17_25 Weight Difference Between Full Size and Half Size Plots

Question:

Can the plotting weights be increased by two points on at least the following items: centerline and labeling, edge of pavement and paved shoulders, guardrail and anchors, and all curbing types (including expressway gutter). Their weights are too light relative to the hydraulic design and existing topography and utilities.

Answer:

In this particular situation, the Designer has already named the referenced files with the applicable Logical Name. The reference files are plotted to a weight of zero. The problem, in this situation, is mainly the difference in weight between full size and half size plots. For example, the proposed EOT lines has a weight of 3. When plotted through the full size plotters, OCE34 and OCE36, the same proposed EOT lines appear "lighter" compared to the identical proposed EOT lines on half size sheets. It is just a matter of the two devices plotting different weights even though it is the same weight on CADD. Rather than creating two design scripts, one for full size and one for half size, we have modify the roadway design script to automatically remedy the problem. The method chosen has two parts.

1. Only RD-OCE34 and RD-OCE36 queues are affected.
2. Weight_Delta is different for the two selected queues mentioned #1.

Briefly, when either the RD-OCE34 or RD-OCE36 queue has been selected for full size plots, the weight will be on the difference increment (Weight_Delta), in proportion to half size plots. Below is a simple table explaining the usage and difference of the iPlot design script **Weight_Base** and **Weight_Delta** concepts.

WEIGHT	WEIGHT_BASE = 0.0045" WEIGHT_DELTA = 0.003 (CURRENLY FOR ALL QUEUES)	WEIGHT_BASE=0.0045" WEIGHT_DELTA=0.0045 (RD-OCE34 and RD-OCE36 ONLY)
0	0.0045" (width of each line weight)	0.0045" (width of each line weight)
1	0.0075"	0.0090"
2	0.0105"	0.0135"
3	0.0135"	0.0180"
4	0.0165"	0.0225"
5	0.0195"	0.0270"
...	...	...

It is desired that this design script modification is conservative in nature and will not drastically effect existing full size plots. Please be aware of this subtle change this design script modification makes. Also, to reiterate, this does not effect half size plotting.