DESIGNER NOTES

The details shown on Standards 13.10 and 13.11 are for vehicle protection and are used with existing structures. Consider providing an additional transition section adjacent to the other exterior pier column for the following conditions:

- Traffic control needs may cause the direction of traffic adjacent to barrier to be reversed.
- Hazards may exist in this region that require shielding.

Contact the regional office for verification of any of these conditions.

These details may be used for test levels TL-3/TL-4.

For vehicle protection, see FDM 11-35-1 to determine when beam type reinforcing is required for protection and the type of beam for permanent barrier should be used.

INTEGRAL BARRIER DETAILS

BUREAU OF STRUCTURES

STANDARD 13.11

Bill Oliva

DATE: 7-16

51-INCH VERTICAL CONCRETE BARRIER AND TRANSITION

SEE STANDARD 13.10 FOR ADDITIONAL DETAILS

ADHESIVE ANCHOR LAYOUT

BAR BENDING DIAGRAMS

BAR DIMENSIONS ARE OUT TO OUT OF BAR

51-INCH VERTICAL CONCRETE BARRIER TRANSITION

SECTION A-A

BETWEEN COLUMNS

SECTION B-B

TRANSITION REGION