



Hillsborough County Florida

ENGINEERING & OPERATIONS DEPARTMENT

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TRANSPORTATION DESIGN BULLETIN 20-10

DATE: September 25, 2020

TO: County Director of Capital Programs Department,
County Manager of Construction Services,
Division Director of Transportation Maintenance,
County Project Managers and Project Engineers of Record

FROM: County Engineer,
County Director of Engineering & Operations Department,
County Director of Technical Services Division,
County Manager of Transportation Services Section

COPIES: County Director of Geospatial & Land Acquisition Services Department

SUBJECT: **HILLSBOROUGH COUNTY TRAFFIC SIGNAL MAST ARM POLICY**

This bulletin announces the policy to require Mast Arms for all signal installations, within Hillsborough County, except when maximum mast arm length is exceeded.

REQUIREMENTS

Hillsborough County requires all permanent signal structures installed within the County to be mast arms except when the maximum arm length of 78 feet is exceeded. Steel strain poles must be utilized, when the mast arm maximum length is exceeded, and all signal heads will be supported by two-point span wire assemblies with adjustable hangers. Span wire assemblies are to be either box spans, perpendicular spans, or drop box spans. The box span is the preferred configuration. Diagonal span assemblies may only be used when all other alternatives have been proven not to meet the dimensional and structural requirements. Diagonal spans will require approval by the Hillsborough County Traffic Engineering Section.

BACKGROUND

Hillsborough County has required mast arm installation at all new and retrofitted signals to protect the traffic signal system from damage during tropical storms and hurricanes for several years, however, the policy was never formally stated. This design bulletin formally states the mast arm requirement policy.

IMPLEMENTATION

Effective Immediately.

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CONTACT

Please use the email link below to address any questions or comments in reference to this Design Bulletin:

[PW-Standards Inquiry](#)

Recommended / Date:

Approved / Effective Date:

Leland Dicus, Professional Engineer
Technical Services Division Director

Michael J. Williams, Professional Engineer
County Engineer