APPENDIX D

GEOPIV PLOTS OF MAXIMUM SHEAR STRAIN
D.1 Test-6 Residual Maximum Shear Strain

Figure D-1. Maximum shear strain within the reinforced soil region for Test-6, vertical wall reinforced at L/H = 0.6, by shaking steps: a) 0.1g, b) 0.2g, c) 0.3g, d) 0.4g.
D.2 Test-5 Residual Maximum Shear Strain

a) 0.1g

b) 0.2g

c) 0.3g

d) 0.4g
Figure D-2. Maximum shear strain within the reinforced soil region for Test-5, vertical wall reinforced at L/H = 0.9, by shaking steps: a) 0.1g, b) 0.2g, c) 0.3g, d) 0.4g, e) 0.5g, and f) 0.6g.

D.3 Test-5 Maximum Shear Strain developed during 0.7g shaking step
Figure D-3. Development of maximum shear strain within the reinforced soil region during 0.7g shaking step for Test-5, vertical wall reinforced at L/H = 0.9. Strains accumulated from the end of 0.6g shaking step to: a) 10 cycles (c), b) 20 cycles, c) 30 cycles, d) 40 cycles, and e) 50 cycles.
D.4  Test-7 Residual Maximum Shear Strain

a) 0.1g

b) 0.2g

c) 0.3g

d) 0.4g

e) 0.5g
Figure D-4. Maximum shear strain within the reinforced soil region for Test-7, wall reinforced at L/H = 0.9 and inclined at 70° to the horizontal, by shaking steps: a) 0.1g, b) 0.2g, c) 0.3g, d) 0.4g, e) 0.5g, and f) 0.6g.

D.5 Test-7 Maximum Shear Strain developed during 0.7g shaking step
Figure D-5. Development of maximum shear strain within the reinforced soil region during 0.7g shaking step for Test-7, wall inclined at 70° to the horizontal and reinforced L/H = 0.75. Strains accumulated from the end of 0.6g shaking step to: a) 10 cycles (c), b) 20 cycles, c) 30 cycles, d) 40 cycles, and e) 50 cycles.