

**New Jersey Department of Transportation
QUALITY IMPROVEMENT ADVISORY**

QUALITY MANAGEMENT SERVICES

Director: Lynn Rich

Telephone: (609) 530-5367

QIA No. QIA041

Approved: L. Rich
Date: 4/7/06

Subject: Correct Use of Sign Support Structures

Process Affected:

Scope Design Right of Way Utilities Environmental Historic Construction

Bureaus Affected:

Structural Engineering
Construction Engineering
Maintenance Engineering

Procedure(s) Affected:

Nature of Issue(s):

It has been brought to the attention of Structural Engineering staff that installation of sign panels on sign support structures has occurred in recent projects by methods that do not conform to the standard detailing that is included in the "General Design Criteria and Standard Drawings for Overhead and Cantilever Sign Support Structures" standards.

The method that has been used entails the use of clip angles to secure the sign panel to an I-Beam. The above referenced Standards detail the use of 3/8 inch clip bolts to secure the sign panel. The use of clip angles does not assure a secure installation of the sign panel.

Recommendation(s):

The installation method of the sign panel should conform to the standard detailing. The standard detailing has been designed to assure a secure installation. In the review of working drawings, designers should verify that the standard detailing is called for (Standard Drawing OH-D9 for Overhead type sign support structures and Standard Drawing CA-D7 for Cantilever type sign support structures). During the field installation of the sign panels, field representatives should verify that the installation method conforms to the referenced Standard Details.

Implementation: Immediately

Impact Assessment:

Schedule Quality Cost Scope

Cost Impact:

N/A