



KGA Architecture
9075 W. Diablo Drive
Las Vegas, NV 89148

Attention: Mr. Lee Norsworthy, Partner, Director of Architecture

Subject: Addendum 1 – Updated Seismic Design Criteria
 (SPWD Project No.: 23-PO6) for the Southern Nevada Forensic Facility, (Health and Human Services Campus on West Charleston Blvd, Las Vegas, NV

Reference: *Geotechnical Evaluation for State of Nevada Public Works Division*
 (SPWD Project No.: 23-PO6) for the Southern Nevada Forensic Facility, (Health and Human Services Campus on West Charleston Blvd, Las Vegas, NV
 Arroyo Engineering Consultants, Inc., August 19, 2025, 68-105023

Dear Mr. Norsworthy,

Arroyo Engineering Consultants, Inc. (AEC), has prepared the following Geotechnical Addendum for the subject project. This addendum provides the Seismic Design Criteria using ASCE 7-22 and the Site Class C. The following recommendations supersede the ones in the report; however the remaining recommendations remain applicable to this project.

2024 IBC Seismic Design Criteria

Approximate Site Location: Latitude 36.15536, Longitude -115.22682			
Site Class: C (See REMI Survey in Appendix C),			
Mapped Spectral Acceleration Values			
	0.2 sec	S _s = 0.55 (g)	
	1.0 sec	S ₁ = 0.17 (g)	
Spectral Response Accelerations			
	0.2 sec	S _M s = 0.59 (g)	[1.5 X S _D s]
	1.0 sec	S _M 1 = 0.25 (g)	[1.5 X S _D 1]
Design Spectral Response Accelerations			
	0.2 sec	S _D s = 0.4 (g)	
	1.0 sec	S _D 1 = 0.16 (g)	
Seismic Accelerations from ASCE 7-22, Site Location estimated from Google Earth			

Closure;

The professional opinions expressed in this report meet the standard of care of our profession. AEC assumes no responsibility or liability for work, testing or recommendations performed by others.

If unexpected conditions are observed during construction or in the event that any changes of the proposed structures are planned, we should be notified to review the recommendations contained in this report. Construction of foundations and placement and compaction of fill should be observed by a representative of our firm.

AEC appreciates the opportunity to be of service, if there are any questions regarding the recommendations in this report, please contact the undersigned at (702) 241-5339.

Respectfully Submitted:



Aaron C. Hastings, P.E.
Arroyo Engineering Consultants, Inc.