

# 2019 “You Show Us” Contest

Noël Clocksin

SDDOT / Local Government Assistance



## Reaching New

34<sup>th</sup> Annual North Central Local Roads Conference  
**Heights**  
Rapid City, SD - October 16-17, 2019

# “You Show Us” Contest

- Problem Statement
- Discussion of Solution
- Labor, Equipment, and Materials Used
- Total Cost
- Savings & Benefits to Agency
- PHOTOS & VIDEOS

# Judges

- Gary Brennan                      Brosz Engineering Managing Principal
- Marc Hoelscher                    FHWA SD Division Structures Engineer
- Jim Hyde                              SDDOT Pierre Region Operations Engineer
- Tim Blow                              SDDOT Pierre Region Equipment Shop  
Foreman
- Raymond Roggow                  Retired SD Highway Superintendent

# Judges' Ranking Sheet

<b>PROJECT NAME:</b>	<b>Sign Maintenance Safety Platform</b>	<b>Spring Load Arm Enhancement for Gravel Saver Disc</b>	<b>Street Blade Assembly</b>	<b>Strut Lifter for Motor Grader Wing</b>	<b>Truck Safety Step</b>
Safety Improvement					
Operational Efficiency					
Innovation					
Cost Savings					
Ease of Implementation by Others					
<b>TOTAL:</b>					
<b>PLACE (1<sup>st</sup> thru 5<sup>th</sup>)</b>					

# IOWA - Street Blade Assembly

**Jerry Freestone - City of Clive**



# IOWA - Street Blade Assembly

## Problem



# IOWA - Street Blade Assembly

## Solution



# IOWA - Street Blade Assembly

## Labor & Materials

Labor - 34 man hours for fabrication

Equipment – wire welder, plasma cutter, grinder, band saw

Materials – adhesive pad, magnetic parts tray, paint flat steel, round and steel tube, spring

**Total = \$126.66**

[https://youtu.be/FHa3h\\_FutLA](https://youtu.be/FHa3h_FutLA)



# IOWA - Street Blade Assembly

## Savings & Benefits



# SOUTH DAKOTA - Strut Lifter for Motor Grader Wing

**Beadle County Highway Department**



# SOUTH DAKOTA - Strut Lifter for Motor Grader Wing

## Problem



# SOUTH DAKOTA - Strut Lifter for Motor Grader Wing

## Solution



# SOUTH DAKOTA - Strut Lifter for Motor Grader Wing

## Labor & Materials

4 Winches - \$40

Scrap Materials - \$0

Labor - \$253.98

**Total = \$293.98 for a total of 5  
(\$58.80 per motor grader)**

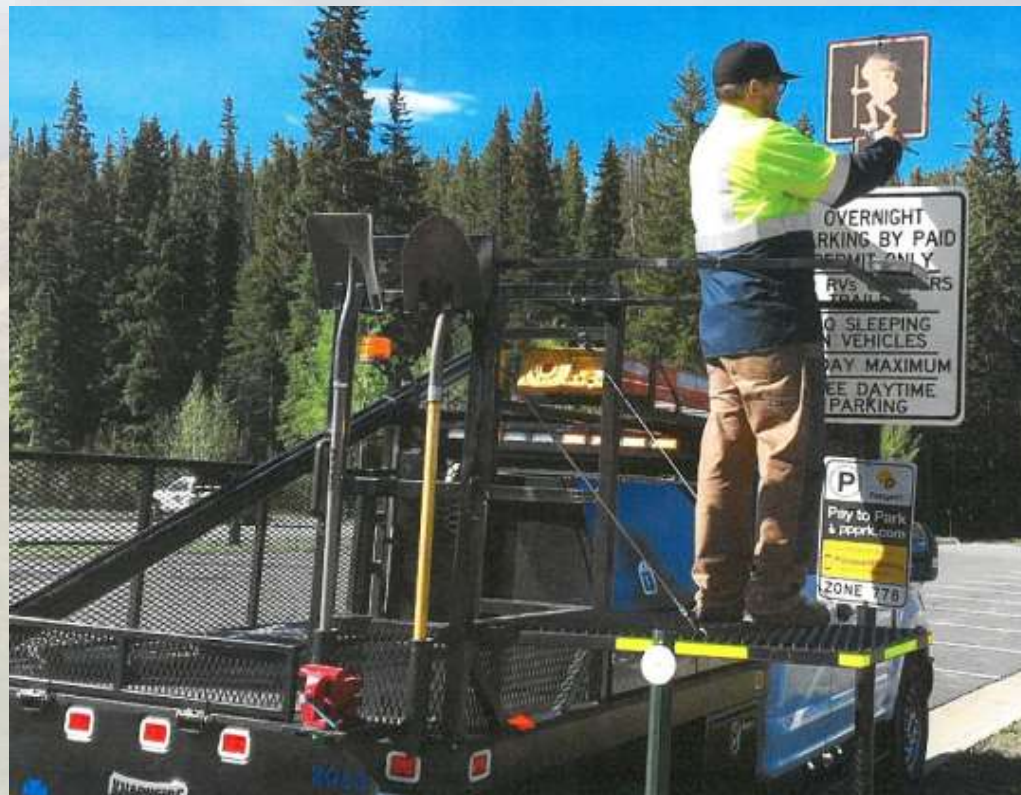
# SOUTH DAKOTA - Strut Lifter for Motor Grader Wing

## Savings & Benefits



# COLORADO- Sign Maintenance Safety Platform

**Scott Davis - Town of Breckenridge**



# COLORADO- Sign Maintenance Safety Platform

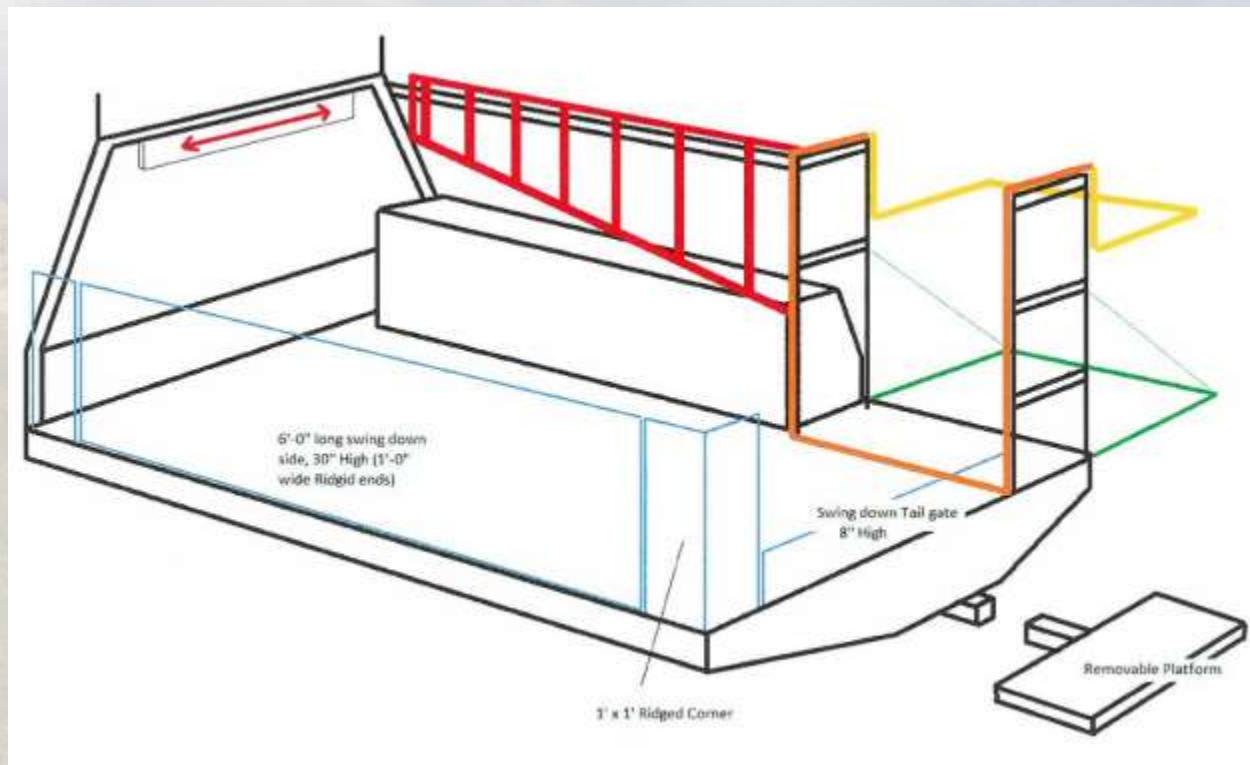
## Problem





# COLORADO- Sign Maintenance Safety Platform

## Solution



# COLORADO- Sign Maintenance Safety Platform

## Labor & Materials

Custom rack/folding safety platform  
Paint

**Total = \$600**

# COLORADO- Sign Maintenance Safety Platform

## Savings & Benefits



# NEBRASKA- Truck Safety Step

**Tyler Luebbe - Lancaster County Engineering**



# NEBRASKA- Truck Safety Step

## Problem



# NEBRASKA- Truck Safety Step

## Solution



# NEBRASKA- Truck Safety Step

## Labor & Materials

Design, assembly, testing (2 days) – \$560

Metal components - \$175

Powder coating - \$210

**Total = \$945**

# NEBRASKA- Truck Safety Step

## Savings & Benefits





# NORTH DAKOTA - Spring Load Arm Enhancement for Gravel Saver Disc

**Tim Geinert - LaMoure County Highway Department**



# NORTH DAKOTA - Spring Load Arm Enhancement for Gravel Saver Disc

## Problem



# NORTH DAKOTA - Spring Load Arm Enhancement for Gravel Saver Disc

## Solution



# NORTH DAKOTA - Spring Load Arm Enhancement for Gravel Saver Disc

## Labor & Materials

Design & fabrication (2 people) – 8 to 10 hours  
Equipment – drill, welder, torch for heating  
Salvage and new material

**Total = \$300**

<https://www.youtube.com/watch?v=GVhvn-eUnrA&feature=youtu.be>

# NORTH DAKOTA - Spring Load Arm Enhancement for Gravel Saver Disc

## Savings & Benefits



# 2019 North Central Region Winner



# NORTH DAKOTA - Spring Load Arm Enhancement for Gravel Saver Disc

**Tim Geinert - LaMoure County Highway Department**



# Be Thinking of Your Entry for the 2020 “You Show Us” Contest



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