

- * In the event the lump sum bid for mobilization exceeds the amount stated herein, the difference (remainder) will not be paid until the project is complete in accordance with Subsection 105.17.a.
No additional payment will be made for demobilization and remobilization due to shutdowns, suspensions of the work, or for other mobilization activities.
- ** On all tied projects, the total original contract amount including mobilization established in Table A will be the sum of the original contract amounts of the separate tied projects.

SECTION 642 CONTRACTOR CONSTRUCTION STAKING

642.01. DESCRIPTION.

When specified in the Contract, this work shall consist of furnishing, placing, and maintaining construction layout stakes necessary for the proper prosecution and inspection of the work under the contract in accordance with these Specifications.

642.04. CONSTRUCTION METHODS.

Unless specified elsewhere, the Department of Transportation will be responsible for measurement of volumes of pay quantities and survey control of permanent facilities. The Contractor shall be responsible for staking line and grade of all construction features.

- (a) **Department Responsibilities.** The Department will locate and reference the centerline of permanent construction, stake the right-of-way lines, identify and verify bench marks, and take original and final cross sections for the roadway, borrow pits, channels, and all other earthwork construction features. The Engineer will set stakes to mark centerline/control line and establish bench marks for bridges and special structures as needed. When the centerline of survey and the construction reference line are not the same, the Engineer will set major control points on target and at the beginning and ending of curves on the construction reference line.
- (b) **Contractor Responsibilities.** Exercise care in the preservation of stakes and bench marks and have them reset when they are damaged, lost, displaced, or removed. Use competent personnel and suitable equipment for the layout work required. Do not engage the services of any person or persons in the employment of the Department or use Department-owned equipment for the performance of any work covered by this item.

Set all additional stakes needed, such as offset stakes, reference point stakes, slope stakes, pavement, curb line and grade stakes, stakes for bridges, sewers, roadway drainage, pipe underdrains, paved gutter, fence, culverts, or other structures—and any other horizontal or vertical controls necessary to secure a correct layout of the work. Stake centerline/control line of temporary features, such as shoo-fly detours. When earthwork quantities are specified to be measured by photogrammetry methods, clear and grub the entire project prior to the taking of the original photos or beginning the excavation work. Make stakes for line and grade adequate to maintain the specified tolerances for the operation being performed. Mark the station number and the distance from the centerline of construction on all grade stakes.

- (c) **Error Correction/Engineer Notification.** Furnish platforms and equipment necessary for the proper and safe access for checking the staking, and when significant errors occur, resurvey to the satisfaction of the Department.

NOTE: Any inspection or checking of the layout by the Engineer and the acceptance of all or any part of it shall not relieve the Contractor of the responsibility to secure the proper dimensions, grades, and elevation of the several parts of the work. Deviations resulting from plan errors will be resolved by the Department.

Advise the Engineer immediately of plan errors. Special surveys required to determine corrective action due to plan errors are the responsibility of the Department. Measure the profile of highway features to which the project will be connected—such as bridges, bridge approach slabs, and the surface of abutting projects—for approximately 30 meters. If the profile of the project and the profile of the existing feature will not connect in true tangency, yielding a smooth ride, immediately notify the Engineer. It is the intent that the finished surface have a smooth ride for the length of the project, including connections.

NOTE: Failure to make the referenced notification may result in a partial deduction of monies earned for contractor staking.

Perform all survey work, compilation of field notes, and documentation in accordance with the Oklahoma Department of Transportation “Guide for Construction Staking.”

642.05. METHOD OF MEASUREMENT.

Measurement for contractor construction *staking* will be made on a lump sum basis. Refer to Engineer Notification above.

642.06. BASIS OF PAYMENT.

Contractor construction staking, measured as provided above, will be paid for at the contract price as follows:

STAKING LUMP SUM

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified, including profile measurements of connecting features.

Payment for this item of work shall be on the following schedule:

- 25 percent** on first estimate
- 25 percent** when 10 percent of the contract work is completed
- 25 percent** when 50 percent of the contract work is completed
- 20 percent** when 75 percent of the contract work is completed
- 5 percent** when all construction features have been verified as properly placed and completed