

SAMPLE FORMS

NO CHANGES

PART 100 GENERAL CONDITIONS

SECTION 101 ABBREVIATIONS AND DEFINITIONS

101.2 DEFINITION AND TERMS: is modified to add:

The use of the term “Engineer” in these specifications shall also include the Contracting Agency “Project Manager” or “Architect” as applicable for the type of work.

SECTION 102 BIDDING REQUIREMENTS AND CONDITIONS

NO CHANGES

SECTION 103 AWARD AND EXECUTION OF CONTRACT

NO CHANGES

SECTION 104 SCOPE OF WORK

104.1.1 GENERAL: the second paragraph is changed to read:

In the event a conflict exists between Contract Documents the order of precedence listed in descending order shall be as follows:

- Change Orders
- Addenda
- Special Provisions
- Project Plans
- Contracting Agency’s supplements to the MAG *Outside of Right-of-Way* Standard Specifications and Details
- MAG *Outside of Right-of-Way* Standard Specifications
- MAG *Outside of Right-of-Way* Standard Details

104.1.2 MAINTENANCE OF TRAFFIC: the third paragraph is changed to read:

In site areas accessible to vehicular or pedestrian traffic, grading operations, excavation and fill construction shall be conducted and maintained in such a manner as to provide a reasonably satisfactory and safe surface for vehicular and pedestrian traffic. When rough grading is completed, any *access road or drive* shall be brought to and maintained in a reasonably smooth condition, satisfactory and safe for vehicular traffic at the posted speed limit. Pedestrian walkways shall be provided and maintained in a like manner. The Contractor shall accomplish any additional grading operations and/or repairs, including barricade replacement or repairs during working and nonworking periods which, in the opinion of the Engineer, are required.

SECTION 105 CONTROL OF WORK

105.8 CONSTRUCTION OF STAKES, LINES AND GRADES: the first paragraph is changed to read:

The Engineer will set construction stakes establishing lines and grades for *site* work, curbs, gutters, sidewalks, structures and centerlines for utilities and necessary appurtenances as he may deem necessary, he will furnish the Contractor with all necessary information relating to the lines and grades. These stakes and marks shall constitute the field control by and in accordance with which the Contractor shall establish other necessary controls and perform the work.

105.12 MAINTENANCE DURING CONSTRUCTION: the first paragraph is changed to read:

The Contractor shall maintain the work during construction and until the project is accepted. This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces to the end so that *all site work is* kept in satisfactory conditions at all times.

105.13 FAILURE TO MAINTAIN ROADWAY OR STRUCTURE: the title is changed to read:

105.13 FAILURE TO MAINTAIN *SITE* WORK

SECTION 106 CONTROL OF MATERIALS

NO CHANGES

SECTION 107 LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

107.4 ARCHAEOLOGICAL REPORTS: is changed to read:

Attention is directed to Sections 41-844 and 41-846 Arizona Revised Statutes. In view of the above, it shall be a provision of every contract that when archaeological features are encountered or unearthed in *excavations within the site project boundaries*, the Contractor shall report promptly to the Director of the Arizona State Museum and the Contracting Agency. The Contractor will be allowed extra time as appropriate in accordance with the provisions of Section 108.

**SECTION 108
COMMENCEMENT, PROSECUTION AND PROGRESS**

108.2 SUBLETTING OF CONTRACT: Subsection (E) is struck.

**SECTION 109
MEASUREMENTS AND PAYMENTS**

NO CHANGES

**SECTION 110
NOTIFICATION OF CHANGED CONDITIONS AND DISPUTE
RESOLUTION**

NO CHANGES

**PART 200
EARTHWORK**

**SECTION 201
CLEARING AND GRUBBING**

Outside of ROW Working Group will prepare modifications for on-site applications.

**SECTION 205
SITE EXCAVATION**

Outside of ROW Working Group will prepare modifications for on-site applications. The section will be re-titled “SITE EXCAVATION” and will include significant elements from Section 206.

**SECTION 206
STRUCTURAL EXCAVATION AND BACKFILL**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 210
BORROW EXCAVATION**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 211
FILL CONSTRUCTION**

Outside of ROW Working Group will prepare modifications for on-site applications. The section will incorporate Section 210.

**SECTION 215
EARTHWORK FOR OPEN CHANNELS**

NO CHANGES

**SECTION 220
RIPRAP CONSTRUCTION**

Concrete Working Group will prepare modifications for on-site applications, primarily with grout mix requirements.

**SECTION 225
WATERING**

NO CHANGES

**SECTION 230
DUST PALLIATIVE APPLICATION**

NO CHANGES

**PART 300
STREETS AND RELATED WORK**

**SECTION 301
SUBGRADE PREPARATION**

Outside of ROW Working Group will prepare modifications for on-site applications.

**SECTION 306
MECHANICALLY STABILIZED SUBGRADE –
GEOGRID REINFORCEMENT**

NO CHANGES

**SECTION 309
LIME SLURRY STABILIZATION**

NO CHANGES

**SECTION 310
UNTREATED BASE**

NO CHANGES

**SECTION 311
SOIL CEMENT BASE COURSE**

NO CHANGES

**SECTION 312
CEMENT TREATED BASE**

NO CHANGES

**SECTION 313
BITUMINOUS TREATED BASE
STRIKE THIS SECTION IN ITS ENTIRETY**

**SECTION 315
BITUMINOUS PRIME COAT**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 317
ASPHALT MILLING**

NO CHANGES

**SECTION 320
ROAD-MIXED SURFACING**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 321
ASPHALT CONCRETE PAVEMENT**

ARPA/AGC will prepare modifications for on-site applications.

**SECTION 323
HEATER REMIX RESURFACING**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 324
PORTLAND CEMENT CONCRETE STREET PAVEMENT**

Concrete Working Group will prepare modifications for on-site applications.

**SECTION 325
ASPHALT-RUBBER CONCRETE OVERLAY, GAP GRADED**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 327
HOT IN-PLACE RECYCLING**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 329
TACK COAT**

NO CHANGES

**SECTION 330
ASPHALT CHIP SEAL**

NO CHANGES

**SECTION 331
MICROSURFACING SPECIFICATIONS**

NO CHANGES

**SECTION 332
ASPHALT EMULSION SLURRY SEAL COAT**

NO CHANGES

**SECTION 333
FOG SEAL COATS**

NO CHANGES

**SECTION 334
PRESERVATIVE SEAL FOR ASPHALT CONCRETE**

ARPA/AGC will re-write this section for on-site applications.

**SECTION 335
HOT ASPHALT-RUBBER SEAL**

Maricopa County is re-writing this section. It will be evaluated afterward for on-site applications.

**SECTION 336
PAVEMENT MATCHING AND SURFACING REPLACEMENT**

Outside of ROW Working Group will prepare modifications for on-site applications.

**SECTION 340
CONCRETE CURB, GUTTER, SIDEWALK, SIDEWALK RAMPS,
DRIVEWAY AND ALLEY ENTRANCE**

Concrete Working Group will prepare modifications for on-site applications.

**SECTION 341
TERRAZZO SIDEWALKS**

Concrete Working Group will prepare modifications for on-site applications.

**SECTION 342
DECORATIVE PAVEMENT CONCRETE PAVING STONE OR BRICK**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 343
EXPOSED AGGREGATE PAVING**

NO CHANGES

**SECTION 345
ADJUSTING FRAMES, COVERS, VALVE BOXES AND WATER METER
BOXES**

NO CHANGES

**SECTION 350
Removal of Existing Improvements**

Outside of ROW Working Group will prepare modifications to include handling/abandonment of utilities outside of the right-of-way.

**SECTION 360
TELECOMMUNICATIONS INSTALLATION**

STRIKE THIS SECTION IN ITS ENTIRETY

**PART 400
SURVEY, SITE WORK & TRAFFIC CONTROL**

**SECTION 401
TRAFFIC CONTROL**

Outside of ROW Working Group will prepare modifications to simplify traffic control requirements for on-site conditions.

**SECTION 405
MONUMENTS**

NO CHANGES

**SECTION 410
PRECAST SAFETY CURBS**

NO CHANGES

**SECTION 415
FLEXIBLE METAL GUARDRAIL**

NO CHANGES

**SECTION 420
CHAIN LINK FENCES**

NO CHANGES

**SECTION 424
PARKWAY GRADING**

NO CHANGES

**SECTION 425
TOPSOILS**

NO CHANGES

SECTION 430

LANDSCAPING AND PLANTING

Outside of ROW Working Group will prepare modifications to update the standard and include new innovations such as hydroseeding.

SECTION 440 SPRINKLER IRRIGATION SYSTEM INSTALLATION

Outside of ROW Working Group will prepare modifications for on-site applications.

PART 500
ON-SITE STRUCTURES
(OUTSIDE BUILDING FOOTPRINT)

SECTION 501
DRIVING PILES

STRIKE THIS SECTION IN ITS ENTIRETY

SECTION 505
CONCRETE STRUCTURES

Concrete Working Group will prepare modifications for on-site applications.

SECTION 506
PRECAST PRESTRESSED CONCRETE MEMBERS

Concrete Working Group will prepare modifications for on-site applications.

SECTION 510
CONCRETE BLOCK MASONRY

Concrete Working Group will prepare modifications for on-site applications.

SECTION 511
BRICK MASONRY

Concrete Working Group will prepare modifications for on-site applications.

SECTION 515
STEEL STRUCTURES

NO CHANGES

SECTION 520
STEEL AND ALUMINUM HANDRAILS

NO CHANGES

**SECTION 525
PNEUMATICALLY PLACED MORTAR**

NO CHANGES

**SECTION 530
PAINTING**

NO CHANGES

**PART 600
WATER AND SEWER**

**SECTION 601
TRENCH EXCAVATION, BACKFILLING AND COMPACTION**

Outside of ROW Working Group will prepare modifications for on-site applications (expanding Table 601-2 for on-site needs).

**SECTION 602
ENCASEMENT OF WATER OR SEWER PIPE BY
JACKING OR TUNNELING OPERATION**

NO CHANGES

**SECTION 603
INSTALLATION FOR HIGH DENSITY POLYETHYLENE PIPE**

NO CHANGES

**SECTION 604
PLACEMENT OF CONTROLLED LOW-STRENGTH MATERIAL**

NO CHANGES

**SECTION 605
SUBDRAINAGE**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 610
WATER LINE CONSTRUCTION**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 611
DISINFECTING WATER MAINS**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 615
SEWER LINE CONSTRUCTION**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 616
RECLAIMED WATER LINE CONSTRUCTION**

Peoria is re-writing this section. It will be evaluated afterward for on-site applications.

**SECTION 618
STORM DRAIN CONSTRUCTION**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 620
CAST-IN-PLACE CONCRETE PIPE**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 621
CORRUGATED METAL PIPE AND ARCHES**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 625
MANHOLE CONSTRUCTION AND DROP SEWER CONNECTIONS**

NO CHANGES

**SECTION 630
TAPPING SLEEVES, VALVES AND VALVE BOXES ON WATER LINES**

NO CHANGES

**SECTION 631
WATER TAPS AND METER SERVICE CONNECTIONS**

Delete this section in its entirety and re-write in the future for on-site applications.

**PART 700
MATERIALS**

**SECTION 701
ROCK, GRAVEL AND SAND**

NO CHANGES

**SECTION 702
BASE MATERIALS**

Concrete Working Group will prepare modifications for on-site applications (including recycled asphalt product).

**SECTION 703
RIPRAP**

NO CHANGES

**SECTION 705
PORTLAND CEMENT TREATED BASE**

NO CHANGES

**SECTION 709
RECLAIMED ASPHALT PAVEMENT**

ARPA/AGC will prepare modifications for on-site applications.

**SECTION 710
ASPHALT CONCRETE**

ARPA/AGC will prepare modifications for on-site applications.

**SECTION 711
PAVING ASPHALT**

NO CHANGES

**SECTION 712
LIQUID ASPHALT**

NO CHANGES

**SECTION 713
EMULSIFIED ASPHALT**

NO CHANGES

**SECTION 714
MICROSURFACING MATERIALS**

NO CHANGES

**SECTION 715
SLURRY SEAL MATERIALS**

ARPA/AGC will prepare modifications for on-site applications.

**SECTION 716
COVER MATERIAL**

NO CHANGES

**SECTION 717
ASPHALT RUBBER**

NO CHANGES

**SECTION 718
PRESERVATIVE SEAL FOR ASPHALT CONCRETE**

ARPA/AGC will re-write this section for on-site applications.

**SECTION 719
RECYCLED ASPHALT CONCRETE HOT MIXED**

NO CHANGES

**SECTION 725
PORTLAND CEMENT CONCRETE**

Concrete Working Group will prepare modifications for on-site applications.

**SECTION 726
CONCRETE CURING MATERIALS**

NO CHANGES

**SECTION 727
STEEL REINFORCEMENT**

NO CHANGES

**SECTION 728
CONTROLLED LOW-STRENGTH MATERIAL**

NO CHANGES

**SECTION 729
EXPANSION JOINT FILLER**

Concrete Working Group will prepare modifications for on-site applications.

**SECTION 735
REINFORCED CONCRETE PIPE**

NO CHANGES

**SECTION 736
NON-REINFORCED CONCRETE PIPE**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 737
ASBESTOS-CEMENT PIPE AND FITTINGS FOR
STORM DRAIN AND SANITARY SEWER**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 738
HIGH DENSITY POLYETHYLENE PIPE & FITTINGS FOR
STORM DRAIN & SANITARY SEWER**

NO CHANGES

**SECTION 741
LINING FOR REINFORCED CONCRETE SANITARY SEWER PIPE**

NO CHANGES

**SECTION 743
VITRIFIED CLAY PIPE**

NO CHANGES

**SECTION 744
ABS TRUSS PIPE AND FITTINGS**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 745
PVC SEWER PIPE AND FITTINGS**

NO CHANGES

**SECTION 750
IRON WATER PIPE AND FITTINGS**

NO CHANGES

**SECTION 752
ASBESTOS-CEMENT WATER PIPE AND FITTINGS**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 753
GALVANIZED PIPE AND FITTINGS**

NO CHANGES

**SECTION 754
COPPER PIPE, TUBING AND FITTINGS**

NO CHANGES

**SECTION 755
POLYETHYLENE PIPE FOR WATER DISTRIBUTION**

NO CHANGES

**SECTION 756
DRY BARREL FIRE HYDRANTS**

NO CHANGES

**SECTION 757
LANDSCAPE IRRIGATION**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 758
CONCRETE PRESSURE PIPE - STEEL CYLINDER TYPE**

NO CHANGES

**SECTION 759
STEEL PIPE**

NO CHANGES

**SECTION 760
COATING CORRUGATED METAL PIPE AND ARCHES**

NO CHANGES

**SECTION 761
STRUCTURAL PLATE PIPE, ARCHES, AND PIPE ARCHES**

NO CHANGES

**SECTION 765
RUBBER GASKETS FOR CONCRETE PIPE**

NO CHANGES

**SECTION 770
STRUCTURAL AND RIVET STEEL, RIVETS, BOLTS, PINS, AND ANCHOR
BOLTS**

NO CHANGES

**SECTION 771
GALVANIZING**

NO CHANGES

**SECTION 772
CHAIN LINK FENCE**

NO CHANGES

**SECTION 775
BRICK AND CONCRETE MASONRY UNITS (BLOCKS)**

NO CHANGES

**SECTION 776
MASONRY MORTAR AND GROUT**

NO CHANGES

**SECTION 778
LUMBER**

NO CHANGES

**SECTION 779
WOOD PRESERVATIVES**

NO CHANGES

**SECTION 780
TIMBER PILES**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 781
STEEL PILES**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 782
CONCRETE PILES**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 785
STEEL CASTINGS**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 786
BRONZE CASTINGS**

STRIKE THIS SECTION IN ITS ENTIRETY

**SECTION 787
GRAY IRON CASTINGS**

DRAFT

Delete this section in its entirety. Place essential information from 787.3 in existing details referencing gray iron castings.

**SECTION 790
PAINT**

NO CHANGES

**SECTION 792
DUST PALLIATIVES**

NO CHANGES

**SECTION 795
LANDSCAPE MATERIAL**

Delete this section in its entirety and re-write in the future for on-site applications.

**SECTION 796
GEOSYNTHETICS**

NO CHANGES

**100 SERIES
GENERAL INFORMATION**

**DETAIL 101
GENERAL INFORMATION**

NO CHANGES

**DETAIL 110
PLAN SYMBOLS**

NO CHANGES

**DETAIL 112
DIMENSIONING FOR ROAD IMPROVEMENT PLANS**

NO CHANGES

**DETAIL 120-1
SURVEY MARKER**

NO CHANGES

**DETAIL 120-2
SURVEY MARKER – UNINCORPORATED AREAS OF COUNTY**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAIL 130
BARRICADES**

NO CHANGES

**DETAIL 131
STREET SIGN BASE**

NO CHANGES (to be modified in ROW standard for new materials)

**DETAILS 135-1 THROUGH 135-4
STEEL GUARD RAIL**

NO CHANGES (to be modified in ROW standard to include end attenuation)

**DETAIL 140
BOLLARD**

NO CHANGES

**DETAIL 141
HAZARD MARKER**

NO CHANGES

**DETAIL 145
SAFETY RAIL**

Outside of ROW Working Group will prepare modifications to accommodate OSHA on-site requirements.

**DETAIL 150
PRECAST SAFETY CURB**

NO CHANGES (to be removed from ROW standard)

**DETAIL 160
6' CHAIN LINK FENCE AND GATE**

NO CHANGES (to be modified in ROW standard to allow higher fencing)

**DETAIL 170
TYPICAL RUNWAY OR TAXIWAY EDGE LIGHTING DETAIL**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAIL 190
ROCK CORRECTION PROCEDURE FOR MAXIMUM DENSITY
DETERMINATION**

STRIKE THIS DETAIL IN ITS ENTIRETY

**200 SERIES
STREET INFORMATION**

**DETAILS 200-1 AND 200-2
BACKFILL, PAVEMENT AND SURFACE REPLACEMENT**

NO CHANGES

**DETAIL 201
PAVEMENT SECTION AT TERMINATION**

NO CHANGES

**DETAIL 202
ALLEY DETAILS**

NO CHANGES (to be modified in ROW standard: modify paved alley detail; include aggregate surfacing for unpaved detail)

**DETAIL 203
SCUPPERS**

NO CHANGES

**DETAIL 204
EQUIPMENT CROSSING**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAIL 205
PAVED TURNOUTS**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAILS 206-1 THROUGH 206-3
CONCRETE SCUPPERS**

NO CHANGES

DETAIL 210
~~RESIDENTIAL~~ SPEED HUMPS

Outside of ROW Working Group will prepare modifications for on-site applications (speed control in parking lots).

DETAIL 211
STANDARD TRENCH PLATING DETAIL

NO CHANGES

DETAIL 212
UTILITY POTHOLE REPAIR

NO CHANGES

DETAILS 220-1 AND 220-2
CURB AND GUTTER

NO CHANGES

DETAIL 221
CURB AND GUTTER TRANSITIONS

NO CHANGES

DETAIL 222
SINGLE CURB

NO CHANGES

DETAIL 223
MEDIAN NOSE TRANSITION

STRIKE THIS DETAIL IN ITS ENTIRETY

DETAIL 224
JOINT FOR DRAINAGE INLETS AND MANHOLE COVERS

NO CHANGES

**DETAIL 225
CONCRETE PAVERS**

NO CHANGES (to be modified in ROW standard to allow colored pavers, textured concrete and formed pavers)

**DETAIL 230
SIDEWALKS**

Outside of ROW Working Group will prepare modifications to allow various widths and jointing requirements for on-site applications.

**DETAILS 231 THROUGH 234
SIDEWALK RAMPS**

**STRIKE THESE DETAILS IN THEIR ENTIRETY
(Designs are typically unique to on-site architectural plans)**

**DETAIL 240
VALLEY GUTTER**

NO CHANGES

**DETAILS 250-1 AND 250-2
DRIVEWAY ENTRANCES**

STRIKE THESE DETAILS IN THEIR ENTIRETY

**DETAIL 251
RETURN TYPE DRIVEWAYS**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAIL 252
BUS BAYS**

NO CHANGES

**DETAILS 260 AND 261
ALLEY ENTRANCE**

STRIKE THESE DETAILS IN THEIR ENTIRETY

**DETAILS 262 AND 263
WING TYPE ALLEY ENTRANCE**

STRIKE THESE DETAILS IN THEIR ENTIRETY

**DETAIL 270
FRAME AND COVER**

NO CHANGES (to be modified in ROW standard: need to delete “(AND GRADE ADJUSTMENTS)
from title in Table of Contents and from detail subtitle)

**300 SERIES
WATER INFORMATION**

**DETAIL 301
BLOCKING FOR WATER GATE AND BUTTERFLY VALVES**

NO CHANGES

**DETAILS 302-1 AND 302-2
JOINT RESTRAIN WITH TIE RODS**

NO CHANGES (to be modified in ROW standard – change to megalugs or agency approved method)

**DETAILS 303-1 AND 303-2
JOINT RESTRAIN FOR DUCTILE IRON AND PE WRAPPED DUCTILE
IRON WATER PIPES**

NO CHANGES

**DETAILS 310 THROUGH 314
CAST IRON WATER METER BOX COVER**

NO CHANGES

**DETAIL 320
CONCRETE WATER METER BOXES**

Outside of ROW Working Group will prepare modifications to allow fiberglass and plastic boxes.

**DETAIL 321
STANDARD WATER METER VAULT**

Outside of ROW Working Group will prepare modifications to allow above grade use.

**DETAIL 340
INSTALLING TAPPING SLEEVES AND VALVES**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAIL 342
CONCRETE PRESSURE PIPE TAPPING SLEEVE**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAIL 345-1
3", 4" AND 6" WATER METER**

Outside of ROW Working Group will prepare modifications to allow above grade use.

**DETAIL 345-2
4", 6" WATER METER WITH ONSITE FIRE HYDRANTS**

NO CHANGES

**DETAIL 346
FIRE LINE DETECTOR CHECK VALVE**

NO CHANGES

**DETAIL 360
FIRE HYDRANT INSTALLATION**

NO CHANGES (to be updated in ROW standard: show standard collar, add below grade shear collar, minimum height above grade)

**DETAIL 362
LOCATION FOR NEW HYDRANTS**

**STRIKE THIS DETAIL IN ITS ENTIRETY
(Onsite locations are dictated by Fire Code)**

**DETAIL 370
VERTICAL REALIGNMENT OF WATER MAINS**

NO CHANGES (to be updated in ROW standard – old case from a few years ago)

**DETAIL 380
THRUST BLOCKS FOR WATER LINES**

NO CHANGES (to be updated in ROW standard to show blocks drawn to scale, options for soil capacity less than 3 ksi)

**DETAIL 381
ANCHOR BLOCKS FOR VERTICAL BENDS**

NO CHANGES

**DETAIL 389
CURB STOP WITH VALVE BOX AND COVER**

NO CHANGES (to be completely revised in ROW standard with updated methods and new title)

**DETAIL 390
CURB STOP WITH FLUSHING PIPE**

NO CHANGES (to be completely revised in ROW standard with updated methods and new title)

**DETAILS 391-1 AND 391-2
VALVE BOX INSTALLATION AND GRADE ADJUSTMENT**

NO CHANGES (to be updated in ROW standard for use outside of pavement and include various city supplement options)

**DETAILS 392
DEBRIS CAP INSTALLATION**

STRIKE THIS DETAIL IN ITS ENTIRETY

**400 SERIES
SEWER INSTALLATION**

**DETAIL 402
ENCASED PIPE FOR CANAL CROSSING**

STRIKE THIS DETAIL IN ITS ENTIRETY
(Canal crossing requirements are dictated by irrigation agency standards)

**DETAILS 403-1 AND 403-2
PIPE SUPPORT ACROSS TRENCHES**

NO CHANGES

**DETAIL 403-3
ALTERNATIVE TO PIPE SUPPORT**

NO CHANGES

**DETAILS 404-1 THROUGH 403-3
WATER AND SANITARY SEWER SEPARATION/PROTECTION**

NO CHANGES

**DETAIL 405
BROKEN SEWER LINE REPLACEMENT**

Outside of ROW Working Group will prepare modifications to include more than just clay pipe replacement.

**DETAILS 420-1 AND 420-2
PRECAST CONCRETE SEWER MANHOLE**

NO CHANGES (to be modified in ROW standard to delete reference to proprietary product and include option for overexcavation and recompaction)

**DETAIL 421
OFFSET MANHOLE FOR 8" TO 30" PIPE**

NO CHANGES

**DETAIL 422
BRICK SEWER MANHOLE AND COVER FRAME ADJUSTMENTS**

NO CHANGES

**DETAIL 423
WATER TIGHT 30" MANHOLE FRAME AND COVER**

NO CHANGES

**DETAIL 424
24" AND 30" MANHOLE FRAME AND COVER**

NO CHANGES (to be modified in ROW standard allow fabrication in the US)

**DETAIL 425
24" ALUMINUM MANHOLE FRAME AND COVER**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAIL 426
DROP SEWER CONNECTION**

NO CHANGES (to be modified in ROW standard to clarify detail)

**DETAIL 427
STUB OUT AND PLUGS**

NO CHANGES (to be modified in ROW standard to include caps, blocking detail and possible mechanical seal)

**DETAIL 428
MANHOLE STEPS**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAIL 429
INDUSTRIAL WASTE CONTROL VAULT WITH MANHOLE**

STRIKE THIS DETAIL IN ITS ENTIRETY

**DETAILS 440-1 THROUGH 440-4
SEWER BUILDING CONNECTION (TYPES A, B, C & STAMP DETAIL)**

NO CHANGES

**DETAIL 441
SEWER CLEANOUT**

NO CHANGES (to be modified in ROW standard: testing requirements, vertical pipe distance).

**500 SERIES
IRRIGATION AND STORM DRAIN INFORMATION**

**DETAILS 501-1 THROUGH 501-3
HEADWALLS**

NO CHANGES

**DETAIL 501-4
HEADWALL IRRIGATION 18" TO 60" PIPE**

NO CHANGES

**DETAIL 501-5
HEADWALL DROP INLET**

NO CHANGES

**DETAILS 502-1 AND 502-2
TRASH RACK**

NO CHANGES

**DETAIL 503
IRRIGATION STANDPIPE**

NO CHANGES

**DETAIL 504
CONCRETE BLOCK JUNCTION BOX**

NO CHANGES (lids to be modified in ROW standard)

**DETAIL 505
CONCRETE PIPE COLLAR**

NO CHANGES (to be modified in ROW standard to make current with modern practices)

**DETAIL 506
IRRIGATION VALVE INSTALLATION**

NO CHANGES

**DETAIL 507
ENCASED CONCRETE PIPE (FOR SHALLOW INSTALLATION)**

NO CHANGES (to be reviewed by ROW standard committee)

**DETAIL 510
CORRUGATED METAL PIPE INSTALLATION**

Outside of ROW Working Group will review and make changes to accommodate underground storage tanks for drainage water.

**DETAILS 520 THROUGH 522
STORM DRAIN MANHOLE BASE AND SHAFT**

NO CHANGES

**DETAILS 532-1 AND 523-2
PRESSURE MANHOLE**

NO CHANGES

**DETAIL 524
STORM DRAIN LATERAL PIPE CONNECTIONS**

NO CHANGES

**DETAILS 531 THROUGH 532
CURB OPENING CATCH BASIN (TYPES A, B & C)**

NO CHANGES

**DETAILS 533-1 THROUGH 533-4
CATCH BASIN TYPE D (BASIN, APRON, GRADE & FRAME)**

NO CHANGES

**DETAILS 534-1 THROUGH 534-4
CATCH BASIN TYPE E (BASIN & DETAILS)**

NO CHANGES

**DETAIL 534-5
ALTERNATE GRATE STYLES AND SUMP LOCATION**

NO CHANGES

**DETAIL 535
CATCH BASIN TYPE F**

NO CHANGES

**DETAILS 536-1 AND 536-2
CURB OPENING CATCH BASIN (DETAILS, SECTIONS, COVER)**

NO CHANGES

**DETAILS 537 AND 538
CATCH BASIN (TYPE G & H)**

NO CHANGES

**DETAILS 539 THROUGH 540-2
GRATES FOR CATCH BASINS**

NO CHANGES

**DETAIL 541
CATCH BASIN SUBGRADE DRAIN**

NO CHANGES

**DETAIL 545
END SECTION REINFORCED CONCRETE PIPE**

NO CHANGES

**DETAIL 550
SPILLWAY INLET AND OUTLET**

NO CHANGES (to be modified in ROW standard to include grouted riprap option)

**DETAIL 552
CONCRETE CUTOFF WALLS**

NO CHANGES

**DETAIL 555
EROSION PROTECTION - GABIONS**

NO CHANGE