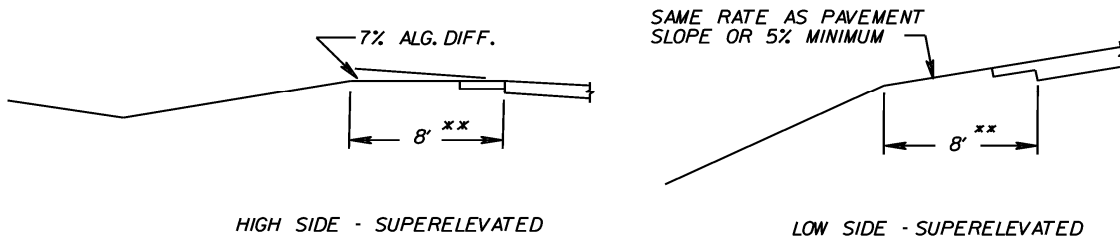


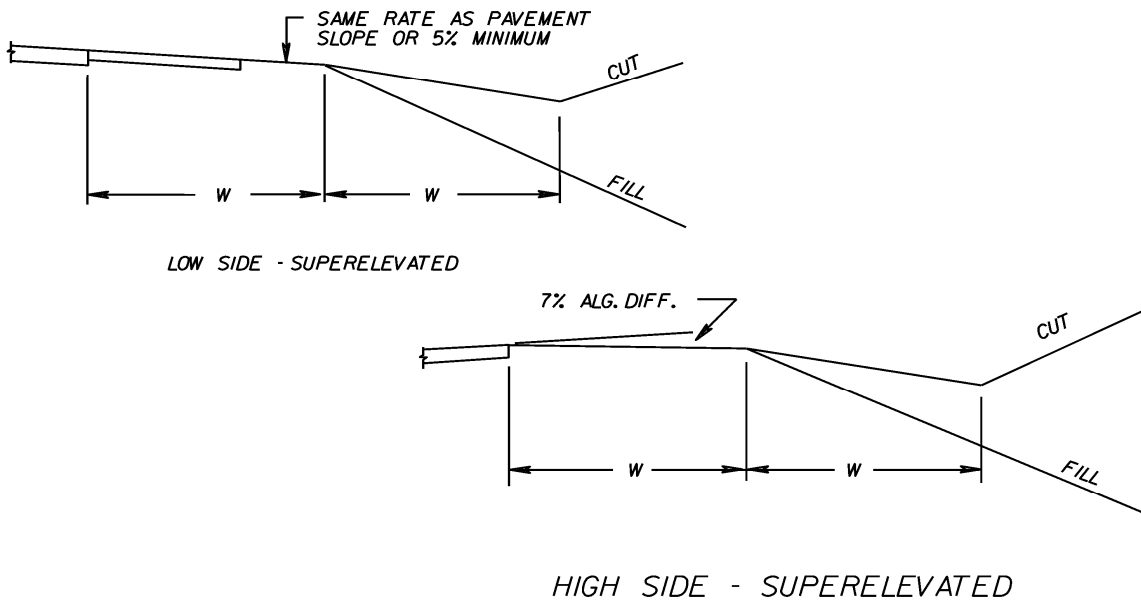
GEOMETRIC DESIGN STANDARDS FOR SHOULDER DESIGN (GS-11)

GRADED MEDIAN SHOULDERS



** WHERE MAINLINE IS 6 OR MORE LANES GRADED SHOULDER WIDTH IS TO BE THE SAME AS THAT SHOWN FOR FILL SHOULDER FOR INDEPENDENT GRADING.

OUTSIDE SHOULDERS



NOTE: FOR WIDTH OF SHOULDERS AND DITCHES (W) SEE GEOMETRIC DESIGN STANDARDS.

STANDARD SHOULDER DESIGN FOR ALL SYSTEMS EXCEPT LOCAL ROADS AND STREETS

FIGURE A - 1 - 12*

* Added 1/12