

A Field Experiment on Methods of Addition of Lime to HMA

One Designed Experiment –

“Pecos Avenue Project” in Phoenix

Build Six “Equivalent” Sections

**Monitor for moisture damage --
actually monitor for total performance**

Compare performance among the six sections



Hydrated Lime in Hot Mix Asphalt

Methods of Addition

Marinated Aggregate and Stored

Marinated and Used Immediately

Slurry Addition

Dry Addition

Lime into Asphalt

Control Section



What is Needed?

Appropriate Site

No Variation in Geometric Design

Consistent Base Structure

Consistent Traffic Flow

Agreement Among

State DOT

Construction Contractor

Material Suppliers

Monitors

Appropriate Equipment

Quality Design and Construction

Long Term Monitoring

Thorough Analysis of Results



Conclusions

- **Would like to Build Such a Site**
- **Need –**
 - Interested Players**
 - Appropriate Site**
 - Asphalt-Lime Mixing Equipment**

Pavement Performance Symposia

- 2001 **Fatigue Damage Prediction**
- 2002 **Moisture Damage Prediction**
- 2003 **Asphalt Aging**
- 2004 **Asphalt Pavement Additives**
- 2005 **---SUBJECT--- ???**

Send ideas/wishes for 2005 Subject to

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