

# Innovative Cone Setting Basket



Placing cones in temporary traffic control setups is likely one of the more dangerous activities when setting up work zones. In order to improve the safety of workers, Metro Maintenance has developed a front-mounted attachment to a truck from which workers can place cones. This truck can also be fitted with a truck-mounted attenuator, improving the safety of both the workers and the driving public. This session will explain why and how this cone setting system was developed and will include a demonstration of MnDOT Metro Maintenance's equipment.



# Setting Cones From a Truck



# Picking Up Cones From a Truck



# Picking Up Cone From The Cone Setting Basket



# Front-Mounted Cone-Setting Basket Prototype 2

- ▶ Dimensions: 8' wide by 7'9" long (12'3" with truck connection) by 3'8" tall.
- ▶ Capacity for 170+- traffic cones.
- ▶ Built for one or two operators.
- ▶ Standard truck connection to work with all MnDOT trucks.
- ▶ No electronics/few moving parts for long term ease of maintenance.
- ▶ Safety mast for connection with operator(s).
- ▶ Snow poles on front corners for driver visibility.
- ▶ Two rows of cones on either side of walkway for user to reach and lift.
- ▶ Aluminum toolbox mounted for harness/gear storage.
- ▶ Yellow safety paint to distinguish from surroundings.
- ▶ Safety rails around each cone stack to prevent tipping onto operator.
- ▶ Multi-directional wheels for ease of movement





## Cone Setting Basket Guidelines



1. Employees shall use a retractable harness when utilizing the cone basket at all times.
2. When the cone setting basket is in operation and staffed, the vehicle speed shall not exceed 10 M.P.H.
3. The cone setting basket shall be in the down position at all times when an employee is in the basket.
4. This piece of equipment shall have a shadow vehicle behind it at all times when in operation, and an employee in the basket.
5. This piece of equipment doesn't eliminate any other traffic standard for a moving operation. You will still need 3 crash trucks to follow the cone setting basket truck.
6. The vehicle operator shall have a view of the employee in the cone setting basket at all times.

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### Background

Traffic cones serve many purposes. In regards to safety. Whether you are redirecting traffic by using cones as a channelling device or trying to stop entry to a specific area, proper organization of traffic cones will help your event or operation go smoother. By setting the cones up to visually send messages to drivers and pedestrians, you can ensure a safe environment.

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# Where do we go from here?

