



Chandler - Arizona
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Chandler



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MEMORANDUM Transportation & Development –Memo No. TDE12-010

DATE: JANUARY 12, 2012

TO: MAYOR AND CITY COUNCIL

THRU: RICH DLUGAS, CITY MANAGER *RD*
PAT MCDERMOTT, ASSISTANT CITY MANAGER
R.J. ZEDER, TRANSPORTATION & DEVELOPMENT DIRECTOR *RJZ*
SHEINA HUGHES, CITY ENGINEER *SH*

FROM: WARREN WHITE, PRINCIPAL ENGINEER *WW*

SUBJECT: INTRODUCTION OF ORDINANCE NO. 4338 ADOPTING UPDATED
VERSIONS OF EXISTING CONSTRUCTION STANDARDS
AND AMENDING CHAPTER 43, SECTION 43-5, SUBSECTIONS 43-5.1, 43-
5.2, 43-5.4, 43-5.5, 43-5.7, 43-5.8 AND 43-5.10, CODE OF THE CITY OF
CHANDLER.

RECOMMENDATION: Staff recommends introduction and tentative approval of Ordinance No. 4338 adopting updated versions of existing construction standards and drainage policies and amending Chapter 43, Section 43-5, Subsections 43-5.1, 43-5.2, 43-5.4, 43-5.5, 43-5.7, 43-5.8 and 43-5.10, Code of the City of Chandler.

BACKGROUND/DISCUSSION: The City maintains and publishes Standard Details and Specifications and Technical Design Manuals which have been developed to guide developers and City staff on the design and construction of the City’s infrastructure. These documents are adopted by City Council.

The Engineering Design Standards Committee, with cross-departmental representation, reviews proposed changes to our design standards and makes recommendations for yearly updates. This process also involves reviewing the Maricopa Association of Governments (MAG) Specifications and Standards and their yearly-proposed revisions and, when possible, removing City standards in favor of MAG standards.

This Ordinance would amend the following editions of the design standards:

- January 2011 Standard Details and Specifications Manual,
- January 2011 Technical Design Manual #1 & 2, Water & Wastewater System Design,
- January 2011 Technical Design Manual #3, Storm Drainage System Design,
- January 2007 Technical Design Manual #5, Traffic Signal Design,
- January 2011 Technical Design Manual #6, Streetlight Design,
- January 2010 Technical Design Manual #7, Traffic Barricade Design
- In addition, this Ordinance would adopt the 2012 MAG Uniform Standard Specifications and Details with certain modifications.

The recommended revisions have been reviewed and approved by the Engineering Design Standards Committee consisting of Engineering, Offsite Inspection, Transportation, Water/Wastewater and Planning divisions. The revisions were provided to members of the industry including the Homebuilders Association, Multihousing Association and engineering design consultants. Comments received were incorporated into these revisions where appropriate.

The complete set of revised Standard Details and Specifications are on file with the City Clerk and available for review. A detailed summary of the changes is also attached.

FINANCIAL IMPLICATIONS: None.

PROPOSED MOTION: Move that Council introduce and tentatively approve Ordinance No. 4338 adopting updated versions of existing construction standards and amending Chapter 43, Section 43-5, Subsections 43-5.1, 43-5.2, 43-5.4, 43-5.5, 43-5.7, 43-5.8 and 43-5.10, Code of the City of Chandler.

ATTACHMENTS:
Ordinance No. 4338
Change Summary 2011

ORDINANCE NO. 4338

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CHANDLER, ARIZONA, ADOPTING UPDATED VERSIONS OF PREVIOUSLY ADOPTED DESIGN AND CONSTRUCTION STANDARDS AND AMENDING CHAPTER 43, SECTION 43-5, SUBSECTIONS 43-5.1, 43-5.2, 43-5.4, 43-5.6, 43-5.7, 43-5.8, AND 43-5.10, CODE OF THE CITY OF CHANDLER, RELATING TO THE ADOPTION OF THESE UPDATED DESIGN AND CONSTRUCTION STANDARDS.

WHEREAS, the City of Chandler has previously adopted certain documents establishing minimum design and construction standards and specifications and believes it to be prudent to adopt the updated versions of those documents; and

WHEREAS, Chapter 43, Code of the City of Chandler, needs to be amended to reflect adoption of those updated documents.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Chandler, Arizona, as follows:

Section 1. That those documents identified below, three copies of each to remain on file in the Office of the City Clerk, each are hereby adopted by reference, with the additions, insertions, deletions and changes set forth herein, and each are hereby declared to be a public record.

- A. City of Chandler Standard Details and Specifications, February 2012 edition.
- B. City of Chandler Technical Design Manual Numbers 1 and 2; Water and Wastewater System Design, February 2012 edition.
- C. City of Chandler Technical Design Manual Number 3, Drainage Policies and Standards, February 2012 edition.
- D. City of Chandler Technical Design Manual Number 5, Traffic Signal Design, February 2012 edition.
- E. City of Chandler Technical Design Manual Number 6, Streetlight Design, February 2012 edition.
- E. City of Chandler Technical Design Manual Number 7, Traffic Barricade Design, February 2012 edition.
- F. Uniform Standard Specifications and Details for Public Works Construction Sponsored and Distributed by the Maricopa Association of Governments, 1998 Arizona edition (includes revisions through 2012).

Section 2. Subsection 43-5.1 of Section 43-5 of Chapter 43, Code of the City of Chandler, is hereby amended to read as follows:

43-5.1 City of Chandler Standard Details and Specifications. That certain document on file with the City Clerk marked, known and designated as "City of Chandler Standard Details and Specifications", ~~January 2011~~ February 2012 edition, is hereby adopted by reference and made a part hereof as if set forth at length herein.

Section 3. Subsection 43-5.2 of Section 43-5 of Chapter 43, Code of the City of Chandler, is hereby amended to read as follows:

43-5.2. City of Chandler Technical Design Manual, Numbers 1 and 2: Water and Wastewater System Design. That certain document on file with the City Clerk marked, known and designated as "City of Chandler Technical Design Manual, Numbers 1 and 2: Water and Wastewater System Design", ~~January 2011~~ February 2012 edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

Section 4. Subsection 43-5.4 of Section 43-5 of Chapter 43, Code of the City of Chandler, is hereby amended to read as follows:

43-5.4. City of Chandler Technical Design Manual, Number 3: Drainage Policies and Standards. That certain document on file with the City Clerk marked, known and designated as "City of Chandler Technical Design Manual, Number 3: Drainage Policies and Standards", ~~January 2011~~ February 2012 edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

Section 5. Subsection 43-5.6 of Section 43-5 of Chapter 43, Code of the City of Chandler, is hereby amended to read as follows:

43-5.6. City of Chandler Technical Design Manual, Number 5: Traffic Signal Design. That certain document on file with the City Clerk marked, known and designated as "City of Chandler Technical Design Manual, Number 5: Traffic Signal Design", ~~January 2007~~ February 2012 edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

Section 6. Subsection 43-5.7 of Section 43-5 of Chapter 43, Code of the City of Chandler, is hereby amended to read as follows:

43-5.7. City of Chandler Technical Design Manual, Number 6: Streetlight Design. That certain document on file with the City Clerk marked, known and designated as "City of Chandler Technical Design Manual Number 6: Streetlight Design", ~~January 2011~~ February 2012 edition, is hereby adopted by reference and made a part hereof as though set forth at length in full herein.

Section 7. Subsection 43-5.8 of Section 43-5 of Chapter 43, Code of the City of Chandler, is hereby amended to read as follows:

43-5.8. *City of Chandler Technical Design Manual, Number 7: Traffic Barricade Design.* That certain document on file with the City Clerk marked, known, and designated as "City of Chandler Technical Design Manual, Number 7: Traffic Barricade Design," ~~November 2010~~ February 2012 edition, is hereby adopted by reference and made a part hereof as if set forth at length herein

Section 8. Subsection 43-5.10 of Section 43-5 of Chapter 43, Code of the City of Chandler, is hereby amended to read as follows:

43-5.10. *MAG Uniform Standard Specifications and Details.* That certain document on file with the City Clerk marked, known and designated as Uniform Standard Specifications and Details for Public Works Construction Sponsored and Distributed by the Maricopa Association of Governments, 1998 Arizona edition (includes revisions through ~~2011~~2012) (MAG Uniform Standard Specifications and Details) is hereby adopted by reference and made a part hereof as though set forth at length herein with the additions, insertions, deletions and changes set forth below.

1. The Public Works Director/designee is authorized to increase standard street cross sections, both pavement and right-of-way widths, as necessary to maintain required traffic service levels when a traffic analysis indicates the need for additional lanes of traffic.
2. Where MAG refers to corrective actions for deviations from standards and provides options for "When the contracting agency is the owner" or "When the contracting agency is not the owner (i.e. permits)", the Public Works Director/designee is authorized to utilize any of the corrective actions listed regardless of whether the City is the contracting agency or not.

INTRODUCED AND TENTATIVELY APPROVED by the City Council this 12th day of January 2012.

ATTEST:

CITY CLERK

MAYOR

PASSED AND ADOPTED by the City Council of the City of Chandler, Arizona this _____ day of _____, 2012.

ATTEST:

CITY CLERK

MAYOR

CERTIFICATION

I HEREBY CERTIFY that the above and foregoing Ordinance No. 4338 was duly passed and adopted by the City Council of the City of Chandler, Arizona, at a regular meeting held on the _____ day of _____, 2012 and that a quorum was present thereat.

CITY CLERK

APPROVED AS TO FORM:

CITY ATTORNEY GAB

PUBLISHED:

<u>Document No.</u>	<u>Title</u>	<u>Revision Summary</u>
General/Other		
Standard Details Table of Contents	Index	To be revised for final changes.
Streets/Traffic Details		
C-244	Sidewalk Ramp at Intersections for Roll Curb	Revisions to ramp landing from 3.5' to 5'.
C-249	Accessible Ramp Acceptance	Existing Acceptable Ramp Location detail converted to an acceptance requirements detail.
C-257	Sidewalk Scoop Ramp Detail for Return Type Driveway	Revision to existing detail pertaining to detectable warning location and attached, detached applications.
C-258	Directional Sidewalk Ramp	New construction detail for dual directional ramps.
C-259	Modified Entrance	New construction detail for a modified entrance, alley's, etc.
Water/Wastewater/Reclaimed Details		
C-303	Fire Hydrant	Revised for reflector callout - now per MAG dtl.
C-305	Locations for New Fire Hydrants	C-305 revised for FD comments - visibility from the street and no cactus around.
C-306	Fire Hydrant Reflector Locations	Removal of this detail in favor of MAG 122.
Landscape Details (New 800 Series)		
C-801	Tree Planting and Staking	Details taken from existing TDM #8, revised or new.
C-802	Tree Planting - Slope	Details taken from existing TDM #8, revised or new.
C-803	Palm Planting and Bracing	Details taken from existing TDM #8, revised or new.
C-804	Cactus and Accent Planting	Details taken from existing TDM #8, revised or new.
C-805	Shrub and Ground Cover Planting	Details taken from existing TDM #8, revised or new.
C-806	Plant Pit Schedule	Details taken from existing TDM #8, revised or new.
C-807	Landscaped Median	Details taken from existing TDM #8, revised or new.
C-808	Emitter Access Box and Emitter Layout	Details taken from existing TDM #8, revised or new.
C-809	Electric Remote Control Valve - Turf	Details taken from existing TDM #8, revised or new.
C-810	Electric Remote Control Valve - Drip	Details taken from existing TDM #8, revised or new.
C-811	Trench	Details taken from existing TDM #8, revised or new.
C-812	Bubbler	Details taken from existing TDM #8, revised or new.
C-813	Gear-Driven Pop-Up Rotor	Details taken from existing TDM #8, revised or new.

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C-814	Pop-Up Spray Head	Details taken from existing TDM #8, revised or new.
C-815	Quick Coupler	Details taken from existing TDM #8, revised or new.
C-816	Typical Irrigation Legend and Information	Details taken from existing TDM #8, revised or new.
C-817	Emitter and Bubbler Schedule	Details taken from existing TDM #8, revised or new.
Technical Design Manuals		
TDMs #1&2	Water and Wastewater	Revised for benchmarks and reclaimed system pressures map.
TDM #3	Drainage Policies and Standards	General revisions and explanatory material.
TDM #5	Traffic Signal Design	General revisions and explanatory material. Removal of twisted pair copper and added Fiber Support Equipment section.
TDM #6	Street Light Design	Revisions to section pertaining to (private) street lights in low density residential areas.
TDM #7	Traffic Baricade Manual	Revisions to incorporate June Memorandum update.