PARABOLIC CROWN FORMULAS LAYOUT

EXAMPLE ELEVATIONS

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EXAMPLE: AT A GIVEN CROSS-SECTION, ROADWAY WIDTH BETWEEN CURBS IS 40 FT.
GUTTER WIDTHS ARE 18 IN. AND THE LIP OF THE LEFT GUTTER IS 1.03 FT. HIGHER.
WITH STRAIGHT-EDGE (SEE DASHED LINE) AT 37 FT. ON LEFT SCALE AND 1.03 FT. ON
RIGHT SCALE REND AS FOLLOWS:
THE FINISHED ROADWAY SURFACE IS HIGHER THAN THE LIP OF THE RIGHT (LOWER)
GUTTER BY 0.14 FT. AT 3.7 FT., 0.11 FT. WIDTH FROM LIP OF RIGHT GUTTER.
0.18 FT. AT 9.4 FT., 0.34 FT. AT 9.25 FT. (QUARTER POINT), 0.40 AT 11.1 FT., 0.52 FT.
AT 14.8 FT., 0.63 FT. AT 18.5 FT. (A) 0.72 FT. AT 22.2 FT., 0.82 FT. AT 25.9 FT.
0.92 FT. AT 27.75 FT., THREE QUARTERS POINT, 0.50 FT. AT 29.6 FT., 0.97 FT. AT
33.3 FT., AND 1.03 FT. AT 37 FT. LIP OF LEFT GUTTER. DISTANCES OUT FROM LOWER
GUTTER MAY BE ROUNDED TO THE NEAREST FOOT WITHOUT APPRECIABLE ERROR.

NOTES
1. GENERAL INFORMATION: THE GRADE (g) TANGENT FROM THE LOWER LIP OF GUTTER (VPC)
   IS CALCULATED (NOTE: THE GRADES MEET AT CENTERLINE).
2. OTHER METHODS: THE EXAMPLES SHOWN TO INSTALL A PARABOLIC CROWN (BY USING THE
   NOMOGRAPH OR CALCULATED USING THE FORMULAS) ARE THE IDAHO TRANSPORTATION'S
   TRADITIONAL INSTALLATION METHODS. OTHER METHODS ARE PERMITTED PROVIDED A SOUND
   ENGINEERING PRACTICE IS EMPLOYED. ORDINARY CROWN OR SHED SECTIONS BETWEEN LIPS
   OF GUTTERS ARE NOT RECOMMENDED AND SHOULD ONLY BE USED WITH AN ENGINEER'S
   APPROVAL.
INSTRUCTIONS:
1. PLACE A STRAIGHT-EDGE ON THE LEFT-HAND SCALE "ROADWAY WIDTH BETWEEN LIPS OF GUTTERS".
2. PLACE THE OPPOSITE END OF THE STRAIGHT-EDGE ON THE RIGHT-HAND SCALE "DIFFERENCE IN ELEVATION BETWEEN LIPS OF GUTTERS".