Campus: UCSF Building Name: Osher Center CAAN ID: 2315 Auxiliary Building ID: NA



Date: 8/19/2019

FORM 1 CERTIFICATE OF SEISMIC PERFORMANCE LEVEL

OF

UNIVERSITY

CALIFORNIA

UC-Designed & Constructed Facility

Campus-Acquired or Leased Facility

BUILDING DATA Building Name: Osher Center Address: 1545 Divisadero Street Site location coordinates: Latitude 37.7842 Longitudinal -122.4399

UCOP SEISMIC PERFORMANCE LEVEL (OR "RATING"): III

ASCE 41-17 Model Building Type:

- a. Longitudinal Direction: S1: Steel Moment Frames
- b. Transverse Direction: S1: Steel Moment Frames

Gross Square Footage: 50,000 Number of stories *above* grade: 5 Number of basement stories *below* grade: 0

Year Original Building was Constructed: 2010 Original Building Design Code & Year: CBC- 2007 Retrofit Building Design Code & Code (if applicable): NA

SITE INFORMATION

Site Class: DBasis: (USGS Soil Type and Shaking Hazard in the San Francisco Bay Area, 8/19/2019, NA)Geologic Hazards:Fault Rupture: NoFault Rupture: NoBasis: UCSF Presumptive Buildings – Geotechnical Assessment, Egan (2019)Liquefaction: NoBasis: UCSF Presumptive Buildings – Geotechnical Assessment, Egan (2019)Landslide: NoBasis: UCSF Presumptive Buildings – Geotechnical Assessment, Egan (2019)

ATTACHMENT

Original Structural Drawings: (UCSF Mt. Zion The Osher Building, Simpson Gumpertz & Heger, 8/4/2008, S0.2) or Seismic Evaluation: NA Retrofit Structural Drawings: NA



CERTIFICATION & PRESUMPTIVE RATING VERIFICATION STATEMENT

I, Maryann T. Phipps, 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):

OF

UNIVERSITY

CALIFORNIA

- 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 comprehensive¹ 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.

¹ 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: UCSF Building Name: Osher Center CAAN ID: 2315 Auxiliary Building ID: NA



Date: 8/19/2019

CERTIFICATION SIGNATURE

Maryann T. Phipps Print Name

S2995

President Title

6/30/2020 License Expiration Date

OF

UNIVERSITY

CALIFORNIA

CA Professional Registration No. Signature

8/19/2019

Date

DROFESS No. 2995 EXP. 6/30/20 9/4/2019 Oŀ CA

AFFIX SEAL HERE

Estructure, (510) 235-3116, 1144 65th St Suite A, Oakland

Firm Name, Phone Number, and Address



UNIVERSITY OF CALIFORNIA

Table 1: Benchmark Building Codes and Standards

	Building Seismic	Design Provisions
Building Type ^{<i>a,b</i>}	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 ^g	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 ^{<i>h</i>}	2000
Cold-formed steel light-frame construction—strap-braced wall system (Type CFS2)	f	2003
Reinforced concrete moment-resisting frame (Type C1) [/]	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.

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

^b Buildings on hillside sites shall not be considered Benchmark Buildings.

° not used

^d not used

^e not used

^f No benchmark year; buildings shall be evaluated in accordance with Section III.J.

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

^h Cold-formed steel shear walls with wood structural panels only.

ⁱ Flat slab concrete moment frames shall not be considered Benchmark Buildings.

VERIFICATION AND INSPECTION TASK	Continuous	Periodic	Struct. Obs.	N.A.	NOTES	VERIFICATION AND INSPEC
TABLE 1704.2 - INSPECTION OF FABRIC						TABLE 1704.4 - CONCR
1704.2.1:- Inspect fabricators fabrication and quality control	_	_				 Inspection of reinforce including prestressing placement.
procedures. TABLE 1704.3 – STEEL CONSTRUCTION						2. Inspection of reinford welding in accordanc
 Material verification of high—strength bolts, nuts, and 						1704.3 Item 5b.
a. Identification markings to						 Inspect bolts to be i concrete prior to and placement of concret
conform to ASTM standards specified in the approved		х				allowable loads have increased.
construction documents.						 Verifying use of required mix.
b. Manufacturer's certificate of compliance required.		x				5. At time fresh concre to fabricate specime tests, perform slump
 Inspection of high-strength bolting: a. Bearing type connections 		X				content tests and de temperature of the c
b. Slip—critical connections3. Material verification of structural	X	X				formed. 6. Inspection of concret
a. Identification markings to						shotcrete placement application techniques
conform to ASTM standards specified in the approved construction documents.		-				7. Inspection for mainte specified curing temp
b. Manufacturer's mill test reports4. Material verification of weld filler						techniques. 8. Inspection of prestres
materials: a. Identification markings to						a. Application of pr forces.
conform to AWS designation listed in the WPS.	-	_				b. Grouting of bond prestressing tend
b. Manufacturer's certificate of compliance required.		_		 		seismic — force system.
5. Inspection of welding: a. Structural steel						members.
1. Complete and partial penetration groove welds.	x					10. Verification of in — strength, prior to str tendons in postensio
2. Multipass fillet welds.	X					and prior to removal and forms from bea structural slabs
 3. Single−pass fillet welds>⁵/₆" 4. Single−pass fillet welds<=⁵/₆" 	X	x				11. Inspect formwork for
5. Floor and roof deck welds.		X				location and dimension concrete member be
6. Welded studs when used for structural diaphragms.		x	<u> </u>			12. Refer to Tables 1705 TABLE 1704.7 - INSPE
7. Ďeformed bar anchors (DBA)		X		 		1. Verify materials below adequate to achieve
 Welded of cold – formed sheet steel framing members 		X				bearing capacity.
9. Welding of stairs and railing		x				 Verify excavations ar proper depth and ha proper material.
systems. b. Reinforcing steel						3. Perform classification of controlled fill mat
1. Verification of weldability of reinforcing steel other than				x		4. Verify use of proper
ASTM A 706 2. Reinforcing steel – resisting						densities and lift thic during placement and of controlled fill.
flexural and axial forces in intermediate and special moment frames, and						5. Prior to placement of fill, observe subgrade that site has been p
boundary elements of special reinforced concrete	X					properly.
shear walls, and shear reinforcement. 3. Shear reinforcement.	x					1705.4 - WIND RESISTA
4. Other reinforcing steel.6. Inspection of steel frame joint		X		<u> </u>		1705.4.1 The inspection Sections 1705.4.2 are re structures constructed in
details tors compliance with and approved in the details such as a second struction documents:		x	 			areas: 1. In wind Exposure Ca
b. Member locations.		X		<u> </u>		where the 3-second wind speed is 120 r
c. Application of joint details at each connection.		×		 		(mph) (52.8 m/s) c 2. In wind Exposure Ca
						where the 3-second wind speed is 110 r (mph) (49 m/s) or
						1. Roof cladding and re
						2. Wall connections to
						3. Roof and floor diaph
						including collectors, and boundary eleme
						4. Vertical wind force-r systems, including b
						moment frames and
						5. Wind force-resisting connections to the f
						 Fabrication and insta systems or compone to meet the impact
						requirements of Sec
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TASK	Continuous	Periodic	Struct.	N.A.	NOTES
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otings are desired		x			Performed by project Geotechnical Engineer
tended to eached		x			Performed by project Geotechnical Engineer
testing		x			Performed by project Geotechnical Engineer
erials, sses mpaction	x	x			Performed by project Geotechnical Engineer
ntrolled					Performed by project
d verify red		x			Geotechnical Engineer
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required stance 1609.1.2.				x	

	VERIFICATION AND INSPECTION TASK	Continuous Periodic	N.A.	NOTES	VERIFICATION AND INSPECTION TASK		Struct. Obs. N.A.	NOTES	 Additional detail regarding inspections and tests are provided in the project specifications or notes on the drawings. Column headers:
	1707.1:- Special inspections itemized in Sections 1707.2 through 1707.10,		MIC RESIS	STANCE	and access floors 8 feet or greater in height.				Periodic - Indicates items that require periodic inspection. Struct. Obs Indicates items that require structural observation. N.A Denotes a specific activity that does not apply to
	1. The seismic-force-resisting				1. Inspect erection and fastening of				
					than 5 psf.	X			X Is placed in the appropriate column to denote required actions.
					interior and exterior non-bearing walls weighing more than 15 psf.	x			
	electrical components in structures assigned to Seismic Design				interior and exterior veneer weighing more than 5 psf.				
	1707.2:- Special Inspection for	x							
	1707.3:- Structural wood.				- 1. Inspect anchorage of electrical				with the permit application, indicates the specific inspections and tests that are required, as well as the persons or firms responsible for this
	elements of the seismic-force-resisting system. Special inspections for Seismic		x		stand-by power systems. 2. Inspect anchorage of	×			2. All tests and inspections shall be performed by a certified Special Inspector from an independent testing agency who is employed by the
applie product strategy a constrate of the strategy a constrate of the strategy b constrate of the strategy constrate of the strategy constrate of the strategy constrate of the strategy </td <td>2. Inspect nailing, bolting, anchoring,</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>A. The Special Inspector shall observe the work assigned for</td>	2. Inspect nailing, bolting, anchoring,					X			A. The Special Inspector shall observe the work assigned for
	 within the seismic-force-resisting system, including: Wood shear walls, Wood diaphragms, 		x		systems and associated mechanic units carrying flammable, combustible, or highly toxic	x I			B. The Special Inspector shall furnish inspection reports to the building official, the Architect, Structural Engineer and other designated
	Shear panels,Hold-downs.				4. Inspect installation of HVAC ductwork that contains hazardous	x			
Side prove at other Side prove at other Side prove at other Side prove at other Side prove at other states of a state of a st	 Welding of elements of the seismic-force-resisting system. 		x		5. Inspect installation of vibration isolation systems where required		X		whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and applicable standards of quality and
	bolting, anchoring and other fastening of components within the seismic-force-resisting system		x		1707.9:- Verify that the equipment label and anchorage or mounting				3. The contractor shall hold a pre-construction meeting involving the Architect, Structural Engineer and the Special Inspector in order to
Stability 2	hold-downs. 1707.6:- Anchorage of storage racks				compliance when mechanical and electrical equipment must be	X			4. Material testing requirements are indicated in the specifications and/or
elser scaler, sager, end s Image: Source scaler, sager, end s Image: Source scaler, sager, end s 6 Field, 106 - STRUERU, EDBLOR ON SOURCE RESTANCE Image: Source scaler, sager, end S 7 Field, 106 - STRUERU, EDBLOR ON SOURCE RESTANCE Image: Source scaler, sager, end S 8 Field, 106 - STRUERU, EDBLOR ON SOURCE RESTANCE Image: Source scaler, sager, end S 4 Operation and face-scaler, end S Image: Source scaler, sager, end S 4 Operation and face-scaler, end S Image: Source scaler, sager, end S 10000	height. 1707.7:- Architectural components				Inspection of isolation system per		x		of work listed in the following table and indicated as requiring "structural observation" shall be observed during periodic site visits by
Product inclusion for factors Pr	exterior cladding weighing more	x					SMIC R	ESISTANCE	engineer 48 hours before work is ready for observation. These visits
Addit and optime rate of the constraints import of the constraints					Resistance	;			
Mathematical and constructions plan to Solutions Final and constructions plan to Solutions Final and constructions Final and constructions Final and constructions Constructions Cons	walls weighing more than 15 psf.				masonry and glass unit masonry in occupancy categories I, II, or III, verify	,			
Test makerings Test makerings Test makerings Test makerings Prode Medicine Centeration Image: Second Center Centeration Image: Second Centerat	interior and exterior veneer weighing more than 5 psf.	x			masonry construction prior to construction.				Statement of Contractor Responsibility: Per section CBC 1706, each Contractor and Subcontractor responsible for the fabrication, construction,
comparts m i	their anchorage.	X			masonry and glass unit masonry in				designated on the drawings and/or listed in the Statement of Special Inspections as a main wind — or seismic—load resisting system (SLRS) or
data-day point getter:	components 1. Inspect anchorage of electrical				used in masonry construction pric to construction.	r	x		the Building Official and Owner prior to commencement of work on the system or component. The Contractor's and Subcontractor's Statement of
active regrets of vestical in the control of print of the control of the contro					construction.				
	non-emergency electrical	x			occupancy categories I, II, or III,				2. Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the Building Official.
contents	systems and associated mechanica units carrying flammable,	I X			used in masonry construction prio to construction. • Verify f'm and f'AAC prior to	r	X		3. Procedures for exercising control within the Contractor's organization, the method, frequency or reporting and the distribution of the reports.
metrolia. Impart statistics of strategies are required by Saction 7278 are apprented to the classification and reprint and be apprented to the classification and reprint and the apprented to the classification and reprint and the apprented to the classification and reprint and the apprent and	contents. 4. Inspect installation of HVAC				1708.1.4 — For engineered masonry in	1			
by Section 1707.8 image: section 1707.8 image: section 1707.8 image: section 1707.8 1707.8 Verify that the sequement of control of the section of the s	materials. 5. Inspect installation of vibration				 Verify certificates of compliance used in masonry. 				
Lead and and hardings or maximum x commotions when mechanical and executival suppress x T77.10 - Settime isolution system- inspection of labolities solution system in attructures assigned to Solution compares and gluss solution assigned in massery construction prior to commutation. 1 T708.1 - For empirically construction massery and gluss with mesonry in accupancy construction, construction. x 2 T708.1 - For empirically designed massery and gluss with mesonry in accupancy construction, construction. x 3 T708.2 - To empirically designed massery and flux period construction. x 1 T708.3 - For empirically designed massery and flux period construction. x 1 T708.5 - To build million solution construction. x 1 T708.5 - Obtain asystem centeration flux miniments in flux compliance used in massery construction form to construction. x 1 T708.5 - Obtain			×		construction and every 5,000		X		
electrical equipment must be eleminative qualified. 1 1707.10-5 Sterine 1702.10-5 Section 172.4.8 X Master Construction system: addition system per section 172.4.8 X TOB.1 Masonry Testing for Seismic Addition system: in structures assigned to satemic basign Category C. D. or F. 1. The sets seismic-force-resisting systems in structures assigned to Satemic basign Category C. D. or F. TOB.1 For empirically designed masonry in account of the satemic basign Category C. D. or F. 2. Designcted seismic systems in structures assigned to Satemic basign Category C. D. or F. TOB.1 For empirically designed masonry in account of the satemic basign Category C. D. or F. 3. Architecture assigned to Satemic basign Category C. D. or F. TOB.1 For empirically designed masonry in account of the satemic basign Category C. D. or F. 3. Architecture assigned to Satemic basign Category C. D. or F. TOB.1 For empirically designed masonry in account of the satemic basign Category C. D. or F. 3. Architecture assigned to Satemic basign Category C. D. or F. TOB.1 For empirically designed masonry on account of the satemic basign Category C. D. or F. 3. Architecture assigned to Satemic basign Category C. D. or F. TOB.1-2 - For empirically designed masonry in account of the satemic basis of category V. Satemach Sate	abel and anchorage or mounting conforms to the certificate of	x			mortar and grout as delivered to				
1707.01:- Selamic isolation system:	electrical equipment must be seismically qualified.				Sections 1708.3 through 1708.6 are				
TABLE 1708 - STRUCTURAL TESTING FOR SEISING FOR SEISING PESISTANCE F. 1708.1:1 - Masonry Testing for Seismic Resistance	1707.10:— Seismic isolation system:— Inspection of isolation system per ASCE 7 — Section 17.2.4.8		x		 The seismic-force-resisting systems in structures assigned to 			,	
Resistance Image: Selection of Select			MIC RESIS	TANCE	F.				
masemy and glass unit masemy in occupancy categories I, II, or III, verify masemy construction. X 3. Architectural. 3. Architectural. masemy and glass unit masemy in or to construction prior to construction. X 1708.1.3 - For empirically designed masemy construction prior to construction. X • Verify certificates of compliance used in masemy construction prior to construction. X • Verify certificates of compliance used in masemy construction prior to construction. X • Verify find of fixe prior to construction prior to construction. X • Verify certificates of compliance used in masemy construction prior to construction. X • Verify certificates of compliance used in masemy construction prior to construction. X • Verify find and fixe prior to construction. X • Verify find and fixe prior to construction. X • Verify certificates of compliance used in masemy construction. X • Verify find and fixe prior to construction. X • Verify find and fixe prior to construction. X • Verify find and fixe prior to construction. X • Verify find and fixe prior to X • Verify find and fixe prior to X • Verify find and fixe prior to X • Verify	Resistance				structures assigned to Seismic				
construction. 1708.1.2 - For empirically designed nuccupancy category W, 1708.3 - Obtain mill certificates for reinforcing steel, verify compliance with approved construction documents, and verify steel supplied corresponds to certificate supplied corresponds to certificate. X • Verify certificates of compliance used in masonry construction. X Introduction • Verify remaind fixe prior to construction. X Introduction documents in ASC 341. • Verify certificates of compliance used in masonry in occupancy categories I, II, or III, Introduction • Verify certificates of compliance used in masonry construction. X • Verify rim and fixe prior to construction. Introduction • Verify certificates of compliance used in masonry in occupancy categories I, II, or III, Introduction • Verify certificates of compliance used in masonry in occupancy categories I, II, or III, X • Verify certificates of compliance used in masonry construction prior to construction. X • Verify reinficates of compliance used in masonry construction prior to construction. X • Verify find and fixe prior to X • Verify find and fixe prior to X	masonry and glass unit masonry in occupancy categories I, II, or III, verify certificates of compliance used in masonry construction prior to		x		electrical components in structure assigned to Seismic Design	5			
occupancy category IV, verify certificates of compliance used in masonry construction prior to construction. x Verify 'f' and f'_MC prior to construction prior to construction prior to construction. x x Verify certificates of compliance used in masonry construction prior to construction. x x Verify 'f' and f'_MC prior to construction prior to construction. x x 1708.1.3 - For engineered masonry in occupancy categories I, II, or III, x 1708.6 - Obtain certificate that equipment has been tested per Section 1708.5 Verify 'f' m and f'_AC prior to x 1708.6 - Obtain system tests as required by ASCE 7 Section 17.8 x	construction. 1708.1.2 — For empirically designed masonry and glass unit masonry in				 1708.3 – Obtain mill certificates for reinforcing steel, verify compliance wit 				
to construction. Verify f'm and f'ACC prior to construction. 1708.1.3 - For engineered masonry in occupancy categories I, II, or III, Image: Construction from the equipment has been tested per Section from tested per Section from the equipment has been tested per Section from testes detected	 Occupancy category IV, Verify certificates of compliance used in masonry construction prior 		x		verify steel supplied corresponds to certificate 1708.4 — Structural Steel:— Invoke th	e			
1708.1.3 - For engineered masonry in occupancy categories I, II, or III, 1708.5 - Obtain certificate that equipment has been tested per Section 1708.5 • Verify certificates of compliance used in masonry construction prior to construction. X • Verify f'm and f'AAC prior to X	 Verify f'm and f'_{AAC} prior to 				AISC 341.	X			
 used in masonry construction prior to Verify f'm and f'_{AAC} prior to X 	1708.1.3 — For engineered masonry in occupancy categories I, II, or III,				equipment has been tested per Sectio	n	x		
	 to construction. Verify f'm and f'_{AAC} prior to 		x				X		
					4				

