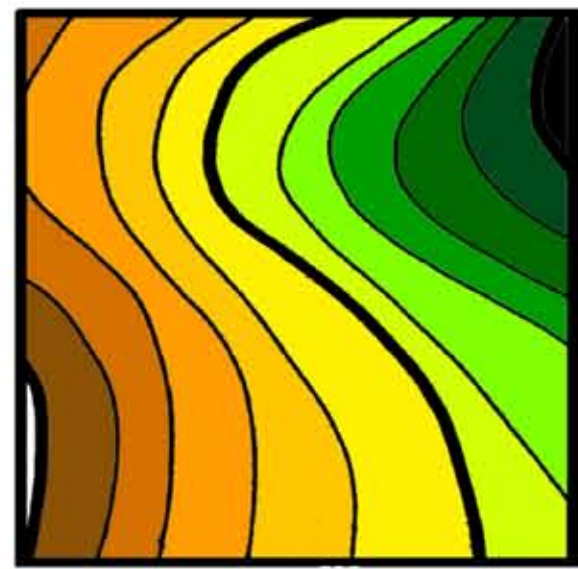


GRADING

CONCEPTS,
TERMINOLOGY
& SLOPE EXPRESSION

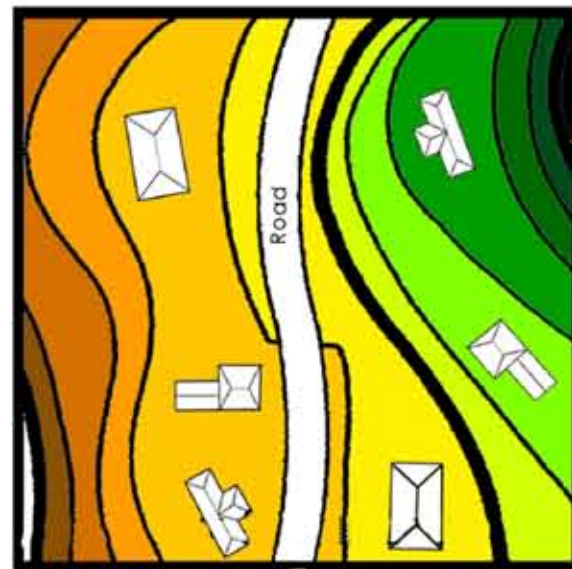
Plan Views



Natural Contours



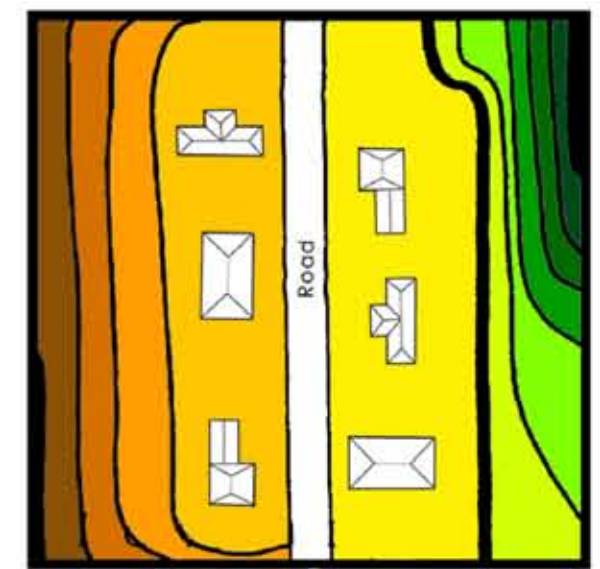
Custom Pad Grading



Contour & Landform Grading

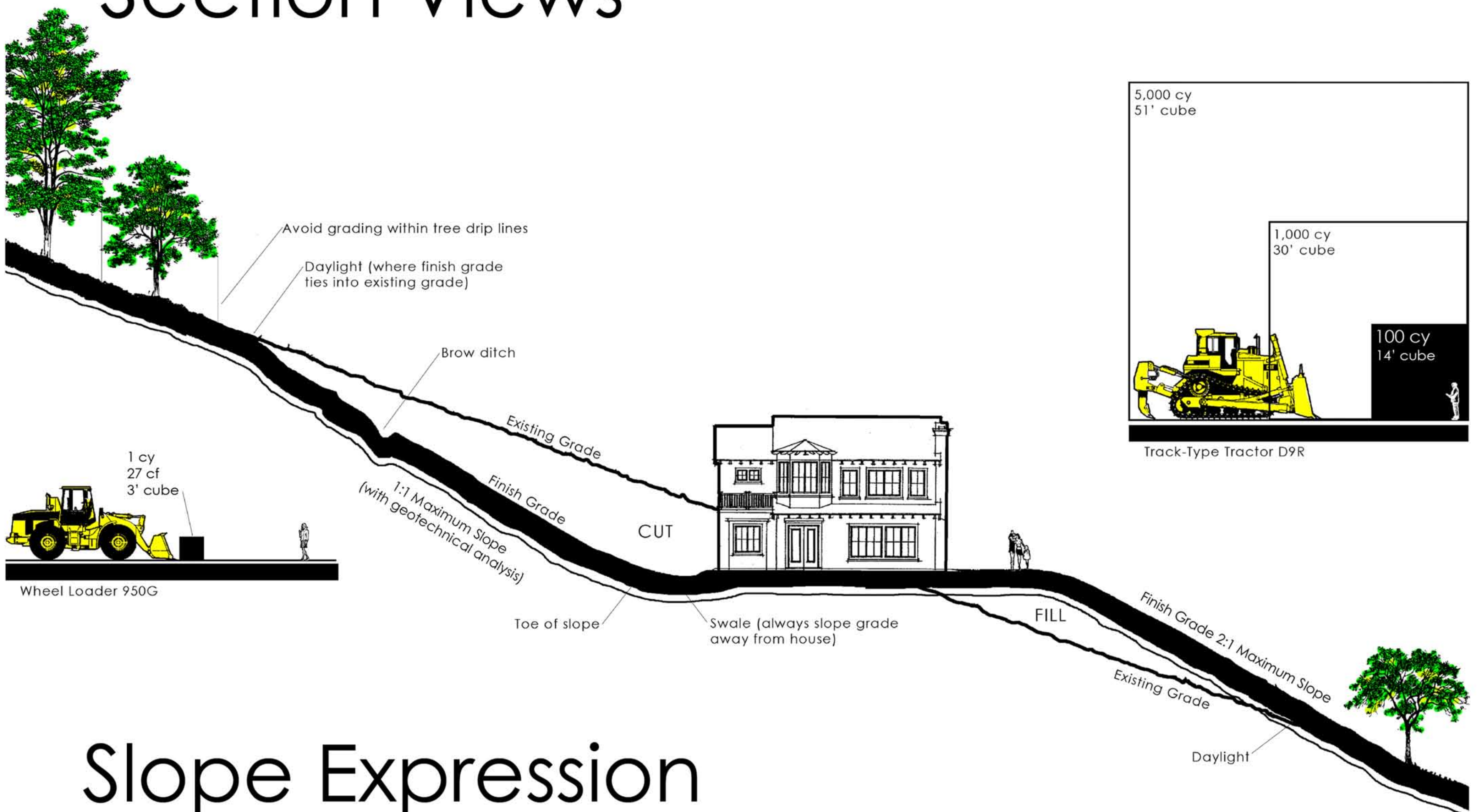


Traditional Pad & Terrace Grading

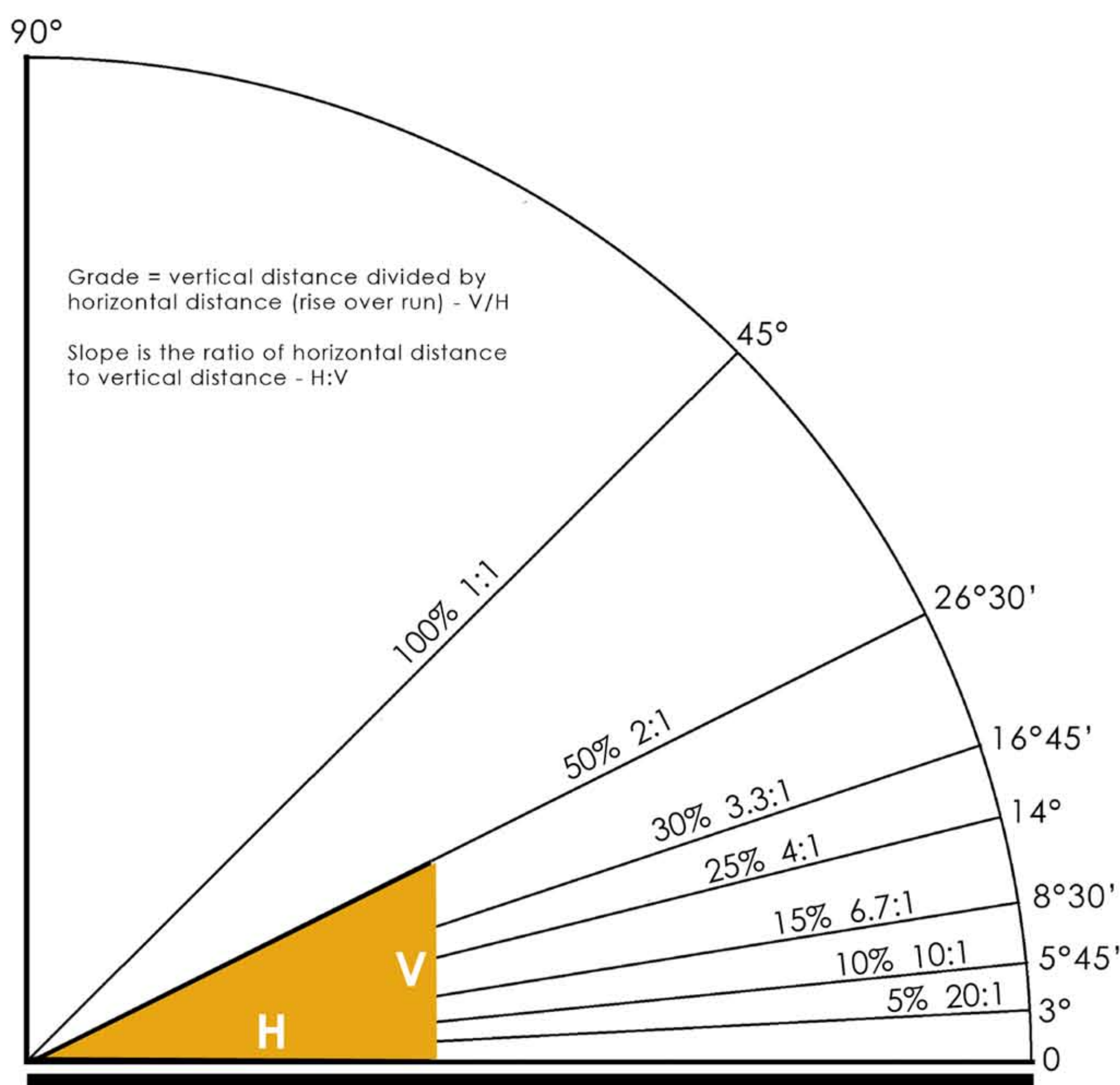


Mass & Superpad Grading

Section Views



Slope Expression



Slope Grade Angle

1:1	100%	45°
1.5:1	66%	34°
2:1	50%	26°30'
2.5:1	40%	21°45'
3:1	33%	18°30'
3.3:1	30%	16°45'
4:1	25%	14°
5:1	20%	11°
6.7:1	15%	8°30'
10:1	10%	5°45'
20:1	5%	3°

DESIRABLE MAXIMUM GRADES
Cut slope 1:1 - 100% (with geotechnical analysis)
Fill slope and planted banks 2:1 - 50%
Construction and grassed banks 3:1 - 30%
Ramps 15%
Swales 10%
Wheelchair ramps 12:1 - 8.33%
Streets, service drives, parking areas 8%
Grassed playgrounds and main approach walks 4%

