

B950

Anchor Bolt Cluster For Light Poles

Approved and signed, August 24, 2016.

Approved 08-24-2016

GENERAL:

This detail was completely redesigned with 2 new alternatives for holding the anchors in place (anchor bar alternate and anchor plate alternate). The welded cage alternate was eliminated.

The design of the anchorage and the notes were updated to comply with current best practices for design, construction, and maintenance.

The notes were also updated to use active voice.

A Designer Note was added.

The anchor length table was updated to include Type S and other barrier/parapet types.

03-02-2005

At ELEVATION: changed 4" MIN. to 5" MIN.

Under NOTES: changed ...FLAT WASHERS PER Mn/DOT SPEC. 3391.2B FOR ... to ...FLAT WASHERS PER Mn/DOT SPEC. 3391.2A FOR ...

10-26-2004

Changed title *from* LIGHT POLE ANCHORAGE *to* ANCHOR BOLT CLUSTER FOR LIGHT POLES

At ELEVATION:

- per rod, changed three heavy hex nuts to two heavy hex nuts, two flat washers, and two jam nuts.
- Changed note ③ to SEE DETAIL "A". Added DETAIL "A".

Removed ALTERNATE I NOTES and ALTERNATE II NOTES.

Under NOTES: changed ...

ALL RODS ARE TO BE 1" NOMINAL DIA.

TOP OF THE LOWER NUTS SHALL BE FLUSH WITH TOP OF CONCRETE RAILING. WRAP THE THREADS BELOW THE NUTS WITH 3 LAYERS OF PLASTIC ELECTRICAL TAPE.

SUBSTITUTE MATERIALS AS PER Mn/DOT SPEC. 1605.

to ...

ALL RODS ARE TO BE 1" NOMINAL DIA. WITH 1 - 8UNC - 2A THREADS. HEAVY HEX NUTS, JAM NUTS, AND FLAT WASHERS PER Mn/DOT SPEC. 3391.2B FOR 1"DIA. THREADED RODS. NUTS TO BE TAPPED $\frac{1}{64}$ " OVERSIZED PRIOR TO GALVANIZING, AND RETAPPED TO STANDARD SIZE AFTER GALVANIZING.

GALVANIZE THREADED RODS, CAGES, AND NUTS AFTER FABRICATION AS PER Mn/DOT SPEC. 3392.

TOP OF THE LOWER NUTS SHALL BE FLUSH WITH TOP OF CONCRETE RAILING.

SUBSTITUTE MATERIALS PER Mn/DOT SPEC. 1605.

① THREADED RODS, STEEL AS PER Mn/DOT SPEC. 3309, 3310, OR 3385 TYPE B (6 REQUIRED).

② PROVIDE A MECHANICAL OR WELDED CAGE FOR ROD ALIGNMENT. STEEL AS PER Mn/DOT SPEC. 3306 (2 REQUIRED).

③ HEAVY HEX NUTS FOR 1" DIA. RODS (12 REQUIRED).

④ FLAT WASHERS FOR 1" DIA. RODS (12 REQUIRED).

⑤ JAM NUTS FOR 1" DIA. RODS (12 REQUIRED).