

CASE ACTIONS RECOMMENDED DURING REVIEW OF MAG SPECIFICATIONS AND DETAILS

Cases for Removal from MAG Specifications and Details

Section	Title	Recommended Action by Outside ROW Working Group
313	Bituminous Treated Base Course	Delete this section as this procedure is no longer used.
410	Precast Safety Curbs	Delete this section as this is for outside of ROW locations.
501	Driving Piles	Delete this section as it is outdated, rarely used and partly a design document.
780	Timber Piles	Delete this section as it is outdated, rarely used and provides little guidance.
781	Steel Piles	Delete this section as it is outdated, rarely used and provides little guidance.
782	Concrete Piles	Delete this section as it is outdated, rarely used and provides little guidance.
785	Steel Castings	Delete this detail as these materials are no longer used.
786	Bronze Casting	Delete this detail as these materials are no longer used.
Detail	Title	Recommended Action by Outside ROW Working Group
150	Precast Safety Curb	Delete from ROW standard as these are used outside ROW.
170	Typical Runway or Taxiway Edge Lighting Detail	Delete from ROW standard. Detail is for work outside of the ROW and may not be current.
402	Encased Pipe for Canal Crossing	Delete this detail since irrigation agency standards supercede MAG on canals.
425	24" Aluminum Manhole Frame and Cover	Delete this detail as it is rarely (if ever) used.

Cases for Removal from MAG Specifications and Details - Minor Changes Needed in Other Standards/Details

Section	Title	Recommended Action by Outside ROW Working Group
225	Watering	Delete this section since it provides minimal technical guidance - mostly general conditions. Modify earthwork and dust control specifications if needed and include general conditions in Section 104.
787	Gray Iron Castings	Delete this section; place essential information from 787.3 in existing details referencing gray iron castings.
Detail	Title	Recommended Action by Outside ROW Working Group
190	Rock Correction Procedure for Maximum Density Determination	Delete from ROW construction standard. This is a QC testing requirement that can be specified in Section 301 using ASTM D4718.

Cases for Review by Concrete Working Group (green shading denotes minor revisions)

Section	Title	Recommended Action by Outside ROW Working Group
342	Decorative Pavement Concrete Paving Stone or Brick	Remove material references from this placement specification and place them in their appropriate locations in Part 700.
525	Pneumatically Placed Mortar	Revise to include current practices and correct ACI references/requirements.
640	Precast Concrete Arches	Suggested new MAG specification to meet current agency practices
776	Masonry Mortar and Grout	Section is outdated and needs to be revised to meet current industry standards.
Detail	Title	Recommended Action by Outside ROW Working Group
225	Concrete Pavers	Include colored pavers, textured concrete and formed pavers.
550	Spillway Inlet and Outlet	Modify to include grouted riprap option.
729	Expansion Joint Material	Materials and ASTM references may be out of date.

Cases for Review by Asphalt Working Group (green shading denotes minor revisions)

Section	Title	Recommended Action by Outside ROW Working Group
323	Heater Remix Resurfacing	Revise to make current with new practices and in line with air regulations.
334	Preservative Seal for Asphalt Concrete	Revise specification for modern seal coats presently used and delete reference to rejuvenating agents that probably do not meet ADEQ air quality regulations.
335	Hot Asphalt-rubber Seal	Either delete or make current with modern methods.
337	Pavement Crack Repair	Suggested new MAG specification to meet current agency practices
709	Recycled Asphalt Pavement	Minor changes needed to better meet current materials.
715	Slurry Seal Materials	Minor changes needed to better meet current materials.
719	Recycled Asphalt Concrete - Hot Mixed	Minor changes needed to better meet current materials.

CASE ACTIONS RECOMMENDED DURING REVIEW OF MAG SPECIFICATIONS AND DETAILS

Cases for Review by Sewer & Water Working Group (green shading denotes minor revisions)

Section	Title	Recommended Action by Outside ROW Working Group
630	Tapping Sleeves, Valves And Valve Boxes On Water Lines	Revise to remove specified products - make requirements generic.
640	Precast Concrete Arches	Suggested new MAG specification to meet current agency practices
736	Non-reinforced Concrete Pipe	Review to determine if this material is still desired.
751	Gray Iron Pipe and Fittings	Suggested new MAG specification to meet current agency practices.
754	Copper Pipe, Tubing and Fittings	Revise to include Type M copper.
Detail	Title	Recommended Action by Outside ROW Working Group
301	Blocking for Water Gate and Butterfly Valves	Review to determine if a detail is needed for butterfly valves.
302	Joint Restraint with Tie Rods	Change detail to match current methods - use of megalugs or equal.
321	Standard Water Meter Vault	Review to determine if the detail matches current practices.
340	Installing Tapping Sleeves and Valves	Evaluate removing stainless steel option as they are difficult to get water tight.
346	Fire Line Detector Check Valve	Review and determine if this detail belongs in a ROW specification (move to outside ROW standard?).
360	Fire Hydrant Installation	Revise to include standard collar type, add below grade shear collar, include minimum height above grade.
370	Vertical Realignment of Water Mains	Determine if case from a few years ago is still applicable.
380	Thrust Blocks for Water Lines	Revise to show blocks to scale, include options for soil capacities less than 3000 psi.
389	Curb Stop with Valve Box and Cover	Revise to make consistent with current practices.
390	Curb Stop with Flushing Pipes	Revise to make consistent with current practices.
392	Debris Cap Installation	Review to determine if the detail is still used or necessary. This one can probably be deleted.
405	Broken Sewer Line Replacement	Detail appears to apply to only clay pipe. Expand to include more types of sewer pipe.
424	24" and 30" Manhole Frame and Cover	Revise tolerance to allow fabrication in the US.
426	Drop Sewer Connection	Detail needs clarification and to be expanded for more than just clay pipe.
427	Stub Out and Plugs	Modify to include caps, blocking details and mechanical seal.
441	Sewer Cleanout	Modify to include testing requirements and vertical pipe distance.
504	Concrete Block Junction Box	Review to determine if covers are consistent with current practices.
505	Concrete Pipe Collars	Detail needs to be cleaned up and be consistent with current practices.
507	Encased Concrete Pipe (for Shallow Installation)	Method of pipe protection is vague and needs to be better engineered to determine if it really works. Is it really needed or wanted?
524	Storm Drain Lateral Pipe Connections	Review to determine if this belongs in a ROW standard.
345-1	3", 4" and 6" Water Meter	Review - may not be in accordance with current agency practices.
391-1&2	Valve Box Installation and Grade Adjustment	Revise to include use outside pavements and out of ground. Incorporate numerous city supplement options.
420-1&2	Precast Concrete Sewer Manhole	Revise to delete reference to proprietary products and include options for overexcavation and recompaction.
502-1&2	Trash Rack	Revise to make consistent with current practices.

CASE ACTIONS RECOMMENDED DURING REVIEW OF MAG SPECIFICATIONS AND DETAILS

Cases for Review by Materials Working Group (new) (green shading denotes minor revisions)

Section	Title	Recommended Action by Outside ROW Working Group
301	Subgrade Preparation	Include a section on geotechnical investigation information; check ASTM references; delete reference to Detail 190 and reference ASTM D4718; clarify subgrade stability below pavements.
309	Lime Slurry Stabilization	Re-write this section to be current with modern methods
310	Untreated Base	Change the title to provide clarity; modify Table 310-1 to make correction of deficiencies applicable to present needs and methods.
311	Soil Cement Base Course	Change the title to indicate cement stabilization of native soil (not ABC); spec needs review and revision to make current with modern methods
601	Trench Excavation, Backfilling And Compaction	Include a section on geotechnical investigation information.
605	Subdrainage	Antiquated specification. Update for current practices and material placement methods.
621	Corrugated Metal Pipe And Arches	Revise to remove out-of-date practices.
Detail	Title	Recommended Action by Outside ROW Working Group
270	Frame & Cover (and Grade Adjustments)	Delete "AND GRADE ADJUSTMENTS" from the Table of Contents title and from the detail subtitle. Prepare a new detail for grade adjustments for overlays.

Cases for Review by Various Members & Agency Staff (green shading denotes minor revisions)

Section	Title	Recommended Action by Outside ROW Working Group
350	Removal of Existing Improvements	Modify to include utility abandonment/removal requirements.
360	Telecommunications Installations	Revise to meet current agency practices and requirements.
401	Traffic Control	Revise to meet current agency practices and requirements.
430	Landscaping and Planting	Revise to include current practices and innovations (hydroseeding)
440	Sprinkler Irrigation System Installation	Revise to include current practices and innovations (drip systems)
515	Steel Structures	Revise section to delete references to major structures that fall under building code regulations; section should be for minor steel structures only.
520	Steel and Aluminum Handrails	Revise to match existing details and current codes/standards.
530	Painting	Section is outdated and needs to be revised to meet current industry standards.
757	Sprinkler Irrigation Systems	Suggest changing title to "Landscape Irrigation" and update for current materials (drip systems).
770	Structural And Rivet Steel, Rivets, Bolts, Pins, And Anchor Bolts	Antiquated specification. Update for current materials.
772	Chain Link Fence	Review and change ASTM standards that are out of date.
779	Wood Preservatives	Section is outdated and needs to be revised to meet current industry standards.
790	Paint	Section is outdated and needs to be revised to meet current industry standards.
795	Landscaping Material	Revise to include current materials used by agencies.
Detail	Title	Recommended Action by Outside ROW Working Group
131	Street Sign Base	Update to include materials currently used by agencies for street sign supports.
135	Steel Guard Rail	Include end attenuation details.
160	Chain Link Fence and Gate	Include options for higher fencing as allowed in Section 420.
202	Alley Details	Modify inverted crown alley for access road use; delete unpaved surface or include aggregate or RAP surfacing
204	Equipment Crossing	Review to determine if this is still needed. When would it be used?
210	Residential Speed Hump	Include option for speed table (Tempe design); include a note on drainage impacts.