YOU SHOW US CONTEST
2013
“YOU SHOW US” in the “No Flush Zone”
“YOU SHOW US” CONTEST

Judges

- Ron Blachford; Retired Highway Superintendent (Hand County, SD)
- Jim Hyde; DOT Pierre Region Operations Engineer (SD)
- Tom Croymans, PE LS; Acting Regional Roads Engineer – Division of Transportation, Great Plains Regional Office, BIA
- Gary Brennan, PE; Brosz Engineering (ND)
- Terry Jorgensen; Retired DOT Custer Engineering Supervisor / Former Local Government Engineer (SD)
- Ron McMahon; Project Development Operations Team Leader - FHWA
- Mark Clausen; Structures Engineer / Operations Team Leader - FHWA
"YOU SHOW US" CONTEST

Judges Ranking Sheet

Please use the following simple score sheet to rank nominees from highest/best (4) to lowest (1).

<table>
<thead>
<tr>
<th>PROJECT NAME:</th>
<th>Asphalt Leveling Device</th>
<th>Beaver Clean-out Gate for Culverts</th>
<th>Pipe Puller</th>
<th>Sign Repair Platform</th>
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<tbody>
<tr>
<td>Safety Improvement</td>
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<td>Operational Efficiency</td>
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<td>Innovation</td>
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<td>Cost Savings</td>
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<td>Ease of Implementation</td>
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<td>by Others</td>
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| TOTAL:                  |                          |                                    |             |                      |

Please provide a comment or two as to why you selected your first choice:
Colorado: *Pipe Puller*

- Bill Lennox and Mark Mitchell
  *City of Cañon City*
Colorado: *Pipe Puller*

**Problem**

Damaged pipe ends
Colorado:

Pipe Puller
Colorado: *Pipe Puller*

**Labor & Materials**

- 6 ft. of 1" x ½" flat strap = $9.18
- 3 ft. of ¾" black iron pipe = $7.98
- 6 ft. of 5/16" chain = $23.94
- 2 - 10" chain boomers = $17.99
- 2 - 7/16" x 2 ½" bolts = $2.78
- 2 - 7/16" lock nuts = $2.80
- Labor = $160

**Total cost:** $225.67
Colorado: *Pipe Puller*

**Savings & Benefits**

- Cost
- Time
- Safety
Montana: *Beaver Clean-out Gate for Culverts*

- Tim White
  *Lincoln County*
Montana: Beaver Clean-out Gate for Culverts

Problem

Unpermitted construction
Montana: Beaver Clean-out Gate for Culverts
Montana: Beaver Clean-out Gate for Culverts

- Shop time to weld and construct gate = $140
  - One employee @ $17.50 per hour x 8 hours
  - Equipment used: metal cutter, welding equipment
- 2” black pipe – 21’ @ $3.50/ft. = $73.50
- ¼” x 1-½” flat bar – 26’ @ $0.72/ft. = $18.73
- 2 ½” black pipe – 6” @ $5.50/ft. - $2.75

- Total Cost: $234.97
Montana: Beaver Clean-out Gate for Culverts

Savings & Benefits

Cost/Time
Safety
Long-term
North Dakota: Sign Repair Platform

- Kenny Tetrault
  
  *Burke County*
North Dakota: Sign Repair Platform

Problem
North Dakota: Sign Repair Platform
All steel & iron material was scrap.
  - 2”x2” steel tubing & telespar
  - expanded metal
  - ¾” round rod for railing

Materials purchased: hydraulic cylinder & hoses, electric/hydraulic pump, electric switch = $450

Labor: 16 hours

Total cost: $450 + Labor
North Dakota: *Sign Repair Platform*

**Savings & Benefits**

- Cost
- Time
- Safety
South Dakota: Asphalt Leveling Device

- Rod Polley
  Clay County
South Dakota: *Asphalt Leveling Device*

**Problem**

Existing Parabolic Shape

Desired Crown
South Dakota: Asphalt Leveling Device
South Dakota: Asphalt Leveling Device

- Materials = $755
- Labor = $1,600
- Total Cost: $2,355
South Dakota: Asphalt Leveling Device

Savings & Benefits

Cost
Safety
Feedback
AND THE REGIONAL WINNER IS…