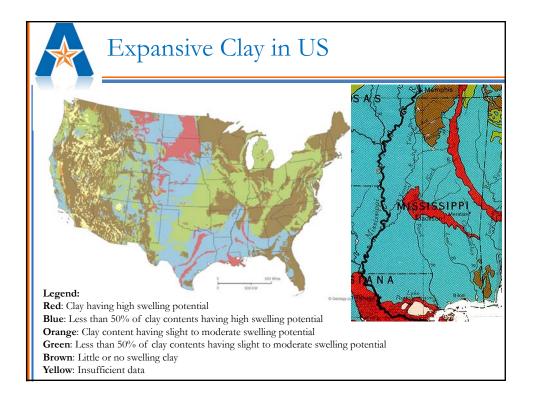


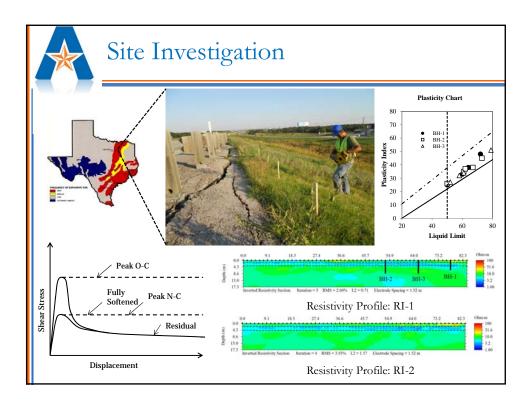
Case Studies: Long Term Performance of Highway Slopes Stabilized with Recycled Plastic Pin

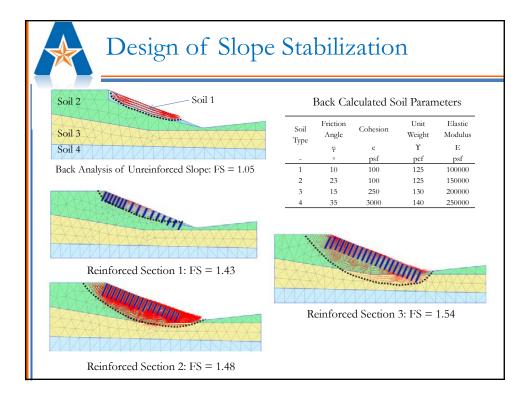
Dr. Sahadat Hossain, P.E. Professor, Civil Engineering, The University of Texas at Arlington Dr. Sadik Khan, P.E. (JSU) Ashrafuzzaman Khan (UTA) Asif Ahmed (UTA)

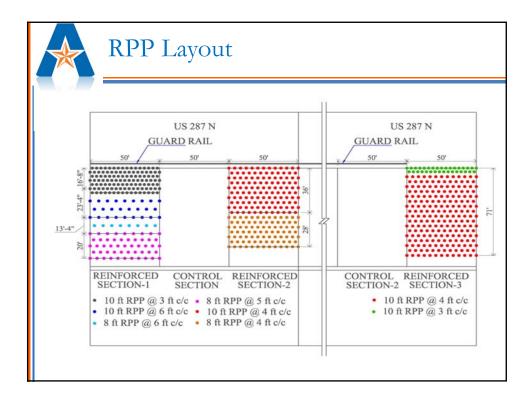








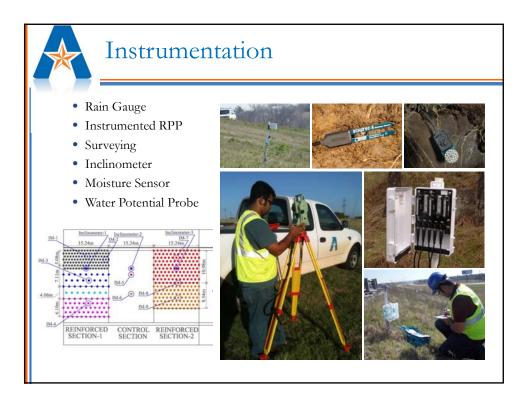




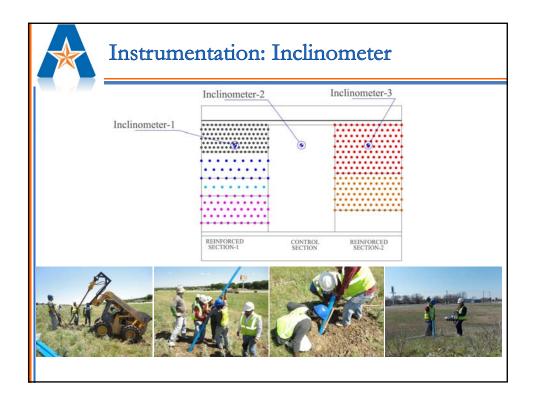


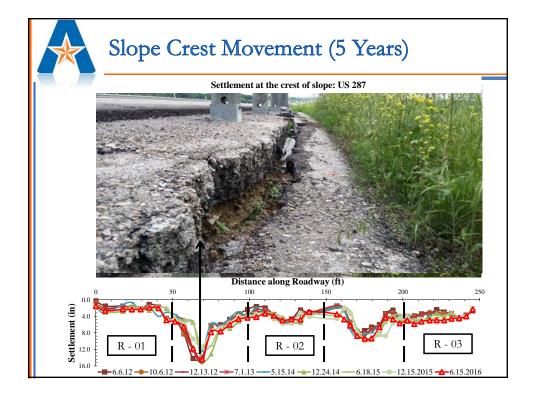


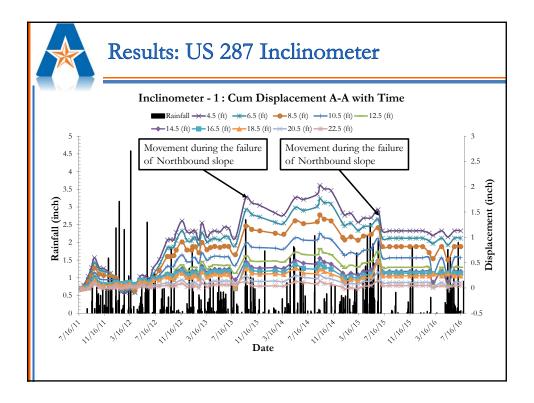


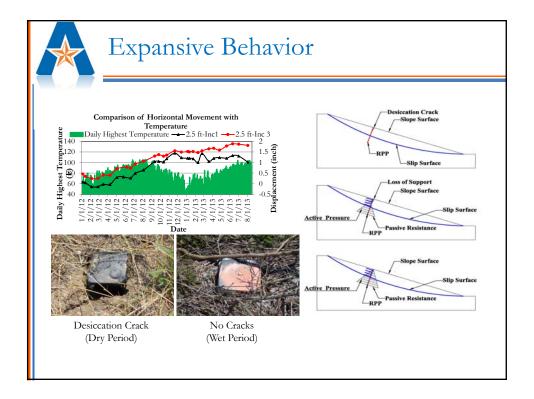




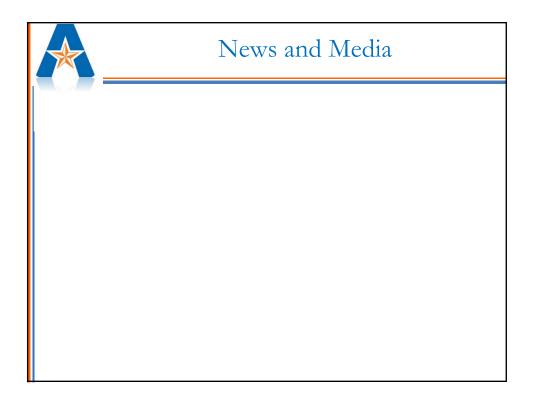


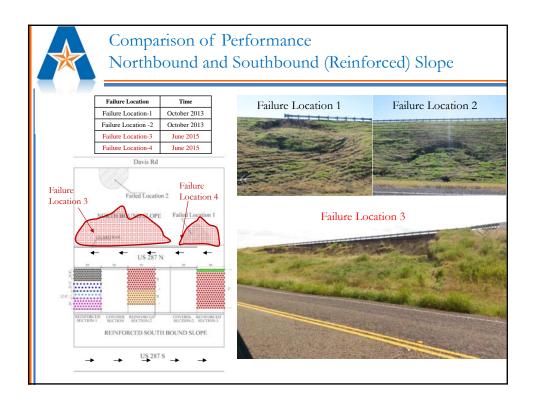




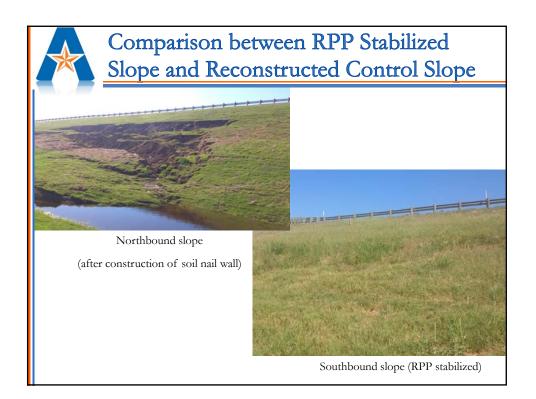


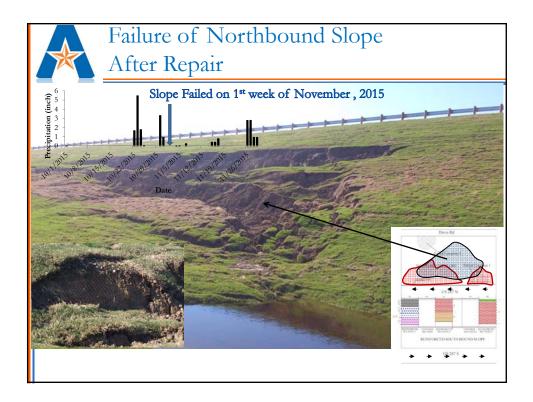












Summary and Conclusion

• RPP provided resistance against shallow slope failure

- A Crawler-Mounted Rig, Equipped with a Mast-Mounted Pseudo Vibratory Hammer, Worked Effectively to Install RPPs
- On Average, a RPP Can be Installed within 4 Minutes, and a Total of 100 to 120 RPPs can be Installed in a Single Day.
- Settlement at Control Section is 15 inch
- Settlement at Reinforced Section 1 is 2.5 inch.
- Closer RPP Spacing at Crest Provided Higher Resistance against Slope Deformation
- RPP can save the stabilization cost up to 60% 80% of conventional technique, and have potential to be a **effective sustainable alternative** to stabilize shallow slope failure.

