

CITY OF ARVADA

ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS JULY 19, 2011 UPDATE SUMMARY

The following **written specifications** have been modified and/or updated as follows:

Section 2.20 Time of Completion and Liquidated Damages – Contract Amount ranges and daily charge amounts have been modified to match CDOT standards.

Section 5.7 added describing erosion control Best Management Practices (BMP's)

Section 10.2.12 Truncated Domes – section has been added specifying which materials are allowed for truncated domes in ADA ramps.

Section 11.2.2 Recycled Asphalt Pavement – additional language added clarifying requirements for use of RAP in asphalt mixes.

Section 20.2.4 – Foamed flowable fly ash backfill alternative added

Section 20.3.9 – section has been added specifying requirements for the use of steel trench plates.

Table 25.1 – Additional types of acceptable sanitary and storm sewer pipe have been added to the table. The jacking pipe joint type has been updated.

Section 25.2.1 – All pipe joints within casing pipes are to be restrained.

Section 25.2.16 – Fernco or Calder couplings shall now be the strong back type with stainless steel cover.

Section 25.2.19 – Jacking pipe joint type has been updated.

Section 25.3.6 – Language has been added requiring all underdrain pipe to be white in color.

Section 30.2.1A – Curb stop valves no longer require a square nut operator. Changes to Meter (Vault) Setters brands allowed. Larger 16" diameter meter pit lids are now required on 1" diameter meter pits.

Section 30.2.1B – All tee head bolts for fittings shall be "Cor-Blue" type.

Section 30.2.2A – All gate valves shall now have stainless steel bonnet bolts and nuts.

Section 30.2.2D – Obsolete language has been removed. Updates to brands of Air-vac valves allowed. Guard valves shall be full body stainless steel.

Section 30.2.3C – Bolting material shall be “Cor-Blue” type.

Section 30.2.3F – Valve surfaces shall be fusion bonded epoxy coating.

Section 30.2.3G – Valve box bases shall be No. 6 round instead of No. 160 oval.

Section 30.2.5 – Obsolete language in the fire hydrant section has been removed. AVK Modern 2700 brand is now also allowed.

Section 30.2.11 – Cor-Blue bolts shall be required on all bell and spigot joint restraints.

Section 30.3.4 – Minimum water main cover shall be four (4) feet.

Section 30.3.14 – Only gate valves shall be used on fire lines.

Section 30.4.3B – Fire lines shall be pressure tested at 200 psig

Section 40.1.2.B.6 – “Strong Box” enclosure removed

Section 40.2.E – Items 2 and 3 size ranges adjusted

Section 40.2.I – No Van Nozzles allowed

Section 40.3.7B2 – Item C added for underground electric lines

Section 40.4.1A – Item #5 requiring supply of drain valve keys was removed.

Section 50.11.9 – Uninterruptible Power Supply (UPS) section added to replace former On-Street Master section.

Table 100.17 Recommended Minimum Pavement Sections – certain minimum asphalt depths have been increased by 1 inch.

The following **standard drawings** have been modified and/or updated as follows:

W-1 and W-2 Depth of cover was modified to between 4 ft and 6

W-4 Valve box base type changed to No. 6 Round.

W-9 Blow off assembly modified to come straight out of end of pipe.

W-32 PVC pipe sump pit added

W-46 Ball valve corp stops specified

W-49 Buried vent pipe changed to SCH 80 PVC

W-54 Gate valves added to bypass line

W-55 Tapping saddles added to corporation stop taps

W-56 Cla-Val model number clarified

W-59 4" dia. recess in lid has been removed

W-65 and 66 Tracer wire taped to top of pipe rather than wound around pipe

W-68 Detail deleted "Single family fire line"

SS-6 Underdrain risers in manhole to have glued or restrained joints

SD -2 rebar dowels in cold joints of crossspans added

SD-7 Detectable warning detail modified to not include use of brick pavers

TC-4 and TC-5 Arrow board added

TC-16 Signage added

TC-19 Added detail sidewalk traffic control

SW-1 through 11 Details added for stormwater management BMP's.

ST-1,2,3 - Minor dimensional changes not affecting the overall right of way width were made. The cross sections were re-drawn to the same scale.

ST-9 Right Turn In/Out Traffic Island – Island moved back to match edge of crossspan

ST-21 Cul de sac design renumbered to ST-20

ST-20, 22,23,24,25 renumbered to new traffic section TR-1,2,3,4,5

TR-6,7,8,9,10 Detail drawings added