

2020 Amendments to Chandler City Code Chapter 43, Section 43-4.5
{Public Record for Ordinance No. 4948}

Chandler City Code, Chapter 43 (Public Works and Utilities Department), Section 43-4.5 is hereby amended by adding the following (additions in ALL CAPS, deletions in ~~strikeout~~):

43-4.5. The following standards, details, specifications, and/or policies regarding public works improvements are in effect in the City of Chandler:

A. *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 ~~2020~~ 2021 Edition, is hereby adopted by reference and made a part hereof as if set forth at length herein.

B. *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 ~~2020~~ 2021 Edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

C. *City of Chandler Technical Design Manual, Numbers 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, Numbers 3: Drainage Policies and Standards", January ~~2020~~ 2021 Edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

D. *City of Chandler Technical Design Manual, Number 4: Street Design and Access Control*. That certain document on file with the City Clerk marked, known and designated as "City of Chandler Technical Design Manual, Number 4: Street Design and Access Control", January ~~2020~~ 2021 Edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

E. *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 ~~2020~~ 2021 Edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

F. *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 2020 Edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

G. *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," January ~~2016~~ 2021 Edition, is hereby adopted by reference and made a part hereof as if set forth at length herein.

H. *City of Chandler Technical Design Manual, Number 8: Landscape Design of Rights-of-Ways, Medians and Retention Basins*. That certain document on file with the City Clerk marked, known and designated as "City of Chandler Technical Design Manual, Number 8: Landscape Design of Rights-of Ways, Medians and Retention Basins", May 2018 Edition, is hereby adopted by reference and made a part hereof as though set forth at length herein.

I. *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, ~~2020~~ 2021 Edition, 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 and Utilities 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 and Utilities Director/designee is authorized to utilize any of the corrective actions listed regardless of whether the City is the contracting agency or not.

J. *[Reserved.]*

K. *Policy on Geometric Design of Highways and Streets*. That certain document on file with the City Clerk marked, known and designated as "The Policy on Geometric Design of Highways and Streets," 2004 Edition, published by the American Association of State Highway and Transportation Officials, is hereby adopted by reference and made a part hereof as though set forth at length herein.

L. *City of Chandler Manual on Stormwater Quality Protection*. That certain document on file with the City Clerk marked, known and designated as "City of Chandler Manual on Stormwater Quality Protection, December, 2007 Edition," is hereby adopted by reference and made a part hereof as if set forth at length herein.

<u>Document No.</u>	<u>Title</u>	<u>Revision Summary</u>
Standard Details		
C-112 Pg 1	ENGINEERED UTILITY BORE	Revision to Bore Profile Typ. Section to show City fiber conduit per C-200 revision. Revision to title block for Pg 1 designation.
C-112 Pg 2	ENGINEERED UTILITY BORE	New Pg 2 detail to illustrate minimum separation requirements between City wet utility and "Bore/Dry Private Utility" per MAG Table 608-3.
C-113	TRASH RECEPTACLE ENCLOSURE	Revision to note 1 to correct spelling of enclosures
C-200	STANDARD UTILITY LOCATIONS ARTERIAL STREETS	Revision to City fiber conduit (T.S.) location adding primary location at R/W line and alternate location at 6" back-of-curb.
C-203	MAJOR ARTERIAL STREET TYPICAL CROSS SECTION	Revision to base course note no. 2A. "Thickness shall conform to COC Standard Detail C-239, 12" minimum.
C-203	MAJOR ARTERIAL STREET TYPICAL CROSS SECTION	Add note 7 pertaining to minimum 0.2% longitudinal grade consistent with other street cross section details.
C-206	COLLECTOR STREET WITH MEDIAN TYPICAL CROSS SECTION	Removing note regarding waiving sidewalk on one side of the roadway. Due to onsite ADA route requirements, the City will now require sidewalks adjacent to all public streets in order to better meet the intent of the ADA.
C-208	INDUSTRIAL COLLECTOR STREET TYPICAL CROSS SECTION	Removing note regarding waiving sidewalk on one side of the roadway. Due to onsite ADA route requirements, the City will now require sidewalks adjacent to all public streets in order to better meet the intent of the ADA.
C-209	COLLECTOR BOULEVARD TYPICAL CROSS SECTION	Removing note regarding waiving sidewalk on one side of the roadway. Due to onsite ADA route requirements, the City will now require sidewalks adjacent to all public streets in order to better meet the intent of the ADA.
C-210	COLLECTOR STREET TYPICAL CROSS SECTION	Removing note regarding waiving sidewalk on one side of the roadway. Due to onsite ADA route requirements, the City will now require sidewalks adjacent to all public streets in order to better meet the intent of the ADA.
C-239	DEPTH OF BASE COURSE MAJOR & MINOR ARTERIAL	Revision to set 12" as min base thickness in chart. Revised note 2 to clarify under asphalt concrete surface.
C-256	TYPICAL RAISED CROSSWALK	Major update to existing detail meeting current construction standards. New title "TYPICAL MID-BLOCK RAISED CROSSWALK".
C-262	MANHOLE / WATER VALVE BOX CURB REALIGNMENT	NEW detail to realign curb & gutter where a manhole or water valve are in conflict
C-301 Pg 1	WATER SERVICE INSTALLATION	Revision to note no. 1 allowing use of compression fittings on 1" services. Revision to note no. 3 adding use only approved meter flange adaptor for reducing the service line.
C-301 Pg 1	WATER SERVICE INSTALLATION	Removing note at lower left restricting taps on 16" mains.
C-308	WATER PIPE BEDDING DETAIL	Updating notes to fully reference MAG Section 601 and City List of Approved Products.
C-401	MANHOLE CONCRETE COLLAR AND ADJUSTMENT TYPES	Added note 8 for Type 'B' adjustments pertaining to fiberglass manholes with necks (typically around 3" tall above barrel) to ensure no weight is on the neck. Revised note 6, adding "and concrete collar installation."
C-402	SEWER PIPE BEDDING DETAIL	Revisions to move ABC to 1' above pipe, updating notes to fully reference MAG Section 601 and City List of Approved Products.
C-510	TEMPORARY RETENTION BASIN MULCH DRYWELL	NEW detail for temporary retention basin grading and drainage, improving drainage and ongoing maintenance requirements.

Technical Design Manuals		
TDM #1&2	Water and Wastewater System Design	Revision to page 13, first paragraph, removing "Water services may not be installed on 16 inch water lines."
TDM #1&2	Water and Wastewater System Design	Revisions to page 32, Section J. Private Reclaimed Water System design considerations, removing medium volume users consistent with reclaimed water agreement.
TDM #3	Drainage Policies and Standards	Revision to page 19, Section 6.11.1 Surface Basins, adding reference to NEW detail C-510 for temporary retention basins.
TDM #4	Street Design and Access Control	Revisions to page 33 pertaining to traffic signal conduit and interconnect conduit. Revise language to refer to TDM#5 for the interconnect conduit requirements.
TDM #4	Street Design and Access Control	Revision to page 30, Section 3.4, remove subgrade relative compaction paragraph in favor of MAG standards. Relative compaction under MAG 301.3 requires 95% below pavement, curb & gutter, attached sidewalk, roadway shoulders, and other areas within R/W subject to vehicular traffic, but allows 85% below detached sidewalks not subject to vehicular traffic.
TDM #5	Traffic Signal Design	Various revisions related to fiber, equipment and conduit requirements. Revisions to specify use of 2013 ADOT Standards instead of current. ADOT recently changed their signal standards and City wishes to continue using 2013 style poles/arms for maintenance and interchangeability purposes. Minor updates to TS-02, TS-07 and TS-08. Revised conduit notes on TS-14.
TDM #7	Traffic Barricade Manual	General cleanup including dept./division updates due to reorg, title changes, phone number updates, pronouns, consistency, etc. More relevant revisions include: 1) Updating procedure to online application submittal, review, and permit approval (instead of paper or email submittals). 2) Changing advance notice required from 1 to 3 days for lane restrictions. 3) Changing advance notice required from 3 to 5 days for alley closures. 4) Changing min 36 inch accessible path width to 60 inch (or 48 inch with 60x60 inch passing spaces every 200 feet) meeting ADA.
Specifications (Supplements to MAG)		
SECTION 340	CONCRETE CURB, GUTTER, SIDEWALK, SIDEWALK RAMPS, DRIVEWAY, AND ALLEY ENTRANCE	Remove Section 340.3 supplement in favor of MAG subgrade compaction standards. Related to revision to TDM# 4, Section 3.4.
SECTION 355	UTILITY POTHOLES-KEYHOLE METHOD	NEW supplement specification to ensure 1/2-sack CLSM is used as backfill for pothole repairs (vs mechanical compaction).
SECTION 608	HORIZONTAL DIRECTIONAL DRILLING	Revision to replace existing Bore/Plan Profile supplement language providing more clarity where City and MAG differ in particular with the tables.