APPENDIX 3.5.5.1: Inlet and Outlet Control Nomographs
(from: Handbook of Steel Drainage and Highway Construction, Canadian Edition, Corrugated Steel Pipe Institute, 2009.)

Some programs may contain features such as backwater calculations, performance curves, hydrologic routines, and capabilities for routing based on upstream storage considerations.

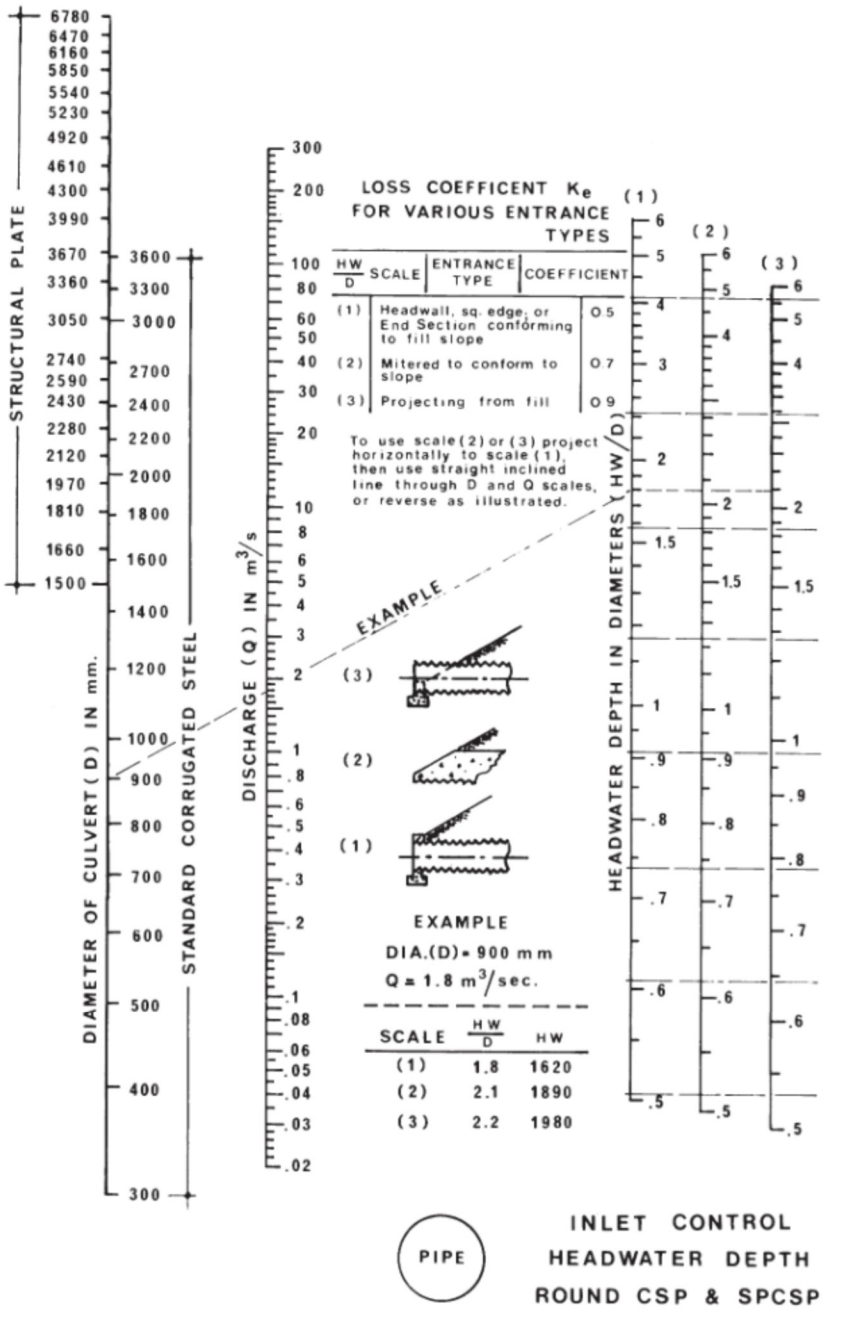

Figure 4.10 Headwater depth for round corrugated steel pipe and structural plate corrugated steel pipe under inlet control.

$\frac{b}{D}$	$\frac{a}{D}$	$\frac{c}{D}$	$\frac{d}{D}$	ENTRANCE TYPE
0.042	0.063	0.042	0.083	A
0.083	0.125	0.042	0.125	B

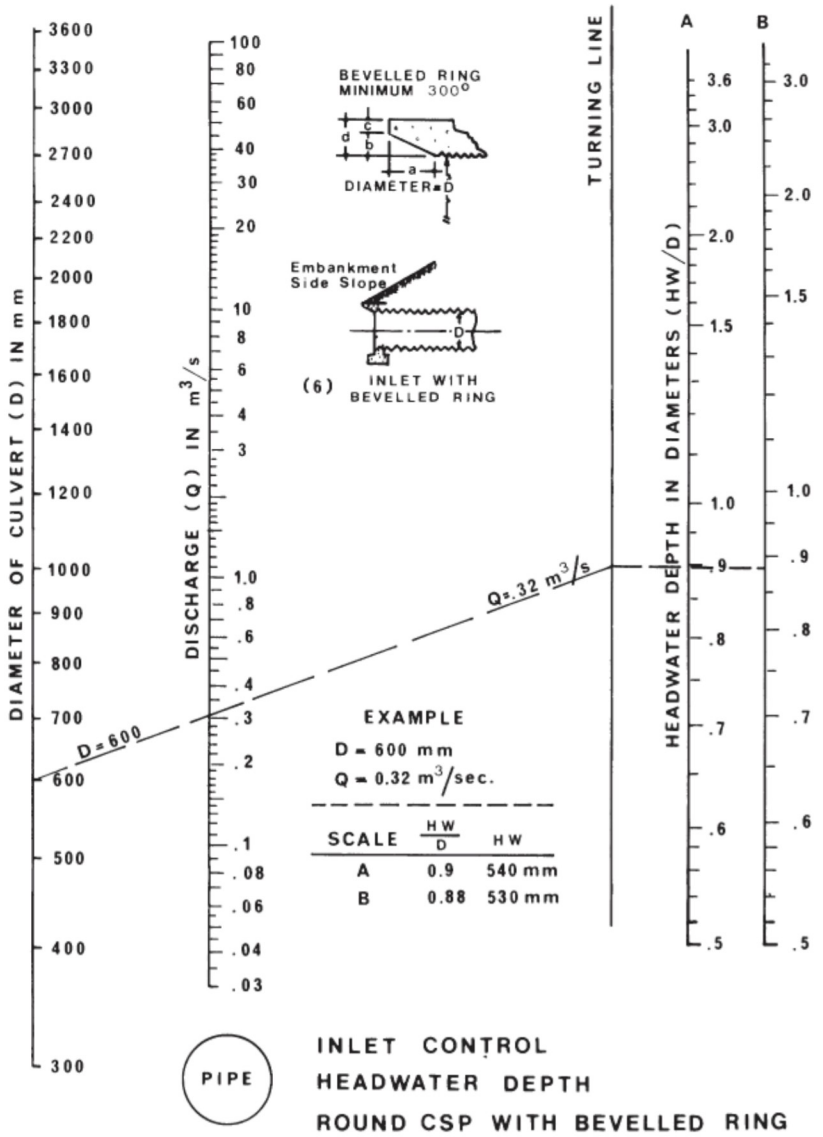

Figure 4.11 Headwater depth for round corrugated steel pipe with bevelled ring headwall under inlet control.

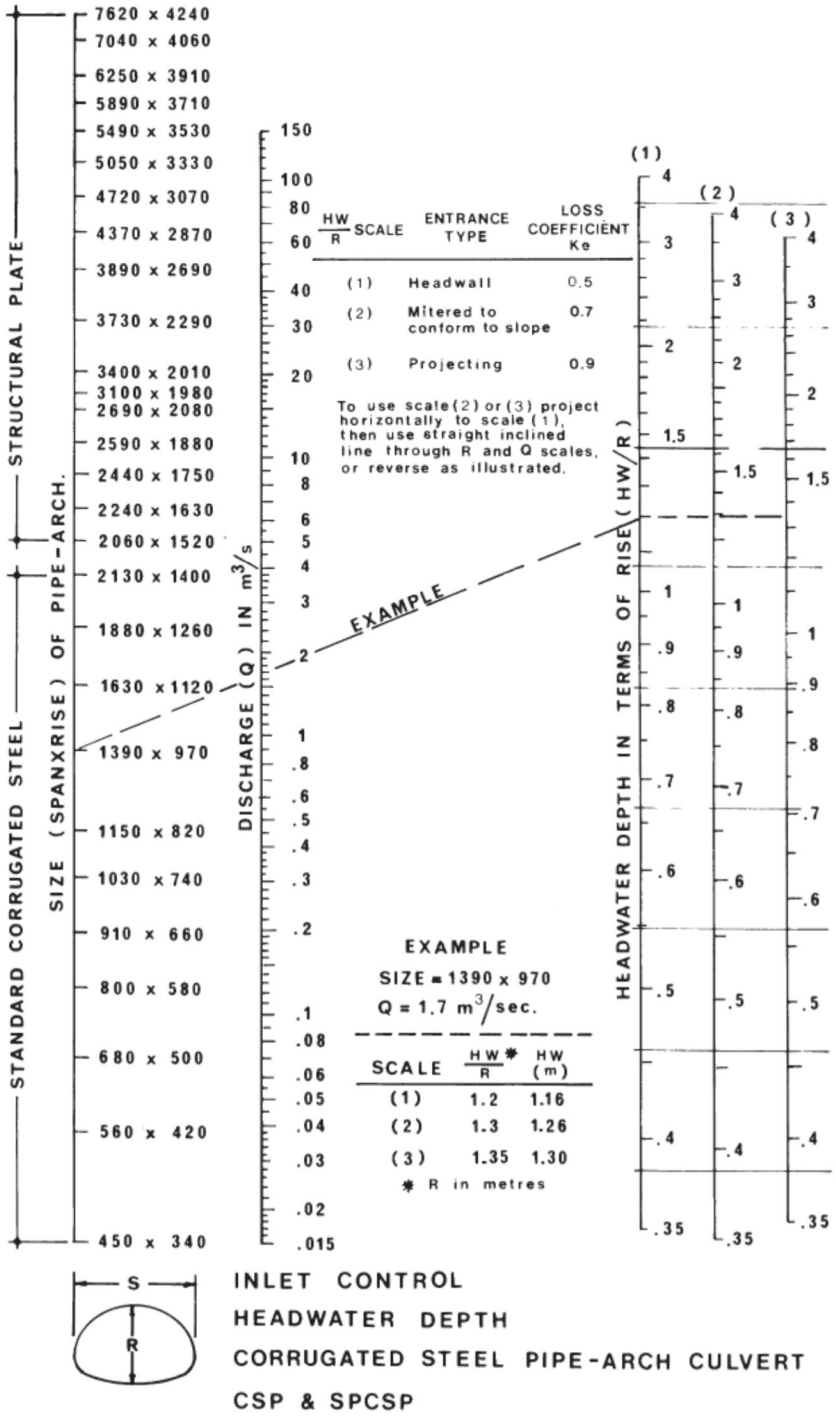

Figure 4.12 Headwater depth for corrugated steel and structural plate corrugated steel pipe-arch under inlet control.

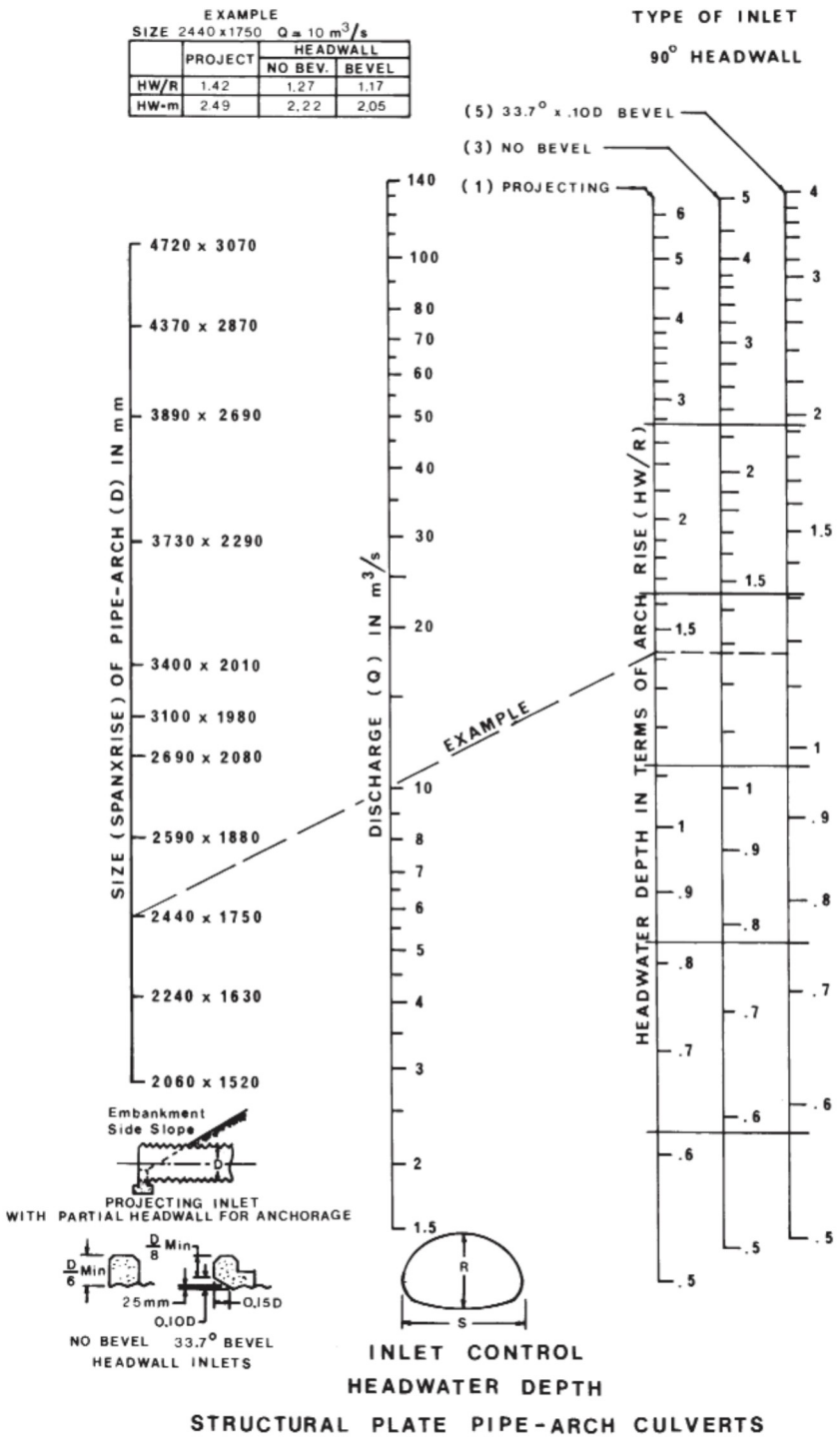

Figure 4.13 Headwater depth for structural plate corrugated steel pipe-arch under inlet control (size range: up to 4720 mm x 3070 mm).

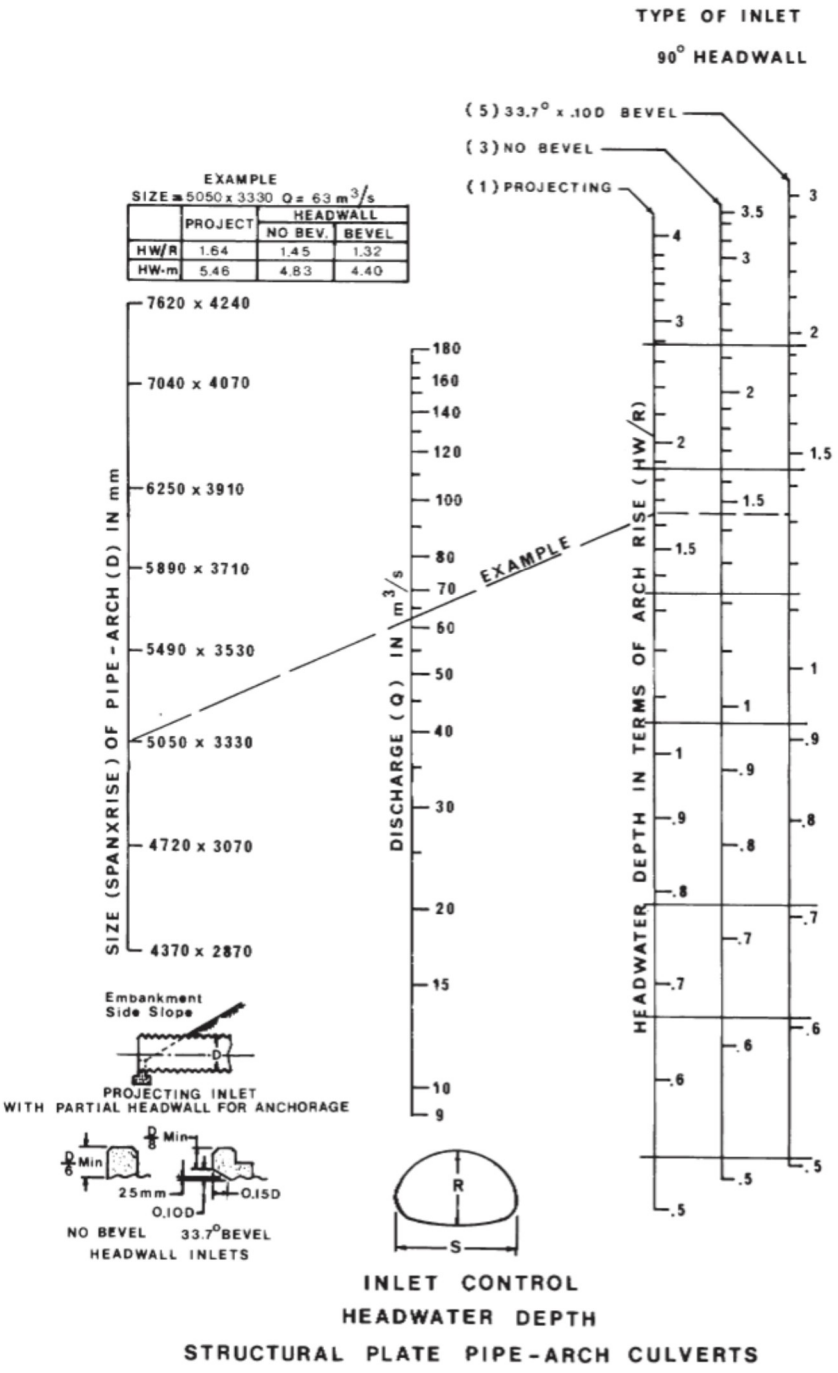

Figure 4.14 Headwater depth for structural plate corrugated steel pipe-arch under inlet control (size range: 4370 mm x 2870 mm and over).

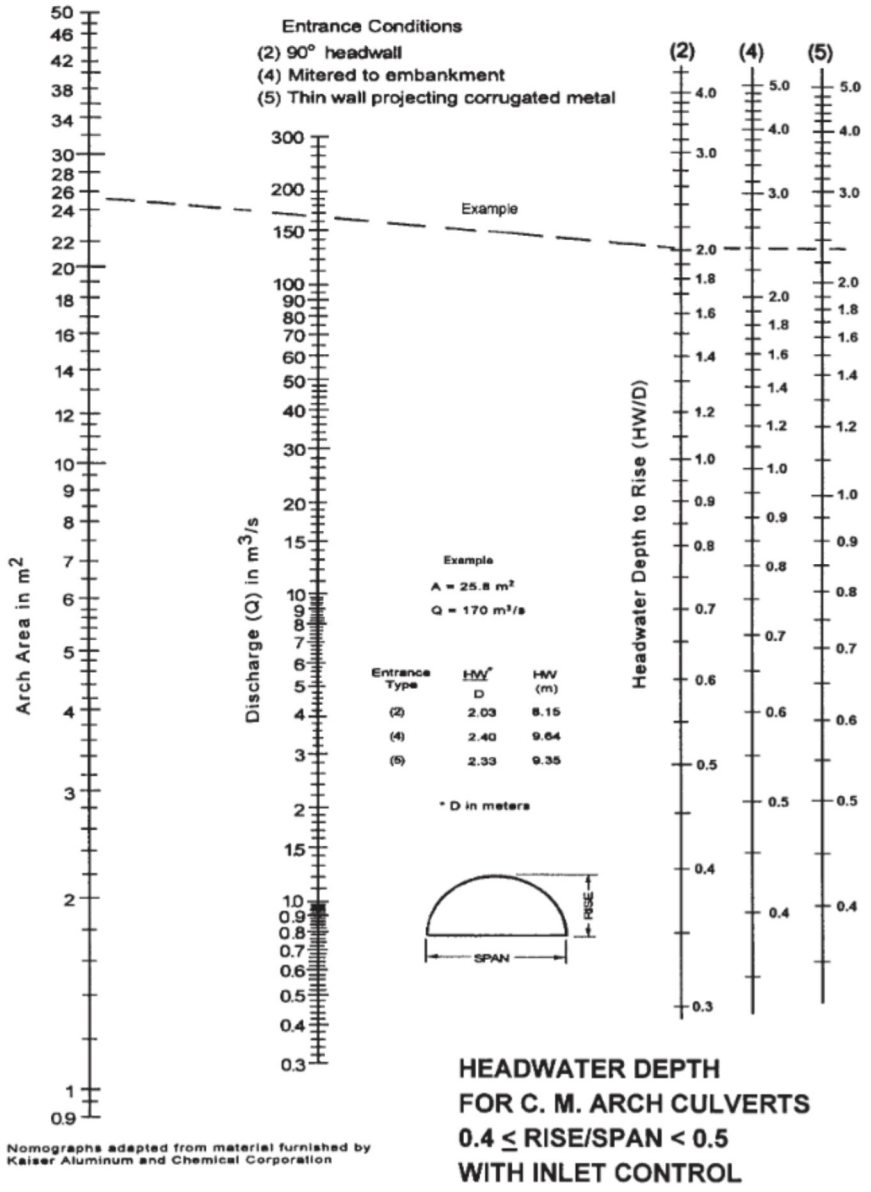

Figure 4.15 Headwater depth for structural plate corrugated steel arch with 0.4 ≤ rise/span < 0.5, under inlet control.

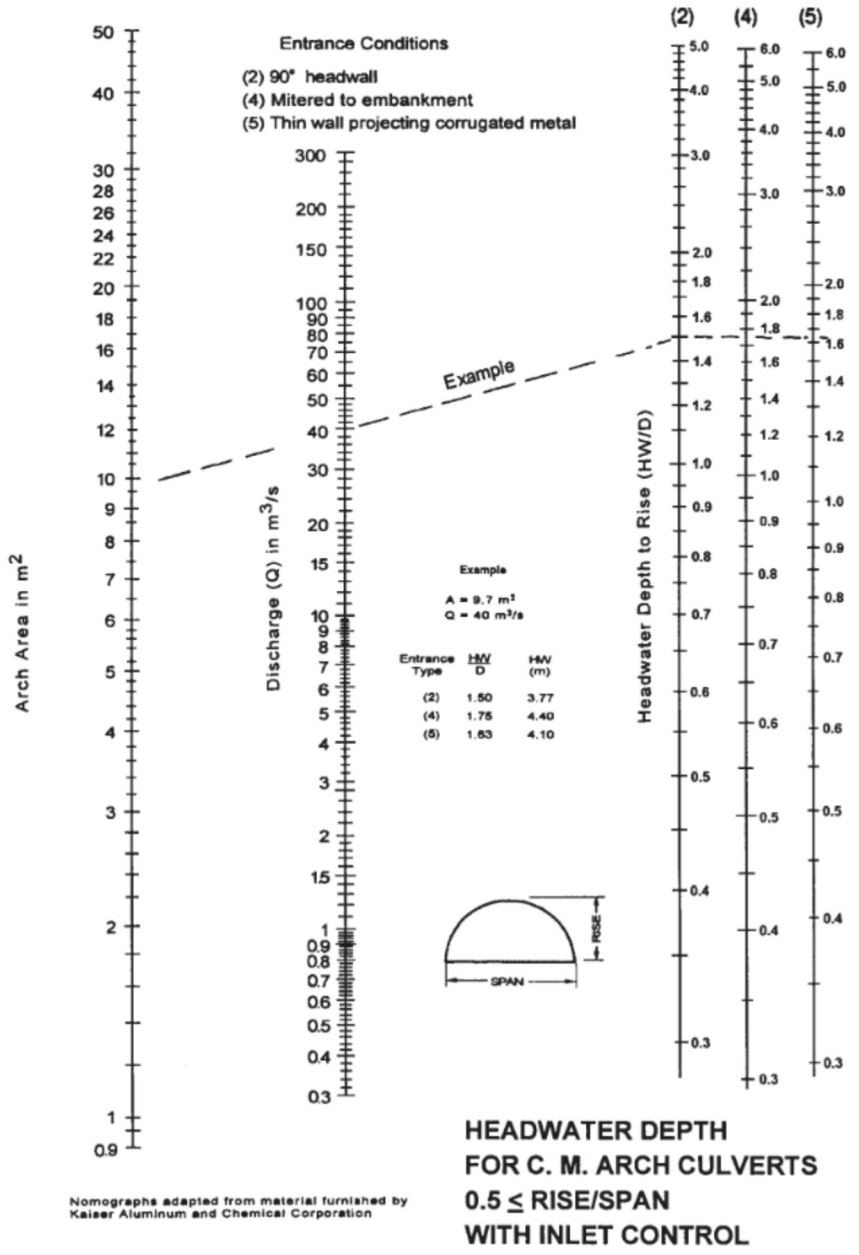

Figure 4.16 Headwater depth for structural plate corrugated steel arch with 0.5 ≤ rise/span, under inlet control.

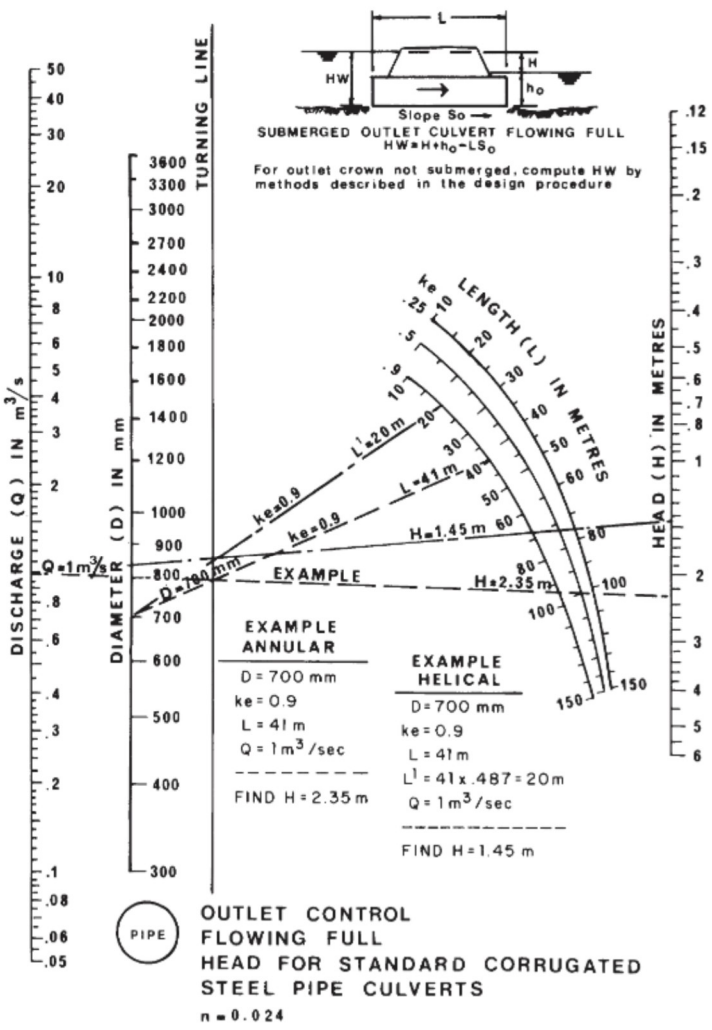

Figure 4.17 Head for round corrugated steel pipe flowing full under outlet control.

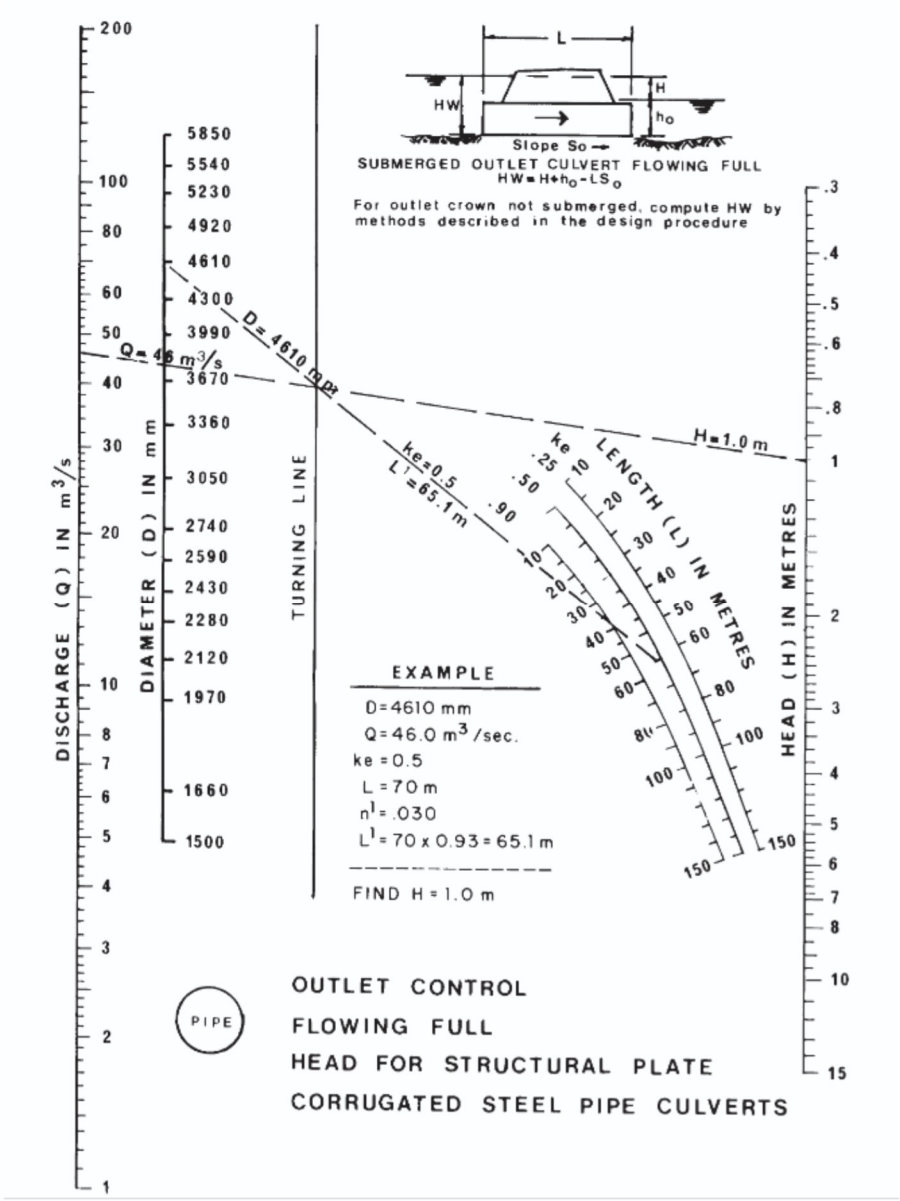

Figure 4.18 Head for round structural plate corrugated steel pipe flowing full under outlet control.

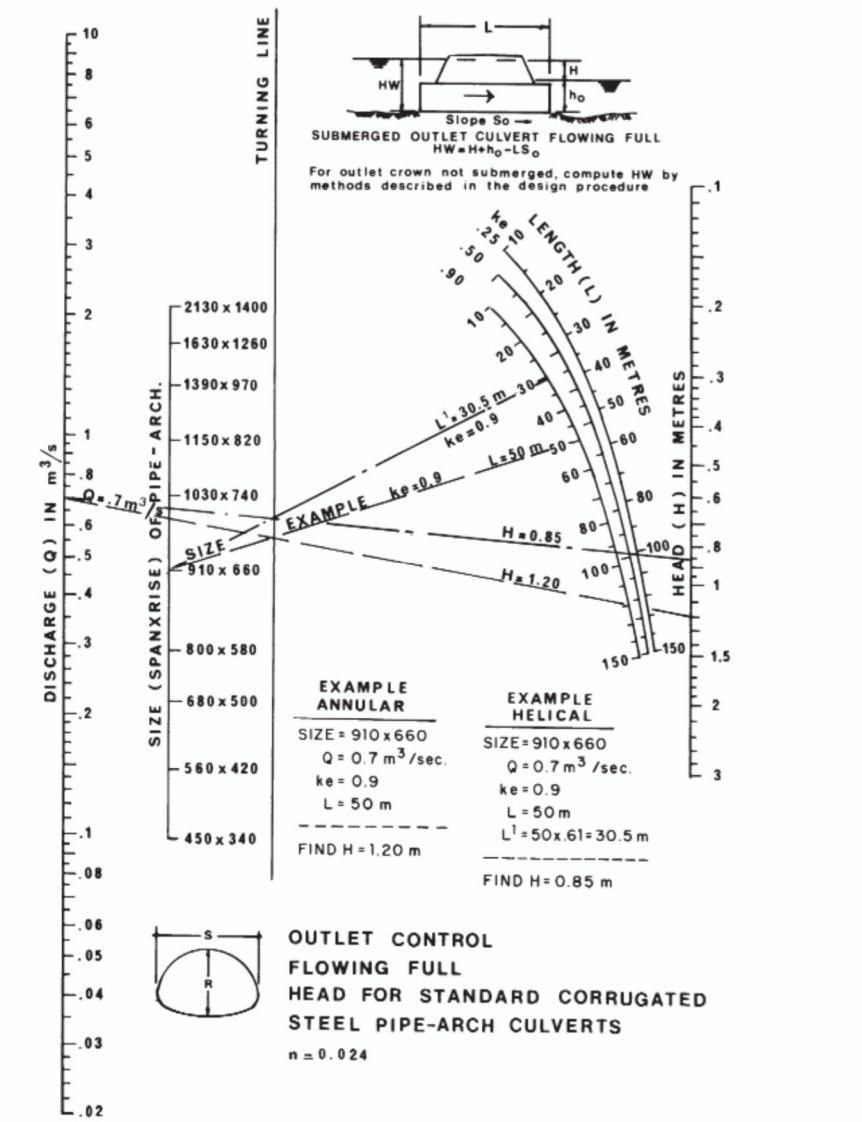

Figure 4.19 Head for corrugated steel pipe-arch flowing full under outlet control.

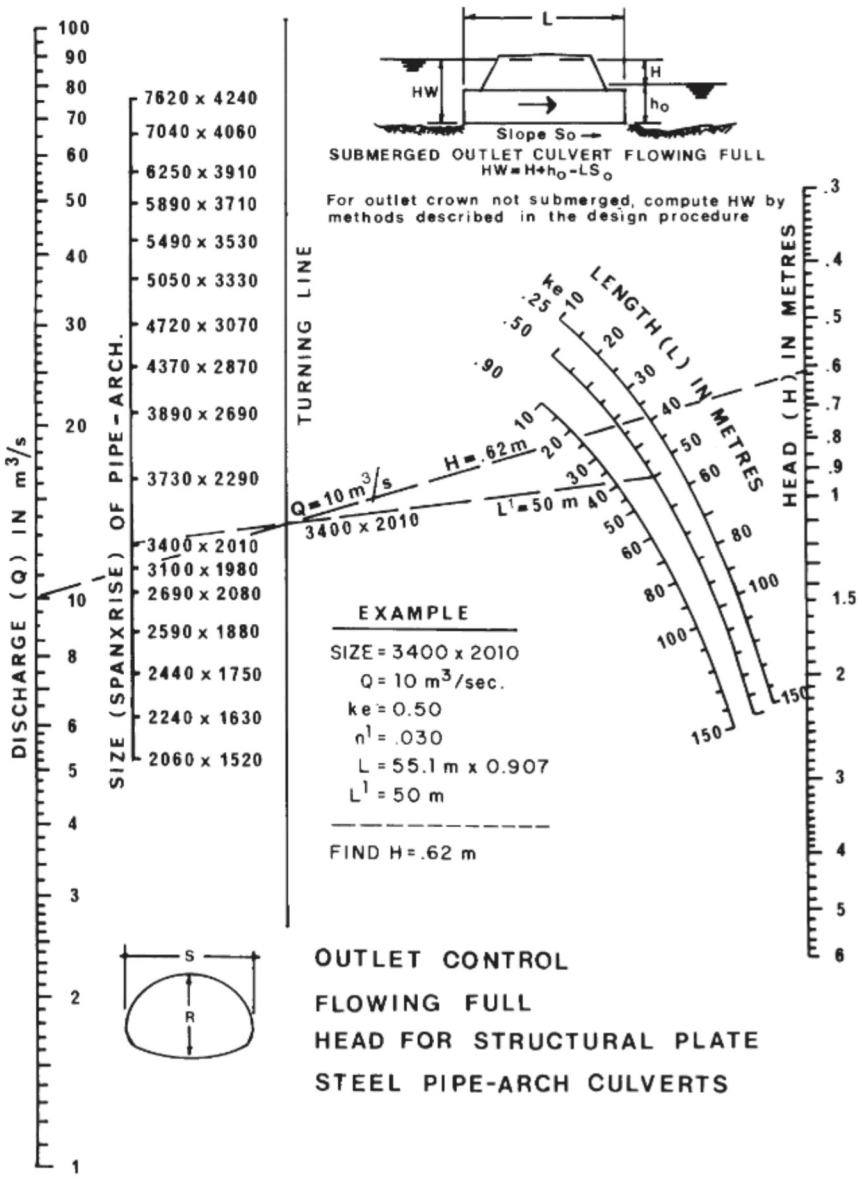

Figure 4.20 Head for structural plate corrugated steel pipe-arch flowing full under outlet control.

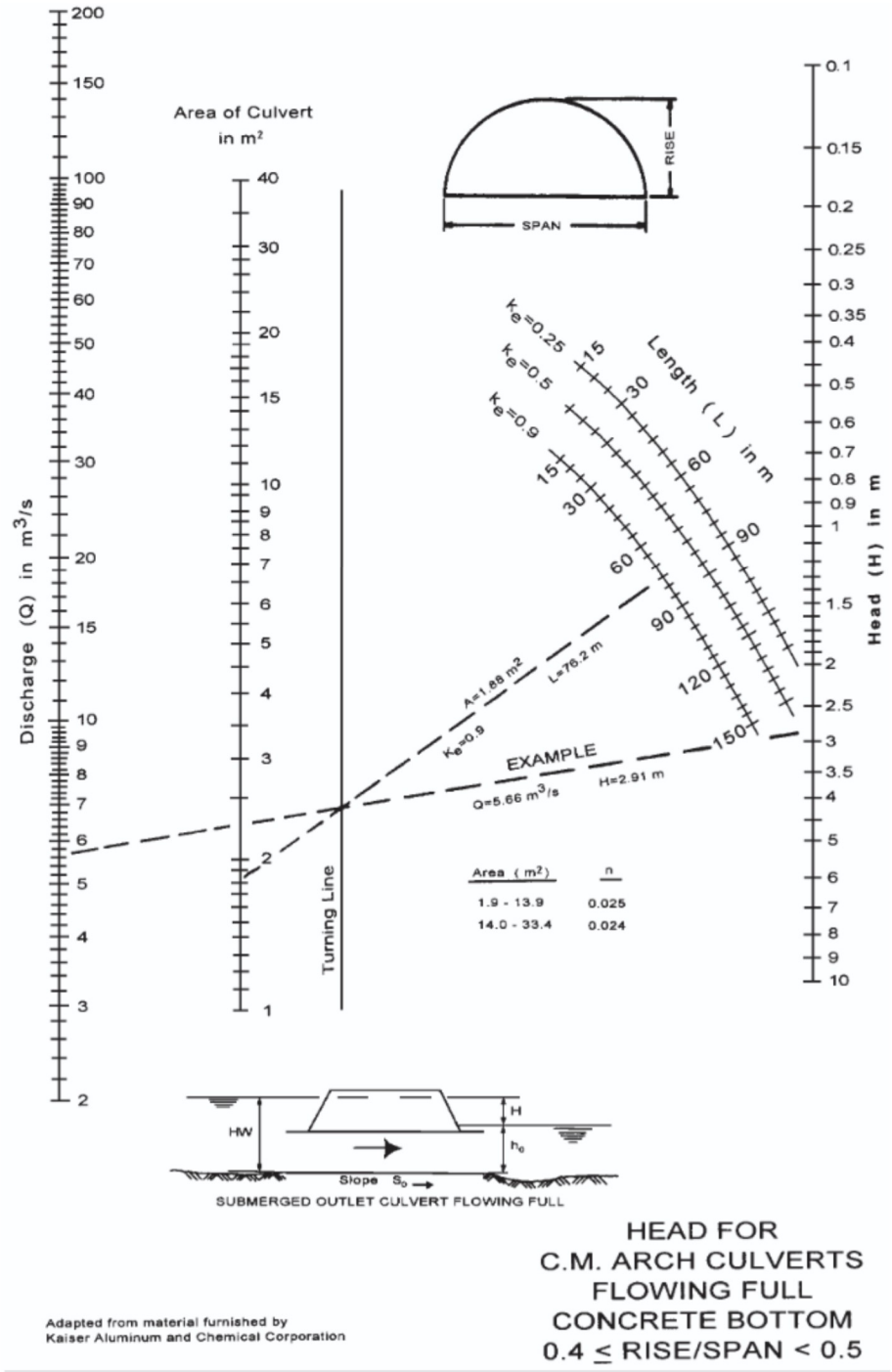

Figure 4.21 Head for structural plate corrugated steel arch with concrete bottom and 0.4 ≤ rise/span < 0.5, flowing full under outlet control.

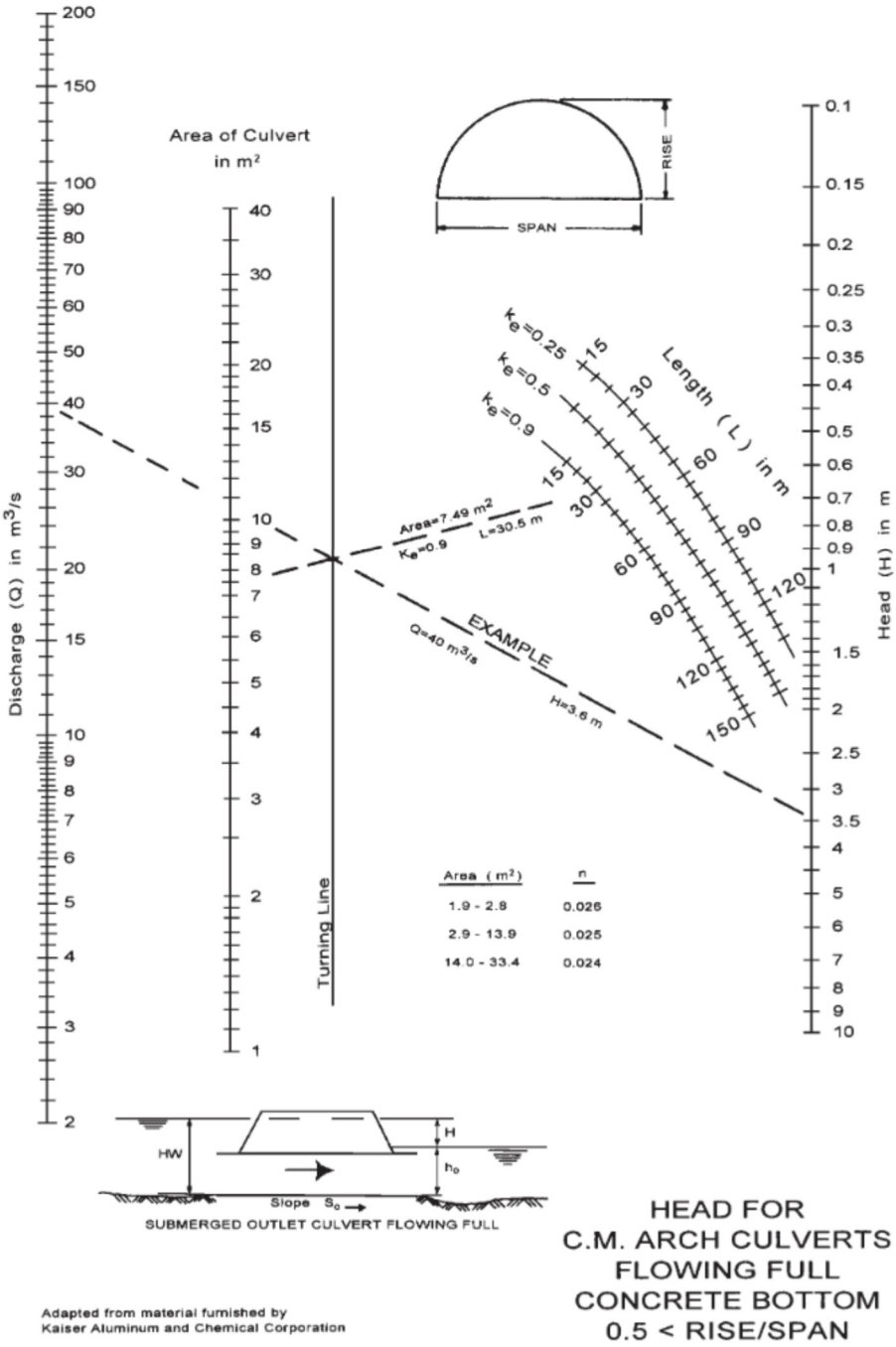

Figure 4.22 Head for structural plate corrugated steel arch with concrete bottom and 0.5 ≤ rise/span, flowing full under outlet control.

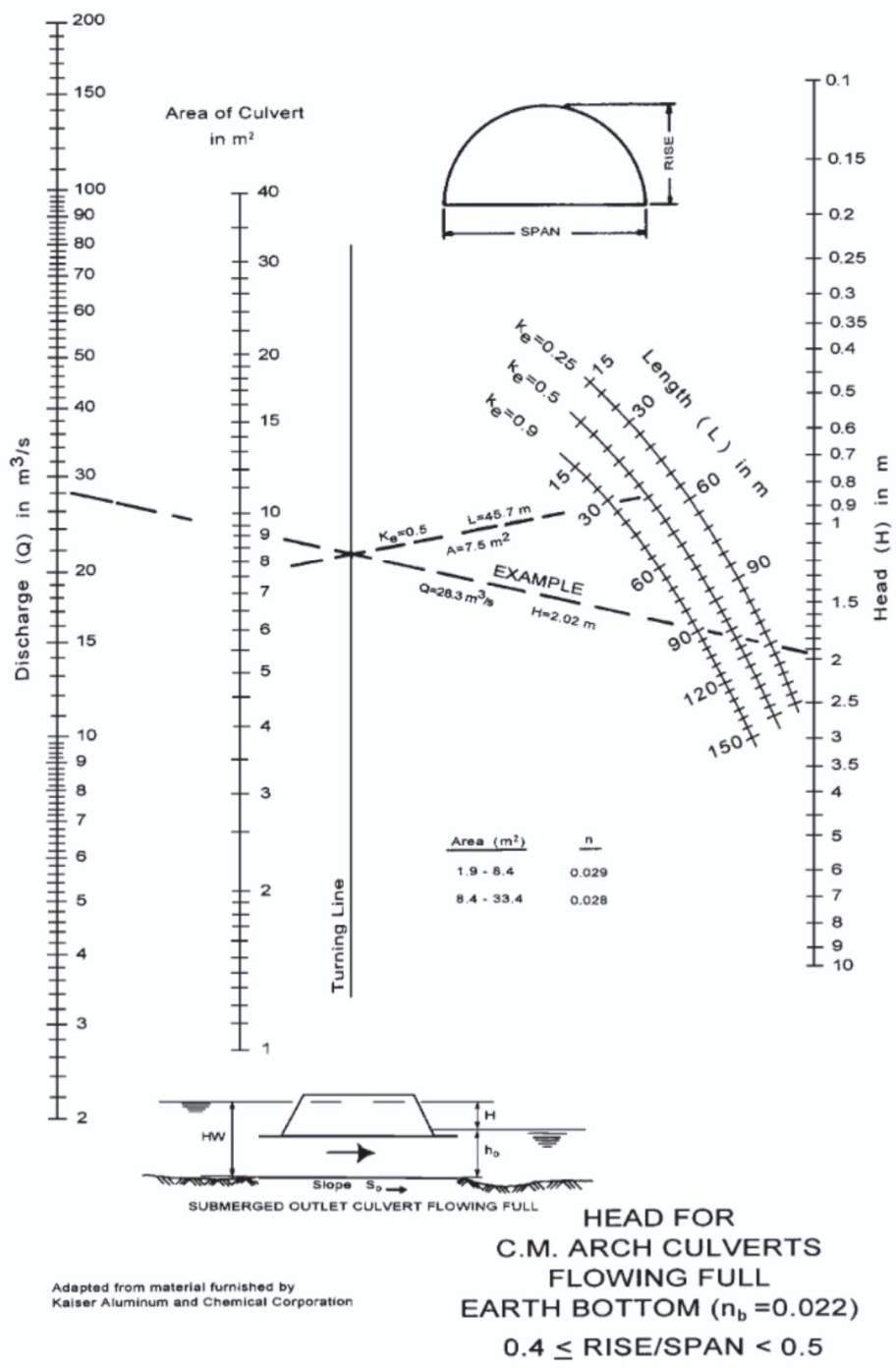

Figure 4.23 Head for structural plate corrugated steel arch with earth bottom and 0.4 ≤ Rise/Span < 0.5, flowing full under outlet control.

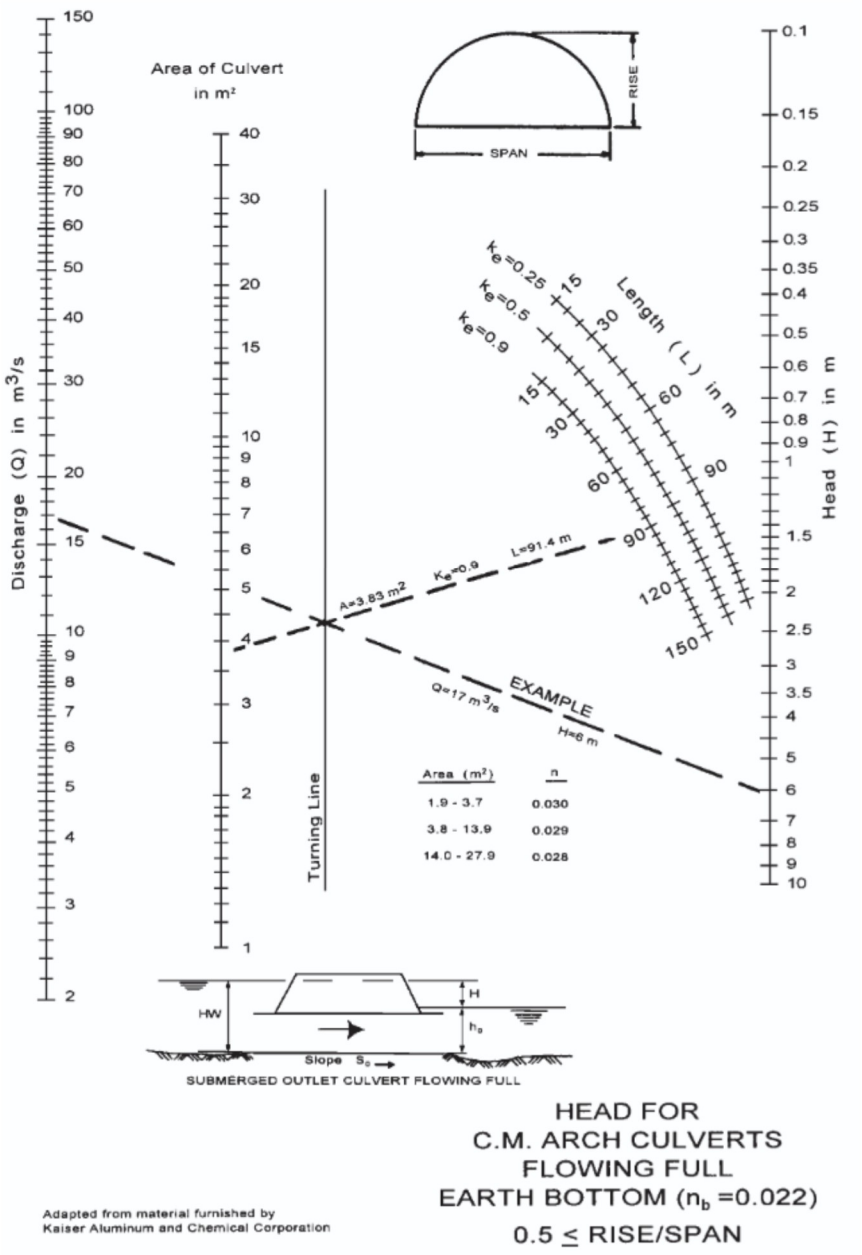

Figure 4.24 Head for structural plate corrugated steel arch with earth bottom and 0.5 ≤ Rise/Span, flowing full under outlet control.