ITEM 636

ALUMINUM SIGNS (TYPE A)

636.1. Description. This Item shall govern for furnishing, fabricating and erecting single piece reflectorized sheet aluminum signs of the various types and sizes as shown on the plans.


(1) Sign Blanks. Sign blank substrates shall conform with Departmental Materials Specification D-9-7110 and shall be of the sizes and thicknesses shown on the plans.

(2) Sign Face Reflectorization. Sign faces shall be reflectorized with flat surface reflective sheeting and shall be the colors and types shown on the plans. The reflective sheeting shall be from the same manufacturer for all signs of the same color and sheeting type. Sheeting shall be in accordance with Departmental Materials Specification D-9-8300.

(3) Sign Messages. Sign messages shall be the sizes, types and colors shown on the plans. The sign message material for all signs of the same sheeting type and color shall be from the same manufacturer.

(a) Screened messages shall have clean sharp edges. Messages and backgrounds shall have no runs, sags or voids and shall exhibit uniform color and reflectivity. Screen inks shall conform to Departmental Materials Specification D-9-8300.

(b) Reflectorized sheeting legend shall be made from materials conforming to Departmental Materials Specification D-9-8300. Unless otherwise shown on the plans, legend material shall be the same sheeting type as the sign face.

(c) Non-reflectorized sheeting legend shall be made from materials conforming to Departmental Materials Specification D-9-8320.

(4) Hardware. All bolts, nuts, washers, lock washers, screws and other sign assembly hardware shall be galvanized steel, stainless steel or dichromate sealed aluminum, in conformance to Departmental Materials Specification D-9-7120. When dissimilar metals are used, the metals shall be so selected or insulated to prevent corrosion.

636.3. Sampling. Sampling will be in accordance with Test Method Tex-726-I.

636.4. Fabrication.

(1) Sign Blanks. Sign blanks shall be the sizes and shapes shown on the plans, free of buckles, warps, burrs, dents, cockles and other defects resulting from fabrication. Sign face surface variation shall not exceed 1/8 inch per foot.

All fabrication of sign blanks, including cutting and drilling or punching of holes, shall be completed prior to cleaning, degreasing and application of the reflective sheeting. Following cleaning, the blanks shall not come in contact with grease, oils or contaminants prior to application of the reflective sheeting.

(2) Sheeting Application. Sheeting shall be applied to sign blanks in conformance with the recommended procedures of the manufacturer of the sheeting. When splicing of sheeting is necessary, the number of splices shall be held to a minimum. Splices shall be a minimum 1/4 inch lap. The minimum dimension for any one (1) piece of sheeting material shall be one (1) foot. Signs screened with transparent screen inks shall not be spliced.

(3) Attachment Hardware. Prior to erection of the signs, all attachment hardware visible on the sign faces shall be painted similar in color to the immediately adjacent sign face.
636.5. **Storage and Handling.** Completed sign blanks and completed signs shall be shipped, handled and stored in such a manner that corners, edges and faces are not damaged. Any damage to the sign faces which is not visible, when viewed at a distance of 50 feet as outlined in the Department's MANUAL OF INSPECTION: HIGHWAY SIGNS, will be acceptable. Unacceptable signs shall be replaced by the Contractor at the Contractor's expense. Finished signs shall be stored off the ground in a vertical position and protected from the weather until erected.

636.6. **Decals.** Sign identification decals shall be coded and applied in accordance with Item 643, "Sign Identification Decals".

636.7. **Cleaning.** Completed signs shall be washed with a biodegradable cleaning solution acceptable to the manufacturers of the sheeting and screen ink to remove all grease, oil, dirt, smears, streaks, finger marks and other foreign material prior to shop inspection and again prior to final inspection after erection.

636.8. **Measurement.** This Item will be measured by the square foot of sign face.

This is a plans quantity measurement Item and the quantity to be paid for will be that quantity shown in the proposal and on the "Estimate and Quantity" sheet of the contract plans, except as may be modified by Article 9.8. If no adjustment of quantities is required, additional measurements or calculations will not be required.

636.9. **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 "Aluminum Signs (Type A)" of the types and sizes specified. This price shall be full compensation for furnishing sign blanks; for fabrication of the sign blanks; for any treatment of sign blanks that might be required prior to application of the background materials; for application of the background materials and messages to the sign blanks; for screening messages as shown on the plans; for furnishing all bolts, rivets, screws, fasteners, clamps, brackets and sign support connections; for assembling and erecting the signs; for washing and cleaning the signs; and for all other materials, labor, tools, equipment and incidentals necessary to complete the work.