ADOT Traffic Engineering Group

2010 Updates to Policies, Standard Drawings, & Specifications

Mike Manthey
January 27, 2011
ITE January Luncheon
Policies, Guidelines, & Procedures

- PGP 225 – School Zones was rescinded because:
  1) it was mostly a reproduction of our old informational pamphlet and
  2) the information was duplicated and updated in our document, Traffic Safety for School Areas Guidelines

- PGP 324 – Vertical Clearance Signing was modified in collaboration with ADOT Bridge Group to indicate that adjusted vertical clearances for structures will be obtained from them.
Policies, Guidelines, & Procedures

- **PGP 621 – Signal Phase Change Intervals** was updated so the statement which read “Signal controllers will not allow a lower value than 3.0 seconds to be utilized” has been removed, as it is no longer a valid statement. This was true until the advent of the ASC/3, which might allow you to go below 3 seconds.

- **PGP 790 – Overhead Guide Sign Lighting** was clarified to indicate that signs will not be lighted if they are fabricated with ASTM Type IX or XI sheeting.
Policies, Guidelines, & Procedures

- **PGP 245 – Turn Lane Warrants** is a new PGP developed to give guidance on the installation of dedicated right or left turn lanes.
Signing & Marking Standard Drawings

- S-2 through S-6, Various Sign Support Dwgs. - These drawings were modified to adhere to current AASHTO guidelines for sign support design, including a 90 mph wind speed for design and special wind region considerations.

- M-15, 16, & 17, Freeway Pavement Markings – Note was changed to reflect practice of using durable tape for lane lines and gores in addition to HOV symbols and all freeway to freeway ramp markings. Also note that, when used above 4000 ft, durable tape shall be placed in a groove.
Signing & Marking Standard Drawings

- **M-26, 36, 37, & 38, Flexible Delineators** – New drawings were developed for flexible delineators, including surface mounted, direct driven, and concrete foundation. Spacing table was simplified.

- **M-25, Delineator & Galvanized Steel Post Details**, was discontinued.
Traffic Signals & Lighting Standard Drawings

- What began as an effort to ‘clean up’ the CAD work of the drawings ended in an extensive overhaul of the entire book.
- Just a few highlights
  - Precast pull boxes were eliminated. Pull boxes have been classified as light duty or heavy duty.
  - Detectors for highway traffic data have been moved into their own section (now section 6)
Traffic Signals & Lighting Standard Drawings

- **Highlights Continued**
  - Load Center and Traffic Controller drawings were consolidated and updated.
  - Pedestrian Push Button Details – Type II housings were eliminated. Drawings were updated to better reflect current market.

- Detailed update memo available upon request.
Specifications

- Section 608 – Sign Panels
  - Option for digitally imaged characters introduced
  - Clarifies that all sign sheeting materials shall be from same manufacturer
  - Anti-graffiti film requirement re-introduced
  - Nylon washers eliminated
Specifications

- **Section 1007 – Retroreflective Sheeting**
  - Market changes allowed the Department to begin specifying ASTM Type IX or XI sheeting
  - Still allowing Type VIII, IX, or XI for construction signs
Specifications

- Section 704 – Thermoplastic Pavement Markings
  - Improved quality of the chemical composition
  - Increased required application from 60 mil sprayed to 90 mil extruded
  - Glass Beads – introduced a primary drop of Type I beads followed by a secondary drop of Type III beads
Specifications

- Section 705 – Preformed Pavement Markings
  - Through Special Provisions, ADOT began experimenting with utilizing diamond blade saw cut groove to remove permanent preformed tape.
  - Placement of preformed temporary tape for lane shifts during construction.
  - Intent is to avoid glare related problems with obliteration marks.
ADOT Traffic Control Design Guidelines

- Sign codes and section references were updated in accordance with the current adopted MUTCD and ADOT Manual of Approved Signs.

- Supplemental applications have been added for Dynamic Message Signs.

- Section on temporary concrete barrier setup design has was removed. The old language of this section was no longer in agreement with current AASHTO criteria. Designers are now referred to the AASHTO Roadside Design Guide.

- Language which was left over from the time when this document was the Arizona Supplement to the MUTCD was modified as necessary.
Access Management Program Development Update
The Need for Access Management

- Arizona has experienced unprecedented growth throughout the State during the past decade creating challenges for the transportation system statewide.

- Access management has proven to preserve the function, efficiency and safety of state highways.
State Transportation Board
Policy #12
(adopted August 2003)

“The purpose of which is to preserve the functional integrity of the State Highway System through the development and implementation of a comprehensive access management program.”
Development of the Plan

- A consultant group was selected to conduct a Study and develop the Access Management Plan for ADOT (Sept. 2005)

- External stakeholder meetings conducted over the next few years.

- Access Management Plan is completed (June 2009)
Planned & Controlled Access

Establishes a system of access categories which will guide the Department in decisions regarding the level of access to be provided to land abutting state highways.
Consistent Statewide Application

Ensures approaches to state highways are consistent with the intended roadway purpose and the functional level.
Achieving a Balance

Maintains the integrity of ADOT’s right-of-way and transportation facilities and reduces potential liability while achieving a reasonable balance with the needs of public safety, abutting land development, local road networks and regional mobility.
Components of ADOT’s Access Management Plan

- State Highway Access Categories
  - 8 categories assigned based on functionality of road

- Access Category Assignment Schedule
  - Vast table and maps which lists highway segments by mile posts, and assigned access category
Components of ADOT’s Access Management Plan (cont.)

- Access Location And Design Criteria
  - Assists in determining the location, type, and design of approach encroachments

- Access Plans for Corridors and Traffic Interchanges
  - Provides for traffic operation criteria for specifically selected segments of a state highway corridor or traffic interchange
Program Development & Implementation

Transferred to ITD

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Program to consist of the following components

- Access Management Manual
  - Administrative Rules
  - Policies, Guidelines, & Procedures
  - Intergovernmental Agreements
  - Access Category Schedule
  - Design Standards
  - Forms, Tables, Maps, Etc
Program to consist of the following components (cont.)

- Interactive Web-Based Application
  - Manual
  - Links
  - Forms
  - Maps
  - Tables
Program to consist of the following components (cont.)

- Access / Encroachment Permit Process

The Department is conducting an analysis to determine whether possible changes to the current Encroachment Permit Process are warranted.
Moratorium on Rulemaking

- In January 2009, the Governor instituted a Moratorium on all rulemaking, prohibiting state agencies from adopting rules, with few exceptions

- During the last legislative session, the Governor signed into law a Bill extending the prohibition on rulemaking, through July 1, 2011
Continued Use of Current Guidelines

Until such time as the Department has Administrative Rules in effect, the Department will not impose criteria separate from current Department guidelines.
Internal Working Group began meeting in November 2009, to develop the Department’s Access Management Manual.

Anticipated completion Summer 2011
The Department will continue to meet internally to develop the Program, so that we are able to fully consider the interests of the State, Developers, Land Owners, Local Municipalities, and the Motoring Public.
External Working Group

- Meetings between ADOT and select external stakeholder to begin after Notice of Rulemaking Docket published

- Consisting of the following stakeholders:
  - Valley Partnership
  - Central Arizona Association of Governments
  - Central Yavapai Metropolitan Planning Organization
  - Communication with tribes will be facilitated by MPD’s Tribal Planner
Administrative Rulemaking

- ADOT anticipates beginning the rulemaking process upon the expiration of the Moratorium on Rulemaking

- As part of the rulemaking process, opportunities to comment on the proposed rules will be provided on several occasions, and at several locations statewide

- Notice of Rulemaking Docket Opening published by Secretary of State’s Office @ www.azsos.gov, and noticed on the Access Management website
Statewide Informational Forums

Additionally, ADOT will conduct statewide public informational forums...after filing of the Notice of Rulemaking Docket Opening
Arizona has experienced unprecedented growth throughout the State during the past decade. This rapid growth has created challenges for the transportation system statewide.

In accordance with the policy of the State Transportation Board, ADOT is developing a statewide Access Management Program, to preserve the functional integrity of the State Highway System.

Access management has proven to preserve the function, efficiency and safety of state highways by the careful planning and control of the location and design of access points along the State Highways.

This program includes the development of an access management classification system for state highways, design guidelines, a comprehensive manual, and a web-based application to guide the uniform application of access management throughout the State.

Included within the Program will be the establishment of Administrative Rules. Once ADOT begins the formal rulemaking process, the public and stakeholders will have an opportunity to comment on the proposed rules.

Questions and comments should be directed to Mike Manthey or Janette M. Quiroz:

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Questions and Comments?