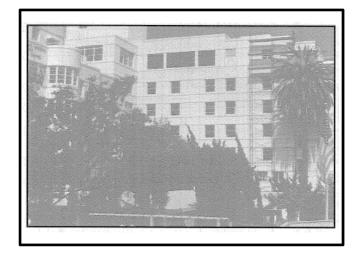
**Instructions:** This form is for use in collecting data for phase two of the Concrete Coalition project: Developing a Global Database of Concrete Buildings Damaged in Earthquakes. For more information about how to use this form, see the sample form or view the demo at: <a href="http://concretecoalition.org">http://concretecoalition.org</a>.

Record ID: Building Name: Prepared By:

#### **Section 1: Basic Building Information**



Elevation view of the south wing of St. John's Hospital and Health Center prior to the Northridge Earthquake. (SSC, 1994)

Country:	
State/Province:	
City:	
Latitude:	
Longitude:	
Street Address:	
Occupancy:	
Height:	Ft, m
Number of Stories:	
Number of Stories below	
ground:	
Size:	gsf, sqm
Year Built:	
Original Code:	
Modification:	
Year Modified:	
Code of Modification:	

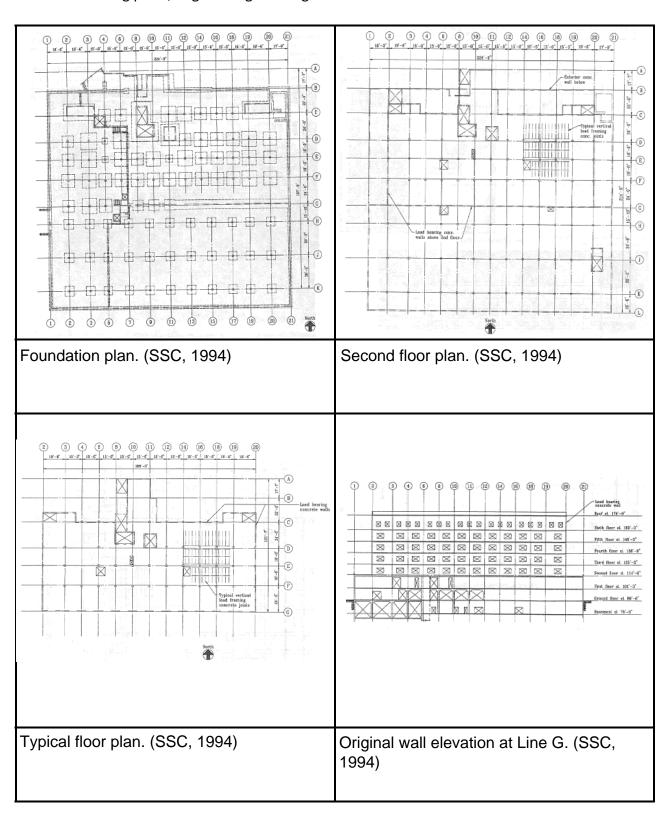
Record ID: Building Name:	Prepared By:	
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## Section 1: Basic Building Information-(Continued)

Lateral Load System:	
Other Lateral Load	
System:	
Vertical Load System:	
Other Vertical Load	
System:	
Foundation:	
Building Description:	

#### **Supplemental Basic Information:**

Paste in building plans, engineering drawings or sketches



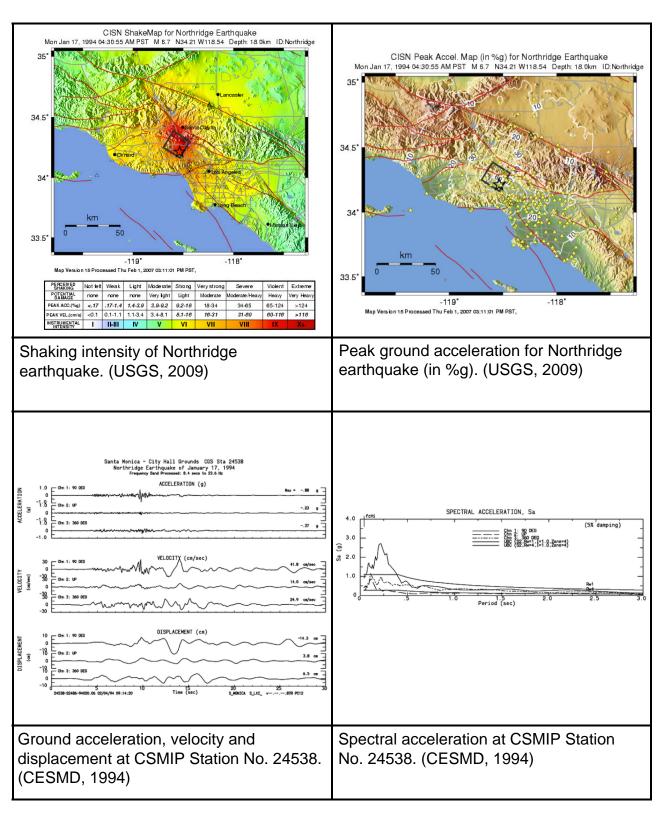
	Record ID:	Building Name:	Prepared By:
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#### **Section 2: Earthquake Information**

F .1 1 D .	
Earthquake Date:	
Moment Magnitude:	
Epicentral Distance (km):	
Local Intensity:	Intensity Scale:
Site Description:	
PGA (max horizontal):	
PGA (vertical):	
SaT:	
Ground Motion	
Recording Stations:	
Distance to Station (km):	
Station Latitude:	
Station Longitude:	
Ground Motion	
Summary:	

#### **Additional Ground Motion Information:**

Paste in earthquake maps, spectra, or figures involving the ground motion at the building site



Record ID:	Building Name:	Prepared By:
Section 3: Dam	age Information	
Performance Sum	nmary:	
Damage State Description:		
Summary of Caus Damage:	es of	

Record ID:	Building Name:		Pro	epared By:					
Section 4: Observe	Section 4: Observed Design and Construction Characteristics-Construction Quality								
			Contributi	on to Observ	ed Damage				
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>			
Materials			1	T					
Concrete									
Reinforcing steel									
Execution		<b>L</b>			l l				
Conveyance/ placement of concrete									
Rebar									
Field variance with design documents									
Other Factors		1			<u>'</u>				
Please Specify:									

Record ID:	Building Name:	Prepared By:

#### Section 4: Observed Design and Construction Characteristics-Configuration

			Contributi	on to Observ	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
Plan Irregularities						
Torsion						
Perimeter boundary						
Diaphragm						
Out-of-plane offsets in lateral resisting system						
Non-orthogonal systems						

Record ID:	<b>Building Name:</b>		Pre	epared By:		
Section 4: Observe	ed Design and Construction C	<b>haracteristics</b> -Con	figuration-(0	Continued)		
		Contributio	n to Observed	Damage		
Vertical Irregularities	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
vertical irregularities						
Soft Story						
Weak story						
Mass distribution						
Geometric variability of lateral resisting system						
In-plane discontinuity of lateral resisting system						
Setbacks						
Change in stiffness						
Other Factors		I	ı		<u> </u>	
Please Specify:						

Record ID:	Building Name:		Pre	epared By:		
Section 4: Observe	ed Design and Construction Characteri	<b>stics</b> -Later	al Load Res	sisting Syste	em-General	
			Contributi	on to Observe	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
Strength		<del></del>		Γ	T	<del></del> 1
Overall lack of strength						
Stiffness		l				
Extreme Flexibility						
Load Path				<u> </u>	<u> </u>	
Collectors/Struts						
Anchorage of nonstructural elements						
Out-of-plane capacity of walls						
Diaphragm chords						
Diaphragm openings						
Other Factors						
Please Specify:						

Record ID:	Building Name:		Pre	epared By:			
Section 4: Observed Design and Construction Characteristics-Lateral Load Resisting System-Frames							
			Contribution	on to Observ	ed Damage		
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>	
Columns			1		T	Г	
Shear strength							
Flexural strength							
Axial load ratio (P/Ac/fc')							
"Vertical" load columns drift capacity							
Interference of frame action by infill							
Beams							
Strength relative to columns							
Shear controlled behavior							
Continuity of longitudinal reinforcing							
Loss of vertical capacity							

Record ID:	Building Name:		Pre	pared By:		
Section 4: Observed Design and Construction Characteristics-Lateral Load Resisting System-Frames-Continued						
		Contributio	n to Observed	l Damage		
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	N/A
Beams –(continued)						
Interference of frame action by infill						
Joints						
Interior						
Exterior						
Corner						
Other Factors		1				
Please Specify:						

Record ID:	Building Name:	Prepared By:

#### <u>Section 4: Observed Design and Construction Characteristics</u>-Lateral Load Resisting System-Shear Walls

			Contributi	on to Observ	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	N/A
Shear						
Diagonal tension/compression						
Sliding shear						
Flexure/shear						
Flexure	•		I	•	1	
Compression zone buckling capacity						
Boundary reinforcing fracture/buckling						
Discontinuity of wall						
Boundary Reinforcing at openings						
Other Factors	I					
Please Specify:						

Record ID:	Building Name:		Pre	epared By:		
Section 4: Observed Design and Construction Characteristics-Lateral Load Resisting System-Infills						
			Contributi	on to Observ	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
Unreinforced						
Interference with frame action						
Out-of-plane						
Attachment to framing						
Other Factors						
Please Specify:						

Record ID:	Building Name:		Pre	epared By:		
Section 4: Observed Design and Construction Characteristics-Lateral Load Resisting System-Other						
			Contributi	on to Observe	ed Damage	
Foundations	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
Foundations						
Liquefaction						
Pile/pier tension capacity						
Spread footing capacity						
Other:			I	I		
Please Specify:						
Miscellaneous		•				
Pounding						
Surface Rupture						
Other:		L	L		l .	
Please Specify:						

#### Illustrations of damage:

Paste in drawings, sketches or photos of building damage

Tunical chaos well domage (CCC, 4004)	Two isol shoot well domests and an aver
Typical shear wall damage. (SSC, 1994)	Typical shear wall damage and epoxy injection procedure. (SSC, 1994)
Insert image here	Insert image here
Type image caption here:	Type image caption here:

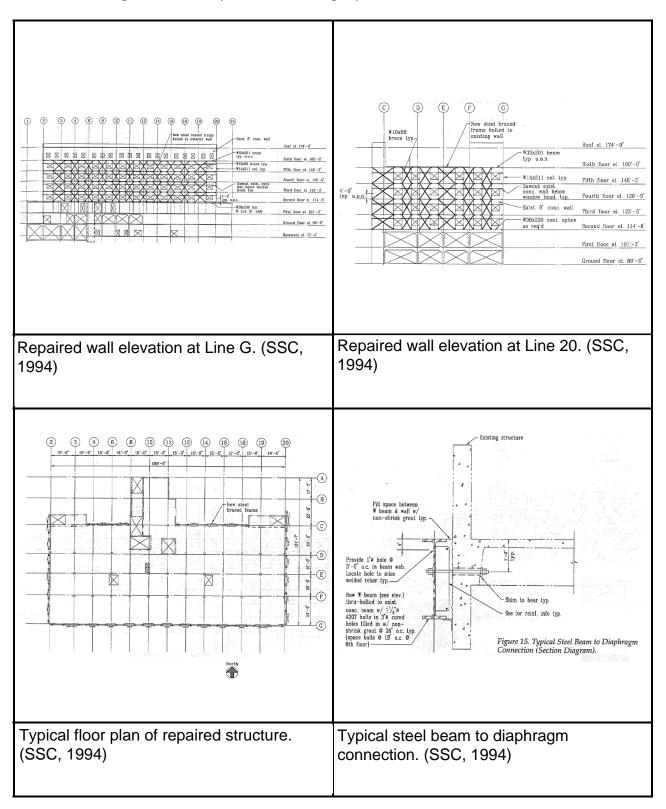
Record ID:	Building Name:	Prepared By:

#### **Section 4: Repair and Retrofit Information**

Type of retrofit or repair:	
Other:	
Performance Level:	
Hazard Level:	
Code:	
Other:	
Lateral Analysis:	
Other:	
Design Strategy:	
Retrofit Summary:	

#### **Illustrations of Repair or Retrofit:**

Paste in drawings, sketches or photos of building repair or retrofit



Record ID:	Building Name:	Prepared By:			
Additional Notes:					
Section 1					
Section 2					
Section 3					
Section 4					

Record ID:	Building Name:	Prepared By:
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#### **Appendix 1: Supplemental Basic Information**

File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	

Record ID:	Building Name:	Prepared By:

#### **Appendix 2: Additional Ground Motion Location**

File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	

Record ID:	Building Name:	Prepared By:

#### **Appendix 3: Illustrations of Damage**

File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
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File Location	
File Caption	
The Caption	
File Location	
File Caption	

Record ID:	Building Name:	Prepared By:

## **Appendix 4: Illustrations of Repair/Retrofit**

File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	

Record ID:	Building Name:	Prepared By:	
Appendix 5: Re	eferences		
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			

Record ID:	Building Name:	Prepared By:	
Appendix 5: Ro	<u>eferences</u> -(Continued	)	
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			_
Citation			
Link to Durahasa			
Link to Purchase			
File Location			