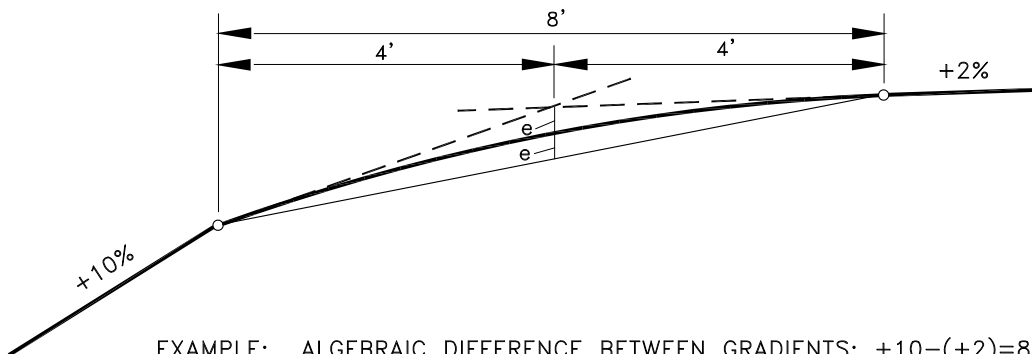
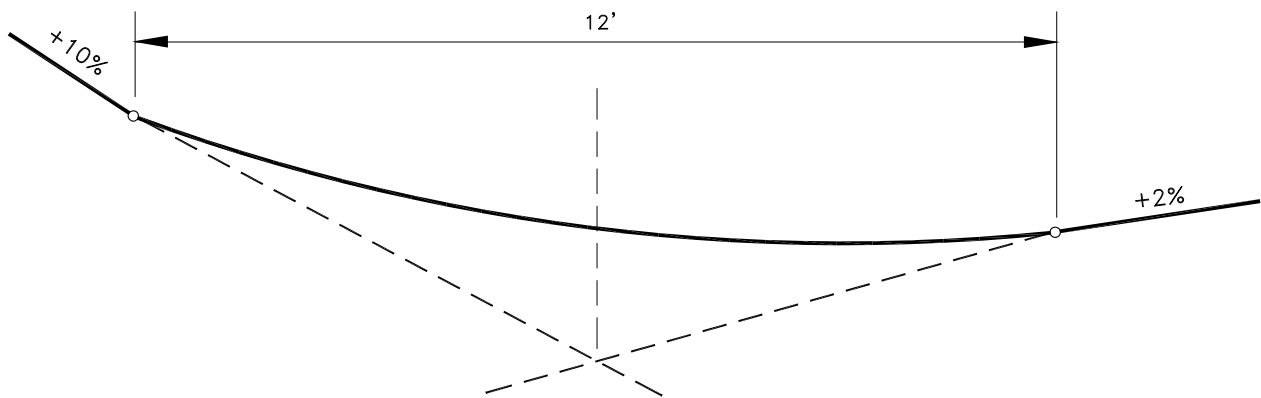


EXAMPLE: ALGEBRAIC DIFFERENCE BETWEEN GRADIENTS: $+5 - (-6) = 11$
 LENGTH OF VERTICAL CURVE = 11'.



EXAMPLE: ALGEBRAIC DIFFERENCE BETWEEN GRADIENTS: $+10 - (+2) = 8$
 LENGTH OF VERTICAL CURVE = 8'.



EXAMPLE: ALGEBRAIC DIFFERENCE BETWEEN GRADIENTS: $-10 - (+2) = 12$
 LENGTH OF VERTICAL CURVE = 12'.

NOTES:

1. TO PREVENT CONTACT BETWEEN ROAD SURFACE AND VEHICLE BUMPERS OR UNDER-CARRIAGE, CREST OR SAG VERTICAL CURVE MUST BE USED BETWEEN TANGENTS WHERE THE ALGEBRAIC DIFFERENCE BETWEEN GRADIENTS IS GREATER THAN 9 PERCENT. THE MINIMUM LENGTH OF THE CURVE MUST BE 1 FOOT FOR EACH PERCENTAGE POINT OF DIFFERENCE BETWEEN GRADIENTS, AS SHOWN ABOVE.



City of Lake Oswego
 Engineering Division

Erica Rooney, P.E. City Engineer

VERTICAL CURVES FOR PRIVATE
 DRIVEWAYS (EXAMPLES)

S4-02

EFFECTIVE DATE: JANUARY 1, 2018

NOT TO SCALE

DRAWING NUMBER