Midwest States Regional In-Place Conference

Wednesday, September 11, 2013 Schaumburg, Illinois



FDR - "A Contractors Perspective"

Presented by Tom Johnson Midstate Reclamation Inc.



Outline

- FDR- "Different Types"
- Applications- "No Bus Tour"
- Getting Started- "How to Implement"



I do not believe you can do today's job with yesterday's methods and be in business tomorrow.

We will change they way we build roads.



How to build from the top down

The use of Flexible Pavements



- Mechanical Stabilization
- Bituminous Stabilization
 - Asphalt Emulsion- Engineered, Anionic, Cationic
 - Foamed Asphalt / Expanded Asphalt
 - Chemical Stabilization- (Liquid)
 - Calcium Chloride CaCl2
 - Magnesium Chloride MgCl2
 - Base One, Permazyne
- Chemical Stabilization- (Dry)
 - Lime Hydrated, Quick or Slurry
 - Fly Ash Type "F" or "C"
 - Portland Cement
 - Various Kiln Dusts



Definitions

Soil Modification- is merely a means to reduce the moisture content of a soil to expedite construction

Soil Stabilization- is the alteration of soils to enhance their physical properties. Stabilization can increase the shear strength of a soil and/or control the shrink-swell properties of a soil, thus improving the load bearing capacity of a sub-grade to support pavements and foundations.

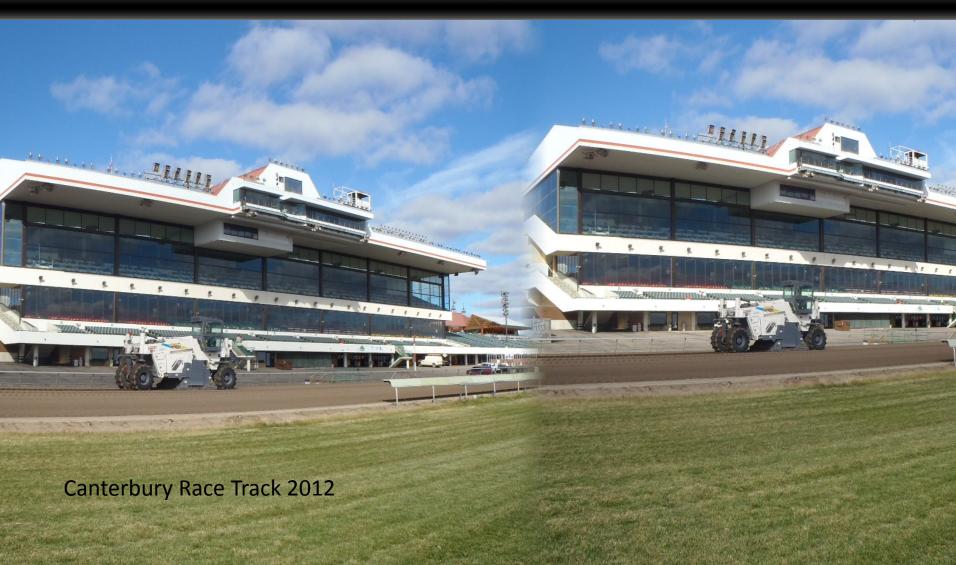


"The No Bus Tour"



Mechanical Stabilization Waseca Cty, MN 2003



















































































































Excel Energy 2013
Pine Island, MN

















where cutting-edge is commonplace.



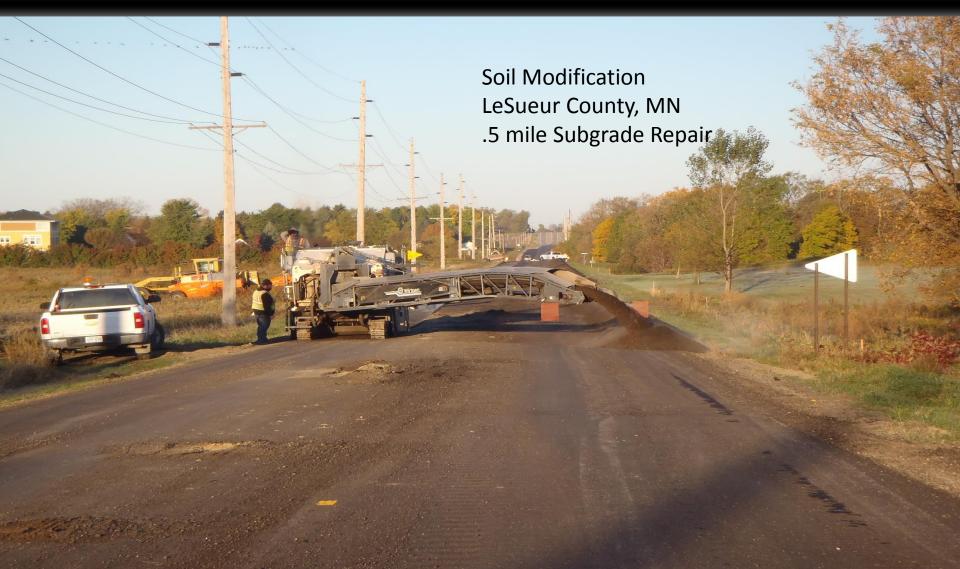


























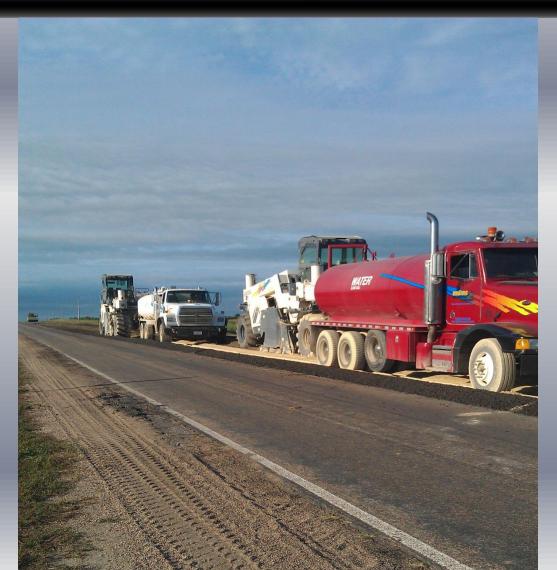




Soil Stabilization Nebraska









Bowman County, North Dakota 2011

- 2 mile test project
- · 8" Stabilization
- 5% Cement
- Double Chip Seal



















Iowa Wind Farm Fly Ash









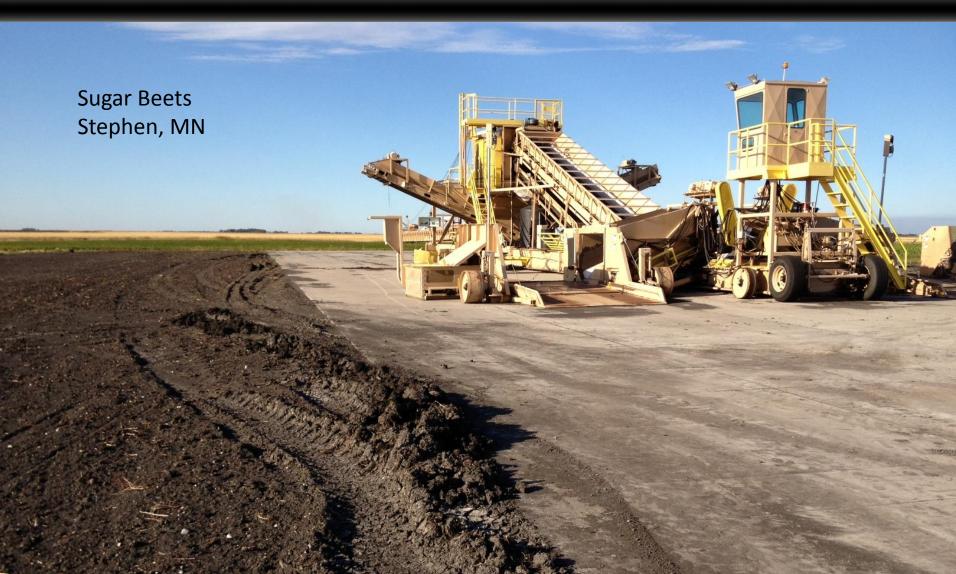














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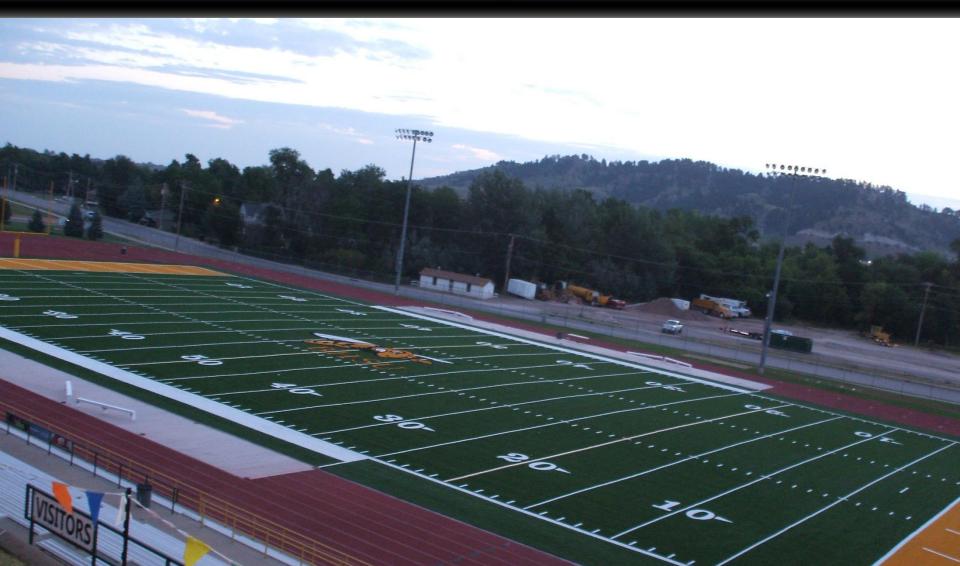






















































How to Implement In-Place Recycling Projects & Project Selection

Right Method - Right Road - Right Time

A good contractor will tell you if it is the right process



Project Selection

Do the homework before the test

40-45 6" cores for a design Preform a DCP, knowing what the sub grade is, just has important as the design





Specifications





Specifications

- Performance Base- Method
- · Superintendent who's in charge
- Experience make it a requirement



