

Section 16.1

Plot Styles (CTBs)

OVERVIEW - SECTION 16.1

CTB's are customizable color tables used with AutoCAD. These tables allow specific lineweights to be applied to each color for desired plotting results (hard copy & electronic), including grayscale and color plotting.

Since the publication of the 2011 DW CAD Standards in August of 2011, the (.ctb) file was revised to cover a broader spectrum of lineweights. Historically, DW's title block colors have changed with each revision of the standard (.ctb) file used for plotting.

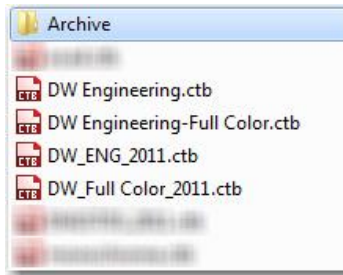
In the examples of this document, three different title block colors are described to help quickly identify which (.ctb) file to use when plotting.

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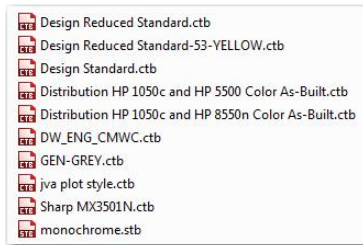
.CTB (AUTOCAD COLOR-DEPENDENT PLOT STYLE TABLE FILE)

Internally, the (.ctb) files used for plotting DW drawings are saved on the network (...DW CAD\DW Plot Styles-CTBs) Using the wrong (.ctb) could result in plots with unexpected lineweights, colors, plots and incorrect plan output. Following is a description of all commonly used (.ctb) files:

- **DW Engineering.ctb** – applied to all name page setups in DW's templates, used with all newly created drawings and/or drawings that have been migrated to the current CAD Standards. Typically indicated by a purple title block
- **DW Engineering-Full Color.ctb** – used when full color plots are desired, all linework plots in color and maintains pen settings defined in the *DW Engineering.ctb* file
- **DW Engineering-PMGT.ctb** – used for all Property Management related drawings
- **DW_ENG_2011.ctb** – used to plot drawings created between August 2011 and August 2013, typically indicated by a magenta title block
- **DW_Full Color_2011.ctb** – used to plot drawings created between August 2011 and August 2013 in full color, maintains pen settings defined in the *DW_ENG_2011.ctb*



All other (.ctb) files in the archive folder are used for plotting Legacy (Pre August 2011) or “outside” drawings; title block colors will vary.



Note: When selecting (.ctb) files for plotting, this list will contain contents of Archive folder- these are used on occasion for specialized plotting.

TITLE BLOCK EXAMPLES

The following examples are intended to give a visual representation of DW's Title Blocks and which (.ctb) to use for the best plotting results.

ORANGE TITLE BLOCKS

Drawings with an orange Title Block indicate the files were created pre August 2011 and typically use the Design Standard.ctb for plotting full sized plans and the Design Reduced Standard.ctb for half sized (11 x 17) plans.



MAGENTA TITLE BLOCKS

Drawings with a magenta Title Block indicate the files were created using the 2011 DW CAD Standards. The DW_ENG_2011.ctb file should be used plotting for both full sized & half sized sets, with the appropriate Page Setups. [see [Section 16.2 - Named Page Setups](#)].

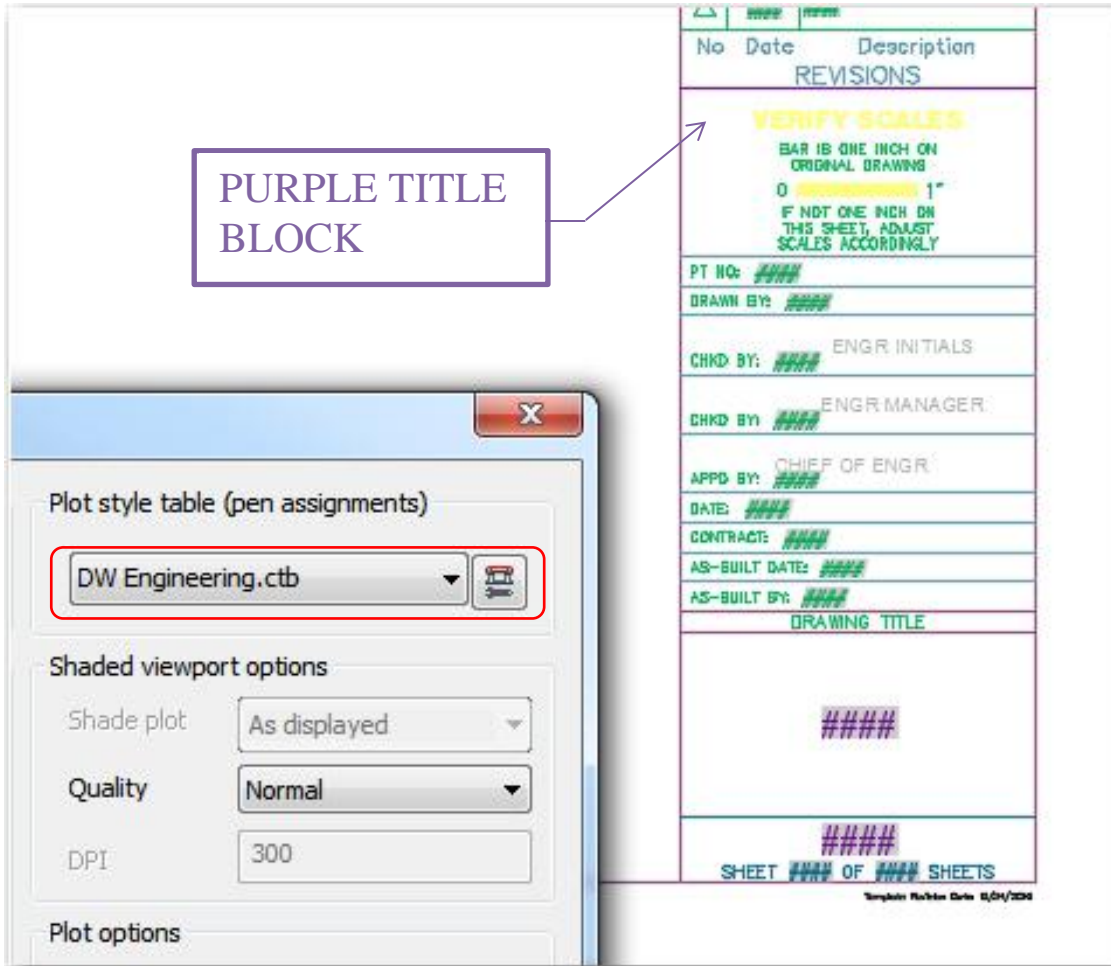
The image shows a drawing sheet with a magenta title block. The title block contains the following information:

No	Date	Description
REVISIONS		
VERIFY SCALES		
BAR IS ONE INCH ON ORIGINAL DRAWING		
0		1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		
PT NO:	12345	
DRAWN BY:		
CHKD BY:		
CHKD BY:		
APPD BY:		
DATE:		
CONTRACT:		
AS-BUILT DATE:		
AS-BUILT BY:		
DRAWING TITLE		
WATER NOTES		
C-2		
SHEET 1 OF 6 SHEETS		

A magenta box labeled "MAGENTA TITLE BLOCK" points to the title block area. A plot style table dialog box is open in the bottom left corner, showing the "DW_ENG_2011.ctb" file selected in the "Plot style table (pen assignments)" section. The dialog box also shows "Shaded viewport options" with "Shade plot" set to "As displayed", "Quality" set to "Normal", and "DPI" set to "300".



















PURPLE TITLE BLOCKS

Drawings with a purple Title Block indicate the files were created post-August 2013 and use the current DW CAD Standards. The DW Engineering.ctb should be used for plotting both full sized and half sized sets, with the appropriate Page Setups. [see [Section 16.2 - Named Page Setups](#)].



PEN LINE WEIGHTS

Use this table in correspondence with the [Layer Color Chart](#), next page. The table represents how each pen assignment in the CTB file plots:

PLOTTED LINE WEIGHTS			
Pen Assignment	Line Width (in)	Plotted Line Width	50% Screened Line
Color 1	0.0050		
Color 2	0.0110		
Color 3	0.0177		
Color 4	0.0236		
Color 5	0.0290		
Color 6	0.0354		
Color 7	0.0417		
Color 8	0.0472		
Color 9	0.0530		

LAYER COLOR CHART

All colors are assigned a Pen number based the ending number of the color. Colors ending in 0 plot in true color and are assigned a Pen 4 width. If the color is in a "screened" row, it will plot gray with the corresponding Pen width. The following chart mimics the provided **DW Engineering.ctb** (see [Support Files - Page 20.0-22](#)). The table represents how each color in the CTB file plots:

	Pen 1	Pen 2	Pen 3	Pen 4	Pen 5	Pen 6	Pen 7	Pen 8	Pen 9	COLOR PENS
LnWt. (in)	0.005	0.0110	0.0177	0.0236	0.0290	0.0354	0.0417	0.0472	0.0530	0.014
	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
SCREENED	41	42	43	44	45	46	47	48	49	50
	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70
SCREENED	71	72	73	74	75	76	77	78	79	80
	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100
	101	102	103	104	105	106	107	108	109	110
	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130
	131	132	133	134	135	136	137	138	139	140
	141	142	143	144	145	146	147	148	149	150
SCREENED	151	152	153	154	155	156	157	158	159	160
	161	162	163	164	165	166	167	168	169	170
	171	172	173	174	175	176	177	178	179	180
SCREENED	181	182	183	184	185	186	187	188	189	190
	191	192	193	194	195	196	197	198	199	200
	201	202	203	204	205	206	207	208	209	210
	211	212	213	214	215	216	217	218	219	220
	221	222	223	224	225	226	227	228	229	230
SCREENED	231	232	233	234	235	236	237	238	239	240
	241	242	243	244	245	246	247	248	249	250
SCREENED	251	252	253	254	255					