



John and Jane Doe
1234 E. Some Place
Anywhere, AZ

RE: Manufactured Home FHA Permanent Foundation Engineering Certification
 1234 E. Some Place, Parcel #123-456-789H
 Anywhere, AZ

To Whom It May Concern:

The manufactured home was identified as:

Manufacturer: CAVCO Homes

S/N & Model Numbers:

Model:

HUD Number(s):

Year of Manufacture:

Year of Installation:

The foundation system and all the other elements (manufactured home, foundation, piers and anchorage system soils, seismic, wind) have been installed at the above referenced installation address per the approved methods of CAVCO Manufactured Homes, within the State of Arizona and do conform to the following standards:

- o HUD permanent Foundation Guide for Manufactured Housing 7584, September 1996, as well as to the standards of the HUD handbooks such as 4145.1 Rev-2, 4150.1 Rev.-1
- o FHA Minimum Requirements for Manufactured Housing Foundation Systems, Appendix F., Wind speed of 80 mph, exposure "C".

Respectfully Submitted,



Ralph G. Baca, P.E.
Principal Engineer

Attachment: Installation Document/ Report

BBACA ENGINEERING, LLC

Property Inspection Report

FHA/ HUD Permanent Foundation Engineering Certification

Client: *John and Jane Doe*
Property Location: *1234 E. Some Place*
Anywhere, AZ



Inspection Date:
Engineer: *Ralph G. Baca, P.E.*
AZ. License: *30637*
Phone: *480-706-6222*
FAX: *480-706-9330*

1. Introduction

Per Fannie Mae and Freddie Mac guidelines they require a licensed Professional Engineer to evaluate mobile home foundation systems for approval. At the request of John and Jane Doe a Site Evaluation was completed and subsequent Engineering Foundation Installation Evaluation was performed by Ralph G. Baca, P.E. of BBaca Engineering, LLC on the property at 1234 E. Some Place, Anywhere, AZ. The report that follows has been prepared based on that inspection.

The intent of this inspection was to evaluate, through non-destructive test and visual inspection, the current condition of the permanent foundation system of the mobile home and to determine if it is adequate as it now stands to meet the following guidelines:

- HUD permanent Foundation Guide for Manufactured Housing, September 1996, as well as to the standards of the HUD handbooks such as 4145.1 Rev-2, 4150.1 Rev.-1
- FHA Minimum Requirements for Manufactured Housing Foundation Systems, Appendix F., Wind speed of 80 mph, exposure "C".

This inspection and report does not include code compliance, municipal regulatory compliance, subsurface investigation, or records research related to this building.

This inspection report is limited to observations made from visual evidence. No destructive or invasive testing was performed. The report is not to be considered a guarantee of condition and no warranty is implied. This report is, however, an opinion about the condition of this building. It is based on visual evidence available during a diligent inspection of all reasonably accessible areas. No surface materials were removed, no destructive testing undertaken, nor inspections of the interior of the home taken into account for this report. This report is not an exhaustive technical evaluation. Such an evaluation would cost many times more.

As Professional Engineers, it is our responsibility to evaluate available evidence relevant to the major systems in this building. We are not, however, responsible for conditions that could not be seen or were not within the scope of our service at the time of the inspection.

2. Description

Per the on-site inspection completed and as outlined in the attached photos and attachments, the chassis is supported by equally spaced masonry and metal piers mounted on four inch thick, sixteen by sixteen inch wide masonry blocks that are laying on the soil (see photos). The structure or walls of the home are tied to a masonry and reinforced CMU stem wall via conventional metal straps anchored to the masonry CMU wall around its perimeter (see photos). The floor of the home is near or slightly above ground level, therefore the crawl space is mostly dug out. The side dirt wall around the perimeter is supported by a reinforced masonry CMU wall construction installed over reinforced concrete footings (see photos). As with similarly constructed homes, this method of installation, over a relatively long period of time may have a tendency to settle. Therefore, periodic adjustments may be required.

Based on the inspection, the above installation description, and the age of the home, in our opinion the manufactured home has been set at its current location since its original installation and has never been moved.

3. Summary and Conclusion

3A) Foundation Installation

The foundation design drawings for the existing property were reviewed and a site visit completed pursuant to the requirements and guidelines set forth in the HUD handbook 7584 "Permanent Foundation Guide for Manufactured Housing", HUD-007487 dated September 1996. Based on the manufacturer's specifications, loading requirements of this particular design and location, and the current foundation system we find the installation acceptable in meeting the HUD guidelines outlined above.

If you have any questions about this report or inspection, please feel free to call our engineer for clarification. There is no additional charge for a reasonable number of phone consultations. Should an additional visit to the home be necessary, however, an additional fee may be charged.

Thank you for the opportunity to be of assistance to you.

Sincerely,

Ralph G. Baca

Ralph G. Baca, P.E.
Enclosures



Photo 1: Front exterior and side view.



Photo 2: Front exterior and side view.



Photo 3: Rear exterior and side view.



Photo 4: Rear exterior view.



Photo 5: Arizona HUD tag one of two.



Photo 6: Arizona HUD tag two of two.



Photo 7: Rear exterior and side view.



Photo 8: Crawl space view showing metal straps from stem wall and tied to exterior wall.



Photo 9: Crawl space view showing masonry & metal piers on concrete pads and perimeter retaining wall.



Photo 10: Crawl space view showing masonry & metal piers on concrete pads and perimeter retaining wall.



Photo 11: Crawl space view showing masonry & metal piers on concrete pads and perimeter retaining wall.

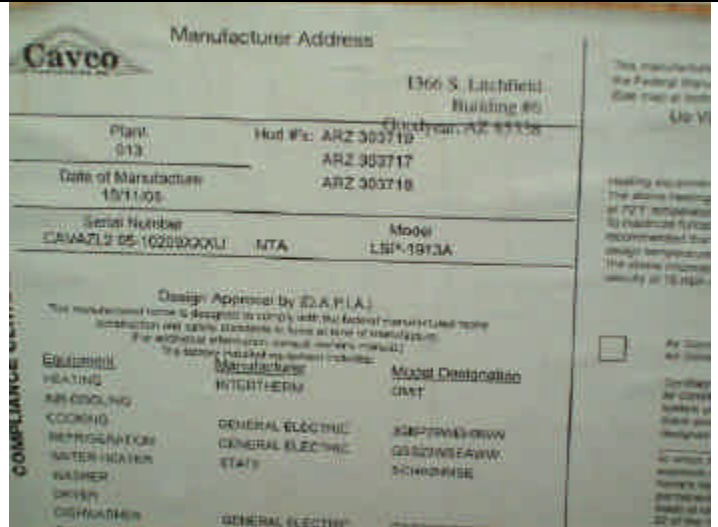


Photo 12: HUD compliance certificate.

BBACA ENGINEERING, LLC

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