



# MEMO

February 22, 2024

**To:** District Engineers

**From:** Michael A. Chacon, P.E.  
Director, Traffic Safety Division

DocuSigned by:  
*Michael A. Chacon, P.E.*  
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**Subject:** High Mast Illumination Details Standard Sheets, HMID-24

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Attached are revisions to the High Mast Illumination Details standard sheets. Descriptions of revisions are as follows:

#### HMID-24

- Minor enhancements to figures, tables, and notes for clarity and consistency.

#### HMID(1)-24

- Modified lightning protection to meet latest NFPA 780 requirements.
  - Added Detail "A" – Bronze Service Post Connector and Detail "B" – Air Terminal Base.
- Removed Section C-C – option "For Trunnion Mount".
- Removed Section C-C – option "For Floodlights".
- Specified bolt torque to 30 ft-lb – Detail "C".
- Revised cable grip assembly in Section D-D.

#### HMID(2)-24

- Revised threaded hole for post connector on Details "F" and "G".
- Revised weld in Detail "G".

#### HMID(3)-24

- Revised round bar to be 3" – Detail "J".
- Added note reference for wire rope clip installation – Detail "K".
- Specified pulley cover to be galvanized sheet metal – Plan Detail "M".
- Relocated Ring for Safety Lanyard on Cover Cap Assembly – Detail "M".
- Revised Safety Lanyard Detail.
- Moved pulley material specification to DMS-11021 – Section G-G.
- Specified bolt torque to 70 ft-lb – Detail "H".

#### HMID(4)-24

- Revised cord grip assembly – Detail "Q".
- Modified disconnect and added Arc Flash labeling to comply with NEC – Section J-J.
- Removed rotation note – Detail "Q".
- Revised winch plate bolts to ½" S.S. (stainless steel) – Detail "P".
- Added grounding bushings – Detail "R".

## HMID(5)-24

- Changed Obstruction Light spec to LED – Detail “U”.
- Revised Lighting Mounting Ring.
  - Moved ring-mounted junction box material spec to DMS-11021.
  - Revised transformer rating from 0.75 kVA to 0.10 kVA.
  - Revised liquidtight flexible metal conduit (LFMC) routing.
  - Specified LFMC strapping – Note 4.
- Revised Terminal Box Notes.
  - Specified wire gauges from terminal blocks to junction boxes, dependent on voltage source.
  - Removed option for a 2-wire, 480V service.
- Removed option for 50 AMP circuit breaker from One-Line Schematic.

## HMID(6)-24

- Revised Luminaire Arrangements.
  - Added 10, 8, 6, and 4-Light Settings.
- Revised Luminaire Mounting Assembly.
  - Changed to LED.
- Removed Floodlights Only option.

## HMID(7)-24

- Moved material information to DMS-11021.
- Revised photocells for obstruction lights from ring-mounted to fixture-mounted photocells – Note 1, Section B.

## HMID(8)-22

- Removed – relocated notes to HMID(7)-24 and material information to DMS-11021.

## HMID(9)-22

- Removed – relocated notes to HMID(7)-24 and material information to DMS-11021.

The standard sheets may be used immediately and shall be used for all applicable PS&E sets beginning with the August 2024 letting. The new sheets are available in MicroStation® “dgn” and Adobe® “pdf” formats at the following address:

<http://www.txdot.gov/insdtdot/orgchart/cmd/cserve/standard/toc.htm>

If you have any questions, please contact me at (512) 416-3200 or Rafael Riojas at (512) 416-3120.

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Attachment