

December 12, 2024



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**Meritage Homes**  
2722 West Bitters Road  
Suite 200  
San Antonio, Texas 78248

Attention: Ms. Tonda Alexander

Re: **Supplemental Pavement Design Recommendations**  
Stoepler Tract  
Northwest Corner of Weil Road and Marion Road  
Santa Clara, Guadalupe County, Texas  
**Terradyne Project No.: A241069-S1**

Dear Ms. Alexander:

As requested, Terradyne Engineering, Inc. (Terradyne) has reviewed our revised geotechnical report for the above referenced project (Terradyne Report No. A241069-R1) dated May 29, 2029. Based on conversations with Mr. Theodore Duano, Assistant Project Manager for Cude Engineers, Terradyne understands that a portion of the proposed roadways will have a shallow culvert crossing below the pavement leaving a maximum of eight (8) inches for total pavement thickness. This letter contains an alternative pavement design for local streets utilizing asphalt treated base.

In order to reduce the overall pavement thickness, the use of asphalt treated base is planned and all design parameters are as presented in the revised Geotechnical Report. The culvert eliminates the need for lime stabilized subgrade. The following table provides the recommended pavement section.

**Table No. 1 – Local Streets - Design ESALS: 35,000**

<b>Flexible Pavement Section</b>	<b>Thickness in Inches</b>
Hot Mix Asphaltic Concrete	2.0
Asphalt Treated Base, Type B	5.0

*Stoepler Tract – Santa Clara, Texas  
Terradyne Project No.: A241069-S1  
12/12/2024*

It has been a pleasure to provide this information, and we look forward to serving you further on this project. If you have any questions pertaining to this report, or if we may be of further service please contact our office.

Sincerely,  
Terradyne Engineering, Inc.  
*Texas Firm Registration No. F-6799*



Derek Stout, P.E.  
*Vice President of Engineering*



*12/11/2024*