Nashville Flood 2010

Emergency Slope Repairs

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Are you ready?
15 - 18 inches of rain
18 fatalities
>$224 M in damage

Photo: Vanessa Bateman
Pedestrian Bridge - Franklin TN

May 2, 2010

Photo: Vanessa Bateman
View of Downtown Nashville

Downtown Nashville Sunday Night
Inside the Opryland Hotel
LP Field
Schermerhorn Symphony Hall
Grand Old Opry

http://www.the9513.com/nashville-flood-relief-effort
NES Power Station

Photo: George Hornal
How’s that plan now?
Downed Power Tower

Photo: George Hornal
Damage to homes and scour of railroad embankment

Photo: George Hornal
Tanker Trucks in the flood water

Photo: George Hornal
Oil and Water

Photo: George Hornal
Bellvue Neighborhood

Photo: George Hornal
Expect to deal with the unexpected
300 foot waterfall
7 billion gallons
What happens after?
Local Mudslide

Photo: Vanessa Bateman
Local Slides in Colluvium

Photo: Vanessa Bateman
Assessment teams
Appendix E. Detailed Damage Inspection Report

DETAILED DAMAGE INSPECTION REPORT

(Location 23, Federal-aid Highways)

<table>
<thead>
<tr>
<th>Description of Damage</th>
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</thead>
<tbody>
<tr>
<td>MUDSLIDE BLOCKING BOTH LANES</td>
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<table>
<thead>
<tr>
<th>Cost Estimate</th>
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</thead>
<tbody>
<tr>
<td>Description of Work to Date</td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td>GUARDRAIL</td>
</tr>
<tr>
<td>TYPE B</td>
</tr>
<tr>
<td>REMOVAL OF GUARDRAIL</td>
</tr>
<tr>
<td>CLEARING</td>
</tr>
<tr>
<td>ROAD CLEARING/ DIVERTING</td>
</tr>
<tr>
<td>STOP STABILIZATION</td>
</tr>
<tr>
<td>EXCAVATION</td>
</tr>
<tr>
<td>CLEARING/ DITCHING</td>
</tr>
<tr>
<td>TOPOGRAPHICAL EXCAVATION</td>
</tr>
<tr>
<td>SPRAY THERMO</td>
</tr>
<tr>
<td>TIRE REMOVAL</td>
</tr>
</tbody>
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Method | Local Forces | State Forces | Contract | Subtotal |
<table>
<thead>
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<tbody>
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<td>PRICE</td>
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</table>

Emergency Repair Total

Permanent Restoration

Method
May 5, 2010

Awarded $13.7 M
On Call Contracts
Now we can fix it
May 21, 2010

Awarded

$8.5 M

On Call Resurfacing
On-Call

SR 6 Scour

Photo: Vanessa Bateman
But - some things are too big...

Separate Contracts Needed
Six months to complete construction

ER Funds
State Route 7 - Maury County

Photo: George Hornal
State Route 7 - Largest Landslide

Photo: George Hornal
SR 249 Mudslide

$1.6M
SR 249 Mudslide
SR 96 Block Slide

Rockslide in horizontal rock

$1.5M

Photo: George Hornal
SR 96 Slide

Photo: George Hornal, Vanessa Bateman
SR 96 Slide

Photo: Vanessa Bateman
Consequences of the storm

$0.6M

I-24 Sinkhole

Photo: Vanessa Bateman
Complete in 4 days

Photo: Vanessa Bateman
Lessons learned
You can do things faster than you think you can

But EVERYONE has to cooperate
On-call contracts are necessary

Photo: Vanessa Bateman
You MUST have clear lines of communication
FHWA help is crucial
Your disaster plan isn’t good enough
But, experienced staff will save your bacon
Questions?