

500 STRUCTURES

ITEM 502 - TEMPORARY STRUCTURE

- 502.01 Description**
- 502.02 General**
- 502.03 Maintenance**
- 502.04 Removal**
- 502.05 Basis of Payment**

502.01 Description. This item shall consist of providing, maintaining and subsequently removing one or more temporary structures in reasonably close conformity with the plans, special provisions and proposal and with the requirements hereinafter set forth.

502.02 General. The structure shall have an adequate waterway opening, but generally not less than 75 percent of the effective waterway opening of the proposed structure, or may be designed to provide for a five year flood frequency as a minimum. The Contractor shall be responsible, however, for any damages caused by upstream flooding due to insufficient temporary structure size or the accumulation of debris or sediment in the channel. A clear roadway width of at least 23 feet (7.0 m) face to face of guardrails shall be provided. Provision shall be made for pedestrian traffic where the existing structure or approaches or both have sidewalk. Such provision shall consist of at least one sidewalk not less than 4 feet (1.2 m) wide and shall include adequate connections to existing walks.

The temporary structure shall be designed for a loading of HS20-44 at unit stresses of those specified by pertinent sections of AASHTO "Standard Specifications for Highway Bridges".

Three copies of the Contractor's plans for the proposed temporary structure and two copies of design computations shall be submitted to the City at least 30 days before its scheduled construction and such construction shall not begin until after approval has been received. If the temporary structure is over a railroad, the time shall be extended from 30 to 50 days and the Contractor shall submit four additional copies of the plans for each involved railroad. The plans shall be prepared by a registered professional engineer and shall bear his signature and registration number or his P.E. seal.

Piling shall be driven to sufficient penetration to carry the superimposed loads in accordance with Item 507, but not less than 12 tons (12 metric tons) per pile.

If the plans state that the existing superstructure may be used in lieu of new construction, it need not be altered to meet either the above width or strength requirements, but it shall be moved or dismantled and re-erected with sufficient care to

avoid any reduction of capacity. If such superstructure has been restricted by posting to loads less than permitted by statute, the posting signs shall be moved to the temporary road unless the superstructure is strengthened to a legal load capacity. If the Contractor plans to use the existing superstructure in the temporary road, he shall notify the Engineer at least 3 days in advance of the time when it will be moved in order to permit the City to establish a detour. The bridge shall be completed in not more than 48 hours after traffic has been routed over the detour.

502.03 Maintenance. The Contractor shall maintain all portions of the bridge in good condition with respect to both safety and smoothness for travel as long as it is needed for maintenance of traffic. The channel and waterway opening shall also be satisfactorily maintained. The lump sum temporary structure item shall be considered as including maintenance.

502.04 Removal. When the temporary structure is no longer needed it shall become the property of the Contractor and shall be removed from the site by the Contractor according to Item 202.

502.05 Basis of Payment. The erection, maintenance and subsequent removal of the temporary structure will be paid for at the contract price for:

Item	Unit	Description
502	Lump Sum	Temporary Structure