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# Special Specification 6151

## Dynamic Message Sign System

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### 1. DESCRIPTION

Remove and relocate existing dynamic message sign (DMS) system at locations shown on the plans and as directed by the Engineer. 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.

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### 2. CONSTRUCTION

Prior to removal of the existing DMS system, the Contractor must ensure that the power cables are disconnected and isolated from the electric power supply and all cables (power and communication) are disconnected from the DMS, DMS controller cabinet, and other accessories. Removal of the existing DMS System as shown on the plans will be accomplished only at such time as authorized by the Engineer.

The existing DMS, truss, walkway, controller cabinet and structure must be removed in a manner acceptable to the Engineer. The method must be such that no undue overstress or damage will result to the structure or appurtenances attached. The Contractor will be responsible for any damage to the structure.

The Contractor must use a crane of sufficient capacity to remove the DMS, truss, walkway, and structure in separate lifts. The existing DMS structure must be disconnected from the foundation and relocated as shown on the plans in a manner acceptable to the Engineer.

When the DMS components are laid down, the Contractor must place the DMS components on timber cribbing so that the components lie reasonably straight to prevent any damage or deterioration. The Contractor will be responsible for any damage to the components.

Safe construction and operation practices must be maintained at all times. The DMS System components must be handled in such a manner during removal so as to prevent damage to the components' exterior finishes. The Contractor must repair any damage to the finish of the truss, walkway, or structure in accordance with Item 445, "Galvanizing" or Item 446, "Cleaning and Painting Steel" as appropriate.

The existing concrete foundation must be removed to a depth of at least 2 ft. below finish grade with all steel cut off. The excavation must be back-filled with material equal in composition and density to the surrounding area, and by replacing any surfacing, such as asphalt pavement, concrete riprap or brick pavers, with like material to equivalent condition as approved by the Engineer.

Careful erection and aligning of the relocated DMS System must be considered an essential feature of the installation of the DMS System. The existing truss to tower tension bolts must be replaced by the Contractor.

All anchor bolts required for the installation of the DMS structure must be supplied by the Contractor. Bolt dimensions and lengths must be as shown in the plans and as directed by the Engineer. The new anchor bolts must conform to all requirements in Item 449, "Anchor Bolts."

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

The new conduit will 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."

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**3. MEASUREMENT**

This Item will be measured as each DMS System removed and relocated, complete in place.

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**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 DMS System." This price is compensation for removing and relocating the existing DMS System to its new foundation with all manipulations; for removing existing foundation; for back-filling and surface placement; for furnishing and installing anchor bolts, tension bolts, all labor, tools, equipment, storage when required, and incidentals.