Campus: UCLA Building Name: Vending Machine Buildings - ATM CAAN ID: 4518 Auxiliary Building ID: 4518.1



Date: Apr 16, 2021

#### FORM 1

CERTIFICATE OF SEISMIC PERFORMANCE LEVEL

UC-Designed & Constructed Facility

Campus-Acquired or Leased Facility

#### **BUILDING DATA**

Building Name: Vending Machine Buildings - ATM Address: 445 Charles E Young Dr E Los Angeles, CA 90095 Site location coordinates: Latitude 34.0707483 Longitudinal -118.4401261

#### UCOP SEISMIC PERFORMANCE LEVEL (OR "RATING"): IV

ASCE 41-17 Model Building Type:

- a. Longitudinal Direction: RM1 (reinforced masonry wall with flexible diaphragm)
- b. Transverse Direction: RM1 (reinforced masonry wall with flexible diaphragm)

Gross Square Footage: 88 Number of stories *above* grade: 1 Number of basement stories *below* grade: 0

Year Original Building was Constructed: 1998 Original Building Design Code & Year: UBC-1988 Retrofit Building Design Code & Code (if applicable): N/A

#### SITE INFORMATION

Site Class: D	Basis:	Inferred
Geologic Hazards:		
Fault Rupture: No	Basis:	CGS Earthquake Hazards Zone Application
Liquefaction: Yes	Basis:	CGS Earthquake Hazards Zone Application
Landslide: No	Basis:	CGS Earthquake Hazards Zone Application

## ATTACHMENT

Original Structural Drawings: (N/A, N/A, N/A, N/A) or Seismic Evaluation: (ATM Building Seismic Evaluation Tier 1, KPFF, 4/16/2021, FEMA 154 Rapid Visual Screening) Retrofit Structural Drawings: (N/A, N/A, N/A, N/A)



Date: Apr 16, 2021

#### **CERTIFICATION & PRESUMPTIVE RATING VERIFICATION STATEMENT**

I, Mark Hershberg, a California-licensed structural engineer, am responsible for the completion of this certificate, and I have no ownership interest in the property identified above. My scope of review to support the completion of this certificate included both of the following ("No" responses must include an explanation):

- a) the review of structural drawings indicating that they are as-built or record drawings, or that they otherwise are the basis for the construction of the building: ☑ Yes □ No
- b) visiting the building to verify the observable existing conditions are reasonably consistent with those shown on the structural drawings: ☑ Yes □ No

Based on my review, I have verified that the UCOP Seismic Performance Level (SPL) is presumptively permitted by the following UC Seismic Program Guidebook provision (choose one of the following):

□ 1) Contract documents indicate that the original design and construction of the aforementioned building is in accordance with the benchmark design code year (or later) building code seismic design provisions for UBC or IBC listed in Table 1 below.

☑ 2) The existing SPL rating is based on an acceptable basis of seismic evaluation completed in 2006 or later.

□ 3) Contract documents indicate that a comprehensive<sup>1</sup> building seismic retrofit design was fullyconstructed with an engineered design based on the 1997 UBC/1998 *or later* CBC, and (choose one of the following):

□ the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1E (or BSE-R) and BSE-2E (or BSE-C) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 CBC *or later* for EXISTING buildings, and is presumptively assigned an SPL rating of IV.

□ the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1 (or BSE-1N) and BSE-2 (or BSE-2N) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 *or later* CBC for NEW buildings, and is presumptively assigned an SPL rating of III.

□ the retrofit project was not completed by the UC campus following UC policies, and is presumptively assigned an SPL rating of IV.

<sup>&</sup>lt;sup>1</sup> A comprehensive retrofit addresses the entire building structural system as indicated by the associated seismic evaluation, as opposed to addressing selective portions of the structural system.

Campus: UCLA Building Name: Vending Machine Buildings - ATM CAAN ID: 4518 Auxiliary Building ID: 4518.1 **CERTIFICATION SIGNATURE** 



Date: Apr 16, 2021

		AFFIX SEAL HERE
Mark Hershberg	Principal	
Print Name	Title	OFFSSIO
\$5078	6/30/2021	Stop A. HERS
CA Professional Registration No.	License Expiration Date	「 よう 日本 「 い い い い い い い い い い い い い
	4/16/2021	N or
Signature U	Date	FRUCTUR
KPFF Inc., (213) 418-0201, 700 S. Flowe	er St., Suite 2100, Los	OF CALI



Angeles, CA 90017

Firm Name, Phone Number, and Address



Date: Apr 16, 2021

#### Table 1: Benchmark Building Codes and Standards

	Building Seismic Design Provisions					
Building Type <sup><i>a,b</i></sup>	UBC	IBC				
Wood frame, wood shear panels (Types W1 and W2)	1976	2000				
Wood frame, wood shear panels (Type W1a)	1976	2000				
Steel moment-resisting frame (Types S1 and S1a)	1997	2000				
Steel concentrically braced frame (Types S2 and S2a)	1997	2000				
Steel eccentrically braced frame (Types S2 and S2a)	1988 <sup>g</sup>	2000				
Buckling-restrained braced frame (Types S2 and S2a)	f	2006				
Metal building frames (Type S3)	f	2000				
Steel frame with concrete shear walls (Type S4)	1994	2000				
Steel frame with URM infill (Types S5 and S5a)	f	2000				
Steel plate shear wall (Type S6)	f	2006				
Cold-formed steel light-frame construction—shear wall system (Type CFS1)	1997 <sup>h</sup>	2000				
Cold-formed steel light-frame construction—strap-braced wall system (Type CFS2)	f	2003				
Reinforced concrete moment-resisting frame (Type C1) <sup>i</sup>	1994	2000				
Reinforced concrete shear walls (Types C2 and C2a)	1994	2000				
Concrete frame with URM infill (Types C3 and C3a)	f	f				
Tilt-up concrete (Types PC1 and PC1a)	1997	2000				
Precast concrete frame (Types PC2 and PC2a)	f	2000				
Reinforced masonry (Type RM1)	1997	2000				
Reinforced masonry (Type RM2)	1994	2000				
Unreinforced masonry (Type URM)	f	f				
Unreinforced masonry (Type URMa)	f	f				
Seismic isolation or passive dissipation	1991	2000				

Note: This table has been adapted from ASCE 41-17 Table 3-2. Benchmark Building Codes and Standards for Life Safety Structural Performed at BSE-1E. Note: UBC = Uniform Building Code. IBC = International Building Code.

<sup>a</sup> Building type refers to one of the common building types defined in Table 3-1 of ASCE 41-17.

<sup>b</sup> Buildings on hillside sites shall not be considered Benchmark Buildings.

<sup>c</sup> not used

<sup>d</sup> not used

<sup>e</sup> not used

<sup>f</sup> No benchmark year; buildings shall be evaluated in accordance with Section III.J.

<sup>g</sup> Steel eccentrically braced frames with links adjacent to columns shall comply with the 1994 UBC Emergency Provisions, published September/October 1994, or subsequent requirements.

 $^{\it h}$  Cold-formed steel shear walls with wood structural panels only.

<sup>i</sup> Flat slab concrete moment frames shall not be considered Benchmark Buildings.



UCLA – Vending Machine Building - ATM

DATE: 4/16/2021 FEMA 154 Rapid Visual Screening Minimum Building Report Information

## **BUILDING DATA**

Campus: UCLA Building Name: Vending Machine Buildings - ATM CAAN ID: 4518 Auxiliary Building ID: 4518.1 Address: 445 Charles E Young Dr E Los Angeles, CA 90095 Site location coordinates: Latitude 34.0707483 Longitudinal -118.4401261





# ASCE 41-17 Model Building Type:

- a. Longitudinal Direction: RM1 (reinforced masonry wall with flexible diaphragm)
- b. Transverse Direction: RM1 (reinforced masonry wall with flexible diaphragm)

## Site-specific Ground Motion Study? No

Seismic Design Acceleration Parameters of Interest:

- a. For BSE-1E S<sub>XS</sub>=0.898g and S<sub>X1</sub>=0.517g
- b. For BSE-2E  $S_{XS}$ =1.544g and  $S_{X1}$ =0.949g

## Estimated Fundamental Period (seconds)

- a. Longitudinal: Unknown
- b. Transverse: Unknown

Gross Square Footage: 88 Number of stories *above* grade: 1 Number of basement stories below grade: 0

Year Original Building was Constructed: 1998 Original Building Design Code & Year: UBC-1988 Retrofit Building Design Code & Code (if applicable): N/A

## SITE INFORMATION

Site Class: D	Basis: Inferred
Geologic Hazards:	
Fault Rupture: No	Basis: CGS Earthquake Hazards Zone Application
Liquefaction: Yes	Basis: CGS Earthquake Hazards Zone Application
Landslide: No	Basis: CGS Earthquake Hazards Zone Application

# UCOP SEISMIC PERFORMANCE RATING (OR "RATING"): IV

## "BALLPARK" RETROFIT COST (if applicable)

- Minor (<\$50/sf)
- □ Moderate (~\$50-\$200/sf)
- □ Major (>\$200/sf)

# SUMMARY TIER 1 SEISMIC EVALUATION STRUCTURAL NON-COMPLIANCES/FINDINGS SIGNIFICANTLY AFFECTING RATING DETERMINATION

Significant Structural Deficiencies, Potentially Affecting Seismic Performance Level Designation:

- Lateral System Stress Check (wall shear, column shear or flexure, or brace axial as applicable)
- Lateral System Detailing (reinforcement ratio, confinement, aspect ratio, etc)
- Load Path
- **Adjacent Buildings**
- Weak Story
- Soft Story
- Geometry (vertical irregularities)
- Torsion
- Mass – Vertical Irregularity
- **Cripple Walls**
- Wood Sills (bolting)
- **Diaphragm Continuity**
- Openings at Shear Walls (concrete or masonry)

Vending Machine Building – ATM – CAAN# 4518 UCLA Seismic Tier 1 Evaluation – Minimum Building Report Information

- $\boxtimes$ Liquefaction
- Slope Failure
- Surface Fault Rupture
- Masonry or Concrete Wall Anchorage at Diaphragm
- URM wall height to thickness ratio
- **URM** Parapets or Cornices
- **URM Chimney**
- Heavy Partitions Braced by Ceilings
- Appendages

# POTENTIAL FALLING HAZARDS

- Heavy ceilings, features or ornamentation above large lecture halls, auditoriums, lobbies or other areas where large numbers of people congregate.
- Heavy masonry or stone veneer above exit ways.
- Unbraced masonry parapets, cornices or other ornamentation above exit ways.
- Unrestrained hazardous materials storage.
- Masonry chimneys.
- Unrestrained natural gas-fueled equipment such as water heaters, boilers, emergency generators, etc.
- $\boxtimes$ None of the above.

# **BRIEF DESCRIPTION OF ANTICIPATED FAILURE MECHANISM**

# COMMENTS AND RECOMMENDATIONS

A FEMA Level 2 evaluation was performed instead of an ASCE Tier 1 evaluation since the building has a square footage less than one thousand square feet.

# Appendices

A. FEMA 154 Rapid Visual Screening

# **Rapid Visual Screening of Buildings for Potential Seismic Hazards** FEMA P-154 Data Collection Form

Level 1 VERY HIGH Seismicity

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FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	<b>S1</b> (MRF)	<b>S2</b> (BR)	<b>S3</b> (LM)	S4	S5	C1	C2	C3	PC1	PC2	DM4			MH
	i uion					(=)	(=)	(RC			(SW)	(URM	(TU)		(FD)	<b>RM2</b> (RD)	URM	
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Basic Score Severe Vertical Irregularity, V <sub>L1</sub>		<b>2.1</b> -0.9	<b>1.9</b> -0.9	<b>1.8</b> -0.9	<b>1.5</b> -0.8	<b>1.4</b> -0.7	<b>1.6</b> -0.8		(URM		(SW) 1.2 -0.8		(TU) <b>1.1</b> -0.7	<b>1.0</b> -0.7			URM 0.9 -0.6	1.1 NA
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$		-0.9 -0.6	-0.9 -0.5	-0.9 -0.5	-0.8 -0.4	-0.7 -0.4	-0.8 -0.5	\$W) <b>1.4</b> -0.7 -0.4	(URM INF) <b>1.2</b> -0.7 -0.3	(MRF) <b>1.0</b> -0.7 -0.4	<b>1.2</b> -0.8 -0.4	INF) <b>0.9</b> -0.6 -0.3	<b>1.1</b> -0.7 -0.4	-0.7 -0.4	(FD) <b>1.1</b> -0.7 -0.4	(RD) <b>1.1</b> -0.7 -0.4	<b>0.9</b> -0.6 -0.3	NA NA
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$		-0.9 -0.6 -0.7	-0.9 -0.5 -0.7	-0.9 -0.5 -0.6	-0.8 -0.4 -0.5	-0.7 -0.4 -0.5	-0.8 -0.5 -0.6	\$W) <b>1.4</b> -0.7 -0.4 -0.4	(URM INF) <b>1.2</b> -0.7 -0.3 -0.4	(MRF) <b>1.0</b> -0.7 -0.4 -0.4	<b>1.2</b> -0.8 -0.4 -0.5	INF) <b>0.9</b> -0.6 -0.3 -0.3	<b>1.1</b> -0.7 -0.4 -0.5	-0.7 -0.4 -0.4	(FD) <b>1.1</b> -0.7 -0.4 -0.4	(RD) <b>1.1</b> -0.7 -0.4 -0.4	<b>0.9</b> -0.6 -0.3 -0.3	NA NA NA
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code		-0.9 -0.6 -0.7 -0.3	-0.9 -0.5 -0.7 -0.3	-0.9 -0.5 -0.6 -0.3	-0.8 -0.4 -0.5 -0.3	-0.7 -0.4 -0.5 -0.2	-0.8 -0.5 -0.6 -0.3	ŚW) <b>1.4</b> -0.7 -0.4 -0.4 -0.2	(URM INF) <b>1.2</b> -0.7 -0.3 -0.4 -0.1	(MRF) <b>1.0</b> -0.7 -0.4 -0.4 -0.1	<b>1.2</b> -0.8 -0.4 -0.5 -0.2	INF) 0.9 -0.6 -0.3 -0.3 0.0	<b>1.1</b> -0.7 -0.4 -0.5 -0.2	-0.7 -0.4 -0.4 -0.1	(FD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2	(RD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2	<b>0.9</b> -0.6 -0.3 -0.3 0.0	NA NA NA 0.0
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark		-0.9 -0.6 -0.7	-0.9 -0.5 -0.7	-0.9 -0.5 -0.6	-0.8 -0.4 -0.5	-0.7 -0.4 -0.5	-0.8 -0.5 -0.6	\$W) <b>1.4</b> -0.7 -0.4 -0.4	(URM INF) <b>1.2</b> -0.7 -0.3 -0.4	(MRF) <b>1.0</b> -0.7 -0.4 -0.4	<b>1.2</b> -0.8 -0.4 -0.5	INF) <b>0.9</b> -0.6 -0.3 -0.3	<b>1.1</b> -0.7 -0.4 -0.5	-0.7 -0.4 -0.4	(FD) <b>1.1</b> -0.7 -0.4 -0.4	(RD) <b>1.1</b> -0.7 -0.4 -0.4	<b>0.9</b> -0.6 -0.3 -0.3	NA NA NA
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code		-0.9 -0.6 -0.7 -0.3 1.9	-0.9 -0.5 -0.7 -0.3 1.9	-0.9 -0.5 -0.6 -0.3 2.0	-0.8 -0.4 -0.5 -0.3 1.0	-0.7 -0.4 -0.5 -0.2 1.1	-0.8 -0.5 -0.6 -0.3 1.1	\$W) <b>1.4</b> -0.7 -0.4 -0.4 -0.2 1.5	(URM INF) -0.7 -0.3 -0.4 -0.1 NA	(MRF) <b>1.0</b> -0.7 -0.4 -0.4 -0.1 1.4	<b>1.2</b> -0.8 -0.4 -0.5 -0.2 1.7	INF) 0.9 -0.6 -0.3 -0.3 0.0 NA	<b>1.1</b> -0.7 -0.4 -0.5 -0.2 1.5	-0.7 -0.4 -0.4 -0.1 1.7	(FD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2 1.6	(RD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2 1.6	0.9 -0.6 -0.3 -0.3 0.0 NA	NA NA 0.0 0.5
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories)		-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA	\$W) <b>1.4</b> -0.7 -0.4 -0.2 1.5 0.3 -0.2 -0.3	(URM INF) <b>1.2</b> -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	(MRF) <b>1.0</b> -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1	<b>1.2</b> -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3	NF) 0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1	<b>1.1</b> -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1	(FD) -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2	(RD) <b>1.1</b> -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, <i>Smin</i>		-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2	\$W) <b>1.4</b> -0.7 -0.4 -0.2 1.5 0.3 -0.2	(URM INF) -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1	(MRF) <b>1.0</b> -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1	<b>1.2</b> -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2	INF)           0.9           -0.6           -0.3           0.0           NA           0.1           0.0	<b>1.1</b> -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1	(FD) -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2	(RD) <b>1.1</b> -0.7 -0.4 -0.2 1.6 0.3 -0.2	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0	NA NA 0.0 0.5 0.1 -0.1
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories)	≥ S <sub>MIN</sub> :	-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA	\$W) <b>1.4</b> -0.7 -0.4 -0.2 1.5 0.3 -0.2 -0.3	(URM INF) <b>1.2</b> -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	(MRF) <b>1.0</b> -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1	<b>1.2</b> -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3	NF) 0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1	<b>1.1</b> -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1	(FD) -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2	(RD) <b>1.1</b> -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, <i>Smin</i>	≥ S <sub>MIN</sub> :	-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5	\$W) <b>1.4</b> -0.7 -0.4 -0.2 1.5 0.3 -0.2 -0.3	(URM INF) <b>1.2</b> -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	(MRF) <b>1.0</b> -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	<b>1.2</b> -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3	NF) 0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3	<b>1.1</b> -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA 0.2	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1	(FD) -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2	(RD) <b>1.1</b> -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA 1.0
Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, S <sub>MIN</sub> <b>FINAL LEVEL 1 SCORE, S<sub>L1</sub></b> <b>EXTENT OF REVIEW</b> <b>EXTENT OF REVIEW</b> <b>Exterior:</b> Partial		-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 OTHEF Are There	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 <b>R HAZZA</b> e Hazards	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 ARDS 5 That T	\$W) 1.4 -0.7 -0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	(URM INF) <b>1.2</b> -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	(MRF) 1.0 -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT	<b>1.2</b> -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3	INF) 0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 EQUIF	1.1           -0.7           -0.4           -0.5           -0.2           1.5           0.3           -0.2           NA           0.2	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2	(FD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3	(RD) <b>1.1</b> -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA 1.0
Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (-3 stories) Minimum Score, S <sub>MIN</sub> FINAL LEVEL 1 SCORE, S <sub>L1</sub> EXTENT OF REVIEW Exterior: Interior: None		-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 OTHEF Are Ther Detailed	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 R HAZA e Hazards Structura	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 ARDS S That T I Evalue	św)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	(MRF) 1.0 -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT Detaila Ye	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 0.3	INF)           0.9           -0.6           -0.3           0.0           NA           0.1           0.0           -0.1           0.3	1.1 -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA 0.2 RED aluation	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2 Require	(FD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3	(RD) <b>1.1</b> -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA 1.0
Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, S <sub>MIN</sub> FINAL LEVEL 1 SCORE, S <sub>L1</sub> EXTENT OF REVIEW Exterior: Partial Interior: None Drawings Reviewed: Yes		-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 OTHEF Are There Detailed	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 R HAZA e Hazards Structura ding poter	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 <b>ARDS</b> <b>S That T</b> I Evaluential (un	św)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	(MRF) 1.0 -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT Detaile □ Ye □ Ye	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ION RI ed Struct as, unkno as, score	NF) 0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 EQUIF tural Ev wyn FEM less tha	1.1 -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA 0.2 RED aluation IA buildir n cut-off	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2 <b>Require</b> ng type o	(FD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ed?	(RD) <b>1.1</b> -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA 1.0
Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (-3 stories) Minimum Score, S <sub>MIN</sub> FINAL LEVEL 1 SCORE, S <sub>L1</sub> EXTENT OF REVIEW Exterior: Interior: None		-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 NII Sides Visible	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 OTHEF Are There Detailed Detailed Detailed	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 <b>R HAZ/A</b> e Hazards Structura ding poten ff, if know	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 <b>XRDS</b> <b>S That T</b> I Evalua I Evalua ntial (un n)	św)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 -0.1 -0.1 -0.1 -0.5	(MRF) 1.0 -0.7 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT Detaile □ Ye □ Ye □ Ye	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 <b>ION RI</b> ed Struct es, unkno es, score es, other	NF) 0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 EQUIF tural Ev wyn FEM less tha	1.1 -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA 0.2 RED aluation IA buildir n cut-off	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2 <b>Require</b> ng type o	(FD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ed?	(RD) <b>1.1</b> -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA 1.0
Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL11         EXTENT OF REVIEW         Exterior:       □ Partial         Interior:       □ None         Drawings Reviewed:       □ Yes         Soil Type Source:       ■		-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 NII Sides Visible	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 OTHEF Are There Detailed Detailed Detailed Detailed Detailed	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 <b>R HAZZA</b> e Hazards Structura ding poten ff, if known g hazards ng	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 <b>ARDS</b> <b>That T</b> <b>I Evalue</b> httial (un n) s from ta	sw)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	(MRF) 1.0 -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT Detaila □ Ye □ Ye □ Ye □ Ye □ Ye	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ION RI ed Struct as, unkno as, score as, other	INF)           0.9           -0.6           -0.3           0.0           NA           0.1           0.0           -0.1           0.3	1.1 -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA 0.2 RED aluation IA buildir n cut-off present	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2	(FD) <b>1.1</b> -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ed?	(RD) 1.1 -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ilding	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, $S_{L1}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source: CGS         Contact Person:       CGS	S Earthq	-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 All Sides /isible lo	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 OTHEF Are There Detailed Detailed Detailed Detailed Detailed Detailed	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 <b>R HAZZA</b> <b>e Hazards</b> <b>Structura</b> ding potent ff, if known g hazards ng pogic hazar	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 <b>ARDS</b> <b>That T</b> <b>I Evalue</b> nhtial (un n) s from ta	św)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5 Cent F	(MRF) 1.0 -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT Detaild □ Ye □ Ye □ Ye □ Ye	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ION RI ed Struct es, unkno es, score es, other o ed Nonste es, nonstr	INF)           0.9           -0.6           -0.3           0.0           NA           0.1           0.0           -0.1           0.3	1.1           -0.7           -0.4           -0.5           -0.2           1.5           0.3           -0.2           NA           0.2 <b>RED</b> aluation IA building n cut-off present I Evaluation I Evaluation	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2 Require ag type o	(FD) (FD) (11) -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ed? or other but commence d that show	(RD) 1.1 -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ilding	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0 1.1
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, $S_{L1}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source: CGS         Contact Person:       LEVEL 2 SCREENING F	S Earthq	-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 All Sides /isible lo	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 OTHEF Are There Detailed Detailed Detailed Signi	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 <b>R HAZZA</b> e Hazards Structura ding poten ff, if known g hazards ng	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 <b>XRDS</b> <b>That T</b> <b>I Evalue</b> ntial (un n) s from ta	św)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5 Cent F	(MRF) 1.0 -0.7 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT Detaild □ Ye □ Ye □ Ye □ Ye □ No	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ION RI ed Struc: as, unkno as, score as, other by de Nonstructory,	INF)           0.9           -0.6           -0.3           0.0           NA           0.1           0.0           -0.1           0.3	1.1           -0.7           -0.4           -0.5           -0.2           1.5           0.3           -0.2           NA           0.2 <b>RED</b> aluation IA buildir n cut-off present I Evaluation hazards azards azards azards	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2 Require ag type o tion Rec identified exist that	(FD) 1.1 -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ed? or other but commend	(RD) 1.1 -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ilding	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0 1.1
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, $S_{L1}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source: CGS         Contact Person:       CGS	S Earthq	-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 All Sides /isible lo	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 OTHEF Are There Detailed Detailed Detailed Signi	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 <b>R HAZZA</b> <b>e Hazards</b> <b>Structura</b> ding poter ff, if known g hazards ng gic hazar ficant dam	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 <b>XRDS</b> <b>That T</b> <b>I Evalue</b> ntial (un n) s from ta	św)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5 Cent F	(MRF) 1.0 -0.7 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT Detaile □ Ye □ Ye □ Ye □ Ye □ Ye □ Ye □ Ye □ Ye	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ION RI ed Struct es, unkno es, score es, other o ed Nonste es, nonstr	INF)           0.9           -0.6           -0.3           -0.0           NA           0.1           0.0           -0.1           0.3	1.1           -0.7           -0.4           -0.5           -0.2           1.5           0.3           -0.2           NA           0.2 <b>RED</b> aluation th building the second s	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2 Require ng type o tion Rec identifiec exist that cessary	(FD) (FD) -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 -0.2 0.3 -0.2 0.3 -0.2 0.3 -0.2 0.3 -0.2 -0.2 0.3 -0.4 -0.4 -0.4 -0.4 -0.4 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.2 -0.3 -0.2 -0.3 -0.2 -0	(RD) 1.1 -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ilding	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0 1.1
Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL1         EXTENT OF REVIEW         Exterior:       □ Partial         Interior:       □ None         Drawings Reviewed:       □ Yes         Soil Type Source:       Geologic Hazards Source:       CG3         Contact Person:       □         LEVEL 2 SCREENING F       □         Yes, Final Level 2 Score, SL2       □	S Earthq PERFC 1.3 Yes	-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 Aeri Ente	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 -0.3 0.5 <b>OTHEF</b> Are There Detailed Poun cut-0 Poun cut-0 Signi the si	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 <b>R HAZA</b> e Hazarde Structura ding poten ff, if known g hazarde ng ogic hazard ficant dam ructural s	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 <b>ARDS</b> <b>S That T</b> <b>I Evalu</b> ntial (un n) s from ta ds or So hage/def ystem	św)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5 > cent F n to	(MRF) 1.0 -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3 ACT Detail □ Ye □ Ye □ Ye □ Ne 0 Ne	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ON RI ed Struct as, unkno as, score as, other b, nonstruct tailed evido, no non	INF) 0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 EQUIF tural Ev wn FEM less tha hazards tructural h aluation structura	1.1 -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA 0.2 RED aluation IA buildir n cut-off present I Evalua hazards azards e is not ne al hazard	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2 • Require ng type o tion Rec identified exist that cessary Is identifi	(FD) (FD) -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ed? or other but commend d that shoot may required	(RD) 1.1 -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ilding ilding ilding ild be ev ire mitiga ] DNK	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0 1.1
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, $S_{MIN}$ <b>FINAL LEVEL 1 SCORE,</b> $S_{L1}$ <b>EXTENT OF REVIEW</b> <b>Exterior:</b> Partial Interior: Partial Interior: Partial Interior: None Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: CGS Contact Person: <b>LEVEL 2 SCREENING F</b> Yes, Final Level 2 Score, $S_{L2}$ Nonstructural hazards?	S Earthq PERFO 1.3 Yes nation c. ment-resis	-0.9 -0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 All Sides /isible lo Quake H	-0.9 -0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 Aerii Ente azards A D? N R e verifie	-0.9 -0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 -0.4 -0.4 0.7	-0.8 -0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 -0.3 0.5 <b>OTHEF</b> Are There Detailed Poun cut-0 Poun cut-0 Signi the si	-0.7 -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 <b>R HAZZA</b> <b>e Hazards</b> <b>Structura</b> ding poter ff, if known g hazards ng ghazards ng gic hazar ficant dam tructural s	-0.8 -0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 <b>ARDS</b> <b>S That T</b> <b>I Evalu</b> ntial (un n) s from ta ds or S- nage/dei ystem	św)           1.4           -0.7           -0.4           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           1.5           0.3           -0.2           -0.3           0.5	(URM INF) 1.2 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5 -0.1 -0.1 0.5 -0.1 -0.1 -0.5 -0.1 -0.7 -0.3 -0.4 -0.7 -0.3 -0.4 -0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.5 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5	(MRF) 1.0 -0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 0.3 ACT Detaile Ve Ve Ve Detaile Ve Detaile Ve Detaile Me	1.2 -0.8 -0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ION RI ed Struct as, score as, other b, nonstructailed even b, no nostructailed even b, no nostructailed even b, no nostructailed even b, no non r unrelia	INF) 0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 EQUIF tural Ev wm FEM less tha hazards tructural h aluation structural ble data MH	1.1 -0.7 -0.4 -0.5 -0.2 1.5 0.3 -0.2 NA 0.2 RED aluation IA buildir n cut-off present I Evalua hazards azards e is not ne al hazard	-0.7 -0.4 -0.4 -0.1 1.7 0.2 -0.1 -0.1 0.2 • Require ng type o tion Rec identified exist that cessary Is identifi DNK = D ctured Ho	(FD) (FD) (1.1 -0.7 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ed? or other but commend d that shoot may required Do Not Kno busing FC	(RD) 1.1 -0.7 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 ilding ilding ilding ild be ev ire mitigation DNK ow D = Flexibl	0.9 -0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA <u>1.0</u> <b>1.1</b>

## Rapid Visual Screening of Buildings for Potential Seismic Hazards

# Level 2 (Optional)

FEMA P-154 Data Collection Form Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name: Vending Machine Building - ATM	Final Level 1 Score:	$S_{L1} = 1.1$	(do not consider $S_{MIN}$ )
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0$
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.1$	

		RS TO ADD TO ADJUSTED BA				Yes	Subtotals				
<b>Fopic</b> /ertical	1	If statement is true, circle the "Yes" mod	ory grade change from one side of the building to the	athar			Subiolais				
rregularity, $V_{L2}$	Sloping					-0.9					
regularity, $v_{L2}$	Site Non-W1 building: There is at least a full story grade change from one side of the building to the other.										
	Weak										
	and/or W1 house over garage: Underneath an occupied story, there is a garage opening without a steel moment frame, Soft Story and there is less than 8' of wall on the same line (for multiple occupied floors above, use 16' of wall minimum).										
	(circle one					-0.9					
	(circle one maximum)		openings at the ground story (such as for parking) ove	er at least	50% of the	-0.9					
	maximumj	length of the building.	/stem at any story is less than 50% of that at story ab		abt of any	-0.9					
		story is more than 2.0 times the heigh		ove of he	ight of any	-0.7					
			stem at any story is between 50% and 75% of that at	t stony oby	wo or boigh						
		of any story is between 1.3 and 2.0 til		l Slory abl	ove or neigr	-04					
	Setback		n at an upper story are outboard of those at the story	holow oo	uning the	-04					
	Selback	diaphragm to cantilever at the offset.	in at an upper story are outboard or those at the story	below cat	using the	-0.7					
			n at upper stories are inboard of those at lower stories			-0.7					
			al elements that is greater than the length of the elem			-0.4					
	Short		ast 20% of columns (or piers) along a column line in th		avetom hav						
	Column/		he nominal height/depth ratio at that level.		System nav	0.4					
	Pier		column depth (or pier width) is less than one half of th	a danth a	f the spand						
				e deptil o	i ille spallui	-0.4					
	Split Level	or there are infill walls or adjacent floors that shorten the column. t Level There is a split level at one of the floor levels or at the roof.									
	Other										
	Irregularity		e vertical irregularity that may affect the building's sei			e0.7 -0.4	V <sub>L2</sub> = <u>0</u> (Cap at -0				
lan		aularity: Lateral system does not appor	ar relatively well distributed in plan in either or both di	roctions	/Do not	1-0.4	(Cup ut -0.				
rregularity, PL2	include the l	W1A open front irregularity listed above.			(D0 1101	-0 <b>,</b> 6					
riogularity, 7 L2	Non-parallel	-0.2									
	Reentrant co	· 9.2									
	Diaphragm d	0.2									
	C1, C2 build	-0.2	$P_{L2} = 0$								
		1-0.5	(Cap at -0.)								
Redundancy		· · · · · · · · · · · · · · · · · · ·	irregularity that obviously affects the building's seismi ts on each side of the building in each direction.	c periorni		+0.2	(Cup ut -0.				
Pounding		eparated from an adjacent structure	The floors do not align vertically within 2 feet.		Cap total	-0.7					
ounding		1.5% of the height of the shorter of	One building is 2 or more stories taller than the oth		ounding	-0.7					
		and adjacent structure and:	The building is at the end of the block.		nodifiers at -						
2 Building		jeometry is visible.	The building is at the end of the block.	: "		-0.4					
1 Building		rves as the beam in the moment frame.				-0.7 -0.3					
C1/RM1 Bldg			from drawings that do not rely on cross-grain bending	(Do not	oombino wit						
		nark or retrofit modifier.)	norm drawings that do not rely on cross-grain bending	. (D0 1101		+0.2					
PC1/RM1 Bldg			valle (rather than an interior enace with few walls such	h as in a v	varobouso)	+0.2 +0.2					
JRM		The building has closely spaced, full height interior walls (rather than an interior space with few walls such as in a warehouse).       40.2         Gable walls are present.       -0.3									
/NN/			vided between the carriage and the ground.			+0.5					
Retrofit		sive seismic retrofit is visible or known fi				+1.2	M = +0.2				
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$				1	to Level 1 for				
here is observa	ble damage or	deterioration or another condition that r	negatively affects the building's seismic performance:	. □ Yes							
r yes, describe t	he condition in	the comment box below and indicate or	the Level 1 form that detailed evaluation is required	independ	ent of the bi	ulding's score					
	E NONETD										
DBSERVABL		UCTURAL HAZARDS Check "Yes" or "No")		Yes	No	Com	ment				

Location	Statement (Check "Yes" or "No")	Yes	No	Comment
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.			
	There is heavy cladding or heavy veneer.			
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.			
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.			
	There is a sign posted on the building that indicates hazardous materials are present.			
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.			
	Other observed exterior nonstructural falling hazard:		1	
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.		/	
	Other observed interior nonstructural falling hazard:		/	
Estimated Nor	nstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)			
	□ Potential nonstructural hazards with significant threat to occupant life safety →Detailed Nonstructu	ral Evalu	ation rec	ommended
	□ Nonstructural hazards identified with significant threat to occupant life safety →But no Detailed Nor	nstructura	al Evalua	ation required
	✓ Low or no nonstructural hazard threat to occupant life safety →No Detailed Nonstructural Evaluation	on require	ed	
P				

Comments: