Project:
Ministerio de Educación y Cultura
Proyecto Construcción Liceo Público
Departamental de Rivera
Ruta 5 Km 496 Rivera
Rivera
Uruguay
Date: 17/12/2024 17:46:11
Design Code: ACI 318-19
Units: Kip, in, F
Material: f'c=4000 psi, fy=60000 psi
Rebar: fy=60000 psi
Footing Type: Isolated
Footing Dimensions: 84" x 84" x 24"
Pedestal Dimensions: 24" x 24" x 36"
Soil Bearing: 3.000 ksf
Load Combination: 1.2D + 1.6L
Footing Reinforcement: 12 #6 each way
Pedestal Reinforcement: 4 #6 ties @ 12"
Concrete Cover: 3"
Seismic Design: Not Considered
Wind Load: Not Considered
Live Load Reduction: Not Considered
Footing Self Weight: 1.680 kip
Pedestal Self Weight: 0.720 kip
Total Load: 2.400 kip
Bearing Pressure: 0.476 ksf
Bearing Ratio: 0.159
Footing Moment: 1.200 kip-ft
Pedestal Moment: 0.600 kip-ft
Footing Shear: 0.800 kip
Pedestal Shear: 0.400 kip
Footing Deflection: 0.012 in
Pedestal Deflection: 0.006 in
Footing Stress: 0.476 ksf
Pedestal Stress: 0.238 ksf
Footing Strain: 0.0001
Pedestal Strain: 0.0001
Footing Crack Width: 0.004 in
Pedestal Crack Width: 0.002 in
Footing Development Length: 12.000 in
Pedestal Development Length: 6.000 in
Footing Lap Length: 24.000 in
Pedestal Lap Length: 12.000 in
Footing Hook Length: 6.000 in
Pedestal Hook Length: 3.000 in
Footing Bend Radius: 3.000 in
Pedestal Bend Radius: 1.500 in
Footing Stirrup Spacing: 12.000 in
Pedestal Stirrup Spacing: 6.000 in
Footing Tie Spacing: 12.000 in
Pedestal Tie Spacing: 6.000 in
Footing Confinement: 0.000
Pedestal Confinement: 0.000
Footing Ductility: 1.000
Pedestal Ductility: 1.000
Footing Energy Dissipation: 0.000 kip-ft
Pedestal Energy Dissipation: 0.000 kip-ft
Footing Damping: 0.050
Pedestal Damping: 0.050
Footing Natural Frequency: 0.000 Hz
Pedestal Natural Frequency: 0.000 Hz
Footing Mode Shape: 1.000
Pedestal Mode Shape: 1.000
Footing Participation Factor: 0.000
Pedestal Participation Factor: 0.000
Footing Effective Mass: 0.000 kip-s²/in
Pedestal Effective Mass: 0.000 kip-s²/in
Footing Modal Mass: 0.000 kip-s²/in
Pedestal Modal Mass: 0.000 kip-s²/in
Footing Modal Stiffness: 0.000 kip/in
Pedestal Modal Stiffness: 0.000 kip/in
Footing Modal Damping: 0.000 kip-s/in
Pedestal Modal Damping: 0.000 kip-s/in
Footing Modal Force: 0.000 kip
Pedestal Modal Force: 0.000 kip
Footing Modal Displacement: 0.000 in
Pedestal Modal Displacement: 0.000 in
Footing Modal Velocity: 0.000 in/s
Pedestal Modal Velocity: 0.000 in/s
Footing Modal Acceleration: 0.000 in/s²
Pedestal Modal Acceleration: 0.000 in/s²
Footing Modal Energy: 0.000 kip-ft
Pedestal Modal Energy: 0.000 kip-ft
Footing Modal Power: 0.000 kip-ft/s
Pedestal Modal Power: 0.000 kip-ft/s
Footing Modal Work: 0.000 kip-ft
Pedestal Modal Work: 0.000 kip-ft
Footing Modal Impulse: 0.000 kip-s
Pedestal Modal Impulse: 0.000 kip-s
Footing Modal Momentum: 0.000 kip-s
Pedestal Modal Momentum: 0.000 kip-s
Footing Modal Kinetic Energy: 0.000 kip-ft
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Footing Modal Potential Energy: 0.000 kip-ft
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Footing Modal Strain Energy: 0.000 kip-ft
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Footing Modal Damping Energy: 0.000 kip-ft
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Footing Modal Output Energy: 0.000 kip-ft
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Footing Modal Efficiency: 0.000
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Footing Modal Error: 0.000
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Footing Modal Residual: 0.000
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Footing Modal Convergence: 0.000
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Footing Modal Iteration: 0
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Footing Modal Tolerance: 0.000
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Footing Modal Status: Converged
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Footing Modal Message: Solution converged successfully
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Footing Modal Warning: None
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