



Traffic Engineering Group

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Traffic Engineering - What do we do?

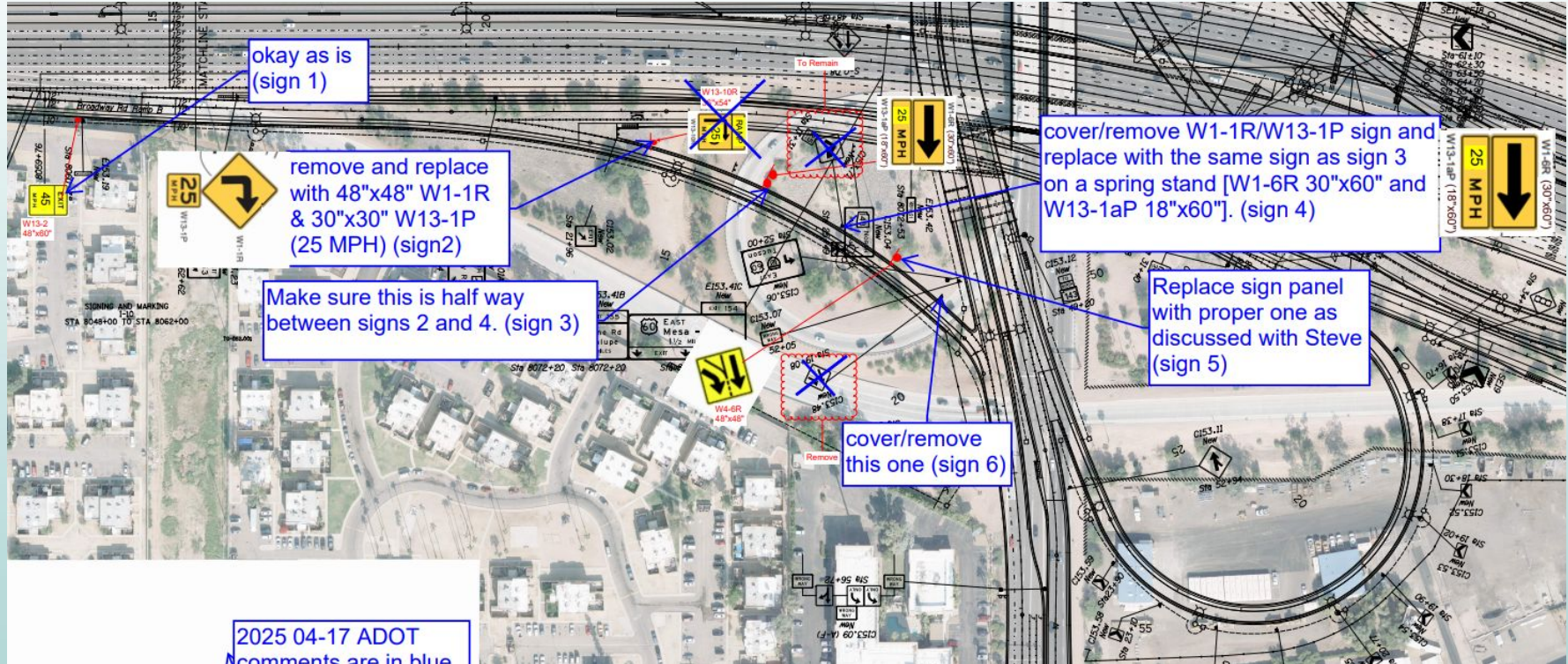
Save Lives

Knowledge transfer between design engineers and road users

- ❖ In-house Design - about 20% of projects
- ❖ Compliance Review - all projects
- ❖ Manage Traffic Standards and Policies
- ❖ Provide guidance to Regions/Districts
- ❖ Sign Requests
- ❖ Other Stuff!



48th St Field Adjustments



Traffic Engineering Standards

- ❖ Traffic Guidelines and Processes (TGP)
- ❖ Signals and Lighting Standard Drawings
- ❖ Signing and Marking Standard Drawings
- ❖ Standard Specifications (Managed by C&S)
- ❖ Other Manuals/References

Traffic (Engineering)



Guidelines and Processes

The ADOT Traffic Engineering Guidelines and Processes (TGP) provide design and operational guidance and information on signing, markings, signals, and other items.

[Learn More](#)



Manual of Approved Signs

The Manual of Approved Signs (MOAS) contains layouts and design details for standard regulatory, warning, guide, and marker signs for use on State highways in Arizona.

[Learn More](#)



Signing and Marking Standard (SMS) Drawings

The Signing and Marking Standard (SMS) Drawings provide technical details and layouts for sign panels, sign posts, striping and pavement markers, delineators, object markers, and other commonly-used items.

[Learn More](#)



Signals and Lighting Standard (SLS) Drawings

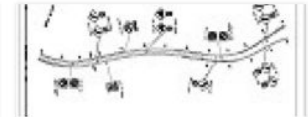
The Signals and Lighting Standard (SLS) Drawings provide technical details and layouts for traffic signal and lighting poles, signal faces, cabinets, hardware, and other commonly-used items.

[Learn More](#)



Traffic Engineering References

Includes the Manual on Uniform Traffic Control Devices (MUTCD), Arizona Supplement to the MUTCD, ADOT guidelines on temporary and work zone traffic control, school safety guidelines, and other useful references.



CADD Standards

Information on index sheets, plan sheet notes, CADD files, cell libraries and line styles, and other CADD-related references.

Traffic Guidelines and Procedures (TGP)

- ❖ Started out as Design Memos from the State Traffic Engineer
 - Then called PGPs
- ❖ Mixture of design and operational guidance

100 GENERAL

200 TRAFFIC STUDIES

300 SIGNS

400 PAVEMENT MARKING

500 DELINEATION

600 TRAFFIC SIGNALS

700 ILLUMINATION

800 TRAFFIC CONTROL PLANS

900 PEDESTRIANS

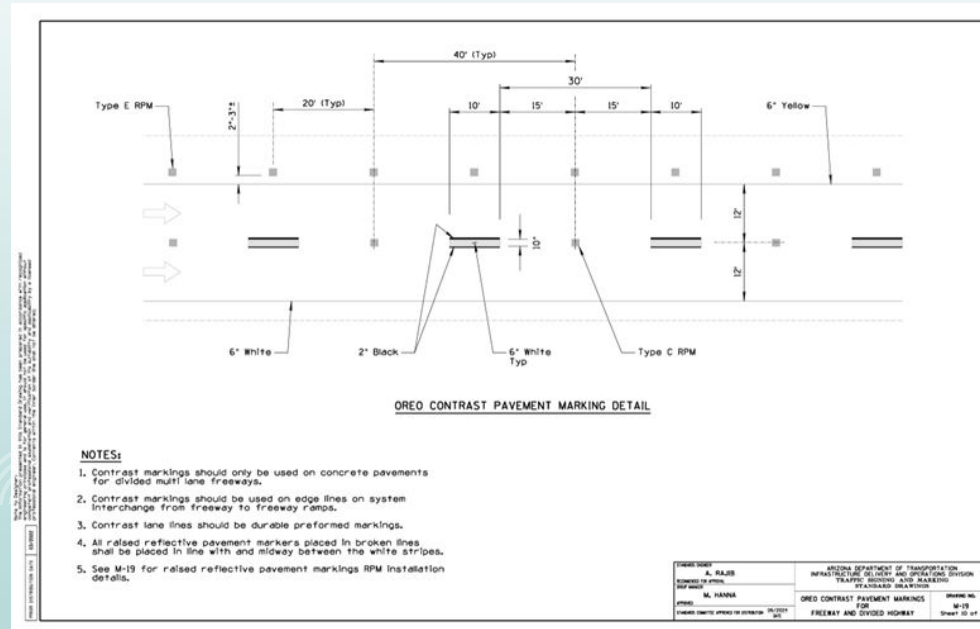
1000 MISCELLANEOUS

Signing and Marking Standard Drawings

❖ Signing and Marking Standard Drawings

➤ Markings (M-series)

- Intersection details
- Freeway on/off ramp details
- Pavement symbols
- Raised pavement markers
- Rumble strips
- Delineators



Signing and Marking Standard Drawings

- ❖ Signing (S-series)
 - Post selection charts
 - Sign assembly details
 - Sign structures
- ❖ Specification Sections
 - 104.04 - Maintenance of traffic
 - 607, 608, 1007 - Sign supports, panels, etc
 - 700 series - Traffic Control
- ❖ C-Series
 - Crash cushions (sand barrels)
 - Temporary Concrete Barrier (TCB)



Signals and Lighting Standard Drawings

- ❖ Signals & Lighting (T.S.-series)
 - Pull boxes
 - Controller cabinets
 - Poles
 - Detector loops
 - Flashers
 - Lighting details
- ❖ Currently working with Transportation Technology Group to update ITS Standards

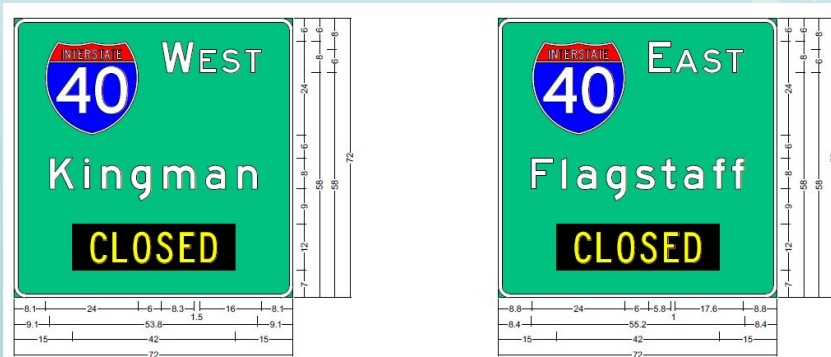
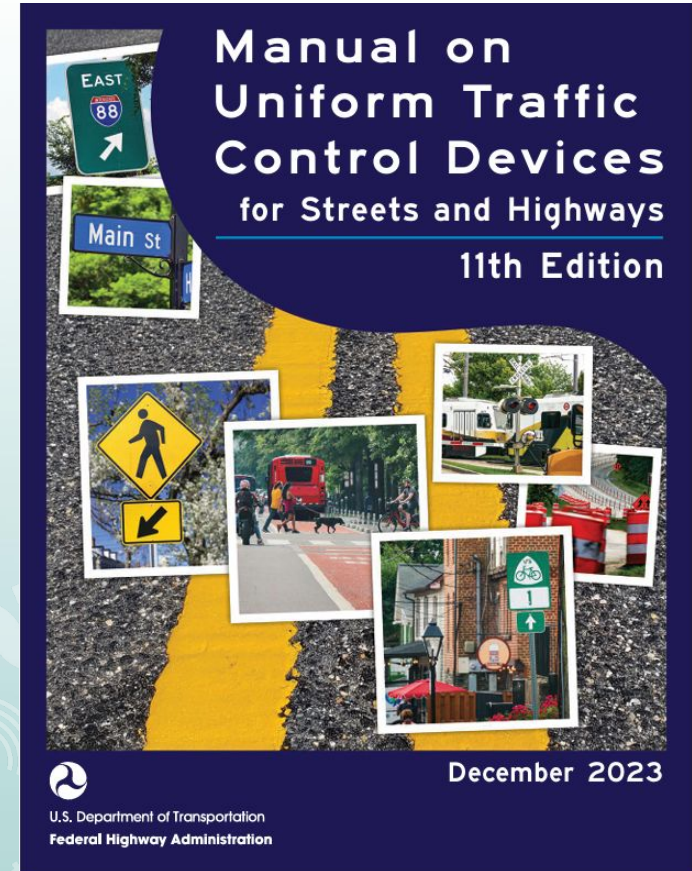


Additional Traffic Engineering References

- ❖ Work Zone Safety and Mobility Implementation Guidelines
 - For compliance with 23 CFR 630 Subpart J & K *and*
 - ADOT ENG 07-3 Work Zone Safety and Mobility Policy
- ❖ ADOT Temporary Traffic Control Design Guidelines (TTCDG)
- ❖ Signing Location Guideline Figures Packet
- ❖ ADOT Traffic Safety for School Area Guidelines

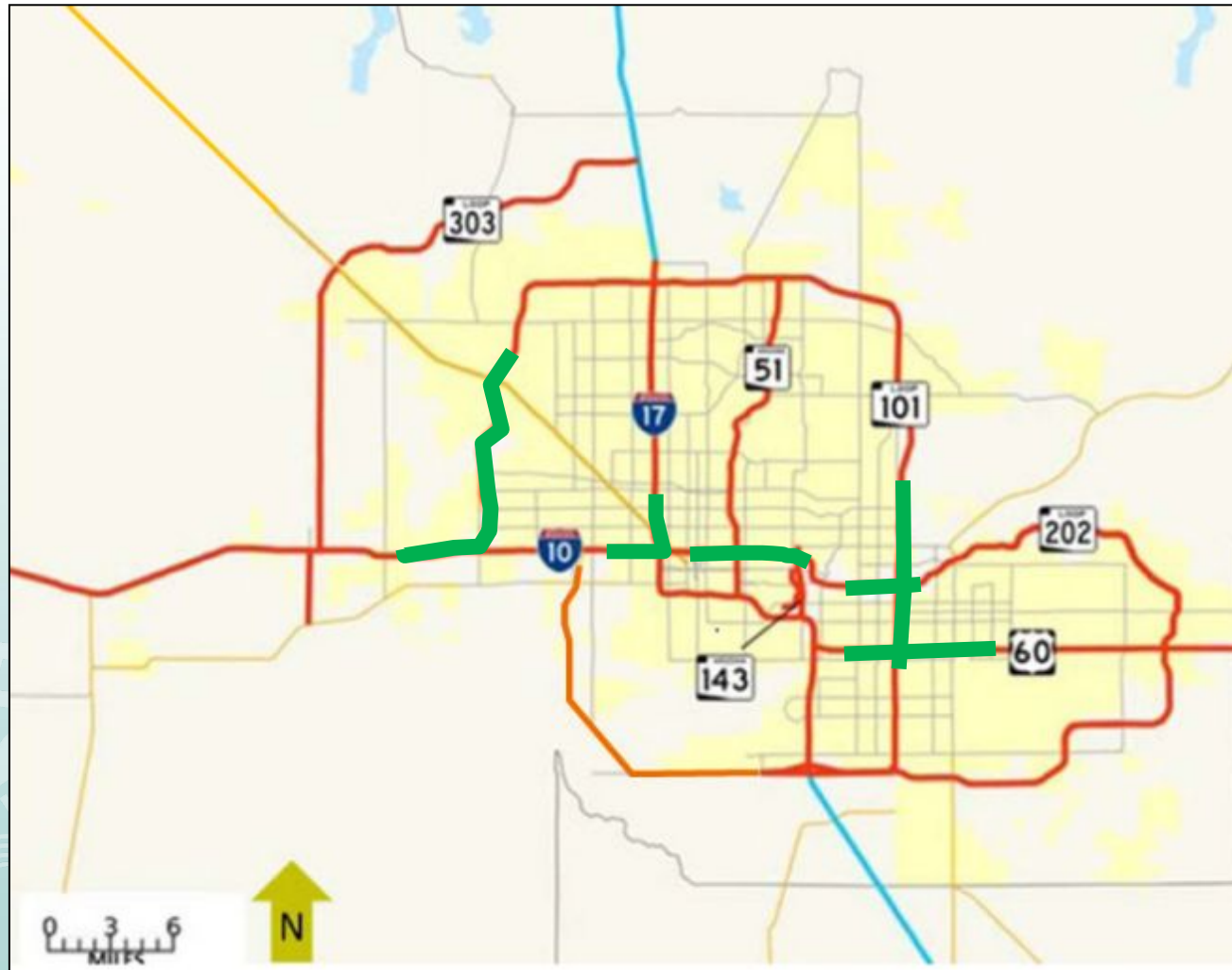
Current Initiatives

- ❖ Adoption of the new MUTCD (11th Edition)
- ❖ Statewide Traffic Engineering Coordination
- ❖ RSA Standard Reviews



Bottleneck Removal RSA Locations

Evaluating current
striping and lane
assignments on I-10
(Central Phoenix),
SR-51 and SR-202





Questions?

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