ERADIQUAKE Isolation Bearings

Design Questionnaire

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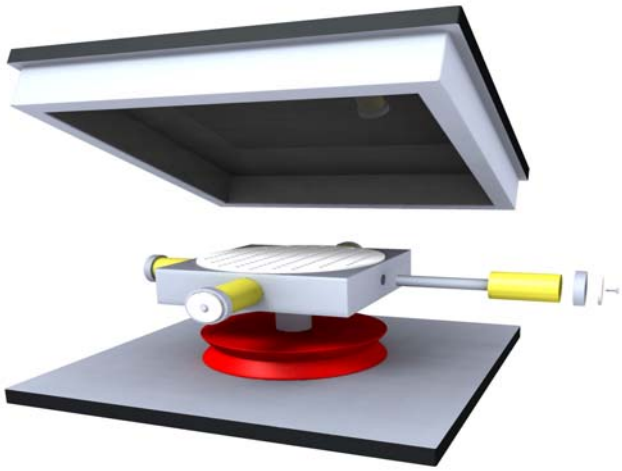

Project

Name/Contract No.:

Owner:

Consultant:

Contact Information:

Name:

Telephone:

E-mail:

Contract Drawing Reference:

Prepared by:

EradiQuake Bearing Quantity:

Estimated Project Bid Date:

Structure

Superstructure Information:

- Type (Steel or Concrete):
- Strength (Yield or Compressive (f'c)):
- No. of Girders & Span Length(s):
- Slope at Bearing Locations:

Substructure Information:

- Type (Steel or Concrete):
- Strength (Yield or Compressive (f'c)):
- Bearing Pedestal Dimensions:

Design

Design Goal:

Retrofit or New Design:

Design Method - ASD, LFD, or LRFD:

Seismic Design Data:

- AASHTO Acceleration Coefficient ($\mathbf{S_1}$):
- AASHTO Site Class Coefficient ($\mathbf{F_v}$):
- Site Specific Response Spectrum (if applicable):

Design Temperature Range:

Units - English or Metric:

Specifications (including dates/editions):

- AASHTO:
- State Standard:
- AASHTO Guide Specification:

Bearing Materials:

- Type of Steel:
- Coating (paint, galvanize, metalize):

Testing

Specifications (including dates/editions):

- AASHTO:
- State Standard:
- AASHTO Guide Specification:

Design Requirements

LRFD Design

Units Load: Displacement: Rotation:			**Sub-structure Location**	**Sub-structure Location**	**Sub-structure Location**	**Sub-structure Location**
Bearing Quantity						
Service Limit State (max)	Vertical Load *per bearing*	Dead				
		Live				
		Total				
	Horizontal Load *per bearing*	Longitudinal				
		Transverse				
Strength Limit State (max factored)	Vertical Load *per bearing*	Dead				
		Live				
		Total				
	Horizontal Load *per bearing*	Longitudinal				
		Transverse				
	Rotation (+/-)	Due to all applicable loads				
		Due to fab & const tol.				
		Total				
	Movement (+/-)	Longitudinal				
		Transverse				
Extreme Event Limit State (*Seismic*, max factored)	Horizontal Force Goal *per bearing*	Longitudinal				
		Transverse				
	Maximum Displacement Goal (+/-) *across bearing*	Longitudinal				
		Transverse				
Type of attachment to **super**structure						
Type of attachment to **sub**structure						

If any of the above information is not known at this time, some assumptions can be used for an estimate. For example, a typical design rotation is +/-0.02 radians.

Design Requirements

ASD or LFD Design

Units Load: Displacement: Rotation:			**Sub-structure Location**	**Sub-structure Location**	**Sub-structure Location**	**Sub-structure Location**
Bearing Quantity						
Load *per bearing* (Denote: unfactored or factored)	Vertical	Dead				
		Live				
		Total				
Rotation (+/-)	Due to all applicable loads					
	Due to fab & const tol.					
	Total					
Service Forces *per bearing* (Denote: unfactored or factored)	Wind (W)					
	Wind on Live (WL)					
	Centrifugal (CF)					
	Longitudinal Force (LF)					
Max Seismic Force Goal *per bearing*	Longitudinal					
	Transverse					
Max Seismic Displacement Goal *across bearing*	Longitudinal					
	Transverse					
Movement (+/-)	Longitudinal	RST				
	Transverse	RST				
Type of attachment to **super**structure						
Type of attachment to **sub**structure						

If any of the above information is not known at this time, some assumptions can be used for an estimate. For example, a typical design rotation is +/-0.02 radians.