Failure of Wall B1-10R – Incident Response
Day 1: 7/11/19 - Thursday
Day 2: 7/12/19 - Friday
Day 2: 7/12/19 - Friday
Day 2: 7/12/19 - Friday
Day 2: 7/12/19 - Friday
Day 2: 7/12/19 - Friday
Day 3: 7/13/19 - Saturday
Day 3: 7/13/19 - Saturday
Day 3: 7/13/19 - Saturday
Sliding Failure

Bearing Capacity Failure

Global-Stability Failure
Day 3: 7/13/19 - Saturday
Day 3: 7/13/19 - Saturday
Day 4: 7/14/19 - Sunday

[Images of road construction sites with cracks and orange cones]
Day 4: 7/14/19 - Sunday
Day 4: 7/14/19 - Sunday
Day 4: 7/14/19 - Sunday
Day 5: 7/15/19 - Monday
Day 5: 7/15/19 - Monday
Day 5: 7/15/19 - Monday
Day 5 & 6: Monday & Tuesday
US 36 Monitoring

- Daily Survey
- CDOT Bridge Inspection Crew
- Inclinometer
Mechanically Stabilized Earth (MSE).
MSE Wall

Mechanically Stabilized Earth (MSE).
MSE Wall

US 36 As Constructed

NOTE:
MSE WALL SHALL BE DESIGNED FOR SOIL PROPERTIES OF RETAINED ZONE MATERIAL.

DETAIL - ALTERNATE BACKFILL LIMITS
The Rebuild
GeoFoam

- A high-performance, lightweight, geosynthetic fill material consisting of closed cell expanded polystyrene (EPS).
- Maintenance Free
- Proven to work well in similar situations
- I-15 Utah 100,000 CY Installed
By the Numbers

Facts

• Over 6000 Geo Foam blocks (8’ x 4’ x 3.3’)
• 1.35 LBS per CF (144 lbs per block)
• 140 Caissons (6,000 LF)
• 25,000 CY of excavated material removed
• 250,000 LBS of Reinforcing Steel
Construction Progress
Construction Progress
Construction Progress
Construction Progress
Construction Progress
Questions?