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**Project Information for Geotechnical and/or Geohazard Report/Site Data Report  
 Review for Projects submitted after 1/1/2023 (under 2022 California Building Code)**

**Facility and Project**

Project #: \_\_\_\_\_ Project Name: \_\_\_\_\_  
 Facility #: \_\_\_\_\_ Facility Name: \_\_\_\_\_  
 HCAI Building #: BLD - Building Name: \_\_\_\_\_  
 Facility Type:  Acute Psychiatric Hospital  General Acute Care Hospital  
 Correctional Treatment Center  Skilled Nursing or Intermediate Care Facility  
 Licensed Clinic

**CBC 2022 Section 1603A.2 (use relevant items for HCAI)**

**1603A.2 Site data reports.** *Geotechnical and geohazard reports for review by the enforcement agency shall be accompanied by a description of the project prepared by the registered design professional (RDP) in responsible charge, which shall include the following:*

1. *Type of service such as general acute care facility, skilled nursing facilities, acute psych, central utility plants, etc.*
2. *Construction materials used for the project such as steel, concrete, masonry, wood, etc.*
3. *Type of construction project such as new, addition, alteration, repair, etc.*
4. *For existing buildings, extent of construction such as incidental, minor, major, and/or voluntary seismic improvements as defined in Section 318, Part 10, Title 24, C.C.R. [California Existing Building Code Section 202A, OSHPD I].*
5. *Seismic force resisting system used for each structure in the project.*
6. *Foundation system that will be used for each structure in the project such as spread footing, drilled piers, etc.*
7. *Analysis procedure used and basis of design such as ASCE 7 Equivalent Lateral Force Procedure, ASCE 41 Nonlinear Dynamic Procedure, etc.*
8. *Building characteristics such as number of stories above and below grade, foot print area at grade, grade slope on site, etc.*
9. *Special features such as requirement for shoring, underpinning, retaining walls, etc.*

**Project Description**

Description: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Project Information for Geotechnical and/or Geohazard Report/Site Data Report Review

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## Type of Service in the Building or Structure for the Project

- OSHPD 1 (Acute Care Hospital)
- OSHPD 1R (Non hospital building in HCAI jurisdiction)
- OSHPD 2 (Skilled Nursing or Intermediate Care Facility Building)
  - A capacity of 50 or more resident patients
- OSHPD 3 (Licensed Clinic)
- OSHPD 5 (Acute Psychiatric Hospital)
  - A capacity of 50 or more resident patients

## Construction Materials Used for the Project

- Superstructure Gravity System \_\_\_\_\_
- Superstructure Lateral Force Resisting System \_\_\_\_\_
- Basement \_\_\_\_\_
- Foundation \_\_\_\_\_

## Type of Construction

- New
- Addition
  - Structurally Independent
- Alteration
- Repair

## Construction Condition

- New acute care building expansion (seismically separate)
- New SNF or Intermediate Care building expansion (seismically separate)
- Addition to an existing SNF or Intermediate Care Facility (structurally connected)
- Alteration or repair of OSHPD 1R Building
- Addition to an existing SPC-1 or SPC-2 building (structurally connected)
- Addition to an existing SPC-3 to SPC-5 building (structurally connected)
- Alteration or repair to an existing SNF or Intermediate Care Facility
- Alteration or repair to an existing SPC-1 or SPC-2 building
- Alteration or repair to an existing SPC-3 to SPC-5 building
- Seismic Upgrade from a nonconforming building to an SPC-4D building
- Seismic Upgrade from SPC-2, SPC-3, or SPC-4 to an SPC-5 building
- Non-building structure (on ground)
- One story wood frame or light steel frame (stud wall), Type V, 4000 sf or less not located in an earthquake fault zone or seismic hazard zones published by CGS.

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## Extent of Construction for Existing Buildings ONLY

- Incidental
- Minor
- Major

## Seismic Force Resisting System

- Conventional (code approved)

Description of Seismic Force Resisting System: \_\_\_\_\_

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- Conventional with Base Isolation System
  - Conventional with Damping System (not part of the base isolation)
  - Alternative System (requires Seismic Design Criteria)

## Foundation System that will be Used for the Project

Note: Checkmark all systems that are applicable to the project only.

- Shallow spread footing
- Mat foundation
- Drilled piers or driven piles
- Micropiles for vertical loads only
- Helical piles for vertical loads only
- Auger-cast piles
- Prestressed rock and soil foundation anchors
- Alternative foundation systems (requires Structural Design Criteria)
  - Tubex piles
  - Torque down piles
  - Others: \_\_\_\_\_

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- Ground improvement using code based compaction techniques
  - Ground improvement using Vibro Stone Columns (VSC)
  - Alternative ground improvement systems (requires Structural Design Criteria)
    - Grouted stone columns
    - Deep soil mixing
    - Others: \_\_\_\_\_
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# Project Information for Geotechnical and/or Geohazard Report/Site Data Report Review

## Structural Analysis Procedure for Seismic Force Resisting System

- New or existing hospital building using CBC 2022 Chapters 16A/CEBC 2022 Chapters 3A:
  - Equivalent Static Analysis
  - Modal Response Spectrum Analysis
  - Linear Response History Analysis
  - Nonlinear Response History Analysis (requires Structural Design Criteria)
  - Alternative analysis procedure not in ASCE 7 (requires Structural Design Criteria)
- SPC-4D building using the CBC 1980:
  - Equivalent Static Analysis
  - Dynamic Analysis
- Existing hospital building using CEBC 2022 Chapters 3/3A based on ASCE 41:
  - Linear Static Procedure
  - Linear Dynamic Procedure
  - Nonlinear Static Procedure
  - Nonlinear Dynamic Procedure (requires Structural Design Criteria)
  - Alternative analysis procedure not in ASCE 41 (requires Structural Design Criteria)
  - Alternative analysis procedure not in ASCE 7 (requires Structural Design Criteria)

## Building Characteristics

- $T$ , Building Fundamental Period (in secs – provide in each direction if different) \_\_\_\_\_
- Number of stories above grade \_\_\_\_\_
- Number of stories below grade \_\_\_\_\_
- Basement or building provides lateral support for walls retaining earth
  - Earth not at same level on all four sided, creating min 6 feet of unbalanced soil pressure
- Grade slope on site: \_\_\_\_\_
- Footprint area at grade: \_\_\_\_\_

## Special Geotechnical and/or Geohazard Features

- Building site plans/elevations showing special features included
- Retaining walls greater than 6' in height
- Shoring for earth retention supporting or impacting new or existing HCAI buildings
  - Permanent
  - Temporary (less than 1-year)
- Slope stabilization \_\_\_\_\_

# Project Information for Geotechnical and/or Geohazard Report/Site Data Report Review

## Site-Specific Ground Motions Procedures (ASCE 7-16, 11.4.8) where used

- $T_s = S_{D1}/S_{DS}$  (secs) \_\_\_\_\_
- Site Response Analysis, Section 21.1
- Ground Motion Hazard Analysis, Section 21.2
  - Method 1
  - Method 2

## Exceptions Used in lieu of Site-Specific Ground Motions Procedures (ASCE 7-16, 11.4.8)

### Site Class D

- ASCE 7-16 Section 11.4.8, Exception 2:  
Structures on Site Class D sites with  $S_1$  greater than or equal to 0.2, provided the value of the seismic response coefficient  $C_s$  is determined by Eq. (12.8-2) for values of  $T \leq 1.5T_s$  and taken as equal to 1.5 times the value computed in accordance with either Eq. (12.8-3) for  $T_L \geq T > 1.5T_s$  or Eq. (12.8-4) for  $T > T_L$

### Site Class E

- ASCE 7-16 Section 11.4.8, Exception 1:  
Structures on Site Class E sites with  $S_s$  greater than or equal to 1.0, provided the site coefficient  $F_a$  is taken as equal to that of Site Class C.
- ASCE 7-16 Section 11.4.8, Exception 3:  
Structures on Site Class E sites with  $S_1$  greater than or equal to 0.2, provided that  $T$  is less than or equal to  $T_s$  and the equivalent static force procedure is used for design.

### Site Class F

- ASCE 7-16 Section 20.3.1, Item 1 Exception:  
For structures that have fundamental periods of vibration equal to or less than 0.5 s, site response analysis is not required to determine spectral accelerations for liquefiable soils. Rather, a site class is permitted to be determined in accordance with Section 20.3 and the corresponding values of  $F_a$  and  $F_v$  determined from Tables 11.4-1 and 11.4-2.

Note: Other Site Class F exceptions are not applicable in the State of California

## Applicant Information

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_  
Organization: \_\_\_\_\_ Email: \_\_\_\_\_  
Phone: \_\_\_\_\_ Ext.: \_\_\_\_\_