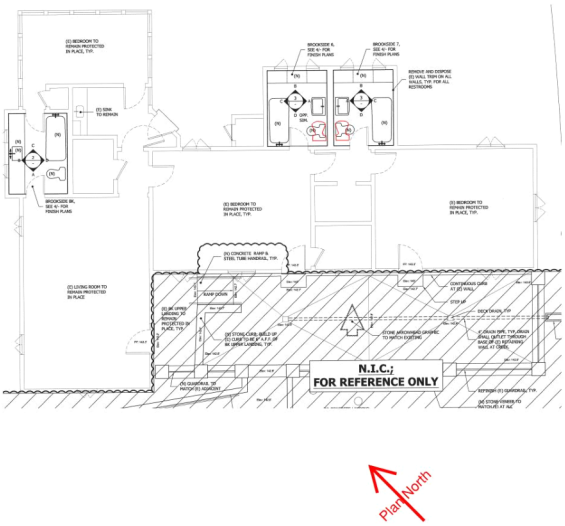
UNIVERSITY OF CALIFORNIA

BUILDING REPORT REQUIREMENTS
ASCE 41-17 TIER 1 SEISMIC EVALUATIONS

BUILDING REPORT

1) UC Campus: Los Angeles
2) Building Name: Lake Arrowhead Brookside
3) Building CAAN ID: 4201I
4) Auxiliary Building ID:
5) Date of Evaluation: 6/30/2020
6) Evaluation by: Englekirk, TAS
7) Seismic Performance Rating and Basis of Rating: V, ASCE 41-17 Tier 1



8) Plan Image or Aerial Photo

9) Exterior Elevation Photo

10) Site Location
   (a) Latitude Decimal Coordinates: 34.265145
   (b) Longitude Decimal Coordinates: -117.187301
11) ASCE 41-17 Model Building Type and Description
   (a) Longitudinal Direction: W1 and W2: Wood frame, wood shear panels
   (b) Transverse Direction: W1 and W2: Wood frame, wood shear panels
12) Number of Stories
   (a) Above grade: 1
   (b) Below grade: 0
13) Original Building Design Code & Year:
14) Retrofit Building Design Code & Year (if applicable):
15) Cost Range to Retrofit (if applicable): (Low, Medium, High or Very High): Medium

Comments: No drawings. Based on site visit, unstiffened cripple walls and no bolting to stem wall.

BACKGROUND INFORMATION

Site Information

16) Site Class (A – F) and Basis of Assessment
- (a) Site Class: D
- (b) Site Class Basis: Unknown (Default)
- (c) Site Class Company: None
- (d) Site Class Report Date: None
- (e) Site Class Ref Page No.: None

17) Geologic Hazards
- (a) Fault Rupture (Yes, No or Unknown) and Basis of Assessment: Unknown, None
- (b) Liquefaction (Yes, No or Unknown) and Basis of Assessment: Unknown, None
- (c) Landslide (Yes, No or Unknown) and Basis of Assessment: Unknown, None

18) Site-specific Ground Motion Study? (Yes or No) No

Seismic design acceleration parameters of interest:	
For BSE-1N	1.249 and 0.805
For BSE-1E	0.919 and 0.545

19) Estimated Fundamental Period (seconds)
- (a) Longitudinal: 0.16
- (b) Transverse: 0.16

20) Falling Hazards Assessment Summary: None noted.

21) Structural Non-Compliances/Findings Significantly Affecting Rating Determination Summary
Significant Structural Deficiencies, Potentially Affecting *Seismic Performance Rating* Designation:

- (a) Lateral System Stress Check (wall shear, column shear or flexure, or brace axial as applicable): Yes, wall shear stress deficiency noted
- (b) Load Path: Yes, deficiency noted
- (c) Adjacent Buildings: No deficiency noted
- (d) Weak Story: No deficiency noted
- (e) Soft Story: No deficiency noted
- (f) Geometry (vertical irregularities): No deficiency noted
- (g) Torsion: Not Applicable
- (h) Mass – Vertical Irregularity: No deficiency noted
- (i) Cripple Walls: Yes, deficiency noted
- (j) Wood Sills (bolting): Yes, deficiency noted
- (k) Diaphragm Continuity: No deficiency noted
- (l) Openings at Shear Walls (concrete or masonry): Not Applicable
- (m) Liquefaction: Unknown
- (n) Slope Failure: Unknown

(o) Surface Fault Rupture: Unknown
(p) Masonry or Concrete Wall Anchorage at Flexible Diaphragm: Not Applicable
(q) URM wall height to thickness ratio: Yes, deficiency noted
(r) URM Parapets or Cornices: Not Applicable
(s) URM Chimney: Not Applicable
(t) Heavy Partitions Braced by Ceilings: No deficiency noted
(u) Appendages: No deficiency noted

22) Brief Description of Anticipated Failure Mechanism
Unbraced cripple walls. Sliding of building off perimeter foundations and interior foundation piers. Unreinforced stone foundation walls. Failure of let-in or diagonal bracing or exterior stucco and interior plaster walls,

23) Seismic Retrofit Concept Sketches/Description (only required for buildings rated V or worse)
Add new concrete interior foundations and anahcorage hardware. Secure perimeter walls to foundations and brace with plywood. Connect crawl space framing with structural hardware and strapping. Add new shear walls. Anchor roof framing to exterior walls. Resheath roof with plywood. Connect roof framing with structural hardware.

Building Report Appendices
A) ASCE 41-17 Tier 1 Checklists (Structural only)

B) Quick Check Calculations