How to Live Through the Dark Side of Hot Mix Asphalt

Illinois Asphalt Paving Association Annual Meeting March 2005







Guiding Light

ChallengeRecommendationsNew technology

















Why in the Dark

Minimizes disruption to traffic
Reduces delay and accidents
Significant benefit to traveling public

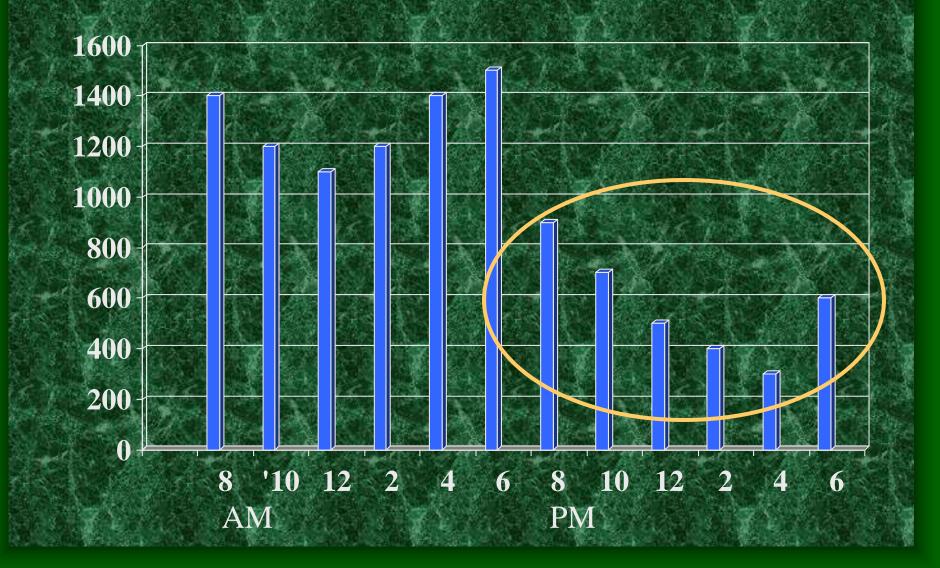








Reduced Congestion



Interstate Traffic Growth Traffic Growth



Research Advantages

Material delivery
Effect on surrounding businesses
Minimize pollution
Safety

Safety

Lower levels of trafficHowever....





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Specs

 IDOT specifications 701.04(c)6: The flagger station shall be lit by additional overhead lighting other than street lights

 April 2005: Flagger garment meeting ANSI/ISEA 107-1999 for Conspicuity Class 3







Building a Specification

Radiance- what we are used to

• Luminance- the result

Luminance

Birthday cake candle
On one end of a one-foot ruler
One foot candle
In metric, one lux



Eight Candles

Eight Feet





Shedding a Little Light

NCHRP 476 in 2002
NCHRP 498 in 2003
II Trans Research Cooperative in 2002
Others

Other States At Paving Site Foot-candles

Calif	5
Florida	5
Md	5
Mich	10
Miss	10
NY	10
Oregon	10









Specification

Draft specification under development
Follows national guidelines
Oriented toward worker needs
Bureau of Design (Mark Seppelt)



Background Light

Less adjustment for driver
Enough light to keep sanity
Difficult to achieve
Driver aware of workers







Background Light

Recommendations

Problem jobs
Police presence
Lighting specification
Personal actions





Lighting Specification

LIGHTING FOR NIGHTTIME HIGHWAY CONSTRUCTION

DESCRIPTION

This work shall consist of furnishing, installing, operating, maintaining, moving and removing all necessary lighting equipment and materials for the duration of nighttime operations on the contract. Nighttime operations consist of work specifically scheduled during the hours of darkness, which occur shortly before sunset until shortly after sunrise. All work shall be done according to the "Standard Specifications for Road and Bridge Construction" and as further defined herein.

Mark Seppelt

District Two

Personal Actions

Vests clean
Hat and arm band
Use common sense





Images in Illumination

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Summary

Pay attention to problem jobs
Police presence
Take every possible personal precaution
Lighting specification

Its Up to Us



