

ITEM 209.2201--09 - CONSTRUCTION ACCESS THROUGH ENVIRONMENTALLY SENSITIVE AREAS

DESCRIPTION

Work shall consist of developing and supplying a Work Plan for access to the Environmentally Sensitive Area shown on contract documents. Work shall also consist of designing, constructing, moving, maintaining, and removing temporary structures and necessary appurtenances to access work areas through extremely environmentally sensitive areas as shown in the contract documents. These work areas are not accessible through any other means. Access to environmentally sensitive areas and to the temporary structures shall be restricted only to vehicles and equipment necessary for construction.

MATERIALS

See 619-2.21

CONSTRUCTION DETAILS

The Contractor shall supply to the Engineer a Work Plan for accessing the Environmentally Sensitive Area shown on contract documents. This Work Plan shall be of sufficient detail to show the access roads, temporary structure locations (including foundations)*, equipment locations within five (5) meters of the Environmentally Sensitive Area, sequencing of construction activities and how removals will be performed. The Engineer will review and accept the Work Plan.

** Note: It is recommended that the Engineer review and accept the Work Plan prior to the design of temporary structures (including foundations).*

The Contractor shall design, construct, maintain and remove temporary structures and their approaches or move and remove existing structures to provide temporary structures along with their temporary approaches. The Contractor shall install temporary approaches, including necessary earth support structures such as sheeting, in such a manner and sequence that there will be no impact on the extremely environmentally sensitive area(s) identified in the contract documents. The structure(s) shall completely span the environmentally sensitive areas and no foundations or support structures will be allowed within the environmentally sensitive areas. Plans and design computations shall bear the stamp and signature of a Professional Engineer.

The Contractor shall design all elements of the temporary structure and approaches including the railing system. The design loads shall be determined by the Contractor to accommodate all anticipated construction traffic that the Contractor needs to complete the work in the identified isolated areas. The bridge rail shall be designed for a lateral force determined appropriate by the above-mentioned professional engineer. The design shall include all appropriate requirements and/or limitations for use by the Contractor, including, but not limited to, the number and types of vehicles allowed on the structure simultaneously, maximum vehicle loads and vehicle speed limits.

The Contractor has the option of using pre-engineered (fabricated) proprietary temporary structure(s) or designing a temporary structure(s). Regardless of which option is chosen, the

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Contractor shall design and install temporary approaches, foundations and the necessary appurtenances such as, but not limited to, sheeting for earth support structures as needed. The Contractor shall be responsible for the workmanship, upkeep and safety of all temporary structures, approaches, foundations and the necessary appurtenances, such as, but not limited to, sheeting for earth support structures.

The Contractor shall adhere to the following criteria for design, construction and maintenance of the temporary structure.

The Contractor or Contractor's Agent shall design all elements of the temporary structure including the railing system. The design load shall be determined by the Contractor or the Contractor's Agent.

1. Plans and design computations shall bear the stamp and signature of a Professional Engineer.
2. Prior to beginning construction of any structure designed by the Contractor or the Contractor's Agents, the Contractor shall submit detailed plans to the Engineer for review. Such review, however, shall not relieve the Contractor of the responsibility for the adequacy and design of such temporary structure(s).
3. All welding required for the fabrication of temporary steel structures shall be performed in accordance with the provisions of the NYS Steel Construction Manual. Complete penetration groove welds in primary members shall be radiographed as described therein.
4. Prior to opening a temporary structure to traffic, the structure shall be inspected by a Professional Engineer who shall certify in writing to the Engineer that the structure was constructed in accordance with the design.
5. At least every month, the Contractor shall have the temporary structure inspected, under the direction of a Professional Engineer, by a person familiar with bridge construction.
6. On or before each anniversary of the opening of a temporary structure that has been open to construction traffic for one year or more, the structure shall be inspected by a Professional Engineer, who shall certify in writing that:
 - a. The plans of the structure, including its foundations, have been reviewed.
 - b. A hands-on inspection of the structure has been performed in accordance with the latest edition of the NYSDOT Bridge Inspection Manual by an inspection team whose leader is a Professional Engineer and who was present for the inspection.
 - c. A detailed inspection of those areas of the structure critical to its integrity has been performed.
 - d. The structure is currently adequate for its design loads.
 - e. A signed and stamped copy of the inspection results shall be provided to the Engineer within one week of the inspection.

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METHOD OF MEASUREMENT

The work under this item will be measured for payment on a lump sum basis.

BASIS OF PAYMENT

The unit price bid for temporary structures and approaches shall include the cost of all labor, materials and equipment necessary to complete the work. Progress payments will be made at the unit price bid for 90 percent of the quantity after the temporary structures and approaches are complete and operable. The remaining 10 percent will be paid upon removal.