Street Design Standards for Local Government

A Case Study

2006 Ohio Asphalt Paving Conference

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Department of Public Service
A Brief History

Process Undertaken

Results

Looking Back

Looking Ahead
A Brief History

✓ Affordable Housing
Reduce costs
Reduce overhead
A Brief History

✓ Policy Aims

Performance-Based

Science-Based

Choice-Based

National Perspective
Process Undertaken

✓ Timeline

2001 - Research
2002 - Creation
2003 - Refinement
2004 - Experience
2005 - Update
Process Undertaken

✓ 2001 – Research

- Hired Resource International
- Surveyed regional cities
- Assessed existing policies
- Assessed pavement performance
- Proposed engineering model
- Stakeholder participation
- RCC testing program
Process Undertaken

✓ 2002 - Creation
  • Advisory committee
  • Traffic sensitivity
  • “Base” assumptions
  • Stabilize vs. Modify
  • Policy established June 28, 2002
  • Supplemental specifications
Process Undertaken

✓ 2003 - Refinement
  ❑ “Thin is in”
  ❑ New policy - February 28, 2003
  ❑ RCC gets updated
Process Undertaken

✓ 2004 - Experience
  ❑ “One is the loneliest number”
  ❑ Test sections
  ❑ Stakeholder involvement
  ❑ Double checking
Process Undertaken

✓ 2005 - Update

¬ “It takes two”
¬ New policy - June 8, 2005
¬ Updated supplemental specifications
Results

- Assumptions verified
- Diversity in pavements chosen
- Improving performance
Results

✓ Diversity in pavements chosen

![Pavement Type Constructed Graph](image)

- **Composite**
- **Asphalt**

<table>
<thead>
<tr>
<th>Year</th>
<th>Composite</th>
<th>Asphalt</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>80</td>
<td>20</td>
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<tr>
<td>2003</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>2004</td>
<td>60</td>
<td>40</td>
</tr>
<tr>
<td>2005</td>
<td>70</td>
<td>30</td>
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</tbody>
</table>
Results

✓ Improving performance

Fully Acceptable Density Achievement

<table>
<thead>
<tr>
<th>Year</th>
<th>Fully Acceptable Density Achievement</th>
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</thead>
<tbody>
<tr>
<td>2003</td>
<td>30%</td>
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<tr>
<td>2004</td>
<td>45%</td>
</tr>
<tr>
<td>2005</td>
<td>81%</td>
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Looking Back

✓ Research is essential
✓ Use engineering methods
✓ No substitute for experience
✓ Involve, include and engage stakeholders
Looking Back

✓ Set a vision for the future
✓ Understand where you are today
✓ Chart a course to achieve goals
✓ Be prepared to learn along the way
✓ Don’t be surprised if the future turns out differently than you expected
Looking Ahead

✓ Policy updates in 2006
✓ New technology & techniques
✓ Ongoing verification
✓ Coordination with others
Questions & Answers

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