SHANNON & WILSON
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

February 3, 2025

Mr. Maxim Dolchok, MBA
Southcentral Foundation
4501 Diplomacy Drive
Anchorage, Alaska 99508

RE: PRELIMINARY GEOTECHNICAL SUMMARY, SOUTHCENTRAL FOUNDATION QUYANA CLUBHOUSE, ANCHORAGE, ALASKA

Dear Mr. Dolchok:

Per your request, we have prepared this summary to describe geotechnical work that is currently be conducted for the above-referenced project. We understand that this summary will be attached to a construction manager/general contractor (CM/GC) request for proposal (RFP) that will be issued prior to the completion of our geotechnical report. As such, the purpose of this summary is to describe the geotechnical efforts that have been conducted for this project to date, as well as describe the work that is currently underway. This summary is provided for informational purposes only and will be superseded by the information that will be included with our eventual geotechnical report for the project.

In December 2024, we advanced three geotechnical borings on the site. The borings encountered approximately 45 feet of sand and gravel. Interbedded sand and clay soils were encountered between approximately 45 feet and 75 feet below the ground surface (bgs). Below this depth, our explorations encountered clay soils to the maximum depth of explorations. Groundwater depths varied between approximately 35 and 40 feet bgs during drilling and in piezometers approximately one week after drilling. Geotechnical laboratory testing of samples recovered during drilling is underway.

The project is located within an area that is mapped as having a High Ground Failure Susceptibility (Zone 4) by the MOA and is adjacent to two historical slide features that occurred during the 1964 Great Alaska Earthquake. Per MOA requirements, we are evaluating the slope stability of the site considering the results of our explorations and the current proposed building location. If the existing slope stability does not meet the pseudostatic requirements established by MOA code, we will perform displacement

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analyses (using a Newmark Method-based approach) to estimate potential ground displacements in the event of a design-level earthquake. The results of these analyses will be used to develop geotechnical engineering recommendations for the proposed improvements.

Upon completion of our analyses, we will author a geotechnical engineering report that will present the results of our studies. The report will include a description of our explorations and laboratory testing methods and results and an interpretation of the site conditions. The report will also include a description of the results of our seismic and slope stability and displacement (if needed) analyses. The report will include geotechnical design recommendations for shallow building foundations allowable bearing pressures, estimated settlements, floor slab support, lateral earth pressures, seismic design, un-shored excavations, utility trench construction, drainage, pavement design, backfill and compaction, and suitability of local materials for salvage as borrow.

We look forward to working with you on this project and appreciate the opportunity to be of service to you.

Sincerely,

SHANNON & WILSON

Kyle Brennan, PE

Digitally signed by Kyle Brennan, PE
Date: 2025.02.03 17:43:37 -09'00'

Kyle Brennan, PE
Vice President