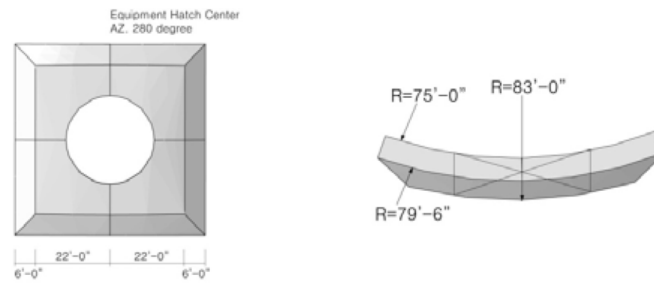
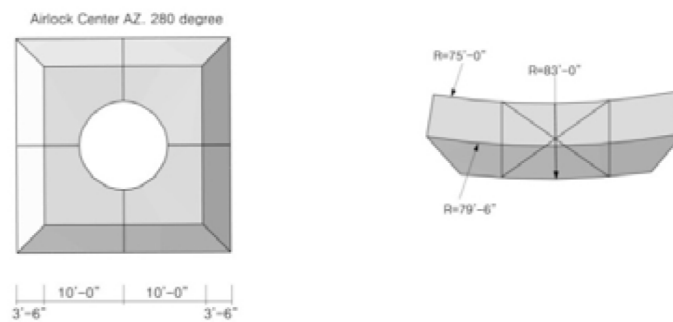


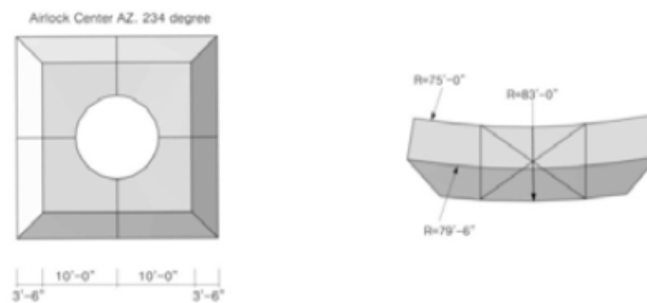
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Equipment Hatch (Az. 280°)



Personnel Airlock (Az. 280°)



Personnel Airlock (Az. 234°)

Figure 3.8A-1 Schematic View of Equipment Hatch and Personnel Airlocks

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Figure 3.8A-2 FE Full Model of Containment

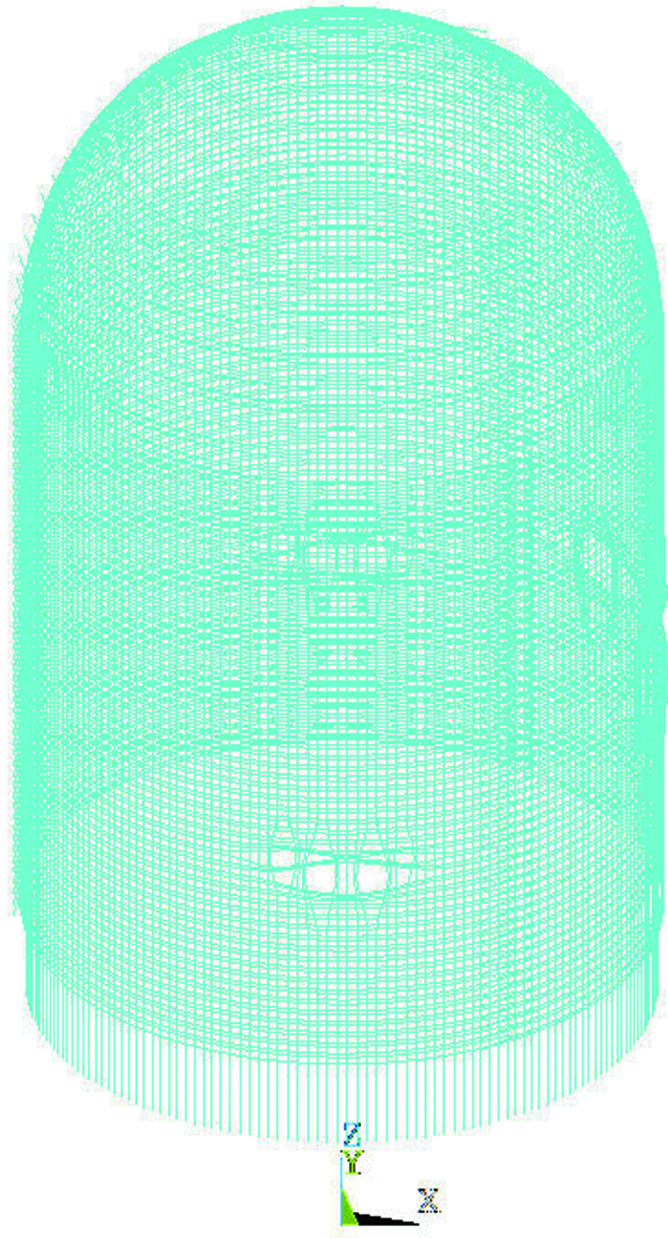
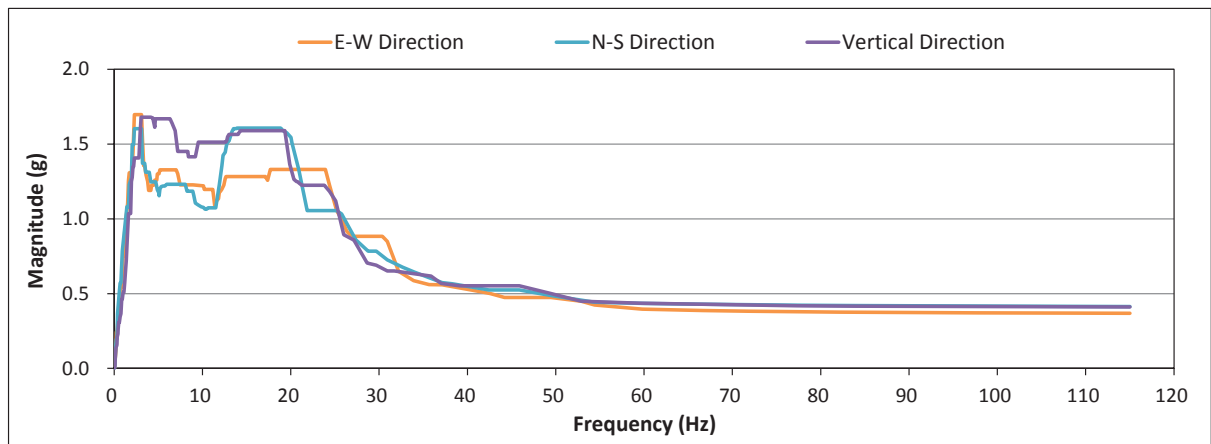


Figure 3.8A-3 Tendon Model Using Truss Elements

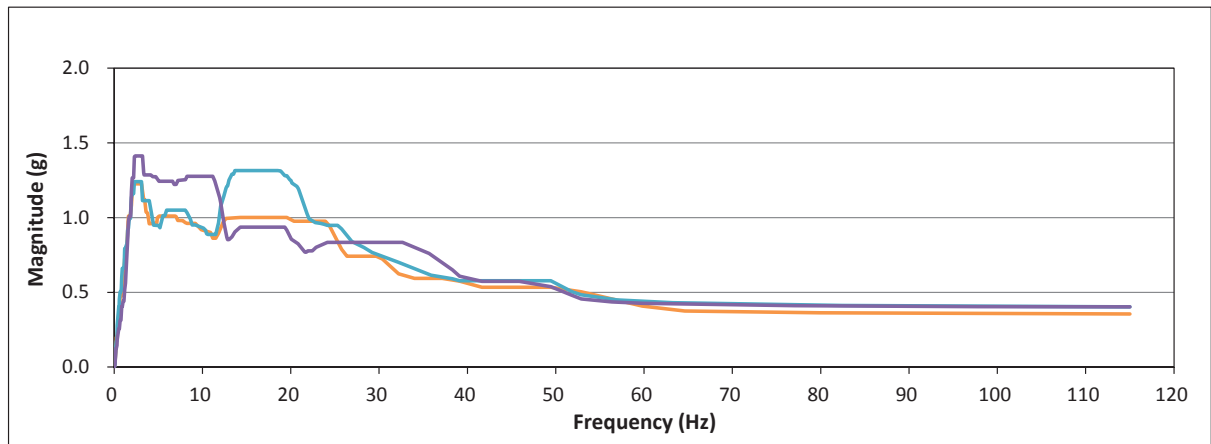
Security-Related Information – Withheld Under 10 CFR 2.390

Figure 3.8A-4 FE Partial Model of Containment

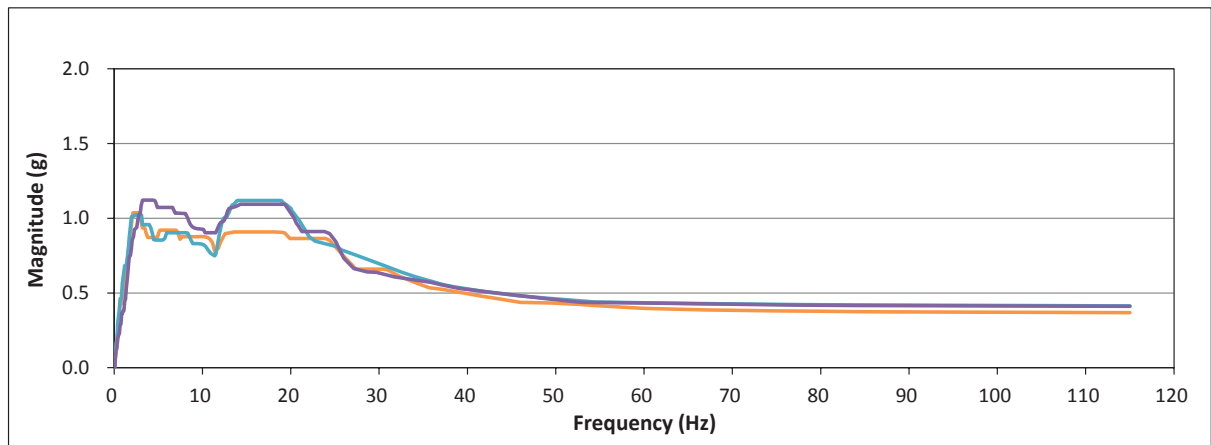
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(a) ISRS at Internal Structure EL 78'-0" (3% Damping)



(b) ISRS at Containment Wall EL 78'-0" (5% Damping)



(c) ISRS at Internal Structure EL 78'-0" (7% Damping)

Figure 3.8A-5 Input Acceleration Response Spectrum at EL. 78'-0" of RCB

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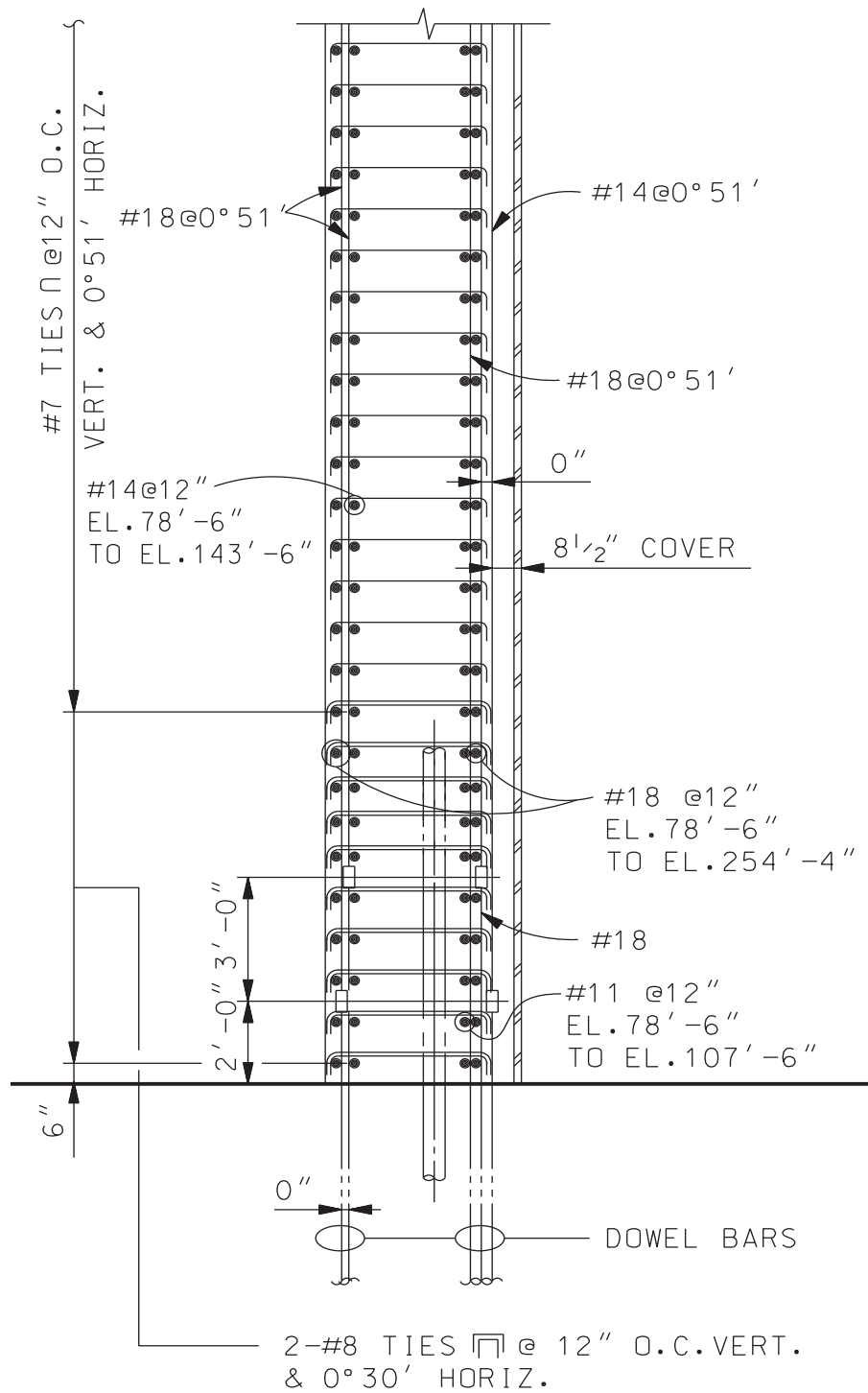


Figure 3.8A-6 Rebar Arrangement of Wall-Basemat Junction Area

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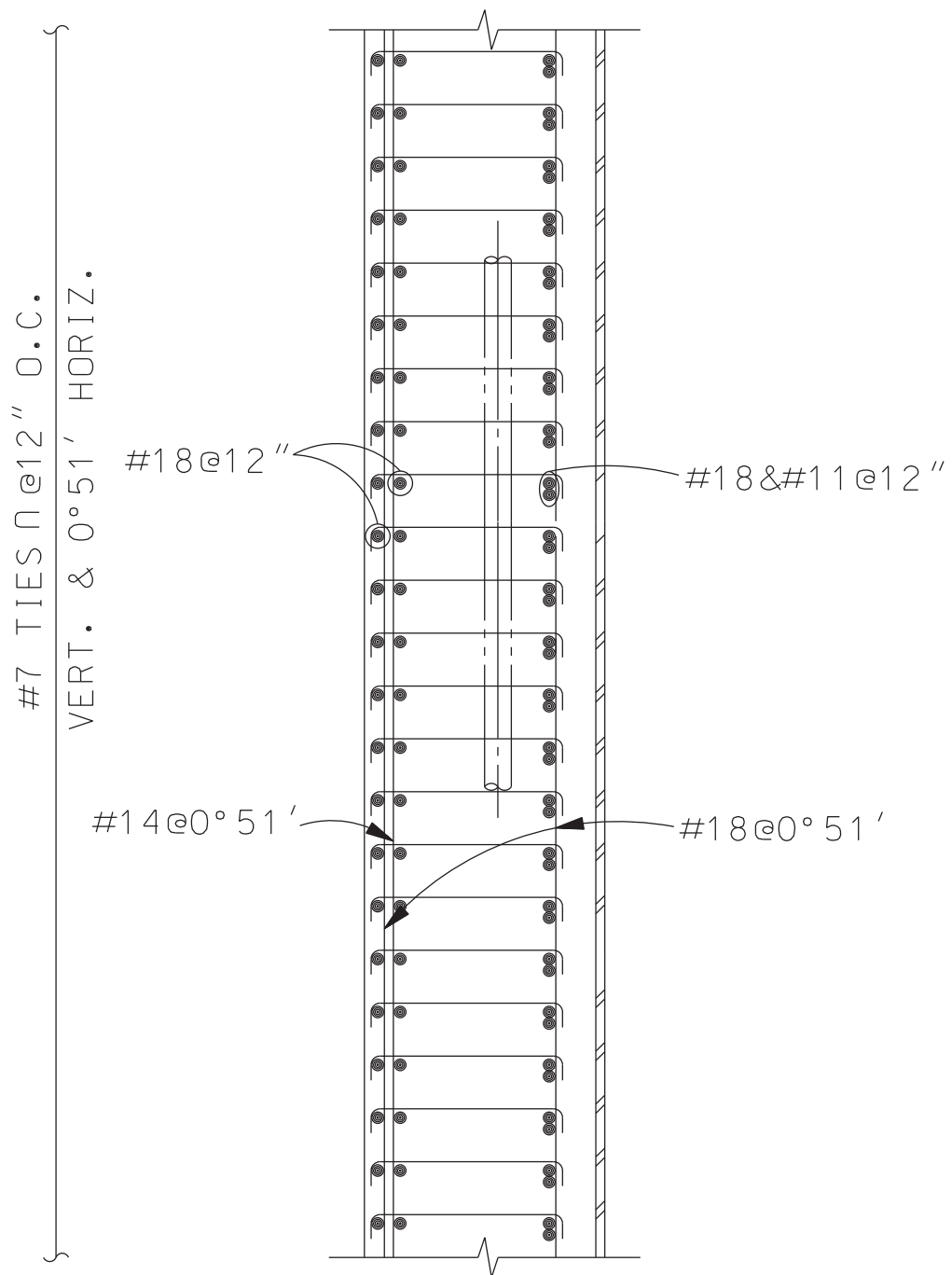


Figure 3.8A-7 Rebar Arrangement of Wall Mid-height

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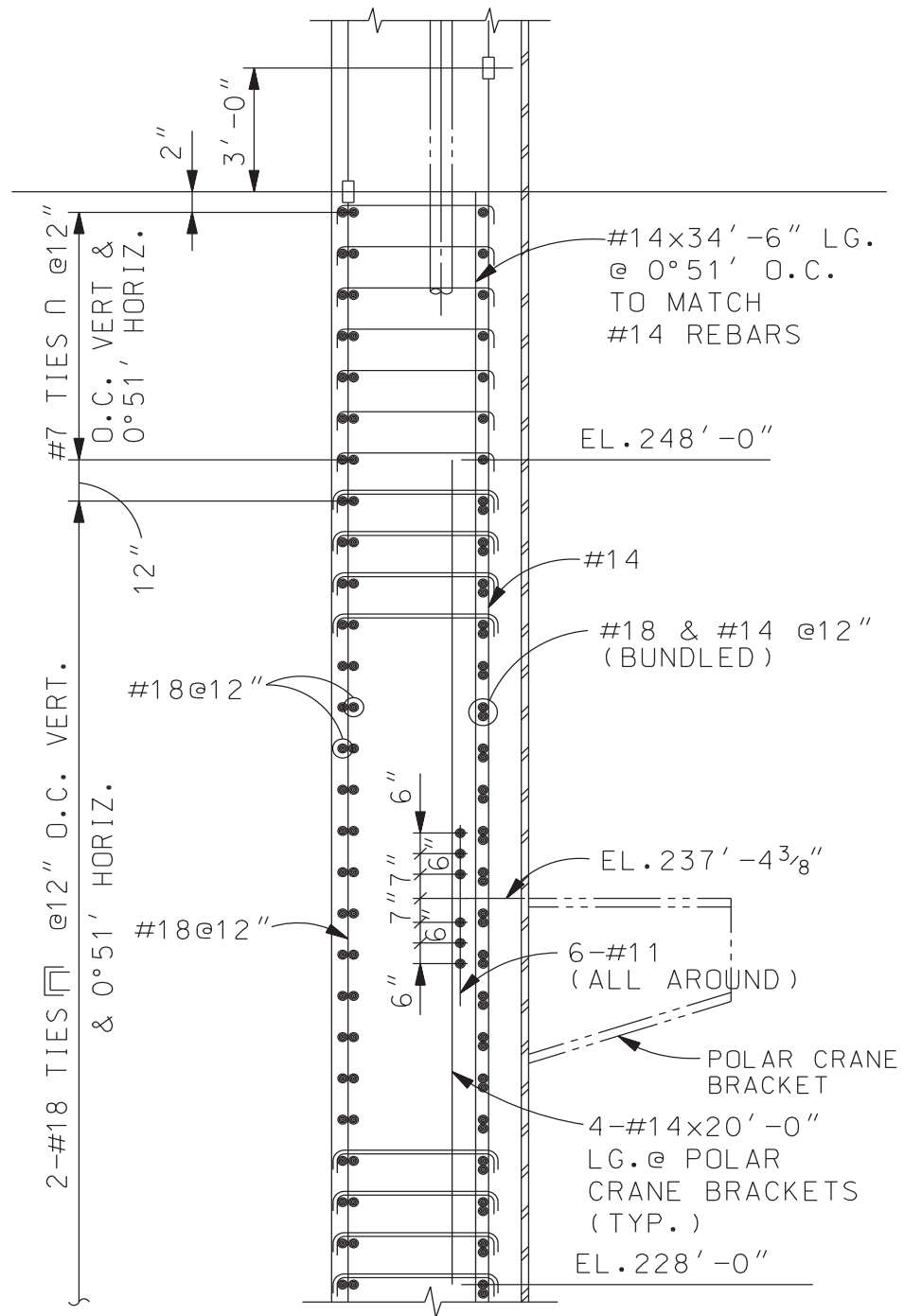


Figure 3.8A-8 Rebar Arrangement of Polar Crane Bracket Level and Springline

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Figure 3.8A-9 Rebar Arrangement of Wall Around Equipment Hatch

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Figure 3.8A-10 Rebar Arrangement of Wall Around Personnel Airlock

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Figure 3.8A-11 NI Basemat Plan View at El. 55'-0"

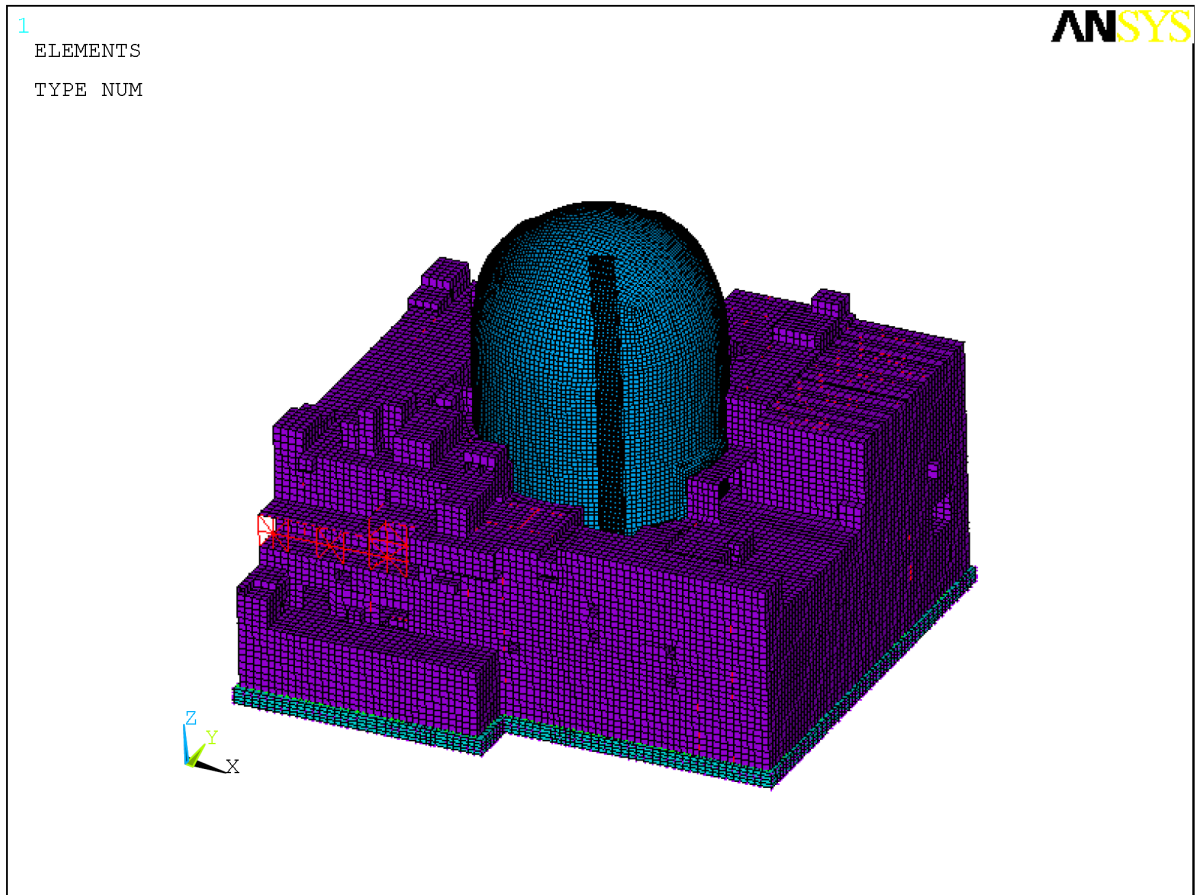
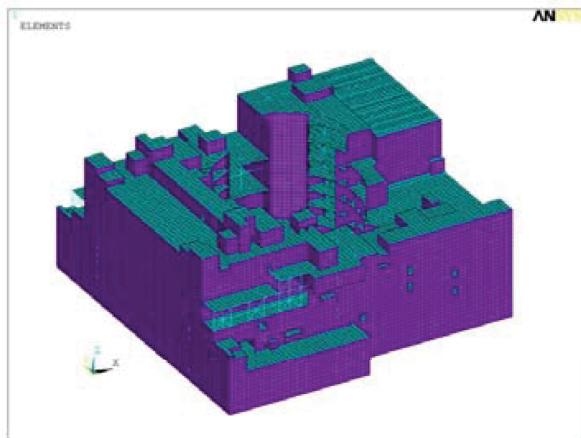


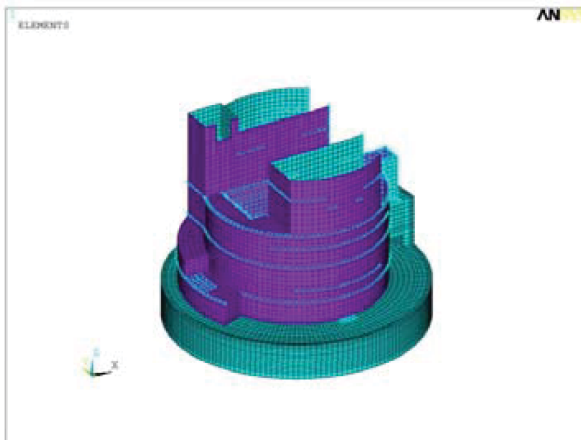
Figure 3.8A-12 Full FE Model for the Basemat Structural Analysis



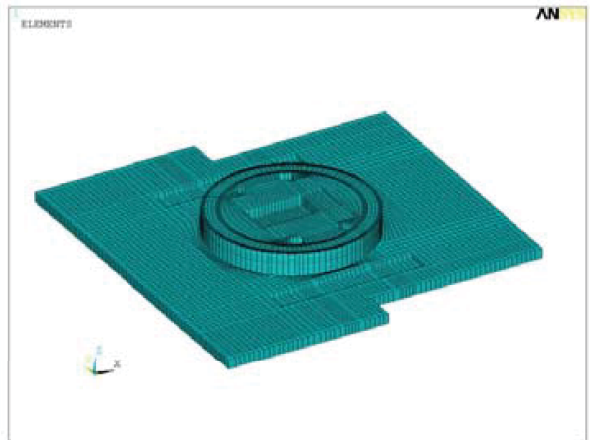
(a) AB Structure



(b) RCB Shell & Dome



(c) Internal Structure



(d) NI Common Basemat

Figure 3.8A-13 Model for AB, RCB Wall, Dome, Internal Structure and Basemat

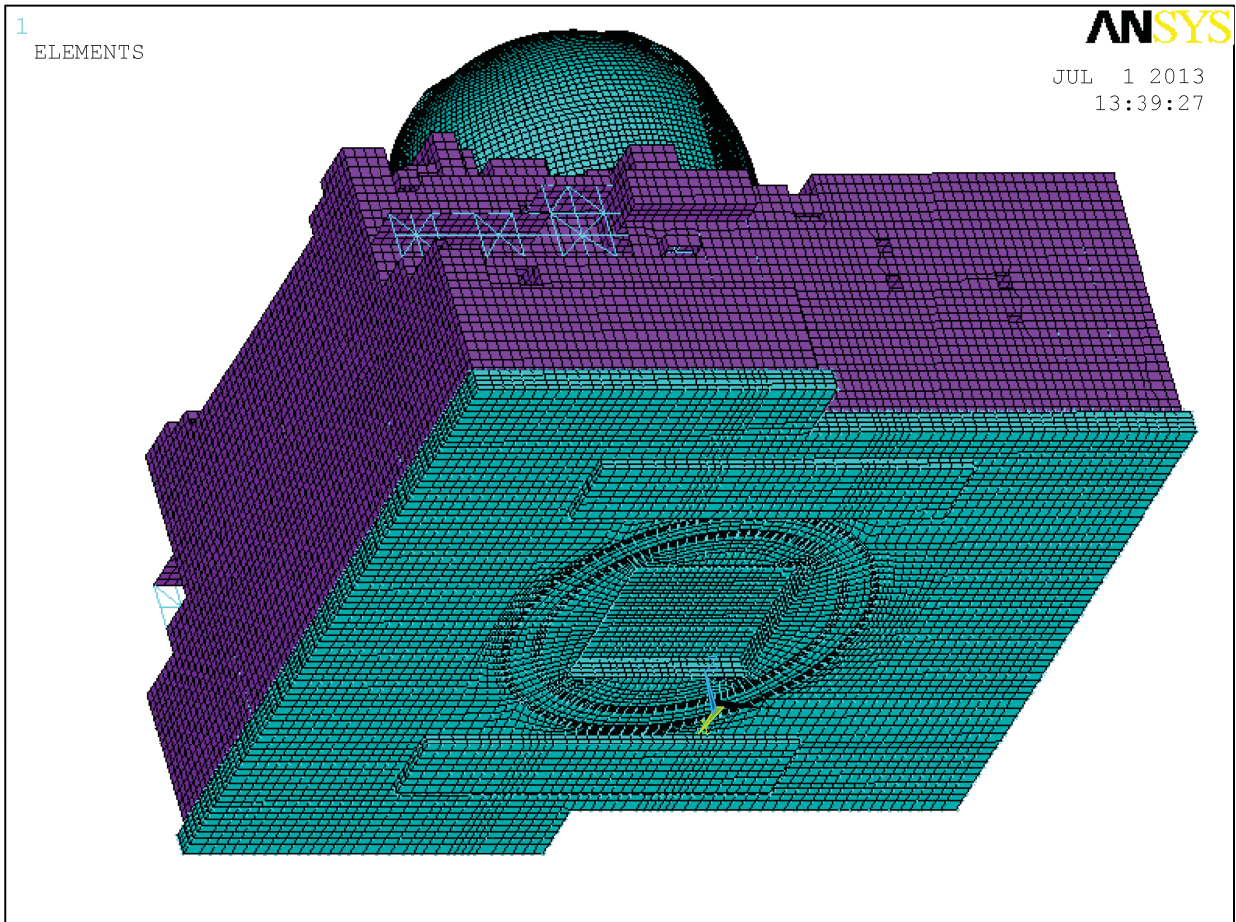
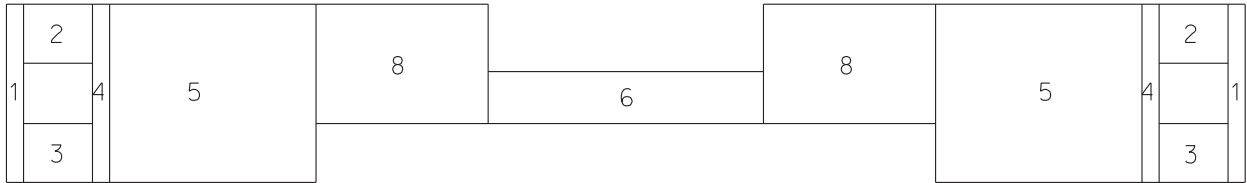
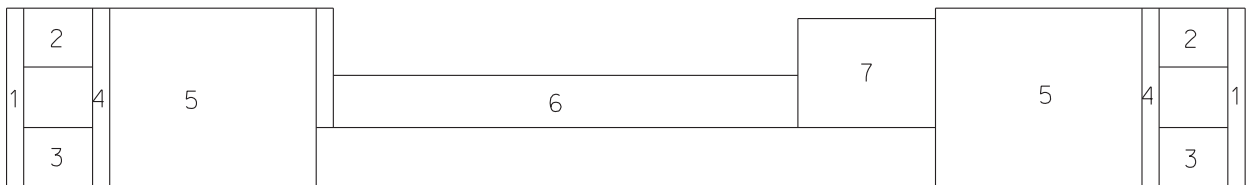


Figure 3.8A-14 LINK180 Element for Soil Spring

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(a) Basemat Cross-Section for E-W Direction



(b) Basemat Cross Section for N-S Direction

Figure 3.8A-15 Design Sections for Basemat Reinforcement

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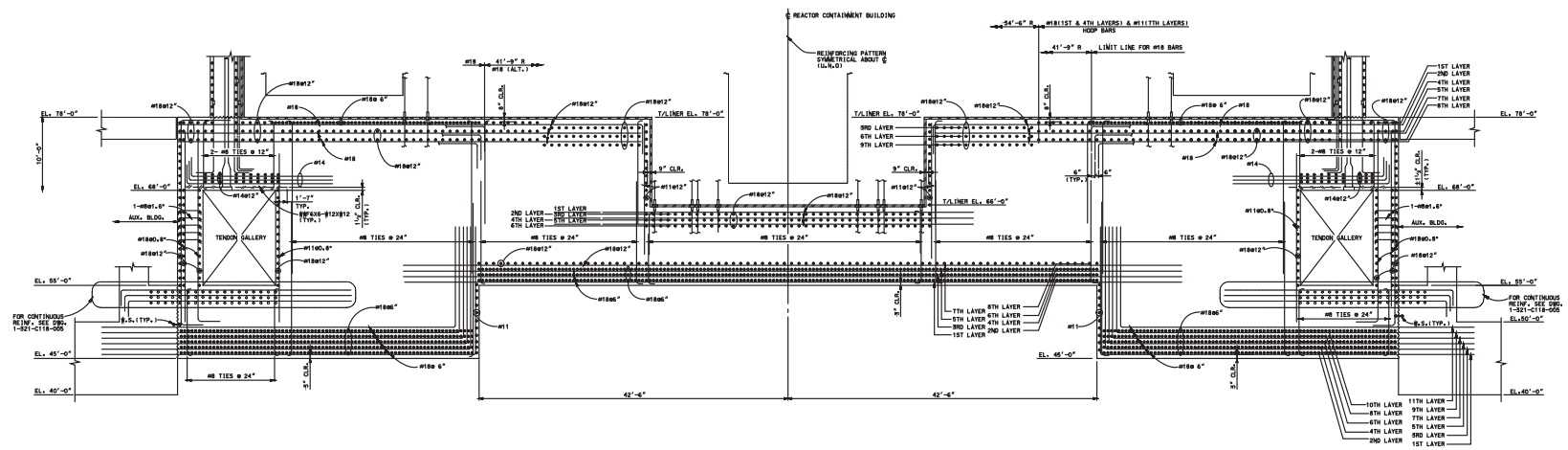


Figure 3.8A-16 Reinforcement Arrangement of RCB Basemat (East - West View)

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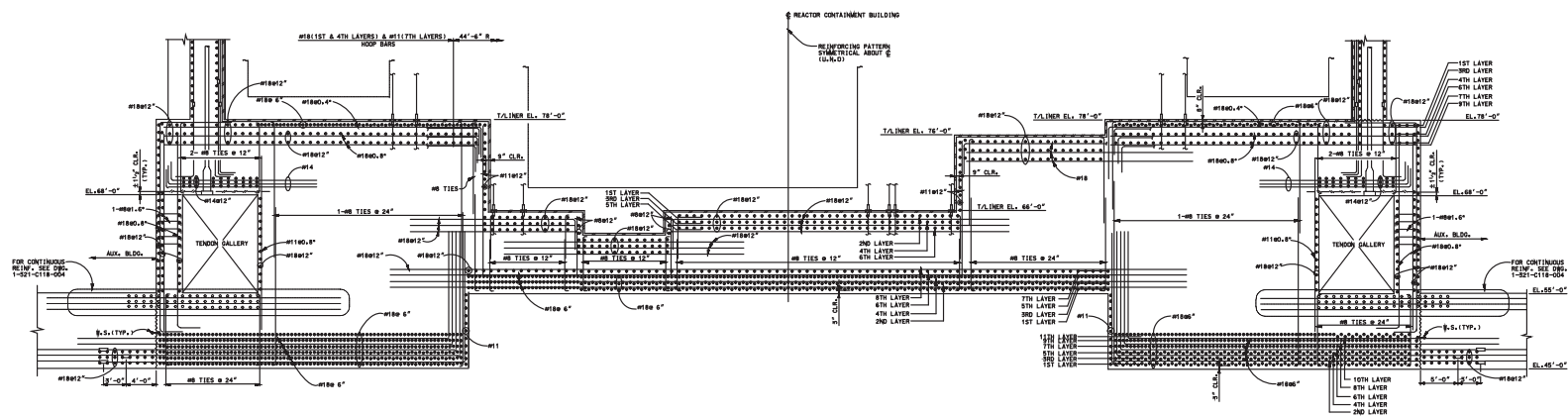


Figure 3.8A-17 Reinforcement Arrangement of RCB Basemat (South - North View)

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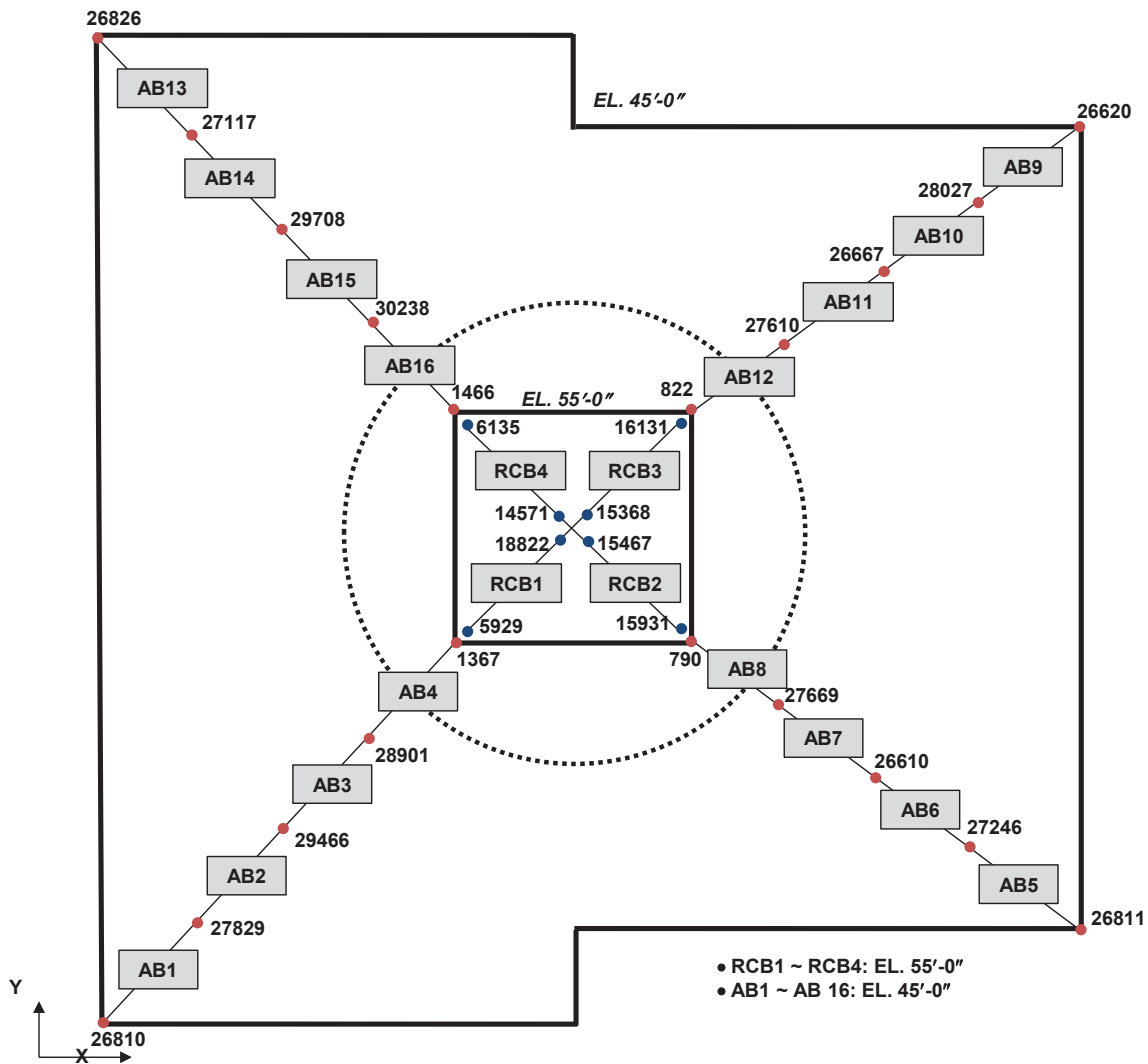
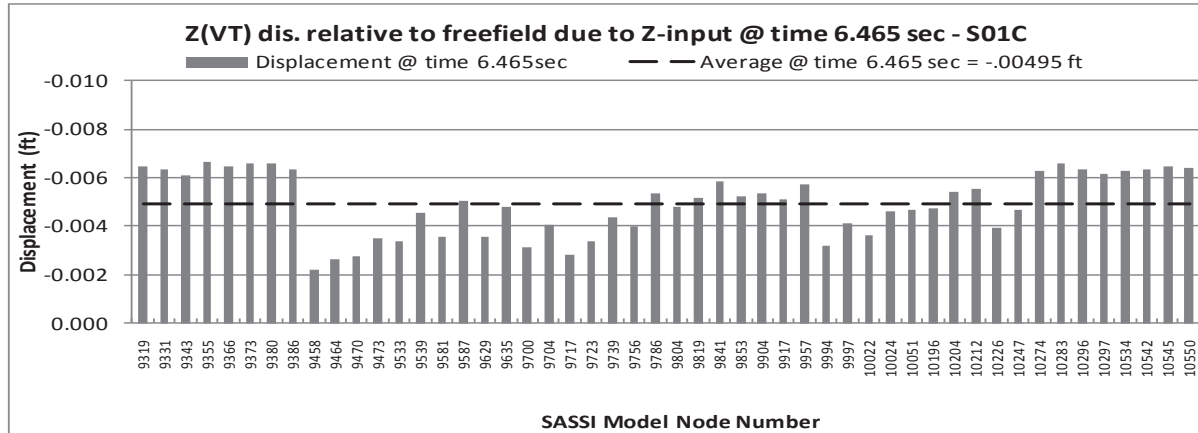


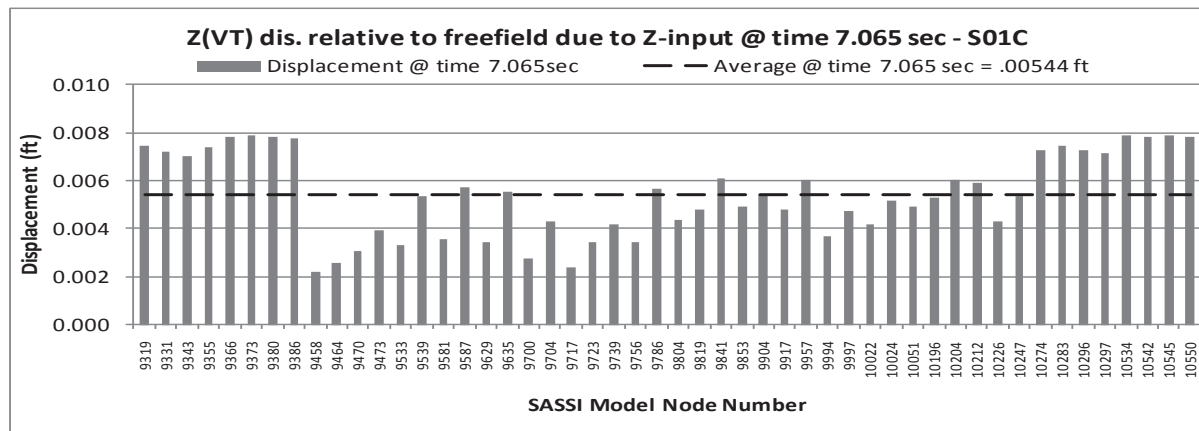
Figure 3.8A-18 Node Location at NI basemat for Checking Settlement (Static)

3.8A-98

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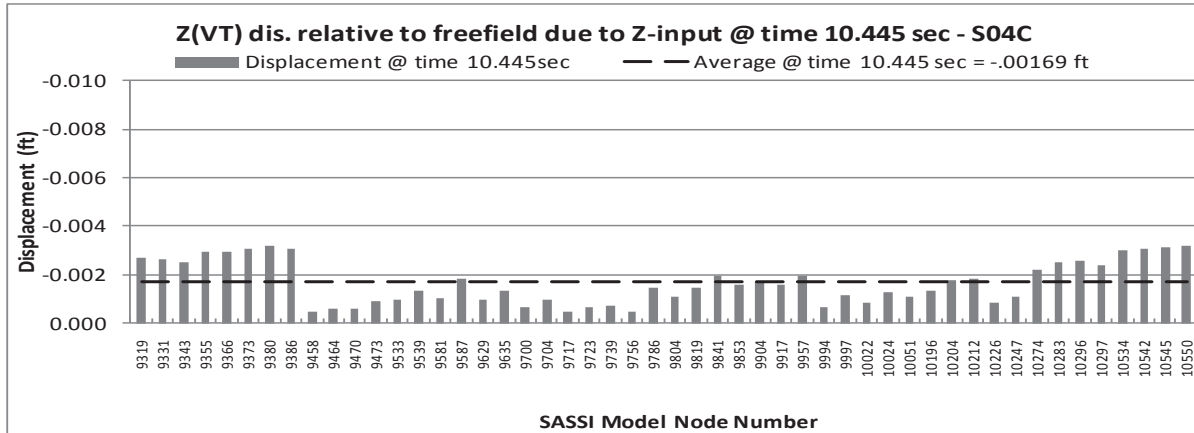
(a) Z-input @ time 6.465 sec (at time of minimum average)



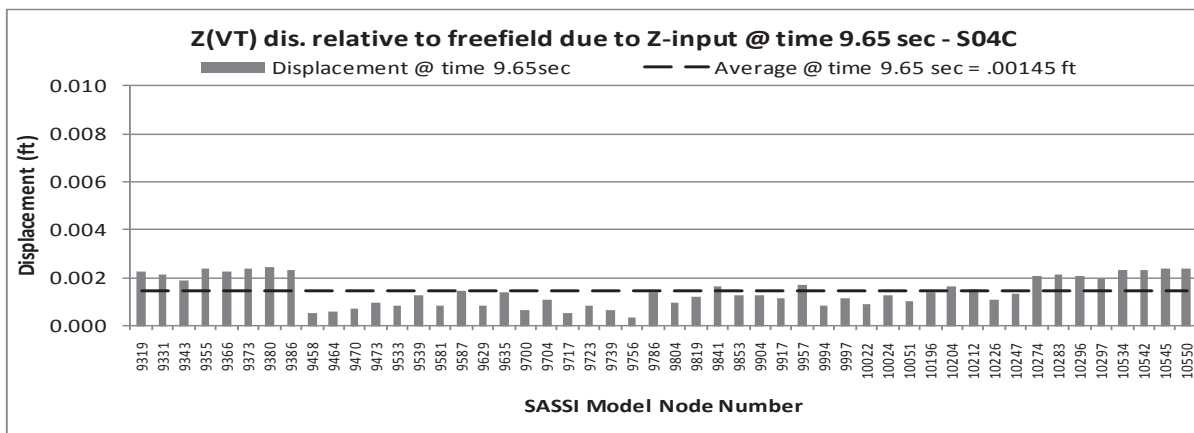
(b) Z-input @ time 7.065 sec (at time of maximum average)

Figure 3.8A-20 Displacements of Basemat Due to Seismic Loading (Soil #1)

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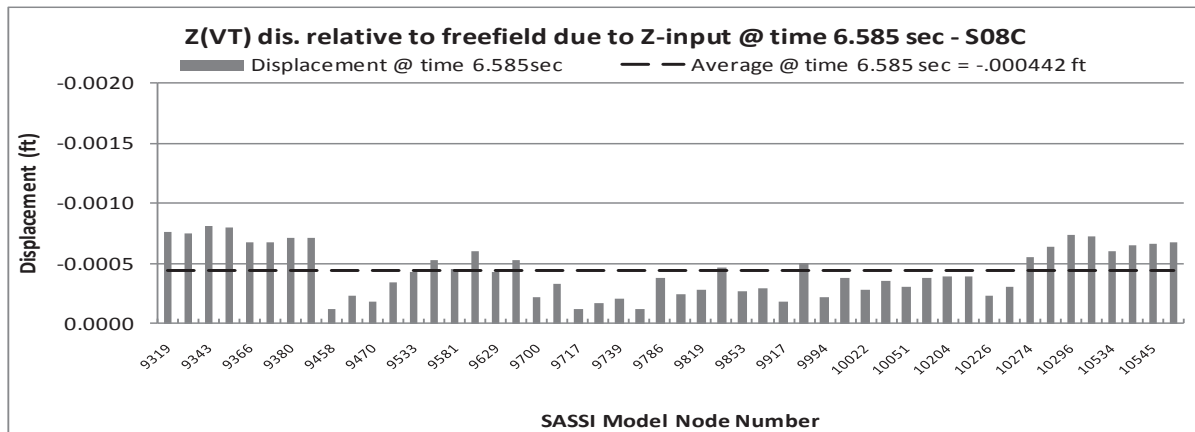
(a) Z-input @ time 10.445 sec (at time of minimum average)



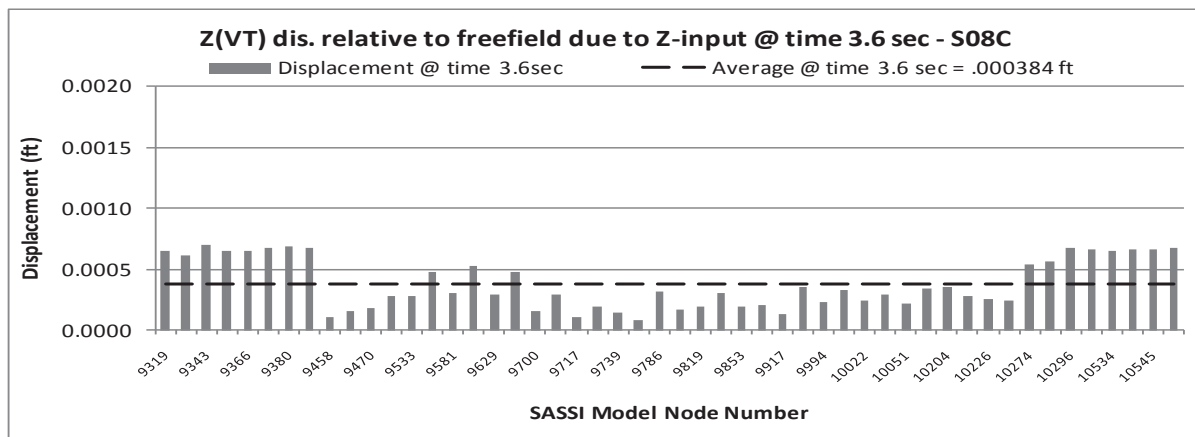
(b) Z-input @ time 9.65 sec (at time of maximum average)

Figure 3.8A-21 Displacements of Basemat Due to Seismic Loading (Soil #4)

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(a) Z-input @ time 6.585 sec (at time of minimum average)



(b) Z-input @ time 3.6 sec (at time of maximum average)

Figure 3.8A-22 Displacements of Basemat Due to Seismic Loading (Soil #8)