

801-T-241 MOBILE BARRIERS

*(Adopted 03-21-24)***Description**

This work shall consist of furnishing, installing, moving, and maintaining a work zone mobile barrier in accordance with 105.03. The mobile barrier shall be used to provide positive protection for workers in mobile, short, and intermediate duration work zones as specified or as directed.

Materials

The mobile barrier shall be in accordance with the following criteria:

1. Integrated, rigid wall, barrier trailer that can be used in conjunction with a standard semi-tractor.
2. Standard semi-tractor.
3. Integrated work lighting and beacons.
4. Rear facing programmable flashing arrow sign or PCMS in accordance with 801.15.
5. Truck mounted attenuator, TMA, attached that meets the requirements of MASH or NCHRP 350 Test Level 3 or higher.
6. Mobile barrier meeting the requirements of MASH or NCHRP 350 Test Level 3 or higher.
7. Provide variable length work zone protection with a minimum trailer length of 62 ft and up to a maximum of 102 ft, not including the length of the TMA or the semi-tractor.
8. Capable of being configured to protect the right or left side of the road.
9. Colored safety yellow.
10. Have side-marker lights mounted along the barrier trailer.
11. Have vehicle warning lights in accordance with 801.14(d).

A copy of the FHWA eligibility letter confirming the product is NCHRP 350 or MASH compliant, for the test level specified, shall be furnished to the Engineer prior to utilization.

Construction Requirements

The mobile barrier shall be used in accordance with the manufacturer's recommendations to ensure each unit is deployed in a manner which meets the requirements of the crash test report and FHWA eligibility letter. Temporary traffic control for mobile barrier operations shall be in accordance with 801.03, the MUTCD, and as shown on the plans for the applicable work duration period as defined in the MUTCD.

A mobile barrier shall only be used within a mobile operation, a short-term duration lane closure, or an intermediate duration lane closure. The mobile barrier maintenance of traffic shall be under the supervision and direction of the certified worksite traffic supervisor, CWTS, in accordance with 801.03. All mobile barrier materials shall be in good working condition. The mobile barrier shall be in place prior to beginning work and remain in place while workers are present.

If relocation of the mobile barrier requires movement of the mobile barrier into the only open lane of traffic, a traffic break may be implemented when approved by the Engineer in accordance with 801.16(c).

The mobile barrier shall be placed in the work zone as a semi-tractor/trailer combination for the duration of use. Trailers shall not be dropped off in the work zone with a semi-tractor and picked up at a later time after work is complete.

Shadow vehicles shall be used while positioning the mobile barrier and throughout mobile barrier work operations as the work progresses as shown on the plans. Shadow vehicles shall be located in each closed traffic lane and shoulder greater than 8 ft in width.

Shadow vehicles shall be positioned a sufficient distance in advance of the work area, workers, or equipment to reduce the severity of rear end collisions from errant vehicles, but not so far in advance that errant vehicles can travel around the shadow vehicle and endanger the workers or equipment. An additional shadow vehicle shall be provided where the gap between the shadow vehicle and work area, workers, or equipment exceeds the roll ahead distance required by the manufacturer's recommendations.

Shadow vehicle equipment shall include the following:

TMA's as specified elsewhere in the contract.

Flashing arrow signs in accordance with 801.15.

Vehicle warning lights in accordance with 801.14(d).

Method of Measurement

Mobile barriers will be measured by the number of days that each unit is deployed. A day for the purpose of payment is a 12 hour continuous period. Additional time will be measured in 1/12 day, 1 hour, increments. Each deployment shall be at a minimum duration of 4 hours for each mobile barrier in use.

Basis of Payment

The Department will include the pay item Mobile Barrier Budget, with an established dollar amount, in the proposal to pay for all mobile barrier work. This established amount is the Department's estimate of the total cost of the mobile barrier work required to be performed on the contract. The established amount shown in the proposal is included in the total bid amount. The Department will pay for mobile barriers with an established price per day for each unit. If the mobile barrier work exceeds the Department's estimated amount, the additional mobile barrier work shall be explained and submitted as a request to the Engineer. The additional work will be reviewed for acceptance in accordance with 104.03 except that the additional mobile barrier work will be paid for at the pre-determined established price.

The accepted quantity of mobile barriers will be paid for at the established unit price per day per each. Payment will be made only once for each day of use, regardless of the number of times the mobile barriers are moved. The established unit price per day for each mobile barrier will be \$5,000.

Payment will be made under:

Pay Item

Pay Unit Symbol

Mobile Barrier Budget.....DOL

The cost of furnishing the truck, trailer, operator, integrated work lighting, flashing arrow signs or PCMS, and attached TMAs shall be included in the cost of the pay item. No additional payment will be made for maintenance, repairs, or replacement of the mobile barriers or components that are damaged or become inoperable. The cost of mobilization and demobilization to and from the work site each day including utilizing maintenance of traffic measures required to place the mobile barriers in the traffic lane with each setup shall be included in the cost of the mobile barrier.

Payment for shadow vehicles required to be used in conjunction with the mobile barriers for a mobile operation, short-term duration, or intermediate duration traffic control setup will be paid for separately as Truck Mounted Attenuator at the contract unit price per day for each unit, as specified.