Florida Department of Transportation

Traffic Incident Management
For Construction Work Zones

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Traffic Incident Management (TIM)

- 60% of highway congestion caused by incidents
- 13-33% of crashes are secondary to earlier incidents
- Responder injuries a significant concern
Traffic incidents play a major role in the public perception of their highway system.
# Cost of Congestion in Florida

<table>
<thead>
<tr>
<th>Region</th>
<th>1990</th>
<th>2000</th>
<th>2010 *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacksonville</td>
<td>$ 95 M</td>
<td>$ 135 M</td>
<td>$ 380 M</td>
</tr>
<tr>
<td>Orlando</td>
<td>$135 M</td>
<td>$ 690 M</td>
<td>$ 1.40 B</td>
</tr>
<tr>
<td>Ft Laud/Hollywood</td>
<td>$150 M</td>
<td>$ 810 M</td>
<td>$1.50 B</td>
</tr>
<tr>
<td>Tampa/ St Pete</td>
<td>$325 M</td>
<td>$ 745 M</td>
<td>$1.10 B</td>
</tr>
<tr>
<td>Miami/Hialeah</td>
<td>$550 M</td>
<td>$1.365 B</td>
<td>$2.10 B</td>
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Urban Mobility Report prepared annually by Texas Transportation Institute [Texas A&M]

*Estimated

FHWA indicates that incidents can account for well over half of the congestion
Managing traffic incidents in major work zones
Why Traffic Incident Management in construction zones

- Supports Work Zone Safety (2007-835 Killed, 40,000 Injured)
- Incidents have a huge economic impact on state economy
- Trucks especially hauling construction material need to be delivered be ‘just in time’ (project costs)
- Construction worker productivity impacted (project delay)
- Traffic incidents bring increased liability risks agencies and to contractors
TIM Elements for Highway Construction Work Zones

- Quick Clearance agreements (Contractors, FHP, Fire Dept, FDOT) with a Concept of Operations

- Everyone involved in the project trained and committed to Florida’s “Open Roads” Policy

- Active speed enforcement on project approaches (parked squad cars have limited value)

- On-site police units specifically trained to direct immediate response and aggressive clearance
TIM  Elements for construction zones

- ‘Quick Clearance’ of minor crashes with roving service patrol wreckers and police units using push bumpers
- Crash investigation and enforcement sites at strategic locations, relocated during project stages
- Immediate tow away within project limits, “Immediate Tow Zone” posted at project limits
- Contractor equipment approved and ready for clearing incidents (loaders, sweepers, cranes)
- Alternate access points, barrier wall offsets with shoulders designed for emergency vehicles
TIM Elements for construction zones

- Detailed guidelines for enforcement officers for their safety
- Activity and productivity expectations, data collected
- Utilize training, outreach, and media briefings explaining the TIM plan
- Full utilization of ITS during construction: CCTV, speed sensors, DMS, wireless to TMC

Projects must also be designed with permanent TIM features to assure the efficient long-term operation of the highway by Transportation and Public Safety Agencies.