

**APPENDIX I**

**EARTHQUAKE OBSERVATIONS - - TIME HISTORIES**

**OF OBSERVED MOTIONS AND ESTIMATED RESPONSES**

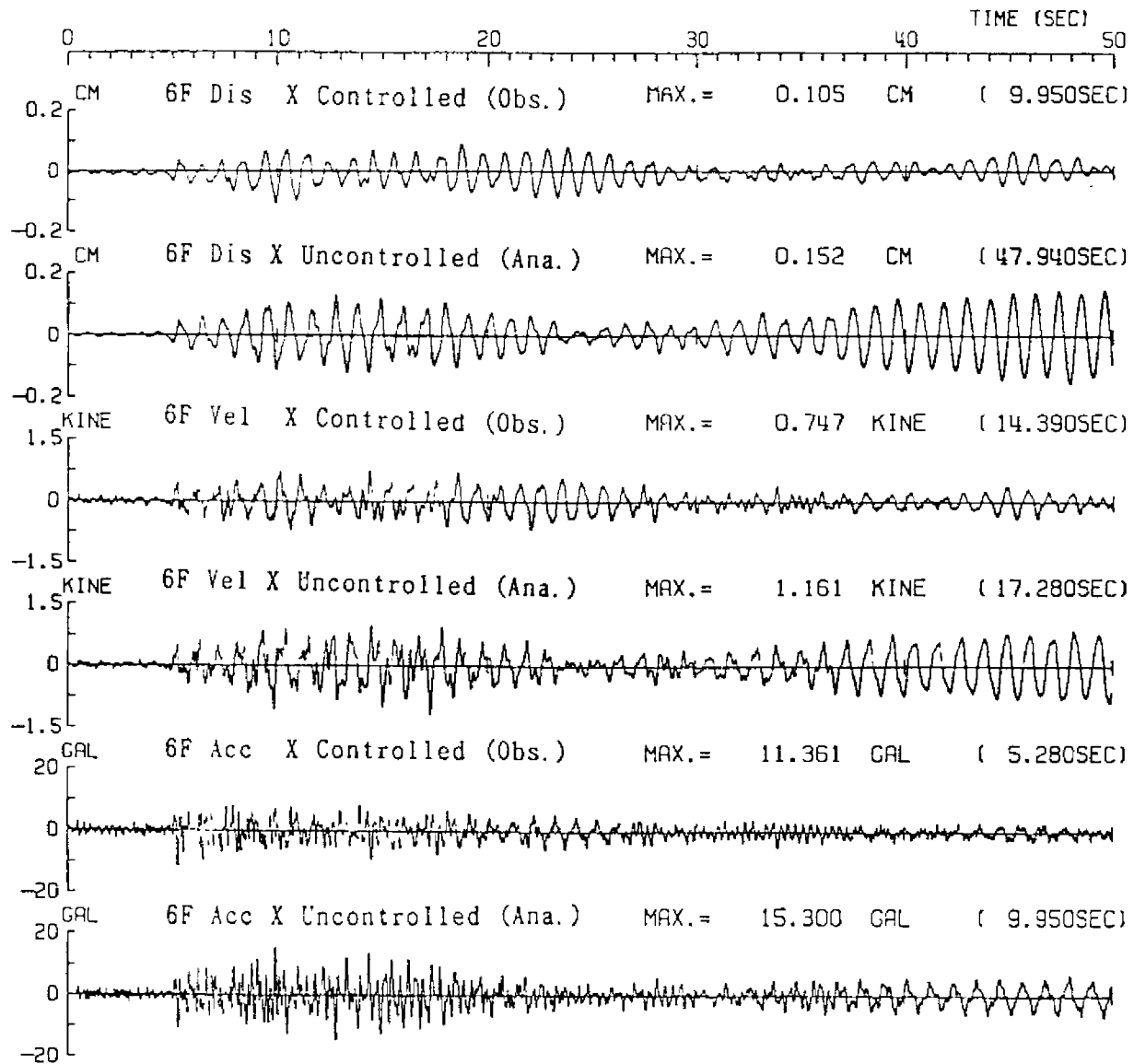
Table A1 provided the description of the three earthquakes that considered in this report. This is followed by the display of a more complete set of the structural response time histories (observed and simulated) related to this earthquakes.

**Table A1 - Actual Earthquakes During the Operation Period of ABS**

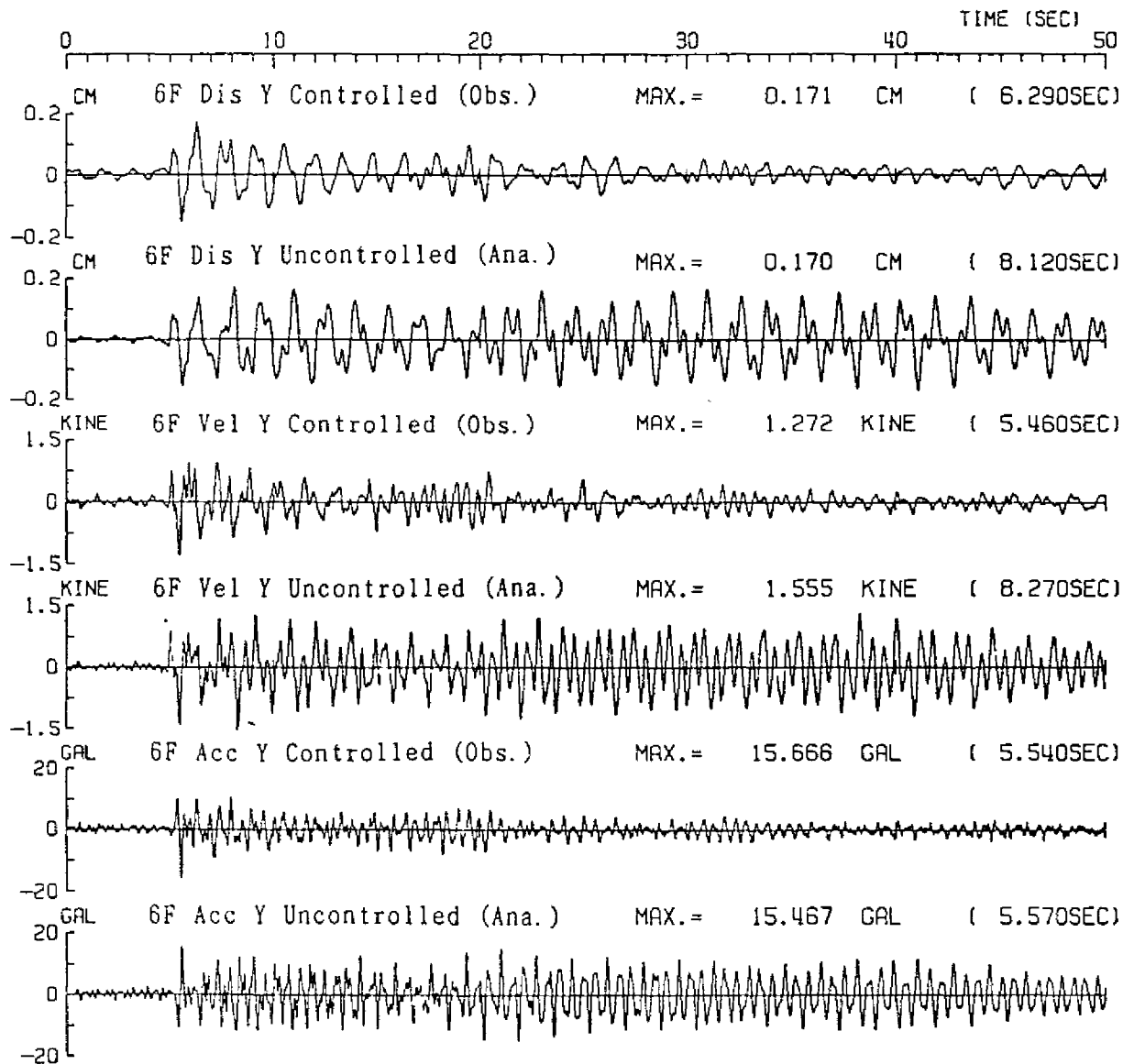
| <b>Time of Occurrence</b> | <b>Epicenter Location</b>                           | <b>Depth (KM)</b> | <b>Magnitude</b> |
|---------------------------|---|-------------------|------------------|
| April 10, 1992<br>(23:31) | North latitude 35° 14' /<br>East longitude 139° 38' | 89                | 4.9              |
| April 14, 1992<br>(12:03) | North latitude 36° 10' /<br>East longitude 139° 50' | 62                | 5.0              |
| May 11, 1992<br>(19:07)   | North latitude 36° 32' /<br>East longitude 140° 32' | 56                | 5.6              |

## 1. Earthquake on April 10, 1992:

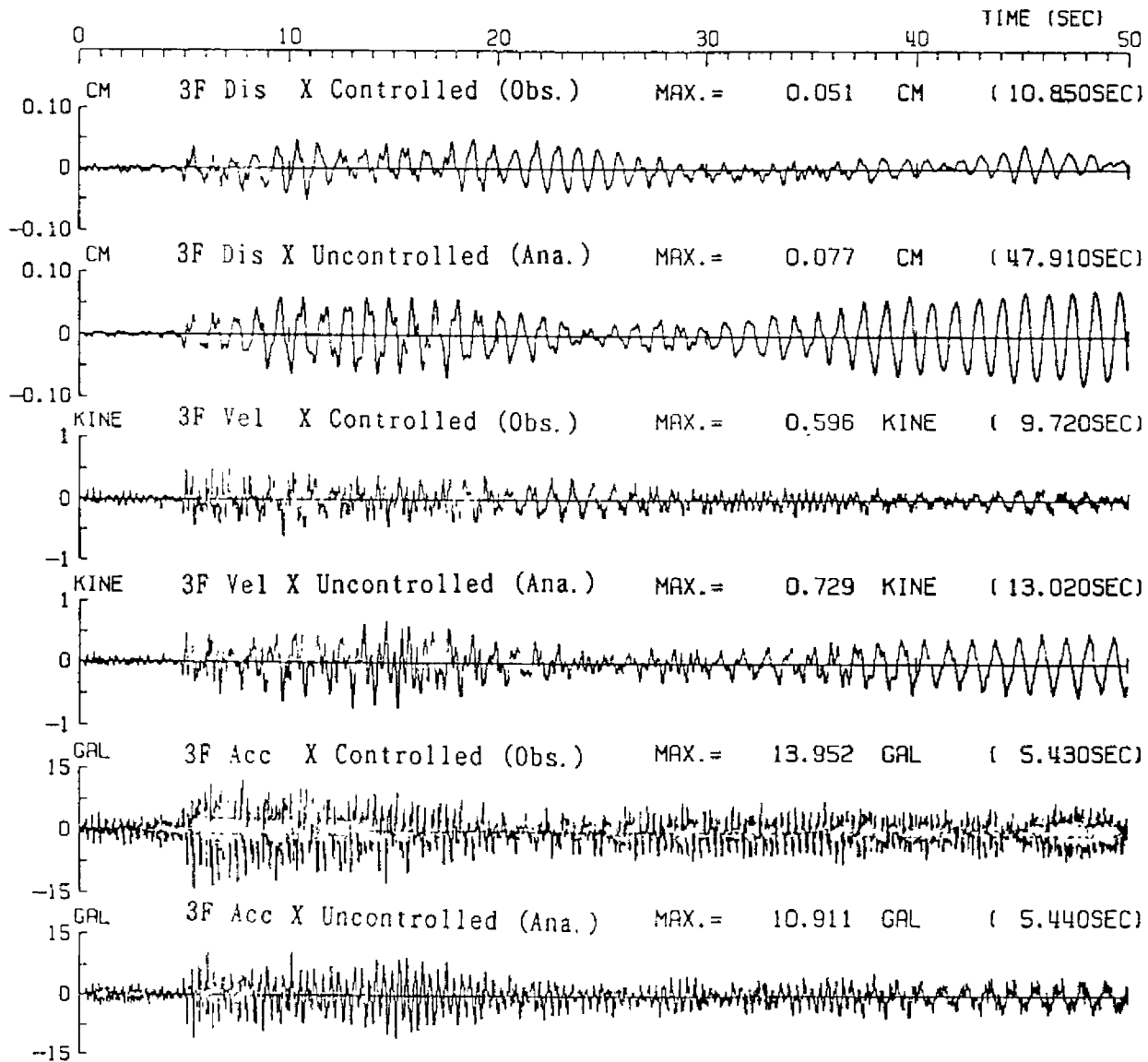
### 1) Response of 6th Floor in X-Direction



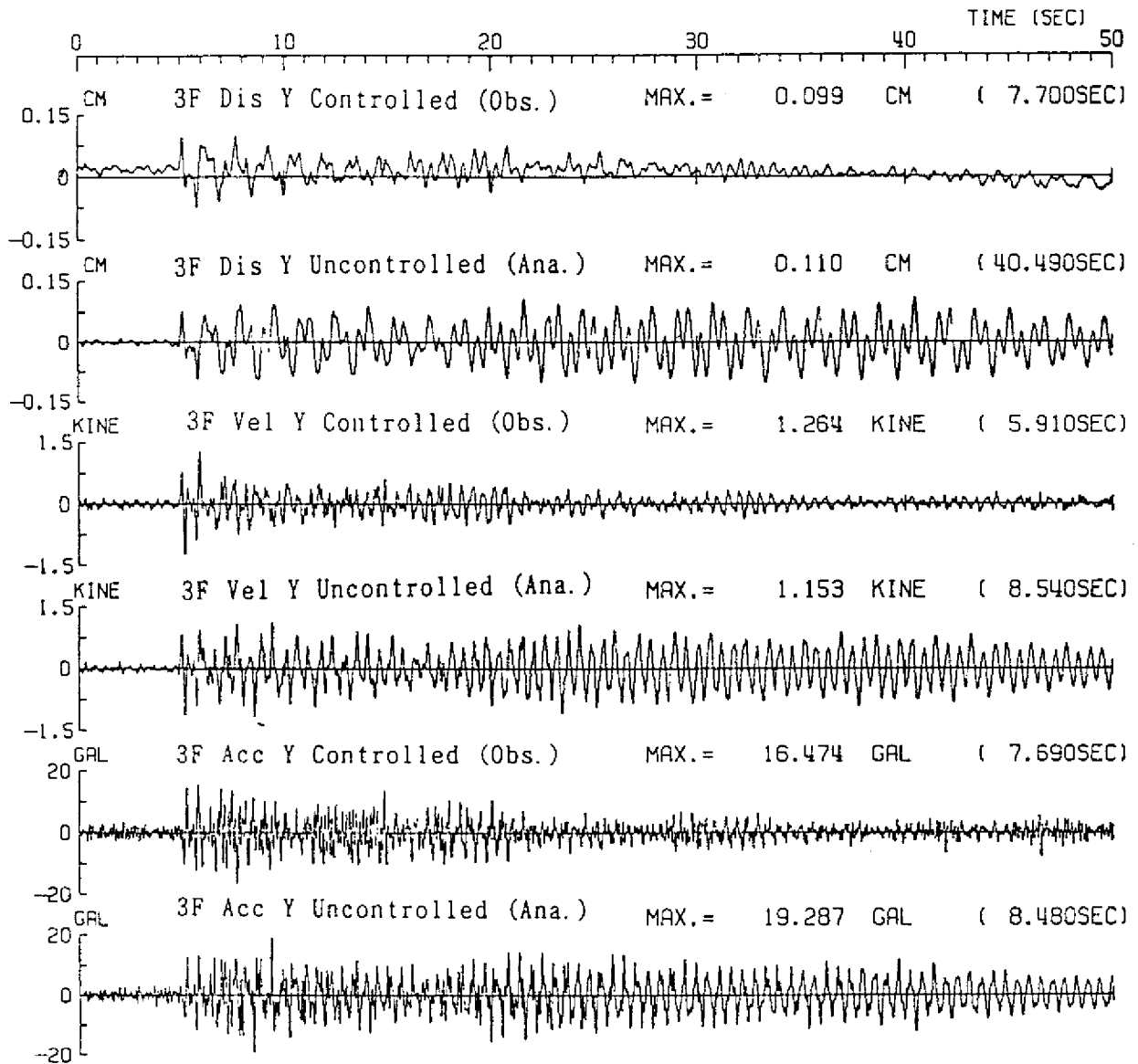
## 2) Responses of 6th Floor in Y-Direction



### 3) Responses of 3rd Floor in X-Direction

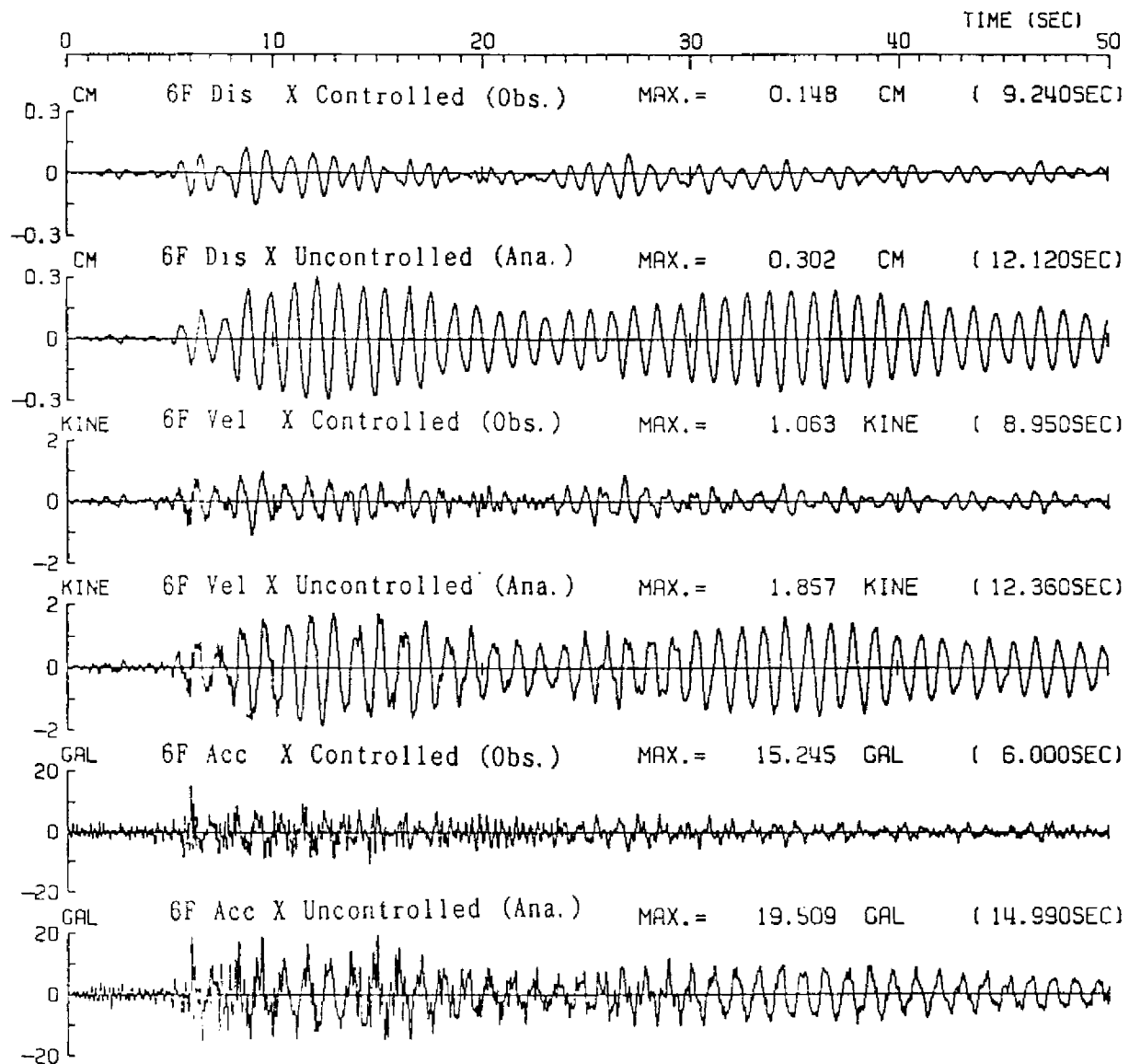


#### 4) Responses of 3rd Floor in Y-Direction

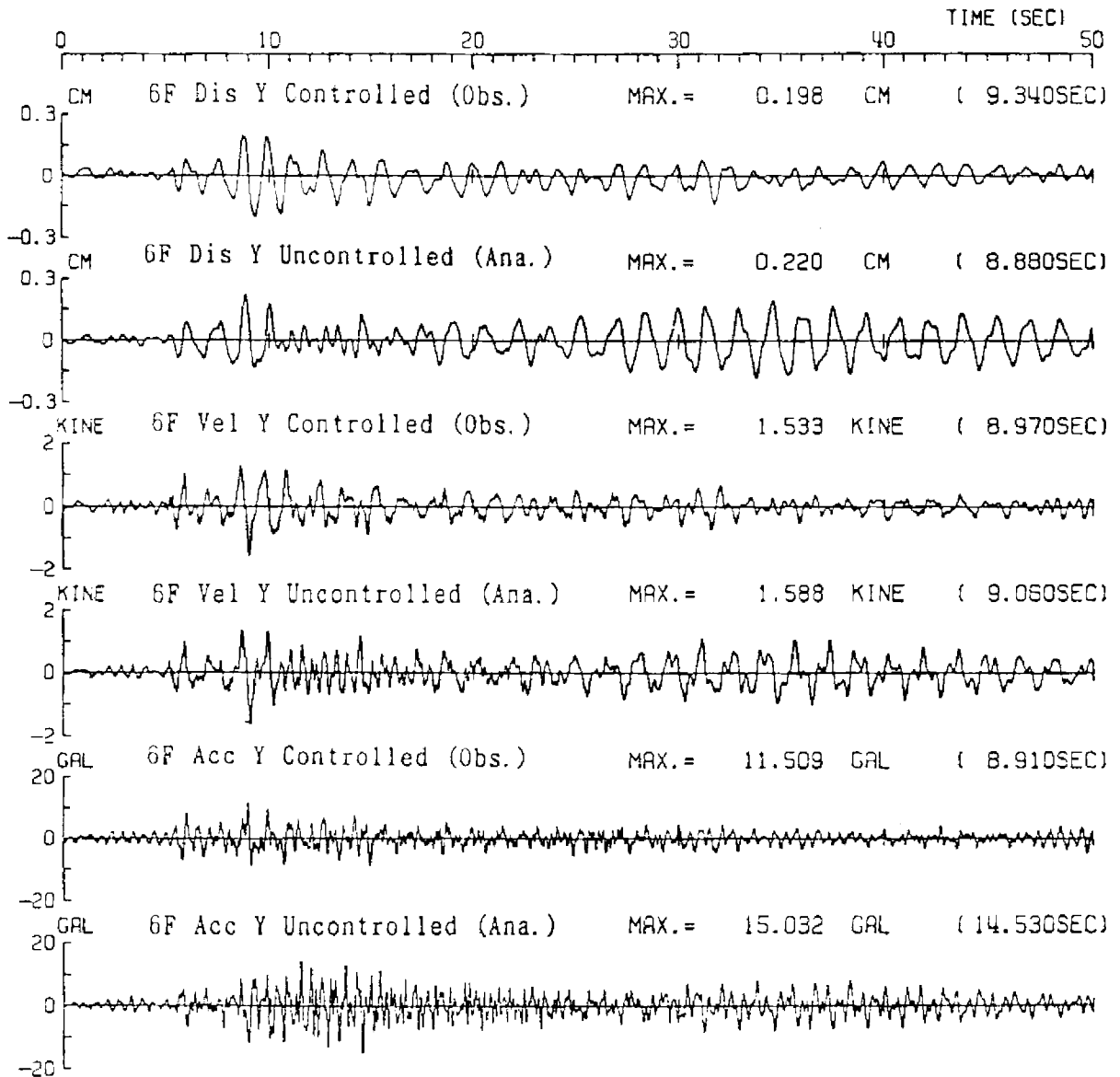


## 2. Earthquake on April 14, 1992:

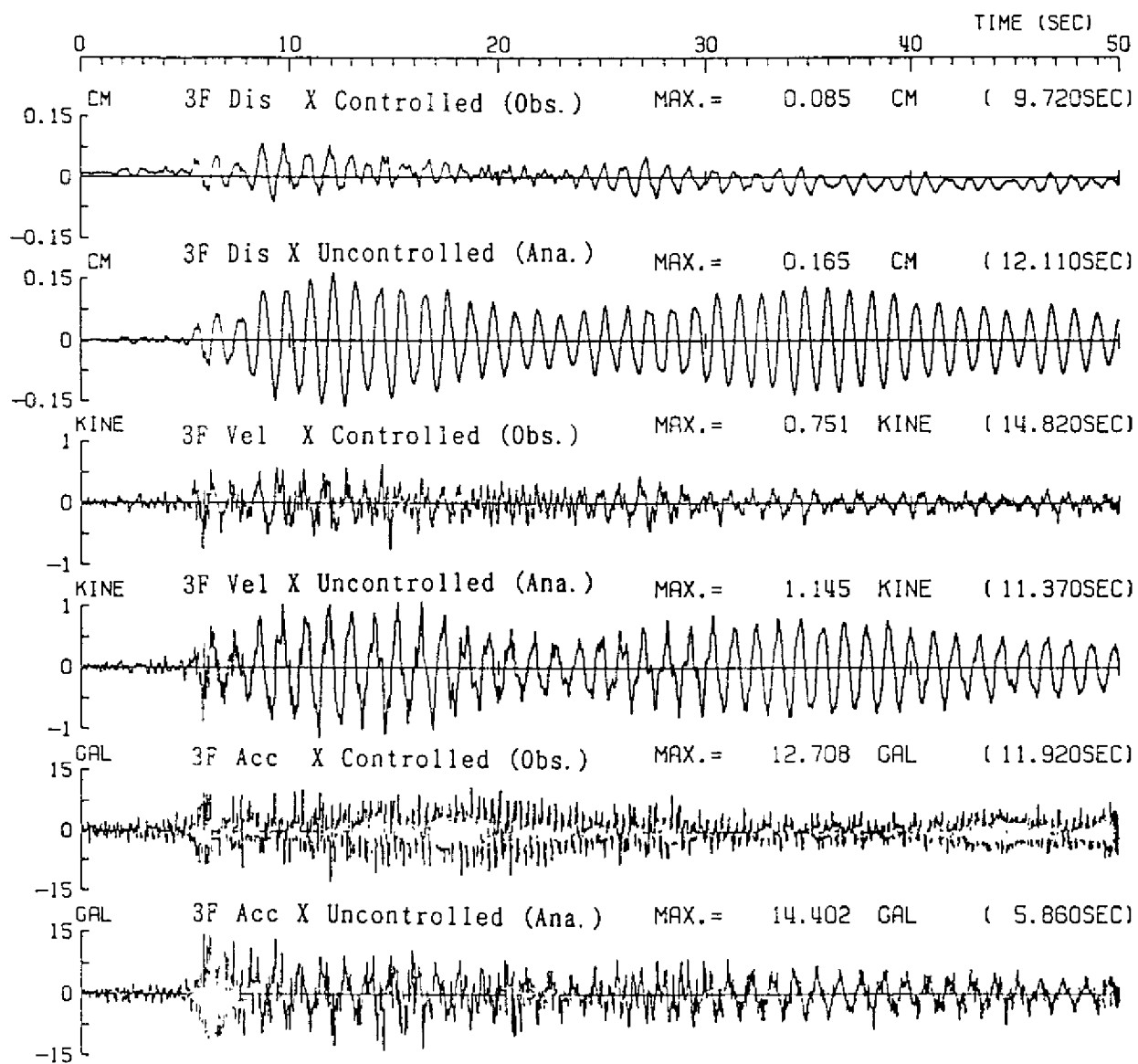
### 1) Response of 6th Floor in X-Direction



## 2) Response of 6th Floor in Y-Direction

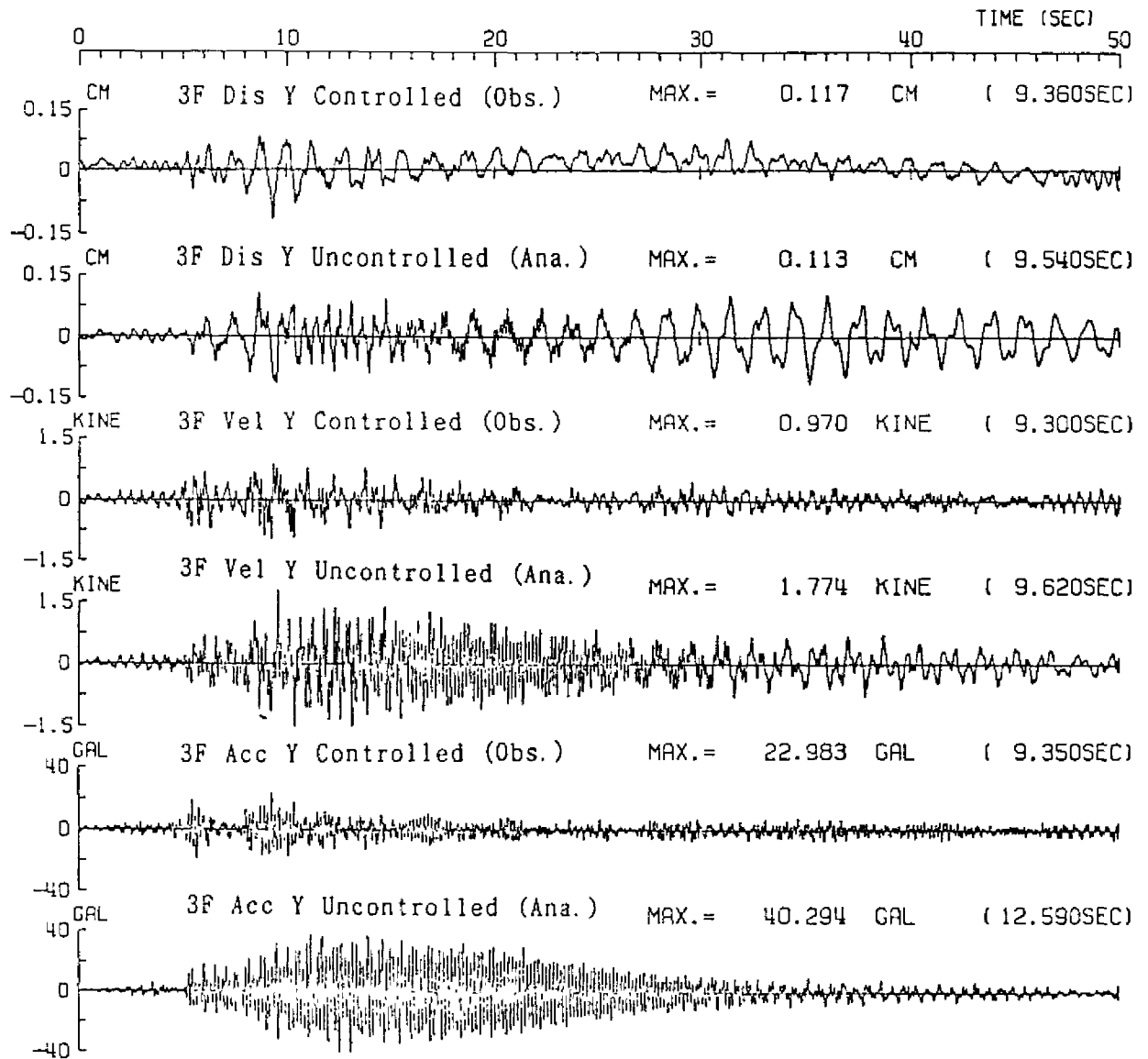


### 3) Responses of 3rd Floor in X-Direction



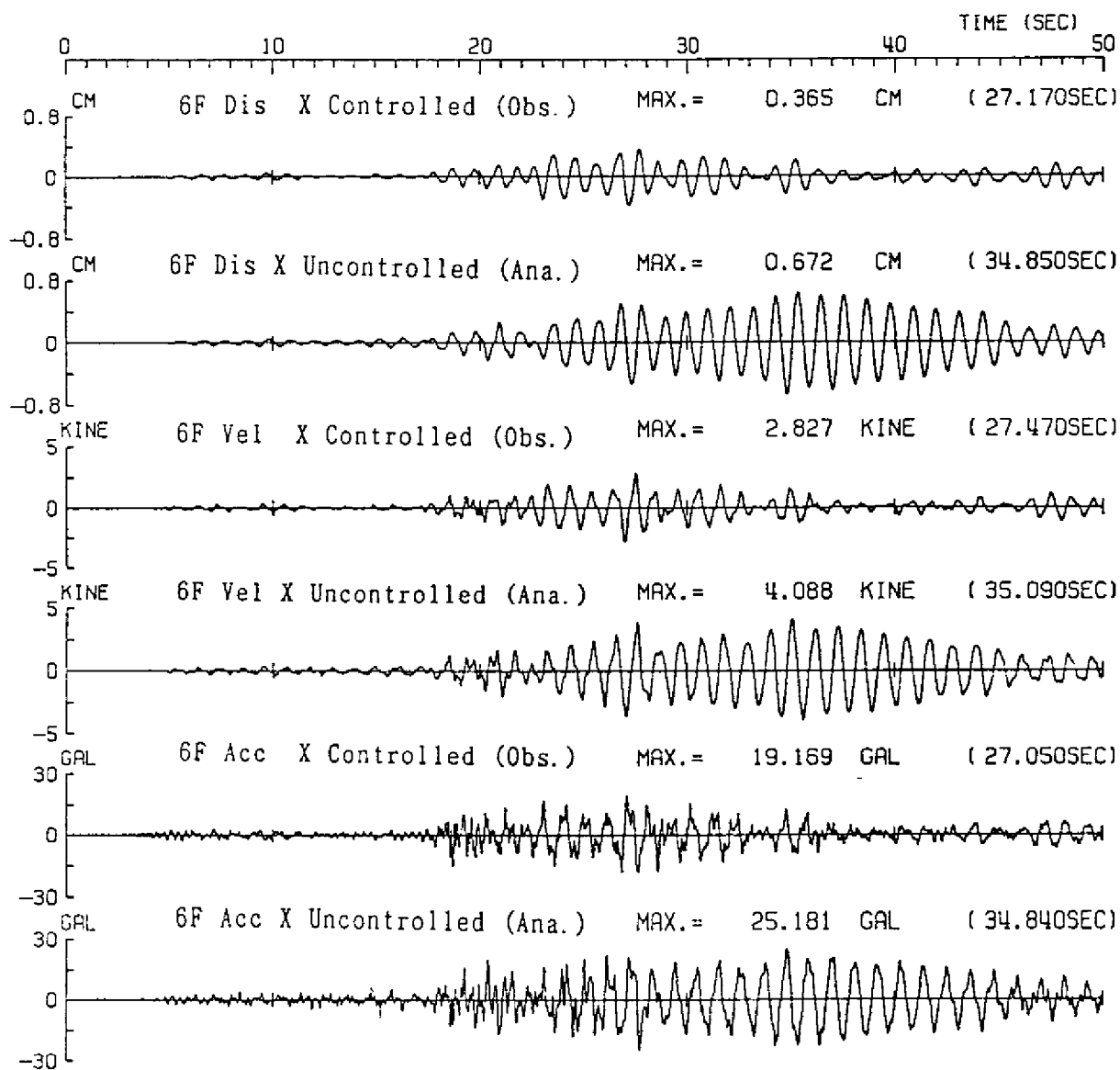


#### 4) Response of 3rd Floor in Y-Direction

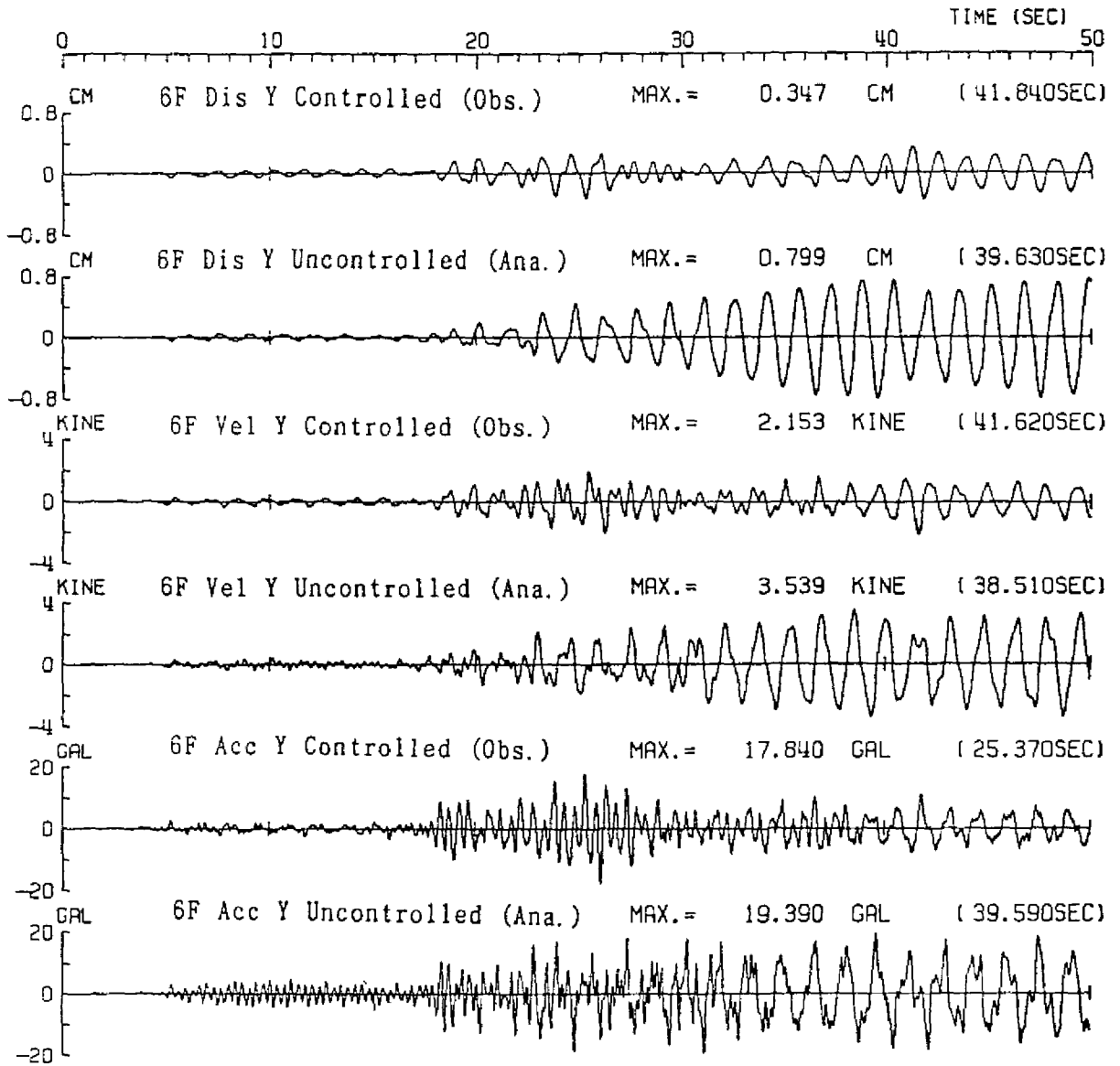


### 3. Earthquake on May 11, 1992:

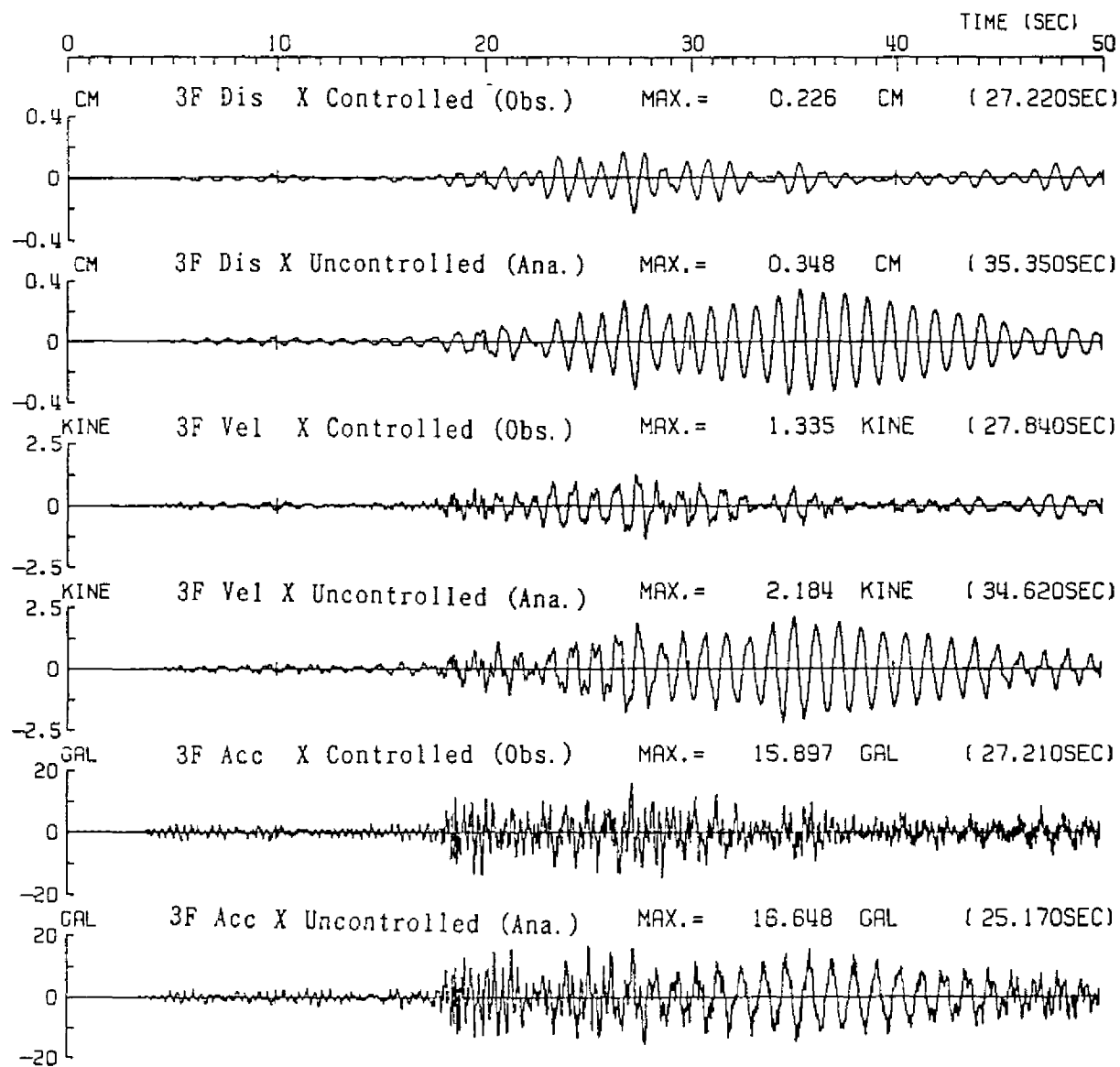
#### 1) Response of 6th Floor in X-Direction



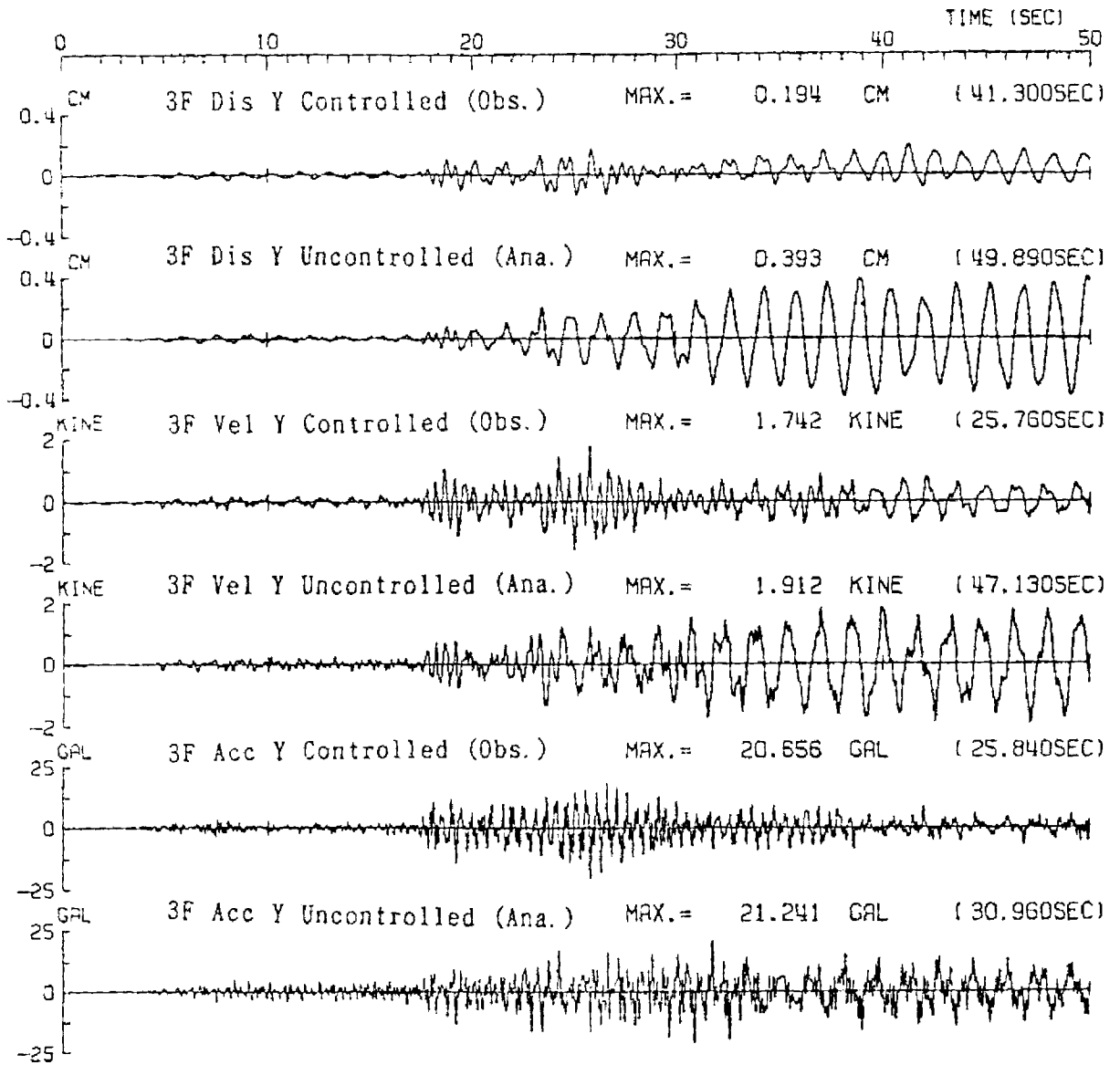
## 2) Response of 6th Floor in Y-Direction



### 3) Responses of 3rd Floor in X-Direction



#### 4) Response of 3rd Floor in Y-Direction



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