

Concrete Pavement Preservation at WSDOT

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WSDOT Concrete Network (13% of Total State Maintained)

- Concrete pavements are in high-traffic locations
- 36 % of concrete pavements have had preservation:
 - DBR (17%)
 - Grinding (11%)
 - Panel Replacement (8%)
- 64 % of concrete pavements untouched since construction
- **50% of concrete network is over 40 years old**

“Triage” Approach for Concrete Pavement

- Past resuscitation
 - Reconstruction
- Immediate (Life Threatening)
- Delayed
 - Serious, but non-life threatening
- Minor
 - “Walking Wounded”

CONTAMINATED

EVIDENCE

TRIAGE TAG +43730*

S L U D G E
Subsidence Laceration Laceration Trauma RT. Dislike Tumor

AUTO INJECTOR 1 2 3 4 5

Yes	No	Great Swell
Yes	No	Secondary Swell
Solution		
Blunt Trauma		
Burn		
C-spine		
Chest		
Crushing		
Fracture		
Laceration		
Penetrating Injury		

Age _____

Male Female

Other: _____

VITAL SIGNS			
Temp	BP	Pulse	Respiration

Time	Drug Solution	Dose

MORGUE
Pulseless/Non-Breathing

IMMEDIATE
Life Threatening Injury

DELAYED
Serious, Non Life Threatening

MINOR
Walking Wounded

+43730*

+43730*

+43730*

+43730*

“Triage” Approach for Concrete Pavement

- Selective panel replacement for structural failure



“Triage” Approach for Concrete Pavement (cont.)

- Dowel Bar Retrofit
 - Do early enough to slow rate of deterioration
 - Includes grinding



“Triage” Approach for Concrete Pavement (cont.)

- Diamond Grinding
 - Evaluated when ruts (from studded tire wear) exceed $\frac{1}{2}$ ”



“Triage” Approach for Concrete Pavement (cont.)

- Sealing & Patching



For example: Ure-Fast polymer concrete
www.liquidconcrete.com











09/21/11
SR# 090-INC
SRMP 44.88
DIR ≡ E



08/13/13
SR# 090-INC
SRMP 44.89

- Patch placed in 2005

