



December 18, 2019

**Subject: 2020 Standard Details, Specifications and Technical Design Manuals**

Please be advised, effective January 9, 2020, all **new** improvement plan submittals will be subject to the January 2020 updates to the Standard Details, Specifications and Technical Design Manuals (TDM's) and the 2020 revisions to MAG Specifications and Details. See the attached Change Summary 2020.

For improvement plans currently in review, use of these new standards is at the discretion of the contractor/engineer.

Revised and current manuals can be downloaded from the Unified Development Manual website: <http://udm.chandleraz.gov> or purchased in hard copy format from the Development Services front counter at 215 E. Buffalo Street.

If you have further questions, please contact Warren White at (480) 782-3337.

Sincerely,

A handwritten signature in black ink, appearing to read "John Knudson".

John Knudson, PE  
Public Works & Utilities Director\City Engineer

Attachment: Change Summary 2020

<b><u>Document No.</u></b>	<b><u>Title</u></b>	<b><u>Revision Summary</u></b>
Standard Details		
C-206	COLLECTOR STREET WITH MEDIAN TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-208	INDUSTRIAL COLLECTOR STREET TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-209	COLLECTOR BOULEVARD TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-210	COLLECTOR STREET TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-211	LOCAL STREET WITH MEDIAN TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-212	LOCAL BOULEVARD WITH FRONTAGES LESS THAN 65' TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-213	LOCAL STREET TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-215	ON-STREET PARKING TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-221	LOCAL BOULEVARD WITH FRONTAGES 65' TO 90' TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-222	LOCAL BOULEVARD WITH FRONTAGES GREATER THAN 90' TYPICAL CROSS SECTION	Revise 'TRMSS' references to 'asphalt emulsion surface sealer' per new MAG Section 718.3.
C-224	MAJOR ARTERIAL DECELERATION LANE	Update drawing to extend ROW line.
C-228	TYPICAL DRIVEWAY ACCESS TO PRIVATE GATED COMMUNITY	Revision to Note#6 pertaining to electric gate per FD requirements.
C-256	TYPICAL RAISED CROSSWALK	Remove ref to pavers on raised crosswalk.
C-257	IN-LINE RAMP DETAIL FOR RETURN TYPE DRIVEWAY	Add note to use C-258 if sidewalk extends into site.
C-260, Pg 1 and 2	ON-STREET PARKING USING BULB-OUTS	Revision to note 7 on pg 1 and box callout on pg 2 to reference correct sections in updated TDM#4, Sections 4.3 and 4.4.
C-260, Pg 2	ON-STREET PARKING USING BULB-OUTS	Update placement location of accessible parking sign in lower right (start of block) detail.
C-261, Pg 2	PASSENGER LOADING ZONES FOR AUTONOMOUS VEHICLES AND RIDE SHARING	Changed "Detail A" to different sign.
C-316	3" TO 6" METER VAULT	Adding note to ensure DIP pipe is used throughout vault and 6 ft outside (limits of excavation).
C-319	2" COMBINATION AIR/VACUUM VALVE ASSEMBLY	Revisions to remove piping and enclosure. Adding note regarding use for 16" and smaller mains. Revision to note 3 to reference Approved Products List.
C-400	MANHOLE COVER	Revise title to "MANHOLE FRAME AND COVER TYPES". Type 'A' Cast-Iron, and NEW Type 'B' Corrosion Protective Composite.
C-401	MANHOLE CONCRETE COLLAR	Revise title to "MANHOLE CONCRETE COLLAR AND ADJUSTMENT TYPES". Type 'A' Concrete Rings, and NEW Type 'B' Corrosion Protective Rings.
C-403	SEWER CONNECTIONS	New detail providing requirements for new sewer connections to protect City system.
C-404	2" RECLAIMED WATER IRRIGATION SERVICE LINE INLINE PUMP TYPE	Revision to pipe diam from service to pump consistent with table on Pg 1. Revised from 3" to 4".

C-408	PIPE LOCATOR WIRE & I.D. TAPE	Revisions to placement depth of ID tape setting at 12" and removing D2 dimension. Revision to note 3 adding wire to be taped every 8-10 feet.
C-500	SCUPPER	Adjust dimension shown in Section D-D to 6" min matching Section D-D.
C-503	TRASH RACK/ACCESS BARRIER	Flip trash rack mounting to top.
C-606	INTERNALLY ILLUMINATED STREET NAME SIGN	Update drawing to delete border on sign.
C-607	INTERNALLY ILLUMINATED STREET NAME SIGN - BRACKET ASSEMBLY	Minor revisions consistent with changes to detail C-606.
C-608	INTERNALLY ILLUMINATED STREET NAME SIGN - J/R POLE MOUNTING	Minor revisions consistent with changes to detail C-606.
C-614	PAVEMENT MARKING DETAILS	Change "Guide lines" from 4" thick to 6".
C-807	MEDIAN	Revisions to d.g. depth notes, curbing, mounding, etc ...
<b>Technical Design Manuals</b>		
TDM #1&2	Water and Wastewater System Design	Revisions to Section I, incorporating requirements for non-corrosive manholes applicable to new manholes constructed off 15 in diam and larger mains, 'One-off' manholes (first manhole off 15 in diam and larger sewer mains) and certain manholes constructed in arterial streets. Also, revised requirements for pipe connections where smaller sewer line invert must be at or above crown of largest pipe to improve flow conditions and backup issues.
TDM #3	Drainage Policies and Standards	Update pg 5, Section 5.3 for changes to City Code. Floodplain mgt. delegation is now in 43-5.
TDM #3	Drainage Policies and Standards	Minor revisions including removing shall requirement for last three lengths of pipe to be RGRCP at outlets, clarification on connection requirements between storm mains and laterals, and referencing City List of Approved Products for on-site pipe and catch basin materials.
TDM #4	Street Design and Access Control	Revision to Traffic Impact Studies, Section V, per updated referenced Traffic Impact Study Scope of Work document. Other minor formatting revisions.
TDM #5	Traffic Signal Design	General document cleanup including revisions to pull box requirements, conduits, fiber optics communication cables and other signal related items. Various minor detail updates. Revised detail TS-14 conduit and pull box requirements, removed innerduct requirement.
TDM #6	Streetlight Design	Minor revisions to document and details.
<b>Specifications (Supplements to MAG)</b>		
SECTION 321	ASPHALT CONCRETE PAVEMENT	Revision to reference new MAG Section 718.3 Surface Sealer instead of TRMSS.
SECTION 334	PRESERVATIVE SEAL FOR ASPHALT CONCRETE	Remove this specification in favor of approved MAG Case 18-02, 'TRMSS' replaced with new Section 718.3 Surface Sealer.

SECTION 336	PAVEMENT MATCHING AND SURFACING REPLACEMENT	Revision to remove deviation from MAG for 16-inch minimum shelf depth. Revision to reference new joint sealing requirements on updated MAG Detail 200.
SECTION 345	ADJUSTING FRAMES, COVERS AND VALVE BOXES	New Section to incorporate adjustment requirements non-corrosive manholes.
SECTION 601	TRENCH EXCAVATION, BACKFILLING, AND COMPACTION	Revision to remove deviation from MAG for 16-inch minimum shelf depth.
SECTION 611	WATER, SEWER AND STORM DRAIN TESTING	Removal in favor of adopted MAG Case 17-09 revision to Section 611.
SECTION 625	MANHOLE CONSTRUCTION AND DROP SEWER CONNECTIONS	Revisions to incorporate non-corrosive manhole standards.
SECTION 718	PRESERVATIVE SEAL FOR ASPHALTIC CONCRETE	Remove this specification in favor of approved MAG Case 18-02, 'TRMSS' replaced with new Section 718.3 Surface Sealer.