



MEMO

February 27, 2014

To: District Engineers

From: Gregg A. Freeby, P.E., Director
Bridge Division

Carol T. Rawson, P.E., Director
Traffic Operations Division

Subject: Revised Roadway Illumination Details Standard Sheets

The Bridge Division (BRG), with assistance from the Traffic Operations Division (TRF), has revised the Roadway Illumination Details, RID(IF) - 14 and RID(UP) - 14 standard sheets. These sheets were revised to update structural mounting details and to remove the use of epoxy anchors in vertical tension. The new standard sheets will be applicable to all new construction projects beginning with the July 2014 letting.

A summary of changes is as follows:

RID(IF) - 14:

- Disallowed adhesive (i.e. epoxy) anchors.
- Reduced required pullout strengths of overhead anchors for mounting Types "BD" and "BB" to provide a more uniform and appropriate factor of safety.
- For Type "BD," specified a 2" steel pipe stanchion with a maximum length of 3' to accommodate beam heights up to 54". Specified a 2 1/2" steel pipe stanchion with a maximum length of 5' to accommodate beam heights over 54" to provide an appropriate factor of safety.
- Changed horizontal member for mounting Type "UB" from steel plate to steel channel and put a limit on its length to provide an appropriate factor of safety.

RID(UP) - 14:

- Specified a 2 1/2" steel pipe for upper portion of Underpass Lighting Arm Type 2 to accommodate beam heights greater than 54" and provide an appropriate factor of safety.
- Increased the diameter of RMC from 1 1/2" to 2" for UNDERPASS LIGHTING ARM TYPE 1 to provide an appropriate factor of safety.

Both RID(IF) and RID(UP) - 14:

- Revised scope of items to be galvanized.

OUR GOALS
MAINTAIN A SAFE SYSTEM ▪ ADDRESS CONGESTION ▪ CONNECT TEXAS COMMUNITIES ▪ BEST IN CLASS STATE AGENCY

An Equal Opportunity Employer

The revised standard sheets are available in MicroStation and PDF formats at the following web address:

<http://www.dot.state.tx.us/insdot/orgchart/cmd/cserve/standard/toc.htm>

If you have questions, please contact Tim Bradberry at (512) 416-2179, Greg Jones at (512) 416-3121, or me at (512) 416-3200.

cc: ADM
AUD
CST
DES
District Traffic Engineers
GSD
LGP
MNT
OCC
PRO
SPD
TPP
Tim Bradberry, BRG
A.P. Boyd, AGC
Thomas Bohuslav, AGC
Gregory Brinkmeyer, ATSSA
William R. Lowery, P.E., TEEX
Salvador Mercado, P.E., TEEX
Mark Olson, P.E., FHWA, Texas Division
John Rice, Hossley Lighting Associates