

**NEW JERSEY DEPARTMENT OF TRANSPORTATION  
MEMORANDUM**

**TO:** All Bridge Inspection Staff,  
Structural Evaluation

**FROM:**  James Lane, Manager  
Structural Evaluation

**DATE:** February 5, 2009

**PHONE:** 5-3572

**SUBJECT:** Revision to the 2003 Recording and Coding Guide for the  
Structure Inventory and Appraisal of New Jersey Bridges  
Evaluation of SI&A Items AH, AQ and field note Chain Link Fence page

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Additional clarifications are provided for SI&A Items AH and AQ and the Chain Link Fence field note page in order to prevent any further confusion regarding these areas.

Revised copies of the relevant pages are attached for inclusion in your Coding Guide in addition to the revised field note page.

In addition, the revised pages have been incorporated in the Coding Guide available on the Department's website.

RCP/JL

c: Richard W. Dunne

**ITEM AG - TYPE OF BRIDGE RAILING (CONTINUED)**

| <u>Code</u> | <u>Railroad Description</u>  |
|-------------|--|
| 07 =        | Concrete Balustrade  |
| 08 =        | Solid Wall (Concrete)—Includes NJ Barrier Type   |
| 09 =        | Solid Metal (includes Thru-Girder Type)  |
| 10 =        | Concrete - Metal Combination   |
| 11 =        | Concrete with Wooden Top Rail  |
| 12 =        | Concrete with Wooden Top Rail and Wood Bumper Rail   |
| 13 =        | All Wood Railing   |
| 14 =        | Pedestrian Railing (to be used adjacent to a sidewalk when Highway Traffic is separated from Pedestrian Traffic) |
| 15 =        | Caged Pedestrian Bridge Railing—Pedestrian Bridges   |
| 16 =        | More than one type of Railing  |
| 17 =        | Encased Thru-Girder type   |
| 18 =        | None of the types above  |
| 19 =        | Approach roadway guide rail carried across the culvert   |

If a supplementary W-beam guide rail has been added in front of the original bridge railing, modify the previous codes as follows:

Add “20” to previous code if the W-beam railing is mounted on the deck, sidewalk, safetywalk or curb.

Add “40” to previous code if the W-beam railing is mounted on the original bridge railing or superstructure.

**ITEM AH - HEIGHT OF BRIDGE RAILING**

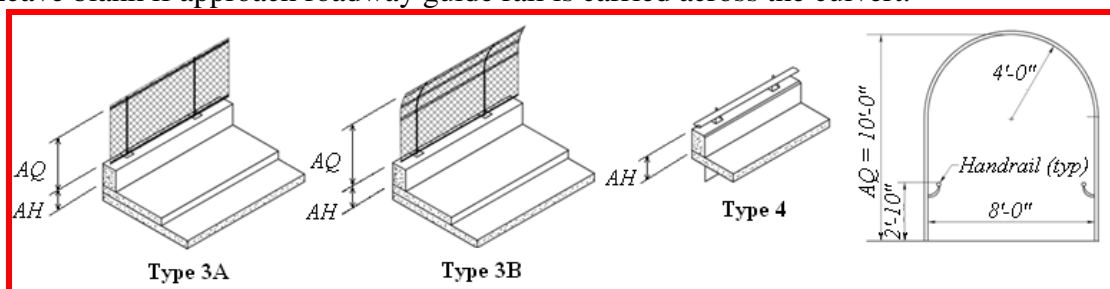
DIGITS 3

Code the height of the bridge railing to the nearest hundredth of a foot in the space provided.

The height of the bridge railings that are mounted atop sidewalks should be measured from the top of the sidewalk. For bridge railing systems that are mounted with the face flush with the sidewalk, brush curb or curb (typically bridge mounted steel w-beam types), measure the height from the top of the deck slab.

**Examples:**     3’ - 6” = 350                             4’ - 0” = 400

Leave blank if approach roadway guide rail is carried across the culvert.



**ITEM AP - FENDER SYSTEM**

DIGIT 1

Code the type of Fender system under the structure according to the following codes:

| <u>Code</u> | <u>Type of Utility</u>   |
|-------------|--------------------------|
| Blank       | None                     |
| 1           | Timber Bents             |
| 2           | Cofferdam Fenders        |
| 3           | Steel Piles              |
| 4           | Steel or Concrete Frames |
| 5           | Timber Grids             |
| 6           | Floating Fenders         |
| 7           | Butyl Rubber             |
| 8           | Combination Type Fender  |
| 9           | Dolphins Only            |

**ITEM AQ - CHAIN LINK FENCE HEIGHT**

DIGITS 4

Code the height of the chain link fence on the bridge to the nearest hundredth of a foot in the space provided. Leave blank if there is no chain link fence on the bridge (Note: See bottom of Page S-16 for schematic).

Examples: 4'-6" = 0450  
10'-3" = 1025

**ITEM AR - SPECIAL EQUIPMENT**

DIGITS 3

Code one digit (right justification) for each of the following special equipment used:

| <u>Equipment</u>                          | <u>Code</u> |
|---|-------------|
| Small Boat (less than 16' long)           | A           |
| Large Boat                                | B           |
| Crane                                     | C           |
| Large Snooper (Reach All, etc.)           | D           |
| Cherry Picker/Bucket Truck                | E           |
| Fathometer                                | F           |
| Vertical Lift Truck                       | G           |
| Large Ladder (over 24' long)              | L           |
| Rigging                                   | R           |
| Snooper (Paxton-Mitchell, etc.)           | S           |
| Timber Testing (moisture, Borings)        | T           |
| UT Thickness Gauge                        | U           |
| Barge/Pontoon Boat w/Manlift or Crane     | P           |
| Maintenance & Protection of Traffic (MOT) | M           |

Leave blank if no special equipment is used. If more than three types of special equipment are used, code the most important.

# CHAIN LINK FENCE

Coding of SI&A Item FN: \_\_\_\_\_

Coding of SI&A Item FO: \_\_\_\_\_

Coding of SI&A Item FP (in thousands): \_\_\_\_\_

|   |                  |                   |
|---|------------------|-------------------|
| Warranted (Per Design Manual Section 23):                   | Yes/No           |                   |
| If Yes: ( # ) Description:                                  |                  |                   |
| <u>Current Status of Fence &amp; Sidewalk:</u>              | <u>Left Side</u> | <u>Right Side</u> |
| a. Fence:   | Yes/No           | Yes/No            |
| b. Sidewalk Width:  | FT               | FT                |
| c. Total Height of fence above Curb/Sidewalk (Item AH + AQ) | FT               | FT                |
| d. Type of Fence:<br>(per Design Manual Section 23)         |                  |                   |
| Action Recommended:   |                  |                   |
| Estimated Cost: \$  |                  |                   |