

From: [Thayer, Terry](#)
To: [Schroedel, Chris \(Design Office\)](#)
Subject: FW: Design Manual Chapter 1040 Illumination for review and comment by November 30, 2011
Date: Wednesday, November 30, 2011 7:28:42 AM

Fyi – there is one comment for this revision of design manual chapter 1040 in blue lettering.
Let me know when all comments are in and I will help accept / reject or defer them.

From: Villnave, Michael
Sent: Tuesday, November 29, 2011 2:38 PM
To: Thayer, Terry
Subject: RE: Design Manual Chapter 1040 Illumination for review and comment by November 30, 2011

Terry,
OR traffic and Signal compiled comments. I think most of these comments are above what you had envisioned for this chapter revision, but thought it would be good to get out there for future considerations.
Read through and if you have any questions call me and I will try to explain what the issues are.

There is talk about scaling back on some of the illumination design areas, would now be a good time or will there be another update?
(Mike)

Division 1040.07(3). When entering long tunnels, I thought HPS lamps should not be used in the transition zones. The purpose of the transition zone is to let your eyes adjust. Isn't HPS too soft of a light to do this effectively. (Ray)

The following are from Signals

1040.05 Required Illumination – Evaluate Upgrade

Many of our existing systems in SIMMS do not have a beginning date, so this is stating something we cannot do for most of our systems

1040.05(10) Intersections with Traffic Signals (and Exhibit 1040-9)

On some routes in Olympic Region the left turn and right turn pocket illumination is tied into the signal system, can we add a note to clarify the local agency role when installed within city limits? However, we still want to maintain the illumination tied to signal poles.

1040.05(13) Midblock Pedestrian Crossings

Clarify how this is done inside city limits and who owns the system and clarify local agency roles.

1040.05(17) Truck Weigh Sites (and Exhibit 1040-18)

WSP likes to control the illumination over the scales, again can we show the breakout of ownership

1040.05(21) Bridge Inspection Lighting

Add note to identify electrical outlets are also required

1040.07 (4) (a) Light Standards on State Highway Facilities

We also use 30' light standards in some urban applications and to avoid overhead power lines

The preferred location allowed 4 foot either side of the edge line for light standard, we recommend this still be allowed. This adds flexibility in the field to avoid ditch bottoms, underground and overhead conflicts etc.

1040.07 (4) (c) Standard Luminaire

Suggest we use a 400 W fixture as the standard, 310 W are special order and more expensive units, parts are also more expensive.

From: Thayer, Terry
Sent: Wednesday, October 19, 2011 5:05 PM
To: Do, Duke; Frostad, Larry; Hert, Corey; Hokanson, Dave; Stull, Robert; Villnave, Michael
Cc: Schroedel, Chris (Design Office); Calais, Keith
Subject: FW: Design Manual Chapter 1040 Illumination for review and comment by November 30, 2011

To Technical Experts:

Please review these changes and send your responses to your Region "Points of Contacts (POC)", using the directions included in the link below. If your region POC is not included in the TO line below, send your comments to Chris with a CC to me. (yes Larry, I realize you are a POC as well as a Technical Expert). Comments due end of November.

The Technical Expert team will be formed later to address the questions discussed at the TE meeting. I sent the bridge inspection lighting change ahead so that we can slow down and then stop the C.O.'s that are happening with some of the current bridge designs tied to design build RFP's.

Terry

From: Schroedel, Chris (Design Office)
Sent: Wednesday, October 19, 2011 4:31 PM
To: Frostad, Larry; Sadia, Mosstafa; Drye, Jay; George, Cathy; MacClellan, Lee; Zimmerman, Sharon; Bellinger, Dave; Kelsey, Stacie; Bailey, Ted; Robbins, Elizabeth (HQ Community Planning); Milton, John; Petersen, Don (FHWA)
Cc: Thayer, Terry; Rosa, Michael A.; Olson, Dave; Lippincott, Greg; Berends, Terry; Barry, Ed (HQ Design); Zeller, Scott
Subject: Design Manual Chapter 1040 Illumination for review and comment by November 30, 2011

Design Manual Points of Contact:

Some revisions have been made to Chapter 1040 Illumination related to bridge inspection lighting. This results in about 3 or 4 pages for your review. I understand the Traffic office is planning a larger revision to this chapter next year.

The draft revisions are available at the link below.

<http://www.wsdot.wa.gov/Design/Manual/ActiveRevisions.htm#1040>

Please reply by the end of November.

Thanks,

Chris Schroedel
HQ Design Office