STATEMENT OF WORK

1. **Objective/Requirements**
   Tier 2 seismic engineering analysis, per ASCE 41, to confirm whether the *potential* deficiencies identified in ASCE Tier 1 study (already completed) are, in fact, *actual* deficiencies. In this analysis, Tier 1 areas of concern are shown to either (a) be a deficiency that warrants retrofit, or (b) not to be a deficiency where no retrofit is warranted or needed. Risks are quantified, with collapse probability, and percentage of occupants able to safely exit under "medium and large earthquake conditions."

2. **Characteristics, Scope, and Specs**
   The contractor shall perform the following duties:
   - Perform a detailed ASCE 41 Tier 2 engineering analysis using the potential deficiencies identified in the previously-completed ASCE 41 Tier 1 seismic evaluation report (completed outside the scope of this SOW).
   - Confirm which potential deficiencies identified in our Tier 1 screening assessment are actual deficiencies that should be mitigated.
     - Include analysis to quantify the deficiencies in preparation for a seismic retrofit design, to be performed during the Tier 3 phase (outside the scope of this SOW).
   - Develop preliminary retrofit concepts based on desired seismic performance, construction impacts on building operations, budget, and schedule.
   - Contribute to follow-up discussions to facilitate the next steps toward a potential future retrofit (Tier 3) evaluation report, if one is deemed necessary.

3. **Place of Performance**
   NASA ARC (Building N239)

4. **Period of Performance**
   Performance expected 8/17/2026 to 12/31/2026.