
Special Specification 6393

Remove and Relocate Dynamic Message Sign System and Overhead Sign Supports



1. DESCRIPTION

Remove and relocate existing dynamic message sign (DMS) system and T-mount double cantilever overhead sign supports, at locations shown on the plans and as directed. Unless otherwise shown on the plans, the Contractor must stake, and the Engineer will verify new DMS structure location.

The requirements of this specification are minimum. Strict compliance with these minimum requirements will not relieve the Contractor of the responsibility for adopting whatever additional provisions may be necessary to insure the successful completion of the work.

2. CONSTRUCTION

Existing DMS, DMS modem, T-mount double cantilever overhead sign support, and pole mounted local control cabinet will be reused as shown on the plans.

The installation, as a whole, will be carried out in strict conformance with the requirements herein stated and the lines, grades, details, and dimensions shown on the plans. Upon completion, the work will present a neat, professional, and finished appearance. Safe construction practices will be maintained.

Before disconnecting or removing any portion of the DMS and T-mount double cantilever overhead sign support, the Contractor, with the Department's Representative present, will fully test the DMS to ensure proper functionality of the sign. Any problems with the existing DMS will be noted and the Contractor will not be responsible for repairing such items.

The Contractor will be responsible for disconnecting the existing power wiring from the DMS and pole mounted local control cabinet, as shown on the plans. The Contractor will reuse the internal wiring between the pole mounted local control cabinet and the DMS, provided it is undamaged during the relocation process. If the cable is damaged by the Contractor in any way, the Contractor, at the Contractor's expense, will replace the damaged cabling with cabling of equal type.

The DMS and T-mount double cantilever overhead sign support, including ancillary items, will be removed from the existing drilled shaft foundation in such a manner that they will not be damaged and be immediately installed on the new drilled shaft foundation as shown. The Contractor will make adjustments to the DMS mounting alignment on the T-mount double cantilever overhead sign support as directed. The Contractor will tighten all bolts and screws on the DMS and T-mount double cantilever overhead sign support as needed. Additional sign attachment hardware may be required and will be furnished by the Contractor as material subsidiary to this specification. Additional sign attachment hardware, if required, will be made of corrosion resistant materials of similar type as existing sign attachment hardware.

If power conduits and wiring are not immediately reconnected to the relocated DMS, the Contractor will cover and make completely water-tight all openings created due to disconnection of conduits or other appurtenances from the DMS.

After relocation of the DMS and T-mount double cantilever overhead sign support, the Contractor will reconnect all necessary power wiring.

Care will be taken to prevent any damage to the various DMS and T-mount double cantilever overhead sign support components. Any portion of the DMS and T-mount double cantilever overhead sign support, damaged or lost by the Contractor, will be replaced by the Contractor at the Contractor's expense.

The existing drilled shaft foundation at the original location will be removed to a depth of 2' below the existing grade or as directed. The existing concrete riprap at the original location will be removed. Backfill with earth to match surrounding existing grade. These removals will be subsidiary to this specification.

After completion of the work, the Contractor, with the Department's Representative present, will perform complete testing of the DMS and communications testing with the existing DMS Master Software located at the Combined Transportation and Emergency Communications Center (CTECC) located at 5010 Old Manor Road, as directed. The Contractor is responsible for ensuring the DMS is in the same state as before the relocation before final acceptance will be acknowledged.

Safe construction and operation practices should be maintained at all times. The T-mount double cantilever overhead sign support should be handled in such a manner, during removal and relocation, to prevent damage to the sign support's exterior finish. The contractor should repair any damage to the finish of the structure in accordance with Item 445, "Galvanizing" or Item 446, "Field Cleaning and Painting Steel," as appropriate.

The new foundation should be constructed, measured, and paid for in accordance with Item 416, "Drilled Shaft Foundations."

The new conduit should be constructed, measured, and paid for in accordance with Item 618, "Conduit."

- 2.1 **Final System Acceptance.** Perform a final system acceptance in accordance with Special Specification 6005, "Testing, Training, Documentation, Final Acceptance, and Warranty."
- 2.2 **Cleaning.** After the DMS and T-mount double cantilever overhead sign support have been relocated, the DMS will be washed with cleaning solution acceptable to the Engineer to remove all dirt, grease, oil smears, streaks, finger marks, and other foreign particles.

3. MEASUREMENT

The removal and relocation of the DMS and T-mount double cantilever overhead sign support and adjustments to the DMS mounting alignment will be measured as each DMS and T-mount double cantilever overhead sign support, including ancillary items, removed, relocated, and complete in place.

4. PAYMENT

The work performed and materials furnished, in accordance with this Item and measured as provided under "Measurement," will be paid for at the unit price bid for "Remove and Relocate Dynamic Message Sign." This price will be full compensation for removing and relocating the DMS and T-mount double cantilever overhead sign support, including ancillary items, as shown and making adjustments to the DMS mounting alignment as directed; removing existing foundation and riprap; furnishing and installing any additional sign attachment hardware; disposing of all removed and unused materials; cleaning; and testing the DMS and for all manipulations, materials, labor, tools, equipment and incidentals.