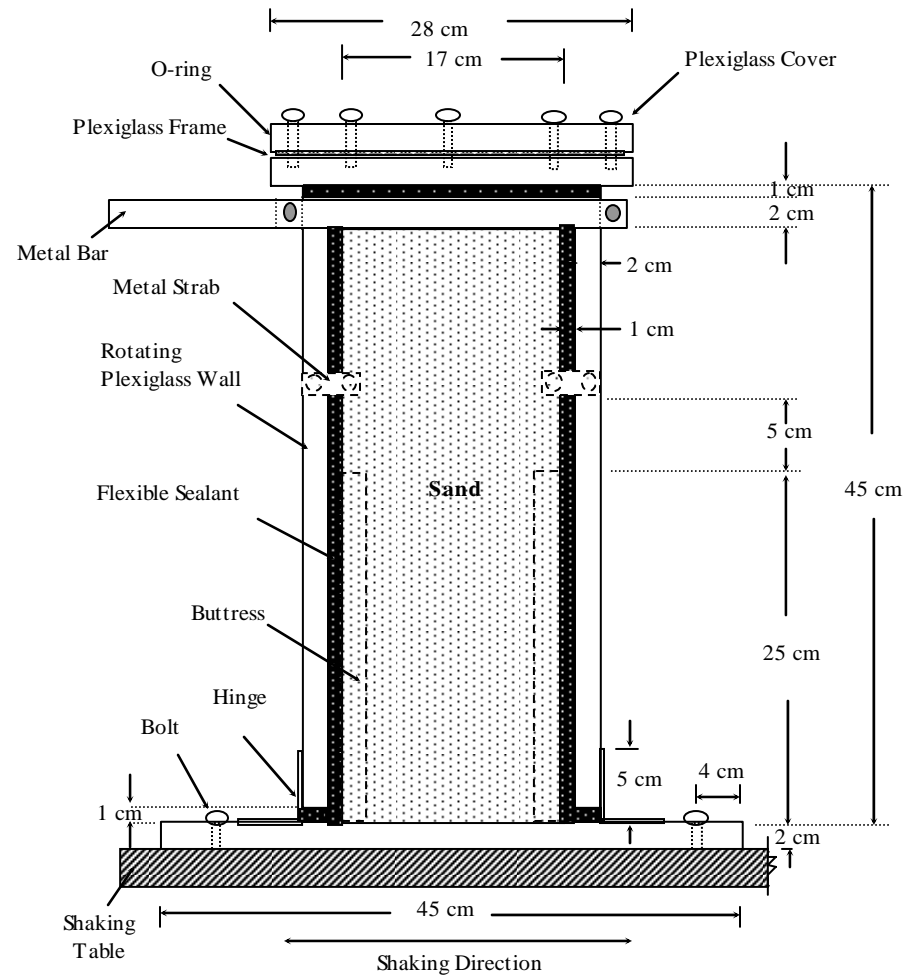


# Design and Analysis of New Cyclic Simple Shear Liquefaction Box (CSSLB)

NSF Project: Liquefaction  
Mitigation Using Entrapped Air  
(Award #:CMS-0509894)

# CSSLB Design Drawings

Elevation View 1 (Shaking Direction)

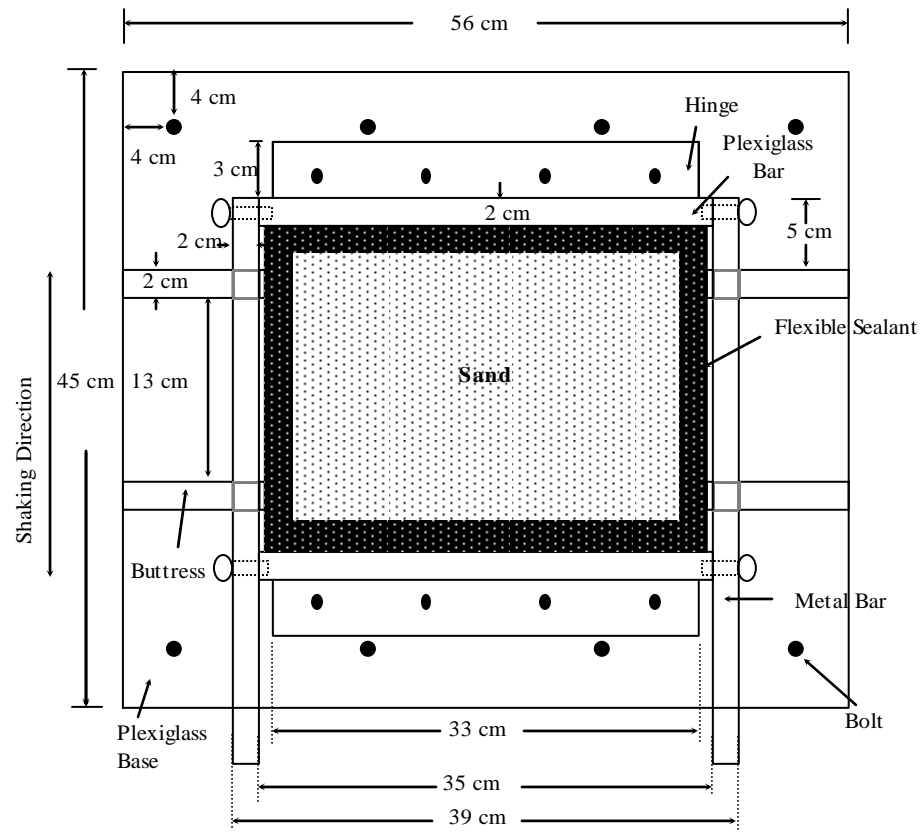






# CSSLB Design Drawings

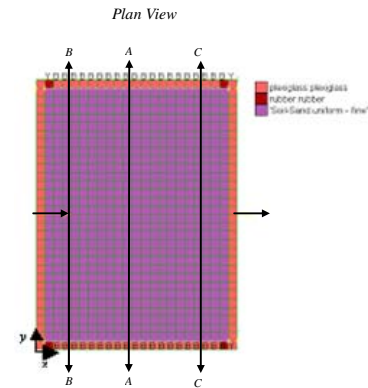
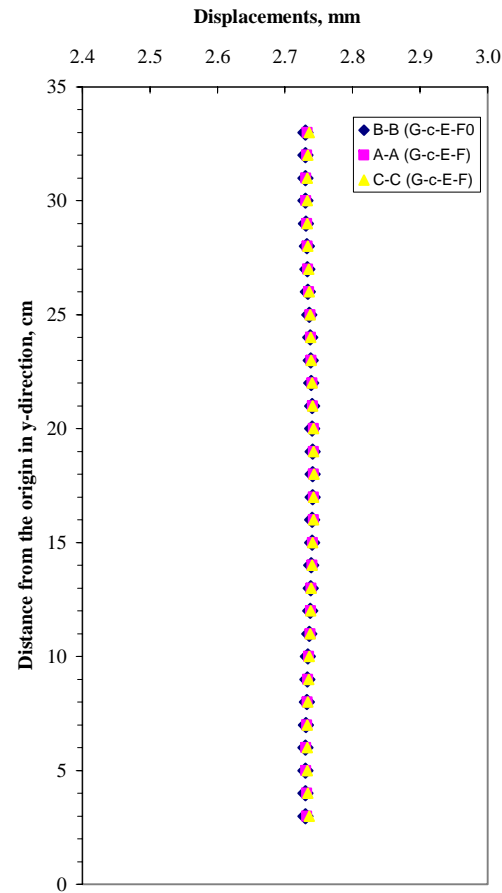
Plan View (B-B Section)



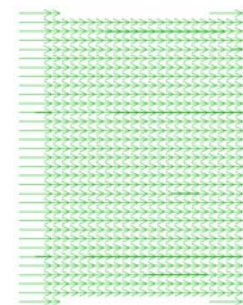


# CSSLB Model Analysis

**Plan Model**  
**X-Displacements @ A-A, B-B, C-C Soil Sections**

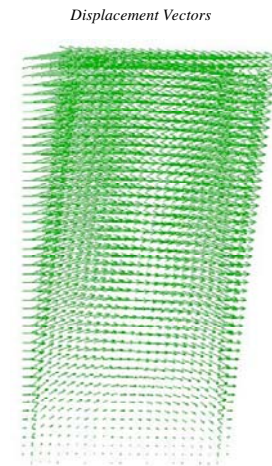
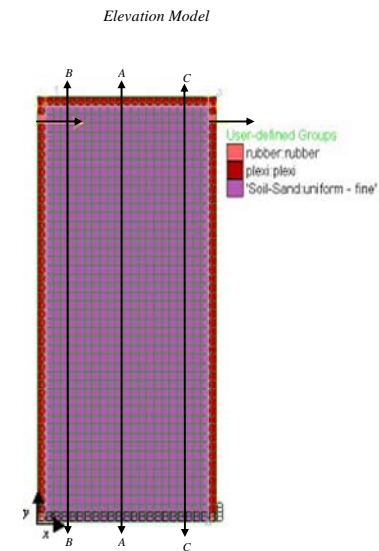
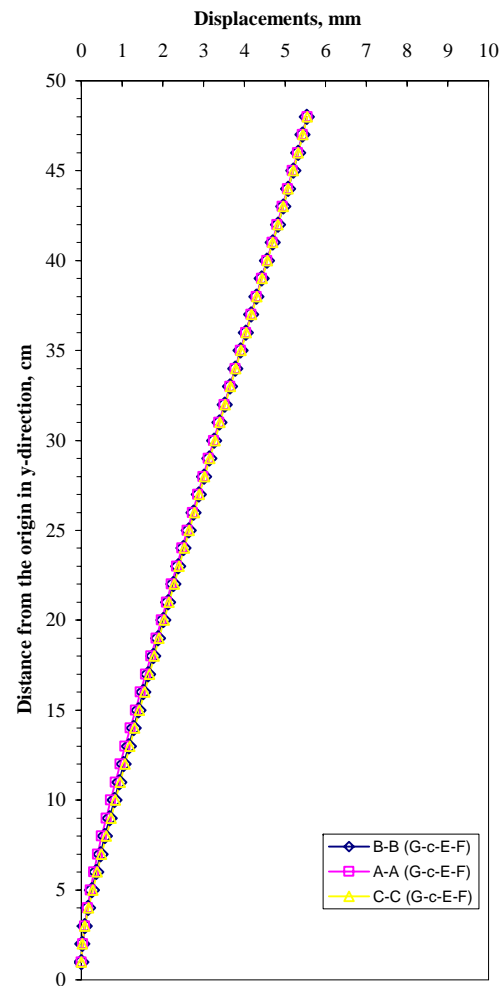


Displacement Vectors



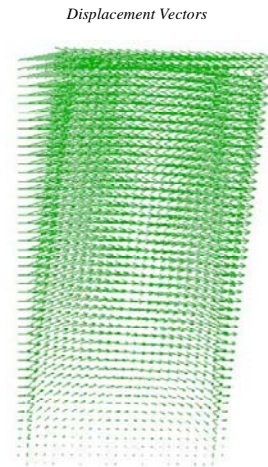
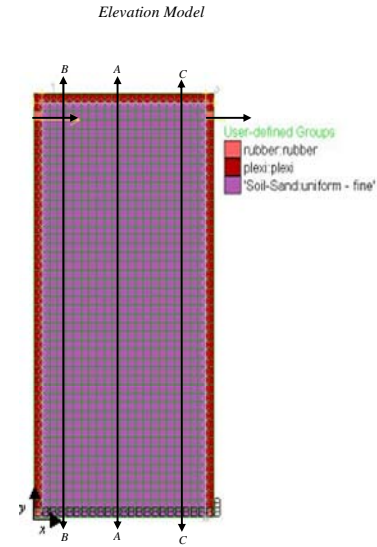
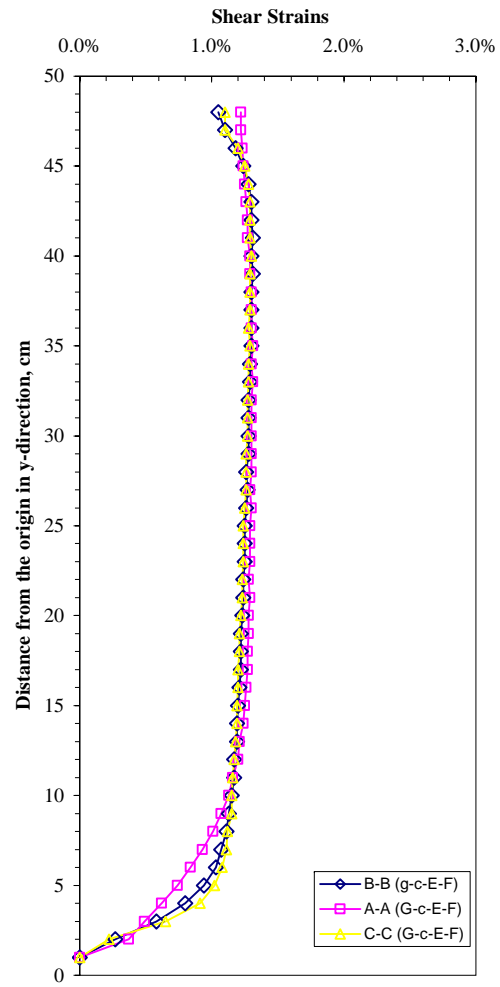
# CSSLB Model Analysis

**Elevation Model**  
**X-Displacements @A-A, B-B, C-C Soil Sections**  
( Soil Surface Covered )



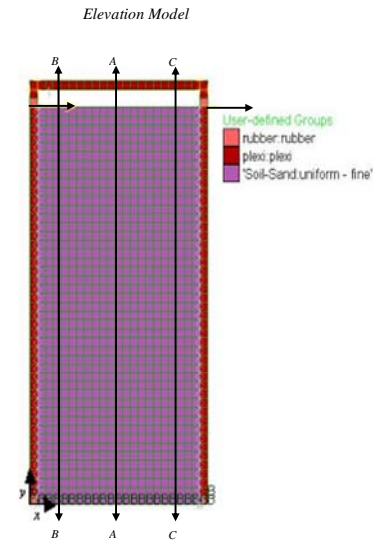
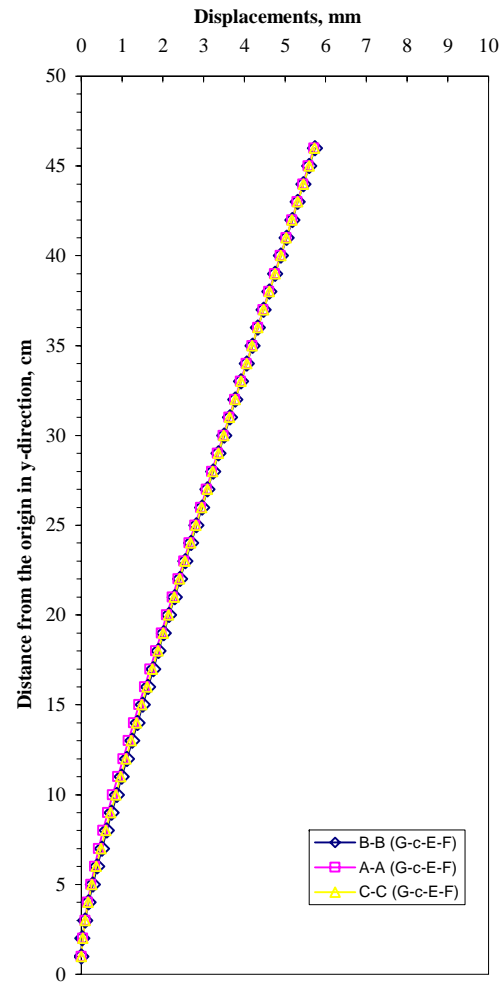
# CSSLB Model Analysis

**Elevation Model**  
**Shear Strains @A-A, B-B, C-C Soil Sections**  
**(Soil Surface Covered)**

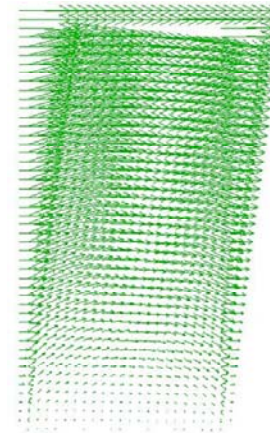


# CSSLB Model Analysis

Elevation Model  
X-Displacements @A-A, B-B, C-C Soil Sections  
( Free Surface )



Displacement Vectors



# CSSLB Model Analysis

**Elevation Model**  
**Shear Strains @A-A, B-B, C-C Soil Sections**  
**( Free Surface )**

