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SURVEYED BY _____
SUPERVISED BY AAA
DESIGNED BY BBB

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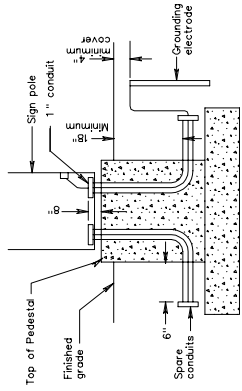
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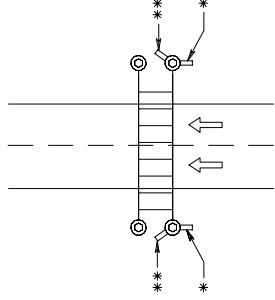
REVISION	STATE	FEDERAL AID	ROUTE	STATE	PROJECT	SHEET NO.
	VA.					

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TYPICAL SIGN FOOTING DETAIL WITH CONDUIT



LOCATION OF FUTURE USE CONDUITS FOR DOUBLE END POLE STRUCTURES



NOTES:

The type, size, number and orientation of conduits entering and exiting footings may vary per sign location.

In addition to the conduits specified on the plans, one 1" conduit shall be installed for future use. Future use conduits shall be stubbed out and capped. Future use conduits shall be oriented to run parallel to the roadway. For location of future use conduits in foundations for double end pole structures, see drawing at right.

Each foundation shall be permanently marked to indicate alidates from finishing the concrete and shall be 1/4" deep and 4" to 6" long. Locations of empty conduits shall have an additional 2" long mark made perpendicular to and centered on this mark.

Foundations above finished grade shall be chamfered 3/4" on all edges.

Grounding bushings shall be installed on each end of metal conduits.

Bel ends shall be installed on each end of PVC conduits.

Bel ends & bushings of empty conduits shall be plugged to prevent moisture and rodent entry.

Voids remaining after conductors exit or enter bell ends or bushings of conduits shall be sealed with silicone to prevent moisture and rodent entry.

No mortar, grout, or concrete shall be placed between bottom of base plate and top of pedestal.

* Future use conduits placed parallel to the roadway.

** Future use conduits placed at an angle to miss the pedestal. Anchor bolts in a spread footing foundation.

The maximum space between the bottom of the base plate diameter of the anchor bolt plus one inch.

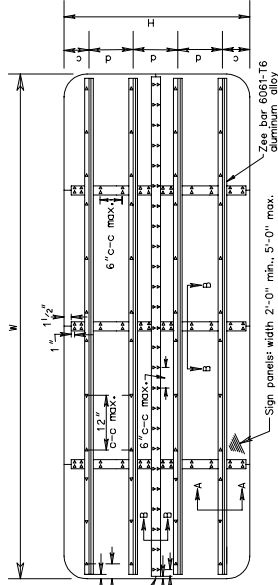
Overhead sign structures including "butterfly" structures shall consist of an anchor bolts, each having a minimum diameter of 1/2".

TYPICAL DETAILS FOR OVERHEAD SIGN STRUCTURES

VIRGINIA DEPARTMENT OF TRANSPORTATION

REV. 7/05
REV. 4/04
130176

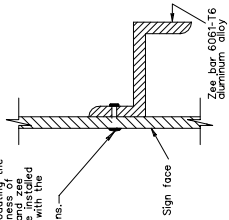
SPD-1



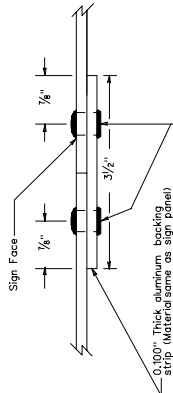
Signs having a height of 10' or more shall have one horizontal joint. All joints shall be between lines of message.

SECTION A-A
TOP AND BOTTOM ZEE BAR INSTALLATION ON OVERHEAD SIGNS

3/4" diameter, neck break mandrel, blind rivets shall be installed in accordance with the Standard, IF-14, Style 1 that the minimum ultimate tensile strength shall be 20,000 lbs. Rivets shall have a grip range accommodating the thickness of the sign panel and zee bar and shall be installed in accordance with the manufacturer's recommendations.



SECTION B-B
TOP AND BOTTOM ZEE BAR INSTALLATION ON OVERHEAD SIGNS



Rivet (Same as used for connecting sign to zee bar), in lieu of using rivets, sign equal to 3M's Vite Double Coated Acrylic horizontal backing strip. Tape shall be installed in accordance with the manufacturer's recommendations.

SIGN PANEL DESIGN

VIRGINIA DEPARTMENT OF TRANSPORTATION

REV. 2/06
REV. 7/05
130179

REV. 2/06
SPECIAL DESIGN SECTION
DRAWING NO. A - 157

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
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