

What changed between R5.0 and R6.0 of the A/E/C CAD Standard?

Cover	Added note saying that the Standard is a DoD implementation of various industry and national standards. Removed the NCS logo to show that it is not strictly a DoD implementation of the NCS
Throughout	Chapter/section numbers added to all major paragraphs/sections for ease in locating particular sections
Page 1	CIM added to list of acronyms
Page 3	E-mail for sending recommendations or suggestions revised
2.1.2	File accuracy section updated to include missing units and removal of obsolete information.
2.2	More detail added on differences between model files and sheet files. Paragraph added about border model files and how that info is contained in the A/E/C Graphics Standard. Reference Files paragraph added. Information added about raster references.
2.4.2	Note added how the NCS definition of Discipline Designator is too open ended, resulting in designators that should be subsets of other disciplines.
Table 2-1	Disciplines "E" Equipment, "D" Process, "W" Distributed Energy, "Z" Contractor/Shop Drawings removed for the purpose listed above
Table 2-2	Raster Imagery (IG) added to all discipline model file types, Plan and Profile (PP) added to Survey/Mapping and Civil, Survey and Mapping plan changed from SP to SV. In Structural, Framing Plan changed from FP to FR and Foundation Plan changed from NP to FN. Section (SC) added to Fire Protection. Equipment Plan (QP) added to Plumbing, Electrical, and Telecommunication.
Table 2-3	Under General, GI and GC switched in order. Boundary (VB) and Land (VL) added to Survey/Mapping. Reordering of Level 2 Designators in Civil, Landscape, Structural, Architectural, Interiors, Plumbing, Mechanical, Electrical. Demolition (FD) added to Fire Protection. PL changed from Plumbing to Plumbing Fixtures. Distributed Energy (EW) added to Electrical. Resource Green (RG) added to Resource.
Table 2-4	Designator 1 revised to "Plans (horizontal views and combination plan and profile)". Designator 2 revised to "Elevations and profiles (vertical views)". Designator 4 revised to "Large scale views (Scaled up reproductions of plans, elevations, or sections that are not details)"
Figure 2-6	Figure updated to reflect the latest border sheet
Table 3-1	Line type table updated to reflect current names for line types
3.1.3	Paragraph added to explain the move to listing colors by RGB value, rather than by software color numbers
Table 3-2	Table updated to reflect paragraph added to 3.1.3
3.1.4 and 3.1.5	Screening and Plotting paragraphs reversed
Chapter 3	Text information is moved to the A/E/C Graphics Standard to avoid duplication
Chapter 3	Border sheet information is moved to the A/E/C Graphics Standard to avoid duplication
Chapter 3	Real Estate border sheet information removed
Chapter 3	Drawings scales information is moved to the A/E/C Graphics Standard to avoid duplication
Chapter 3	Dimensioning information is moved to the A/E/C Graphics Standard to avoid duplication
Figure 4-4	Figure updated to show how color numbers are replaced with RGB values
4.2.2	Paragraph added to explain how Discipline specific ANNO layers are removed in favor of General only ANNO layers
Table 4-1	Subsurface Utility Engineering Quality Levels added to Status (Phase) codes
5.1	Paragraphs added to explain why moved to naming symbols based on CSI MasterFormat numbers
Appendix A, All Disciplines	All color numbers replaced with RGB values, line styles updated to CSI MasterFormat numbers/names
Appendix A, General	ANNO layers only found in this Discipline. Added DIMS, LEGN, REDL, REVC, SCHD to the list of ANNO layers. Added G-DEMO-PHS1 as a layer
Appendix A, Hazardous Material	ANNO layers moved to General.

What changed between R5.0 and R6.0 of the A/E/C CAD Standard?

Appendix A, Survey/Mapping	ANNO layers moved to General. All Airfield Beacon layers moved into a V-BCNS group of layers per the NCS. V-COMM-ANTN layer added to cover antenna. V-DOMW-FIRE and V-DOMW-HYDT moved to V-FIRE-PIPE and V-FIRE-HYDT. Remaining V-DOMW layers moved to V-WATR. All V-****-FTTG removed, since these items can be put directly into the piping systems. V-FUEL-PITS-HYDT, V-FUEL-PITS-VALV, V-FUEL-PITS-VENT combined into V-FUEL-VALT. V-HTCW-PITS renamed to V-HTCW-VALT. Added V-HTCW-METR for meters. Added V-INDW-METR for meters. Added V-NGAS-METR for meters. Combined V-NGAS-PITS-VENT and V-NGAS-PITS-VALV into V-NGAS-VALT. Removed V-POWR-POLE-IDEN since already have V-POWR-IDEN. Added V-POWR-GENR for generators and V-POWR-METR for meters. Added V-RRAP-BLKT, V-RRAP-TRET, and V-RRAP-VEGE. Added V-SITE-SOIL. Removed V-SITE-FENC-IDEN, since already have V-SITE-IDEN. Removed CATV from the descriptions of V-SPCL-SYST and V-SPCL-SYST-IDEN.
Appendix A, Geotechnical	ANNO layers moved to General.
Appendix A, Civil	ANNO layers moved to General. C-DOMW-FIRE and C-DOMW-HYDT moved to C-FIRE-PIPE and C-FIRE-HYDT. Remaining C-DOMW layers moved to C-WATR. All C-****-FTTG removed, since these items can be put directly into the piping systems. C-FUEL-PITS-HYDT, C-FUEL-PITS-VALV, C-FUEL-PITS-VENT combined into C-FUEL-VALT. Added C-INDW-METR for meters. All C-IRRG layers removed, since these items are already covered in the Landscape discipline. Added C-NGAS-METR for meters. Combined C-NGAS-PITS-VENT and C-NGAS-PITS-VALV into C-NGAS-VALT. Changed C-PROP-RWAY from linestyle 6 to a Right of Way linestyle. Removed C-SITE-FENC-IDEN, since already have C-SITE-IDEN. Added a Sub-Surface Drainage section with layers C-STRM-SUBS-CHIM, C-STRM-SUBS-COLL, C-STRM-SUBS-DRAIN, C-STRM-SUBS-FILT, C-STRM-SUBS-INCP, C-STRM-SUBS-GEOX, C-STRM-SUBS-PIPE, and C-STRM-SUBS-SEPR.
Appendix A, Landscape	ANNO layers moved to General. Colors for the Irrigation layers changed to 124,0,165 per APWA (with the exception of the IDEN layer)
Appendix A, Structural	ANNO layers moved to General. "Misc Small Civil Works Structures" and "3D Alignments" removed from list of Model File Types. Alignment section removed. S-EQPM-PADS revised to S-PADS-EQPM per NCS. Notes about 3D modeling removed from the description of the S-JNTS layers.
Appendix A, Architectural	ANNO layers moved to General. Removed INBATT as a line style from A-WALL-PATT
Appendix A, Interiors	ANNO layers moved to General.
Appendix A, Fire Protection	ANNO layers moved to General. F-WATR-CONN items combined into F-WATR-HYDT
Appendix A, Plumbing	ANNO layers moved to General. Added layers P-LGAS-DH2O, P-LGAS-DIS~, P-LGAS-H2~, P-LGAS-HE~, P-LGAS-NITG, P-LGAS-OXYG
Appendix A, Mechanical	ANNO layers moved to General. M-HCSW-DEVC-IDEN changed to M-HCSW-IDEN. M-HCSW-PUMP-IDEN removed in favor of M-HCSW-IDEN. M-HCSW-PUMP-FLOW and M-HCSW-PUMP-FTTG removed. M-HTCW-FLOW and M-HTCW-FTTG removed. M-HTCW-PITS renamed to M-HTCW-VALT. M-HTCW-METR added. M-REFG-DISC-PIPE renamed to M-REFG-DISC.
Appendix A, Electrical	ANNO layers moved to General. All airfield Beacon layers moved into an E-BCNS group of layers per the NCS. E-COMM-ANTN layer added to cover antenna. E-LITE-EXTR-IDEN removed in favor of E-LITE-IDEN. E-POWR-POLE-IDEN renamed to E-POWR-IDEN. E-POWR-METR added. Removed CATV from the descriptions of E-SPCL-SYST and E-SPCL-SYST-IDEN. Removed E-TVAN layers since these were removed from the NCS.
Appendix A-Telecommunications	ANNO layers moved to General.
Appendix B	Removed this appendix, since all ANNO levels are now available in the General discipline.
Appendix C	Removed this appendix, since moved to RGB values instead of vendor-specific color numbers.
Appendix D	Removed this appendix. A pdf containing this information is available in the Work Structure zip file, located on the CAD/BIM Center's website.