DRAINAGE
To Drain or not to Drain
That is a Hellava Question
PCC Pavements
EDGEDRAIN LOCATION - A.C SHOULDERs

Permeable Base

Geotextile

Aggregate Separator Layer

Pre-Pave Installation

Optional Post-Pave Installation
PRE-PAVE INSTALLATION

Concrete Pavement

A.C. Shoulder

Permeable Base

Aggregate Separator Layer

Edgedrain Pipe

Geotextile
POST PAVEMENT INSTALLATION

Concrete Pavement

Permeable Base

Aggregate Separator Layer

Geotextile

A.C. Shoulder

Edgedrain Pipe
FLEXIBLE PAVEMENT

- Aggregate Separator Layer
- Permeable Base
- Geotextile
BENEFITS

• Quality Control
• Determine Maintenance Needs
POURPOSE

• Qualitative Picture of Edgedrain Conditions

• Demonstrate Video Equipment
VIDEO INSPECTIONS OF EDGE DRAINS

Completed Inspections
GREAT! A SNAKE WITH HEADLIGHTS - JUST WHAT I NEED.
Outlets Non-Functional - 35%
Mainline Non-Functional - 17%
Mainline Non Reviewable - 13%
Mainline Good - 35%
Drainage Suggestions
PERMEABLE BASE

- Asphalt or Cement Stabilized
- Emphasis on Stability
<table>
<thead>
<tr>
<th>Sieve</th>
<th>Percent Passing</th>
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</thead>
<tbody>
<tr>
<td>1”</td>
<td>100</td>
</tr>
<tr>
<td>3/4””</td>
<td>95 – 100</td>
</tr>
<tr>
<td>1/2”</td>
<td>85 – 100</td>
</tr>
<tr>
<td>3/8””</td>
<td>60 – 90</td>
</tr>
<tr>
<td>No.4</td>
<td>15 – 25</td>
</tr>
<tr>
<td>No.8</td>
<td>2 – 10</td>
</tr>
<tr>
<td>No.16</td>
<td>2 – 5</td>
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<tr>
<td>No. 200</td>
<td>*</td>
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</tbody>
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* Add 2% mineral filler
PLOT OF NEW JERSEY – BSOG

New Jersey BSOG

\[ D_{10} = 3.0 \text{ mm} \]
\[ C_U = 2.75 \]

Percent Passing

No. 200 50 30 16 8 6 4 3/8 in 1/2 in 3/4 in 1 in 1-1/4 in 1-1/2 in

Sieve Sizes
ASPHALT CONTENT

• 3 Percent
FHWA strongly recommends the use of a Anti-Stripping agent
CEMENTED TREATED

Portland Cement 2 to 3 bags per cu. yd.
EDGEDRAINS

- Strong Rigid Pipe
- 100% Video Inspection
DUAL OUTLETS

Edgedrain Trench

Minimum 30" Radius

4" Unslotted Plastic Pipe
MAINTENANCE

• No Maintenance Commitment
• No Drainable Systems
MAINTENANCE

• Modicum of Maintenance