

ITEM 559

CONSTRUCTION SAFETY FENCE

559.1 Description. This item shall include the requirements for furnishing, installing, maintaining, and removing "Construction Safety Fence"; to provide a temporary barrier to prevent pedestrians or members of the General Public from entering the designated work areas. The four foot high orange color polypropylene construction safety fence shall be installed at the locations designated by the Engineer.

559.2 Materials. Construction Safety Fence shall be comprised of extruded, high density polypropylene, 4 foot tall minimum and orange in color. The mesh openings shall be no larger than 3.5 inches by 1.50 inches.

Plastic fence ties (zip ties), 7 inches long by 0.187" wide minimum, shall be used for attaching safety fence to posts for a tight secure installation.

Line/Support posts shall be steel T-posts, any color, shall be furnished in sufficient quantity to provide a maximum spacing between posts of 8-feet (See Table 1). Reinforcing steel bars shall not be used as posts.

Table 1

LINE POST REQUIREMENTS

T-POST Fence Height	SECTION		EMBEDMENT Length
	T-post Size Overall Length	T-post Weight (per/LF)	
4 feet	5'-6"	1.25 lb./lf	+/- 18"

All fencing materials shall be approved by the Engineer to be in accordance with the specification before they are erected. When requested by the Engineer, samples of any fencing component shall be furnished by the Contractor for testing and/or examination.

559.3 Construction Methods. The Contractor shall perform all clearing of brush and debris, which may be necessary for the installation of this fencing.

The fencing sections between T-posts shall generally follow the finished ground elevations. However, the Contractor shall grade off minor irregularities in the path of the fencing as necessary to limit the variation of grade under the bottom rung of fencing to a distance of not more than 2-inches and not less than 1-inch to the ground.

559.4 Installation.

Place T-posts no more than 8 feet apart, center to center. Posts shall be located to allow movement of machinery and job related maneuvers in the designated work areas.

Pull the construction safety fence taut and secure to the posts with plastic fence ties (zip ties). Loop the ties through the available holes or "teeth" in/on the T-posts at the top and bottom of the fence, with two additional ties evenly spaced in the middle section of the fence. (minimum of 4-ties per post).

To connect fence sections, overlap two ends by at least 6-inches and weave a wood slat through the overlapped strands. Then secure the joined area to a T-post.

Ingress/Egress- The Contractor shall provide gates, capable of being secured, or other means as required to allow machinery and equipment to enter the work areas during normal working hours. These areas shall be secured when work is not in progress.

For special construction applications of the Construction Safety Fence, as example: installed over an existing paved area (parking lot, etc.), the Contractor shall provide an alternate method of installation, approved by the field engineer, so not to damage any existing pavement.

Maintain and repair the construction fence throughout the duration of the project, at no cost to the County, to insure that the barrier continuously performs its intended function.

559.5 Submittal Required. The Contractor shall submit manufacturer's certification that materials meet the requirements of this specification.

559.6 Removal and Disposal.

Remove and dispose of the construction safety fence upon completion of the project. Dispose of the material off of Harris County property.

After the fence is removed, the Contractor shall maintain field conditions equal to or better than the original condition.

559.7 Measurement. Construction Safety Fence of the height specified, will be measured by the linear foot of fence, complete in-place.

559.8 Payment. The work performed and the material furnished as prescribed by this Item, measured as provided under measurement, will be paid for at the unit price bid for "Construction Safety Fence", of the height specified, which price shall be full compensation for furnishing, installing, maintaining, and removing all fencing materials, including all miscellaneous fittings, plastic fence ties, T-posts, driving/setting T-posts;

all hauling; and for all manipulations, labor, tools, equipment and incidentals necessary to complete the work, including excavation, grading and disposal of surplus material.

There are line code(s), description(s), and unit(s) for this item.

END OF ITEM 559