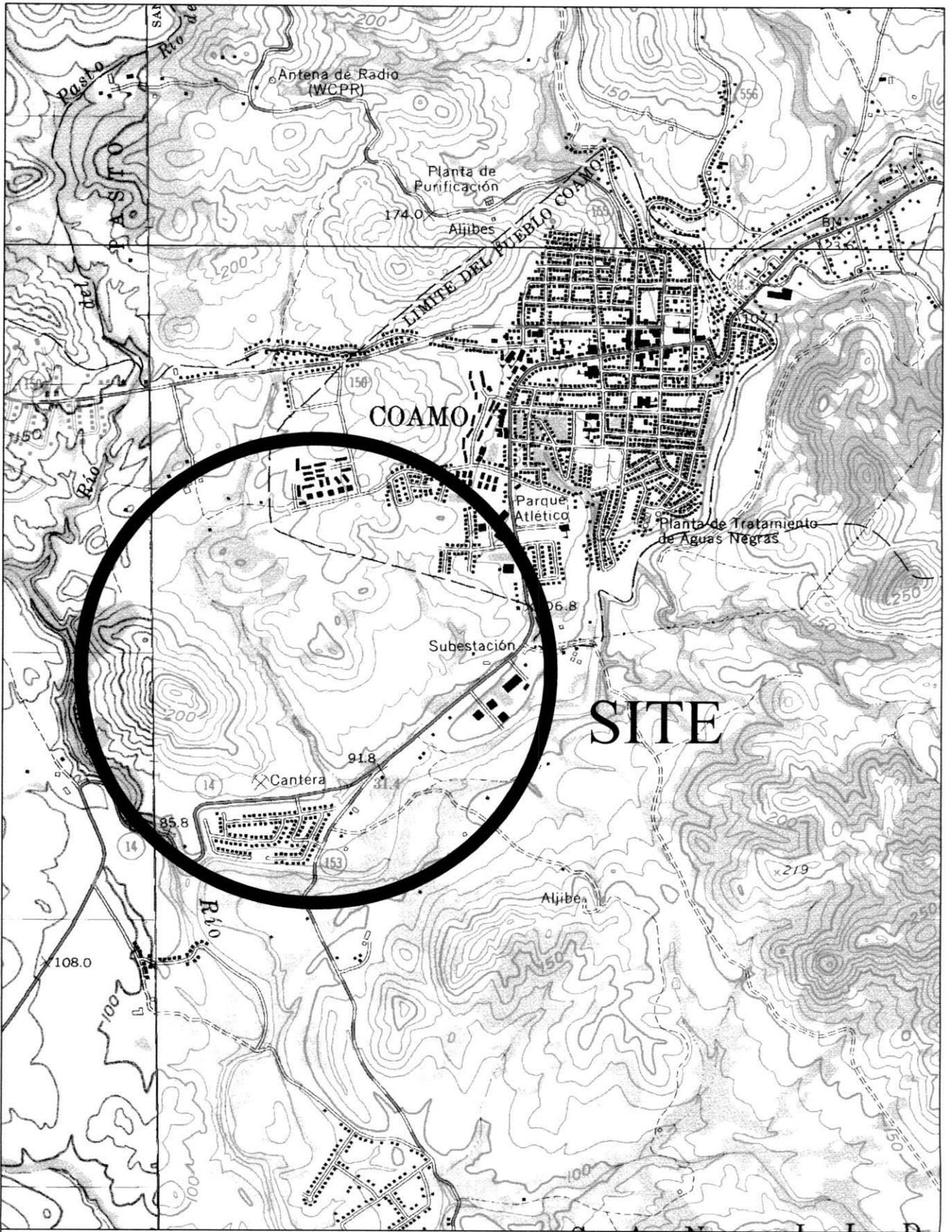
Reportedly, at this planning stage of development, the project shall involve Walkup Residential and One-story single-family story dwelling units. This report has been prepared for the exclusive use of Monte Elvira Corporation, Developers and the A/E Firm in charge of the foundation and earthwork-site development design of the project.

II. SITE AND PROJECT DESCRIPTION

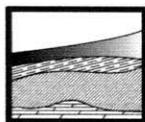
The site of the *Monte Elvira Development* project is located to the north of State Road PR-14 and north of its intersection with State Road PR-138 at San Ildefonso Ward, Coamo, Puerto Rico. Enclosed is a portion of the US Geological Survey Service Topographical plan at a scale 1:20,000, Figure 1.

Among the most prominent topographic features is the De La Mina River which runs along the southwestern boundary of the project and merges with the Coamo River, south of State Road PR-14. A main gully (intermittent stream) which runs north to south is nearly parallel to State Road PR-138. It crosses the terraced alluvial areas from the developed lands to the north and State Road PR-150. Several gullies carry surface flows from the both east and west highland sectors of the project lands. A third stream is shown in the USGS topographic map and the Soil Survey Map which is found at the eastern sector of the project lands draining surface flows to the State Road PR-14 fill embankment, where it is diverted to the State Road PR-153 and subsequently to the Coamo River. This latter





FROM US GEOLOGICAL SURVEY TOPOGRAPHIC MAP AT A SCALE 1:20,000



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SITE PLAN

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