NOTES

1. All material and workmanship shall be in accordance with the requirements of the Washington State Department of Transportation Standard Specifications for Road, Bridge, and Municipal Construction.

2. The analysis and design for Adaptors 1 and 2 have been done in accordance with AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals - Fifth Edition - Dated 2009, and Interims, using basic wind speed of 90 MPH and 50 years of design life.

3. Adaptors' parameters are based on field data and existing signal standard anchor bolts and bolt circles. Adaptor 1 shall be used for 15' (ft) thru 45' (ft) mast arm signal standards and Adaptor 2 for 46' (ft) thru 65' (ft).

4. Adaptors shall only be used for temporary installation of knocked down signal standards.

5. Materials specifications:
   - All structural steel, except as otherwise noted
   - Pipes: ASTM A572 GR. 50 OR ASTM A588
   - Connecting/clamping bolts: ASTM F3125 GRADE A325
   - Washers: ASTM A563 GRADE DH
   - Nuts: AASHTO M 525 (ASTM F436)
   - Washers: ASTM A527 GRADE 50 OR A527 GRADE B
   - Pipes: ASTM A588 or otherwise noted

6. All bolts, rods, and related hardware shall be galvanized after fabrication per ASTM F2329.

7. Steel surfaces shall be galvanized after fabrication in accordance with AASHTO M 111.

8. Install and secure adaptor to existing support anchor bolts. Then install signal standard on adaptor top plate. Rake to be plumb after all load has been placed.

9. All holes in top and bottom plates of Adaptor 1 and Adaptor 2 are thru holes. See engraved or stamped text for bolt hole diameter.

DETAIL A

ENSURED FONT (TYP.)

FONT SHALL BE ENGRAVED OR STAMPED 0.02" (IN) DEEP

ABCD

SECTION A

ADAPTOR 1 TOP

See Note 9 (TYP.)
REDUCTIBLE ADAPTOR LIFTING TOOL

ASSEMBLED VIEW
ADAPTOR LIFTING TOOL
WITH ADAPTOR 2 SHOWN
ADAPTOR LIFTING TOOL
WITH ADAPTOR 1 SHOWN

STANDARD ADAPTOR
TEMPORARY SIGNAL
STANDARD PLAN J-26.20-01

STATE DESIGN ENGINEER
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

SECTION 1

ELEVATION VIEW
ADAPTOR LIFTING TOOL
REMOVE ALL BURRS AND SHARP EDGES

ADAPTOR 2 TOP PLATE SHOWN
(ADAPTOR 1 TOP PLATE SIMILAR)

2 - 2" (IN) DIA. BOLTS WITH WASHERS FOR 22" (IN) B.C.
2 - 1-1/2" (IN) DIA. BOLTS WITH WASHERS FOR 18" (IN) B.C.

ADAPTOR 1 TOP PLATE SHOWN

22" B.C.
18" B.C.
12"

6" (IN) RADIUS
(TYP.)
3/16" (IN) THICK PLATE
(TYP.)
2" (IN) DIA. HOLE
1" (IN) RADIUS
(TYP.)

13-1/2"
13-1/2"
15" B.C.

2-1/4" (IN) DIA. HOLE
(TYP. OF 2 PLACES)
7-1/2" (IN) x 10-3/8" (IN) x 3/16" (IN)
THICK PLATE (TYP.)

1-3/4" (IN) DIA. HOLE
(TYP. OF 2 PLACES)

7-1/2"
12"
7-1/2"
32" B.C.

4" B.C.

1" (IN) RADIUS
(TYP.)

THICK PLATE (TYP.)
7-1/2" (IN) x 10-3/8" (IN) x 3/16" (IN)
THICK PLATE (TYP.)

ADAPTOR

2-1/4" (IN) DIA. HOLE
(TYP. OF 2 PLACES)
7-1/2" (IN) x 10-3/8" (IN) x 3/16" (IN)
THICK PLATE (TYP.)

ADAPTOR

1-3/4" (IN) DIA. HOLE
(TYP. OF 2 PLACES)

7-1/2"
12"
7-1/2"
32" B.C.

16" B.C.

5-3/16"