

OVERHEAD SIGN TRUSS CONSTRUCTION CHECKLIST

The following checklist has been developed to help identify important elements of overhead sign truss construction that need to be reviewed at time of staking, during installation, and verified at the time of final review and acceptance of the installation. This list is not all-inclusive and does not negate the Specifications or Project Plan Note requirements; it simply places emphasis on key areas where problems have been experienced in the past.

FOUNDATION STAKING:

The precise orientation and construction of the overhead sign truss foundations is critical to the accurate installation of all components of the overhead sign truss and its supports. Accurate staking of the truss foundations prior to any construction is essential.

	YES	NO
Are each of the truss foundations staked with the location of the centerline of the truss and the longitudinal centerline of the foundation?	_____	_____
Has the distance between the foundation longitudinal centerlines been checked to ensure the centerlines are parallel and at the plan distance for the truss dimension (centerline to centerline of the truss supports)?	_____	_____
Has elevation control been established at each foundation location?	_____	_____
Have all of the survey staking control been independently checked for accuracy?	_____	_____

FOUNDATIONS AND ANCHOR RODS:

Prior to foundation concrete placement the following should be checked. After concrete placement these checks should be verified in the final foundation as constructed

Is the center-to-center distance between the two anchor rod groups in the foundation within 1 inch of the plan location in the direction parallel with and perpendicular to the overhead truss?	_____	_____
Are the distances, along the length of the overhead truss, between the centers of the front and rear anchor rod groups of the two foundations within 1inch of each other?	_____	_____

Is the elevation of the top of the foundation within 1 inch of the plan elevation? _____

Is the foundation concrete free of spalls, severe cracks (wider than hairline), and damage near the anchor rod groups? _____

Are the anchor rod groups located accurately by template or other positive means with the centers of adjacent anchor rod groups within 3/16 inch of the correct plan distance apart? _____

Are the anchor rods plumb within 1/4 inch per foot from vertical? _____

Are the anchor rods set to project above the plan top of foundation elevation within 1/4 inch of plan specified projection? _____

ALUMINUM AND STEEL COMPONENTS:

Are truss components stored on level cribbing at the project site? _____

Are all welds free of cracks after installation? _____

Were nuts for aluminum truss bolted splices tightened to 200 ft-lb torque (using a calibrated torque wrench) with jam nuts locked to snug tight? (Note: Steel Is Turn – Of – Nut) _____

Is the damper, on aluminum truss, in place and secured with U-bolts and are the nuts and jam nuts snug tight? _____

Are the signs mounted with the correct number and orientation of angle supports? _____

Are all sign clips and U-bolt nuts snug tight with jam nuts locked to snug tight? _____

COMPLETED ALUMINUM AND STEEL STRUCTURE:

Are all leveling nuts within one anchor rod diameter of the top of foundation and tight against the bottom of the base plate? _____

Were all anchor rods tightened according to turn-of-nut procedure (in the plans) and the jam nuts locked to snug tight? _____

Is the rodent screen in place and secured? _____

Is the galvanizing of all steel parts free of gouges or holidays or any damage repaired as directed by the Engineer? _____

Are all truss columns plumb to within 1/16 inch per foot of vertical in two perpendicular directions?

Are all saddle shims and fabric or neoprene pads accurately placed within 1/8 inch of plan location?

Were the truss lower chord U-bolt nuts tightened to snug tight and the jam nuts locked to snug tight?

Is the stickout of each truss lower chord within 2 3/4 to 5 1/2 inches measured from the outer U-bolt to inside of chord end plate?

Were truss upper chord tightened to remove slack, so that the U-bolts are snug against the truss chord on each side of the truss, and jam nuts locked to snug tight?

Is the truss square within the supports such that the horizontal line between chords is level within 1/16 inch per foot of horizontal and the vertical line between chords plumb within 1/16 inch per foot of vertical?

