

REVIEW OF MAG UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

Outside Right-of-Way Working Group

| Section | Title | Recommended Action |
|---------|--|---|
| 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. |
| 301 | Subgrade Preparation | Include a section on geotechnical investigation information; check ASTM references; delete reference to Detail 190 and reference applicable ASTM standard; 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 |
| 313 | Bituminous Treated Base Course | Remove from MAG as this procedure is no longer used. |
| 323 | Heater Remix Resurfacing | Remove from MAG ; this section probably does not meet ADEQ air quality 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 |
| 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. |
| 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. |
| 410 | Precast Safety Curbs | Remove from MAG as this is for outside of ROW locations. |
| 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) |
| 501 | Driving Piles | Delete this section as it is outdated, rarely used and partly a design document. |
| 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. |
| 525 | Pneumatically Placed Mortar | Revise to include current practices and correct ACI references/requirements. |
| 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. |
| 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. |
| 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 |
| 705 | Portland Cement Treated Base | Table 705-1 has an error in the specified -#200 range (blooper case). |

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| 709 | Recycled Asphalt Pavement | ARPA suggests minor changes to better meet current materials. |
| 715 | Slurry Seal Materials | ARPA suggests minor changes to better meet current materials. |
| 719 | Recycled Asphalt Concrete - Hot Mixed | ARPA suggests minor changes to better meet current materials. |
| 729 | Expansion Joint Material | Materials and ASTM references may be out of date. To be reviewed by the Concrete Working Group. |
| 736 | Non-reinforced Concrete Pipe | MAG committee should 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. |
| 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. |
| 776 | Masonry Mortar and Grout | Section is outdated and needs to be revised to meet current industry standards. |
| 778 | Lumber | Section is outdated and needs to be revised to meet current industry standards. |
| 779 | Wood Preservatives | Section is outdated and needs to be revised to meet current industry standards. |
| 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 | Remove from MAG as these materials are no longer used. |
| 786 | Bronze Casting | Remove from MAG as these materials are no longer used. |
| 787 | Gray Iron Castings | Delete this section; place essential information from 787.3 in existing details referencing gray iron castings. |
| 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. |

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Outside Right-of-Way Working Group - Details

| Detail | Title | Recommended Action |
|---------|---|--|
| 131 | Street Sign Base | Update to include materials currently used by agencies for street sign supports. |
| 135 | Steel Guard Rail | Include end attenuation details. |
| 150 | Precast Safety Curb | Delete from ROW standard as these are used outside ROW. |
| 160 | Chain Link Fence and Gate | Include options for higher fencing as allowed in Section 420. |
| 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. |
| 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. |
| 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. |
| 225 | Concrete Pavers | Include colored pavers, textured concrete and formed pavers. |
| 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. |
| 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. |
| 345-1 | 3", 4" and 6" Water Meter | Review - may not be in accordance with current agency practices. |
| 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. |
| 391-1&2 | Valve Box Installation and Grade Adjustment | Revise to include use outside pavements and out of ground. Incorporate numerous city supplement options. |
| 392 | Debris Cap Installation | Review to determine if the detail is still used or necessary. This one can probably be deleted. |
| 402 | Encased Pipe for Canal Crossing | Recommend deleting the detail since irrigation agency standards supercede MAG on canals. |
| 405 | Broken Sewer Line Replacement | Detail appears to apply to only clay pipe. Expand to include more types of sewer pipe. |
| 420-1&2 | Precast Concrete Sewer Manhole | Revise to delete reference to proprietary products and include options for overexcavation and recompaction. |
| 424 | 24" and 30" Manhole Frame and Cover | Revise tolerance to allow fabrication in the US. |
| 425 | 24" Aluminum Manhole Frame and Cover | Recommend deleting the detail as it is rarely (if ever) used. |

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| Detail | Title | Recommended Action |
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| 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. |
| 502-1&2 | Trash Rack | Revise to make consistent with current practices. |
| 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. |
| 550 | Spillway Inlet and Outlet | Modify to include grouted riprap option. |