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October 5, 2015  
Project No.12209-LVR

Subject: Addendum No.1 – Revised Specified Design Strength  
Aggregate Source Evaluation  
Preliminary Trial Batches Roller Compacted Concrete and Soil-Cement  
Preliminary Mix Proportions for RCC and Soil-Cement  
Amended July 25, 2015  
Skye Canyon Detention Basin  
Clark County, Nevada

Reference: Preliminary Geotechnical Evaluation Report, GeoTek Residential, LLC.,  
Project No. 12209-LVR, July 30, 2015, Amended August 21, 2015.

In accordance with the request of your design civil engineer Slater Hanifan Group, GeoTek Residential, LLC, (GeoTek) has reviewed the reference reports with respect to a revision of the high strength soil-cement specified design strength and offers the following addendum recommendations. The recommendations provided in the referenced report that are not superseded by the recommendations contained herein, will remain applicable to continued site development.

It is our understanding that the specified design strength for the high strength soil-cement (roller compacted concrete) has been increased from 1800 psi to 2000 psi.

To consistently achieve the specified design strength an over design factor of 20% was applied and the cementations material required was determined to achieve a required average strength of 2400 psi. For a required average strengths of 2400 psi, we recommend a cementitious material content of 11.5% be used for bidding purposes.

Plate No. 10 shows the relationship between compressive strength and cementitious material content for the trial batches and has been included for convenience. The required cementitious content can be determined by entering the required average strength on Plate 10 and then reading the required cementitious material content corresponding to that point on for 28-day compressive strength relationship line.

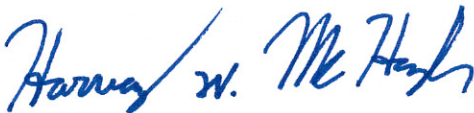
As discussed in the July 25, 2015 report, although the theoretical and laboratory test analysis indicated the maximum density would be achieved at 55% course aggregate 45% fine aggregate blend, and should thereby be the optimum strength blend, other blends may be used and may prove to provide better cementitious material to strength relationships. Mix proportioning analysis using production materials should investigate a variety blends to determine the optimum blend with respect to the strength to cementitious material content relationship and other considerations, such as aggregate processing efficiency and economy.

Services were provided according to generally accepted practices that exist in the Las Vegas area at this time. As you are aware, materials investigation, testing, and pre-construction evaluations are a technique employed to reduce the risk of problems arising during construction. This work requires interpolation between investigation exploration locations and assumptions as described above that require verification during construction. If conditions encountered during construction are found to differ from the conditions described herein, GeoTek should be contacted immediately. Based upon the actual conditions encountered during construction GeoTek may change the recommendations presented in this report.

Providing these services is not insurance, nor does it constitute a warranty or guarantee of any type. Even with diligent pre-construction investigations, testing, and analysis some differing or unforeseen conditions may exist. This investigation was provided for the benefit of the Owner in the design of their project and not for the contractor or prospective bidders in the development of their bids or their construction plans or costs. In all cases, the construction contractor shall retain full responsibility for performance of their own investigation and for any evaluation or interpretation of the data from their own investigation or contained herein.

Thank-you for the opportunity to provide these services. If you have any questions or require any clarifications or additional services, please contact us.

Respectfully submitted,  
GeoTek, Inc.



Harvey W. McHugh, E.I.  
Staff Professional

Attachments: Plate Nos.10



William W. Taylor, P.E.  
Branch Manager