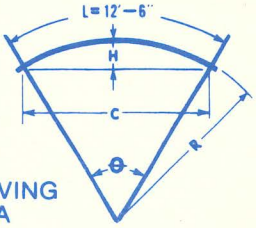
HIGHWAY SAFETY CORP.

239 COMMERCE STREET, GLASTONBURY, CT 06033

Your protection is our business. We help protect life, equipment and property with the application of our guard rail barrier — your "safety belt" on the modern highway. This "profile of protection" is designed to help eliminate injury, death and property damage due to natural hazards along our highways. Use this handy information card to help determine your guard rail needs.





CURVING DATA

Since radius beam guard rail has become so prominent, we have developed an easy-to-use chart we regard as a key help to installation crews. Data for locating posts on curves can be found in the chart on the reverse side of this card.

Rail sections, for curves, having a radius of 10 to 150 feet can be shop-curved convex, or concave, as required.

FUNCTIONS OF 12'-6" CIRCULAR ARC

Radius (R)	Central Angle (O)	Chord (C)	Rise (H)
10	71°-37'	11'-9"	1'-10¾"
15	47°-45'	12'-1¾"	1'- 3½"
20	35°-49'	12'-3⅜"	11⅝"
25	28°-39'	12'-4½"	9½"
30	23°-52'	12'-4⅞"	7¾"
35	20°-28'	12'-5"	6¾"
40	17°-54'	12'-5¼"	6"
45	15°-55'	12'-5½"	5¼"
50	14°-19'	12'-5⅝"	4⅝"
55	13°-01'	12'-5⅝"	4¼"
60	11°-56'	12'-5¾"	4"
65	11°-01'	12'-5¾"	3⅝"
70	10°-14'	12'-5¾"	3⅜"
75	9°-33'	12'-5¾"	3¼"
80	8°-57'	12'-5¾"	3"
85	8°-26'	12'-5⅞"	2¾"
90	7°-57'	12'-5⅞"	2⅝"
95	7°-32'	12'-5⅞"	2½"
100	7°-10'	12'-5⅞"	2⅜"
110	6°-31'	12'-5⅞"	2⅛"
120	5°-58'	12'-6"	2"
130	5°-31'	12'-6"	1¾"
140	5°-07'	12'-6"	1⅝"
150	4°-46'	12'-6"	1½"