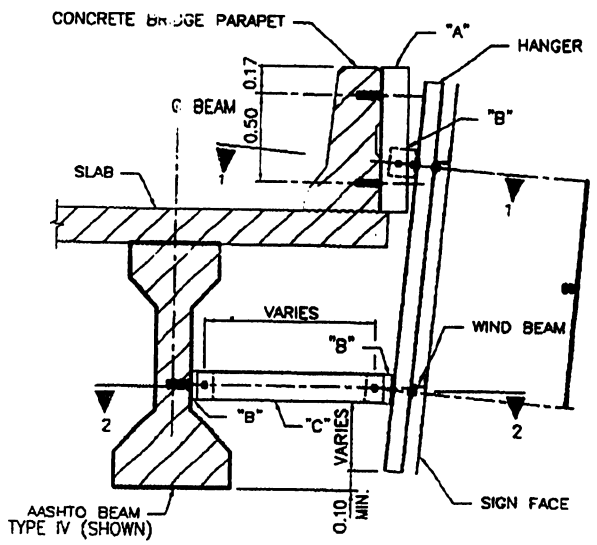
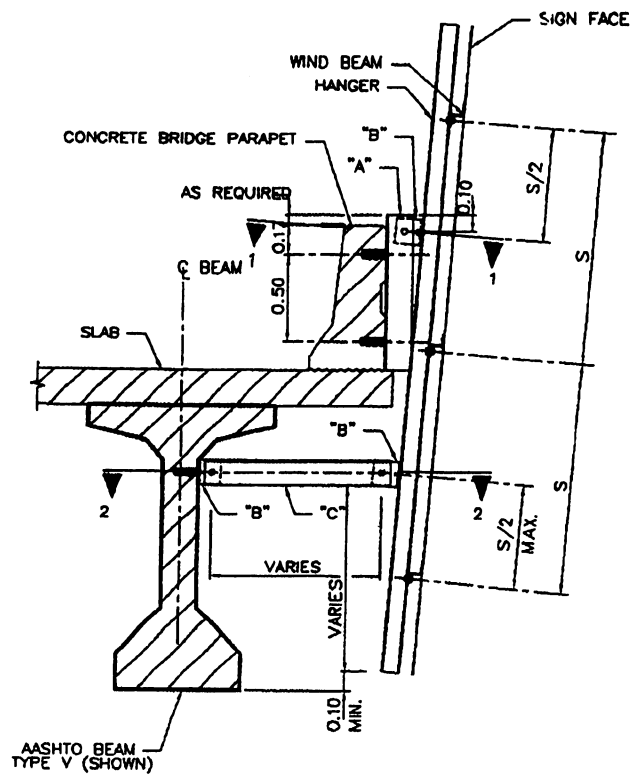



TYPICAL SECTION FOR BEAMS
TYPE I, II, III, & IV
(2) WIND BEAM FRAME PANEL SHOWN




TYPICAL SECTION FOR BEAMS TYPE V & VI
(3) WIND BEAM FRAME PANEL SHOWN

| MEMBER | MATERIAL | | LENGTH (m) |
|---|---|---|---|
| | ALUMINUM | STEEL | |
| A | L 4"x6"x3/8" | L 4"x6"x3/8" | 0.81 MIN. 1.20 MAX. |
| B | L 4"x6"x3/8" | L 4"x6"x3/8" | 0.15 |
| C | L 6"x6"x3/8" | L 6"x6"x3/8" | 3.50 MAX. |

## MATERIALS:

1. DESIGN, CONSTRUCTION, MATERIALS, HANGERS, WIND BEAMS, SIGN PANEL AND ALL OTHERS DETAILS OF THE SIGN ASSEMBLY SHALL BE AS REQUIRED IN THE OVERHEAD SIGNS STANDARD DRAWINGS (OHTS).
2. STRUCTURAL STEEL : AASHTO M270 GRADE 36 (ASTM A36)
3. ALUMINUM MATERIAL : TYPE 6061-T6
4. HIGH STRENGTH BOLTS : AASHTO M164 TYPE 1 (ASTM A325). BOLTS AND NUTS SHALL BE ZINC-COATED TO EITHER AASHTO M232 (ASTM A153) FOR CLASS C OR AASHTO M298 (ASTM B695) CLASS 50, TYPE 1. WASHERS SHALL BE INSTALLED AT ALL BOLT CONNECTIONS.
5. HILTI HVA ADHESIVE SYSTEM:
   - HAS STANDARD ROD AASHTO M270 GRADE 36 (ASTM A-36)
   - HVU ADHESIVE CAPSULE
6. ALL STEEL SHAPES, ANGLES, TEES AND PLATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM M-111.
7. BRACINGS SHALL BE INSTALLED AT ALL HANGER LOCATION. NUMBER AND SPACING OF HANGER SHALL BE AS PER THE SIGN PANEL ASSEMBLY (OHTS).

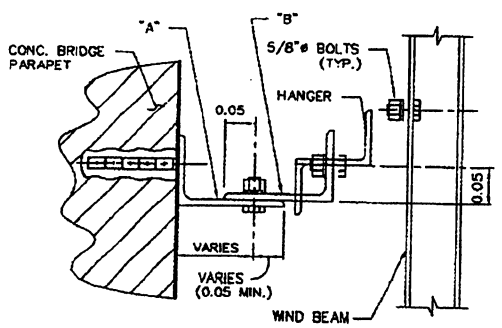
## NOTES:

1. ALL HANGER SHALL BE FASTENED TO THE SUPPORTING FRAMING AS PER DETAILS SHOWN.
2. FOR BEAMS OTHER THAN AASHTO PRESTRESSED BEAMS AND DIFFERENCE SUPERSTRUCTURES, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE APPROVAL BY THE AUTHORITY.
3. ALL BOLTS SHALL BE 5/8 INCH.

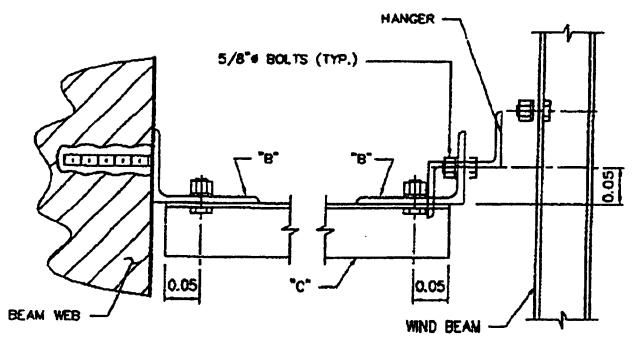
## LEGEND:

EXISTING STRUCTURE

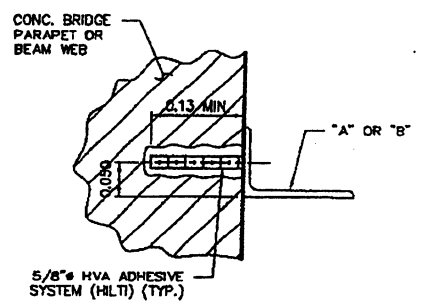
S - SPACING BETWEEN WIND BEAMS




SECTION 1-1




SECTION 2-2




TYPICAL ANCHOR DETAIL

EFFECTIVE DATE: AUGUST 1999

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

# SIGNS BRIDGE CONNECTION SKEW ANGLE FROM 0° TO 10°

RECOMMENDED BY:
ASST. EXC. DIR. FOR TRAFFIC
DATE : 8-11-99

APPROVED BY:
EXECUTIVE DIRECTOR
DATE : 8/11/99

APPROVED BY: Eddie Rivera
DIV. ADM. FHWA-PR DIVISION
DATE : 8-11-99

| DATE | REVISION | BY |
|---|---|---|
| | | |

STD. DWG. SBC 1 OF 2