



**ANDREWS, ASBURY & ROBERT, INC.**  
Consulting Engineers

149 Jackson, NE, Albuquerque, New Mexico 87108  
(505) 265-6631

John A. Andrews, P.E.  
Charles T. Asbury, P.E.  
John B. Robert, P.E. & L.S. (1915-1984)  
James E. Millington, P.E. - V.P.  
Gayle D. Jewell, L.S. - V.P.

March 12, 1992

Mr. Gilbert Aldaz  
Flood Plain Administrator  
City of Albuquerque  
P.O. Box 1293  
Albuquerque, New Mexico 87103

RE: L.O.M.R. Request for Sunport Park, Phase I  
(FEMA Case 6-91-127).

Dear Gilbert,

In response to your letter of February 19, 1992, I am submitting the following materials:

1. Topographic mapping of the additional fill placed along the west side of Transport Street in December 1991. This map shows that there is now over three (3) feet of earthen embankment on the west side of Transport from approximately one hundred (100) feet north of the intersection with Woodward Ave. to approximately four hundred (400) feet south of the intersection. The new fill increased the height of the embankment approximately six (6) inches to one (1) foot adjacent to the Woodward Road intersection (beyond that shown in the July 22, 1991 survey originally submitted with this revision). In addition to raising the embankment, the new fill provides considerable additional width at FEMA's point of concern (south of Woodward Road).
2. Results of compaction tests performed on the new fill mentioned in Item 1. The compaction test uses the modified proctor density methods based upon maximum density testing performed in May of 1988 when the project was originally constructed (also enclosed). Using the modified densities, the new fill shows a compaction of 90% with ASTM D 1557 method C. This is for all practical purposes equivalent to a compaction of 95% based upon Standard Proctor methods (ASTM D-698).

I believe this information (along with the 12-23-91 survey data submitted to you previously) complies with FEMA's request for additional information (letter of September 10, 1991) and shows that "the berm is at its highest point across the entire width of

Page 2.  
Mr. Gilbert Aldaz  
March 12, 1992

the intersection" which I have interpreted to mean that a minimum of three (3) feet of freeboard is needed where flows turn from Woodward Road and then travel north to the constructed inlets on Transport.

Please feel free to contact me with any questions or comments.

Sincerely,

  
Thomas L. Holtman P.E.

# Vinyard & Associates, Inc.

4415-D Hawkins, NE  
Albuquerque, New Mexico 87109  
(505) 345-1937

Geotechnical Engineering • Materials Testing • Environmental Engineering

February 26, 1992

Andrews, Asbury and Robert, Inc.  
149 Jackson St. NE  
Albuquerque, NM 87109  
Attn: Mr. Thomas L. Holtman, P.E.

Subject: Sunport Business Park  
V & A Job No. 92-2-53

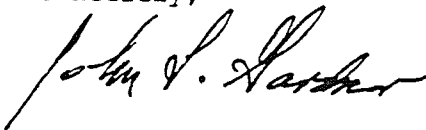
Dear Sir:

RECEIVED ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS	
DATE MAR 11 1992	ANDREWS
JOB 415-E	ASBURY CJA
COMMENTS	J.E.M.
FILE <input type="checkbox"/>	TH TH

Attached are copies of the earthwork Compaction Test Results for the subject project.

Should you have any questions regarding this data, please do not hesitate to call.

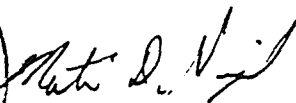
Sincerely,



John Gardner



Vinyard & Associates, Inc



Martin D. Vinyard, P.E.

Attachment: Report No. 1

cc: Addressee (1)

V  
&  
A

## COMPACTION TEST RESULTS

PROJECT: Sunport Business ParkCLIENT: Andrews, Asbury and Robert, Inc.TECHNICIAN: John GardnerPROJECT NO.: 92-2-53REPORT NO.: 1DATE: 02/17/92

Test No.	Location	Elevation	Proctor Number	Field Moisture (%)	Field Dry Density (pcf)	Relative Compaction (%)	Specified Compaction (%)
1	Drainage Berm, W. side of transport St. at intersection of Woodward. 30' S. of N. end	FSG	1	7.8	115.7	90	90
2	Drainage Berm, W. side of transport St. at intersection of Woodward, 75' S. of N. end	FSG	1	7.3	115.5	90	90

## Proctor Tests Utilized

Proctor No.	Soil Description	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Remarks
1	SAND, very silty, sli. gravelly, brown	8.5	128.4	Provided by client

WEATHER: Partly cloudyEQUIPMENT: -REMARKS: See attached Daily Diary

# Vinyard & Associates, Inc.

## A

### DAILY DIARY

Project: Sunport Business Park

Client: Andrews, Asbury and Robert Inc.

Date: 02/17/92

Project No.: 92-2-53

Time: \_\_\_\_\_

Contractor : \_\_\_\_\_

Technician: John Gardner

Moisture density tests were performed on material placed for earthen berm construction.

Test results were presented to Tom Holtman, P.E. with Andrews, Asbury and Robert, Inc.'

Proctor weight used for testing was provided by said person with client.

FOX

**FOX & ASSOCIATES OF NEW MEXICO, INC.**

**CONSULTING ENGINEERS AND GEOLOGISTS**

ALBUQUERQUE OFFICE 3412 BRYN MAWR DRIVE, NE  
ALBUQUERQUE, NEW MEXICO 87107  
(505) 884-0900

May 13, 1988

Andrews, Asbury & Robert, Inc.  
149 Jackson Street, NE  
Albuquerque, NM 87108

Job No. 3-4544-6074-00

Attention: Jim Millington

Subject: Laboratory Determinations  
Moisture-Density Relations of Soils,  
Atterberg Limits Test & Sieve Analysis  
Sunport Parking, Phase I  
Infrastructure Improvements

Gentlemen:

Transmitted herein is the detailed test data for the subject  
project.

FOX & ASSOCIATES OF NEW MEXICO, INC.

  
Hector M. Martinez  
Staff Materials Engineer

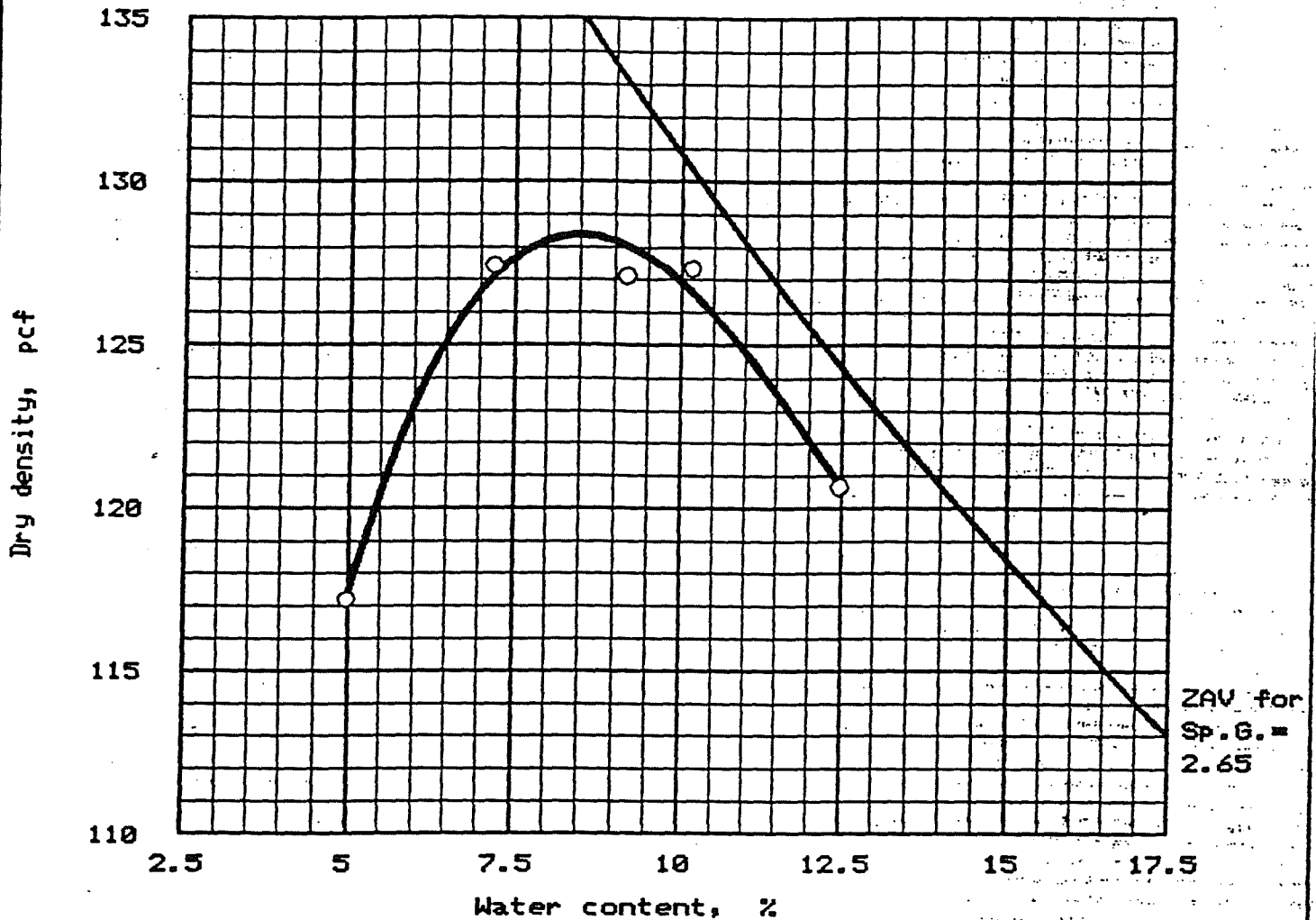
Copies: Addressee (2)  
New Concepts, Attn: Mr. Tom Lakeman  
City of Albuquerque, Public Works Dept.  
Attn: Mr. Brian Dolan  
J. R. Hale, Attn: Mr. Kurt Wagener

RECEIVED ANDREWS, ASBURY & ROBERT, INC. CONSULTING ENGINEERS	
DATE	ANDREWS
JOB 412D	ASBURY
COMMENTS	J.E.M.
FILE <input type="checkbox"/>	

Attached: Data Sheet

js

# PROCTOR TEST REPORT



"Modified" Proctor, ASTM D 1557, Method C

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No. 4	% < No. 200
	USCS	AASHTO						
-7.0'	SM	-		2.65	20.7	NP	9.2 %	26.2 %

## TEST RESULTS

Optimum moisture = 8.5 %  
Maximum dry density = 128.4 pcf

## MATERIAL DESCRIPTION

SAND, very silty, sli.  
gravelly, brown

Project No.: 6074  
Project: Sunport Parking  
Location: Transport and Woodward

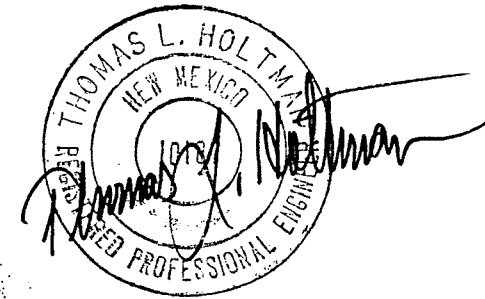
Date: 5-05-1988

Remarks:




PROCTOR TEST REPORT  
Consulting Engineers and Geologists

Figure No. 1



SUNPORT PARK  
EXISTING CONDITIONS  
12-23-91

 Additional compacted fill  
performed in December '91

