



## **Terra Dynamic Engineering LLC.**

**Engineering Consultants**

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February 27, 2017

Town of Paradise Valley  
Planning Department  
Attn.: George Burton  
6401 East Lincoln Drive  
Paradise Valley, Arizona 85253

Subject: Hillside Restoration  
**Lot 37 Turquoise Hills**  
8229 North 54<sup>th</sup> Street  
Paradise Valley, Arizona 85253  
TDE Job #16-003

Dear Mr. Burton:

Terra Dynamic Engineering is providing plans for an addition of roof mounted solar panels, spa, air-condition screen wall, drainage swale and site restoration for the People's Residence. Due to the offsite drainage issues (see drainage report), which effect the eastern portion of the house. The client installed a drainage swale with rip-rap on that portion of the site. However, the rip-rap encompassed a large disturbance area. The proposed restoration plan will properly adjust the size of the drainage swale, rip-rap, and provide additional native plant to reduce erosion. A drainage trench near the southeast corner of the lot was installed in the 1990's to intercept offsite drainage and debris flow and route it to an existing wash. This drainage trench needs to remain and periodically have the debris removed.

In addition, the client is updated the proposed 35 solar panels on the existing roof. The solar panel array/layout was modified since last proposal to accommodate new equipment and screening. The new solar panel will be screened with a metal screen painted to match existing roof trim. The frame/screen will be offset from the solar panels and will be raised equal to the highest portion of the panels.

Please feel free to call us at (602) 482-1603 if you have any questions or comments, or wish to discuss or revise the scope of our services.

Sincerely,

**TERRA DYNAMIC ENGINEERING, LLC.**

Roberto Orlando, P.E.