



**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**  
**TRAFFIC OPERATIONS DIVISION**  
SUITE 1800, JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-1402  
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**HOWARD H. ELEY**  
COMMISSIONER


**BILL LEE**  
GOVERNOR

**TRAFFIC MEMORANDUM NO. 2404**

**Traffic Signal Design Standards**

**Effective October 4, 2024 Letting (July 24, 2024 Turn-in)**, the attached list of traffic signal items shall be the minimum standard for traffic signal items included in design projects.

Deviations from these traffic signal design standards can be considered upon written approval by the TDOT Traffic Design Division.

  
Andrew Barlow (May 13, 2024 10:38 CDT)

**Andy Barlow, PE**  
Director  
Traffic Engineering Division

AB:skb  
Attachment

## Traffic Signal Standards for Design Plans

ITEM	STANDARD	NOTES
Vehicular Signal Heads	Polycarbonate Plastic	Local preference for housing color and Flashing Yellow Arrows (FYA)
Pedestrian Signal Heads	Countdown	
Pedestrian Pushbuttons	APS	
Vehicular Detection	Radar/Video	
Cabinets	ATC	
Controllers	ATC	
Conflict Monitors	Compatible with ATC Controller	
Battery Backup System	Safety Item	Local preference since batteries will need to be maintained
Signal Poles*	Mast Arms	If mast arms cannot be installed, then Strain Poles are installed
Signal Pole Finish*	Galvanized/Color/Powder Coated	Local preference for finish type
Luminaires on Signal Poles*	Safety Item	Local preference since lighting fixtures will need to be maintained
Overhead Street Name Signs	Single Sided and Single Stacked Text	Local preference to furnish their own Street Name Signs

\*When requesting upgrades to decorative signal poles (i.e. fluted poles, bases, etc.), local agencies are required to pay the cost difference between standard signal pole Average Unit Price (AUP) cost and the identical decorative signal pole cost.

**The items listed below have no traffic signal standard at this time, however these items must meet traffic signal standard drawings and specification requirements.**

- Ground Mounted Flashing Assemblies (Hard-Wired or Solar Powered)
- Connected Vehicle, DSRC, or other approved Connected Vehicle Technology
- Signal Cable and Wiring
- Pull Boxes
- Conduits