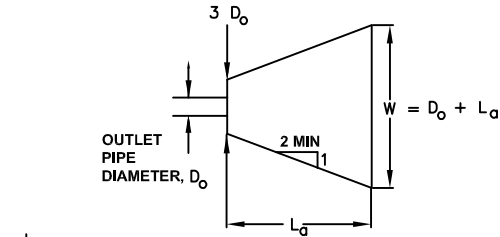

APPENDIX K

FIGURES

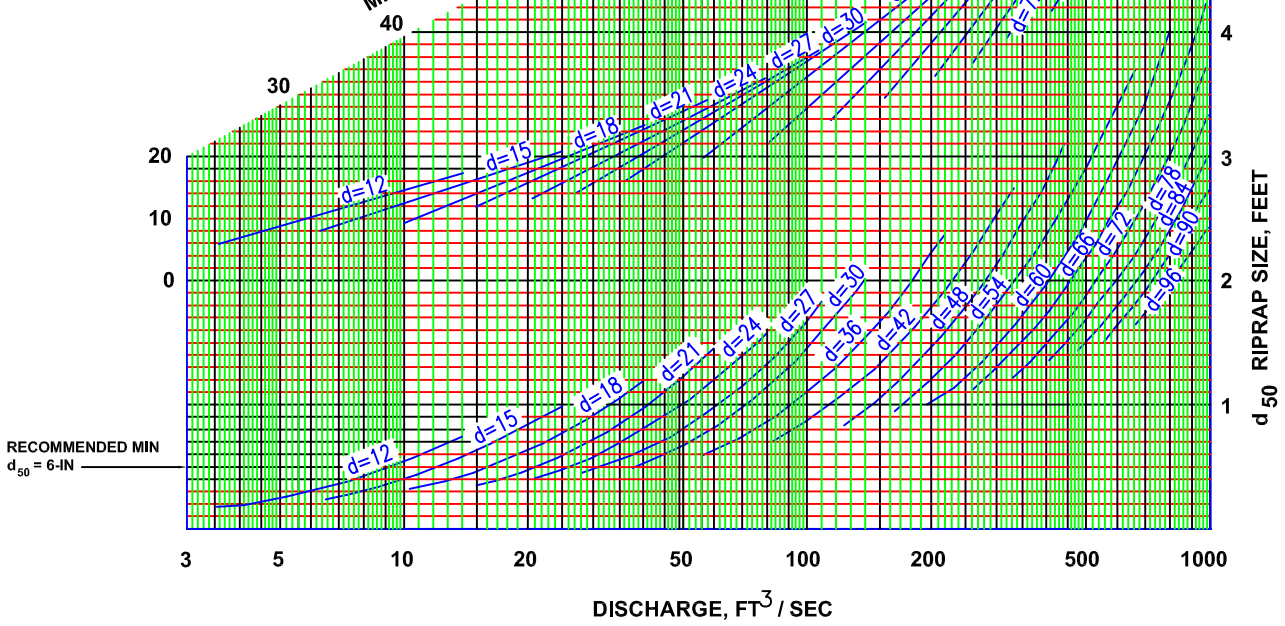
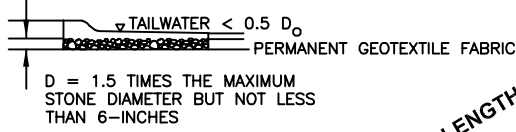
Figures

No.	Description
OP-1	Minimum Tail Water Condition
OP-2	Maximum Tail Water Condition
RC-C	Trapping Efficiency for Rock Ditch Checks with Coarse Texture Soils
RC-F	Trapping Efficiency for Rock Ditch Checks with Fine Texture Soils
RC-M	Trapping Efficiency for Rock Ditch Checks with Medium Texture Soils
RR-1	Maximum Depth of Flow of Riprap Lined Channels
RR-2	Distribution of Boundary Shear Around Wetted Perimeter of Trapezoidal Channel
RR-3	Angle of Repose for Riprap Stones
RR-4	Ratio of Critical Shear on Sides to Critical Shear on Bottom
RR-5	Ratio of Maximum Boundary Shear in Bends to Maximum Bottom Shear in Straight Reaches
SB-1	Trapping Efficiency for Basins Not in Low Lying Areas
SB-2	Trapping Efficiency for Basins in Low Lying Areas
SF-1	Trapping Efficiency of Silt Fence
ST-1	Trapping Efficiency of Sediment Traps
SV-1	Characteristic Settling Velocity as a Function of Eroded Particle Diameter

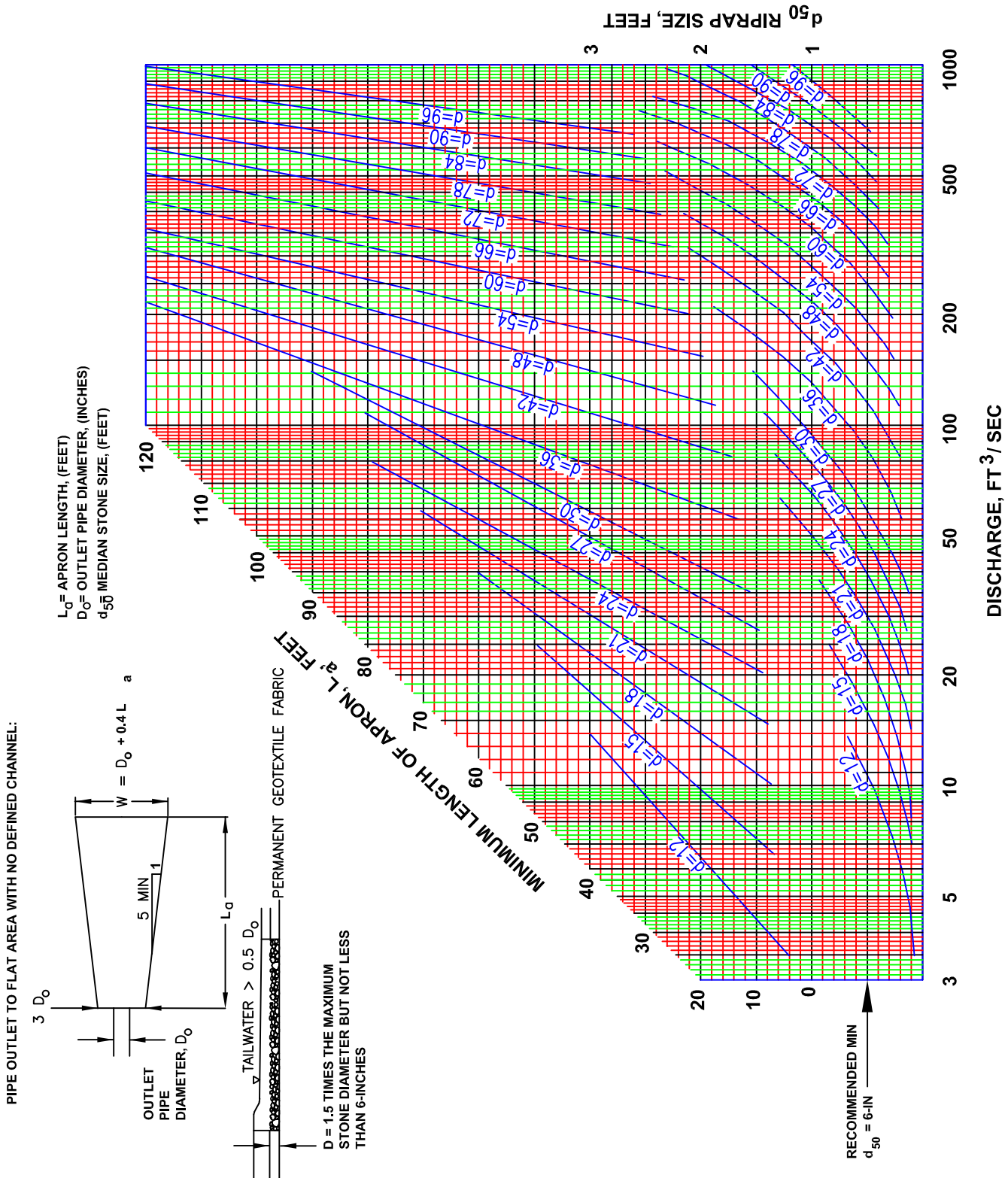
PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL:



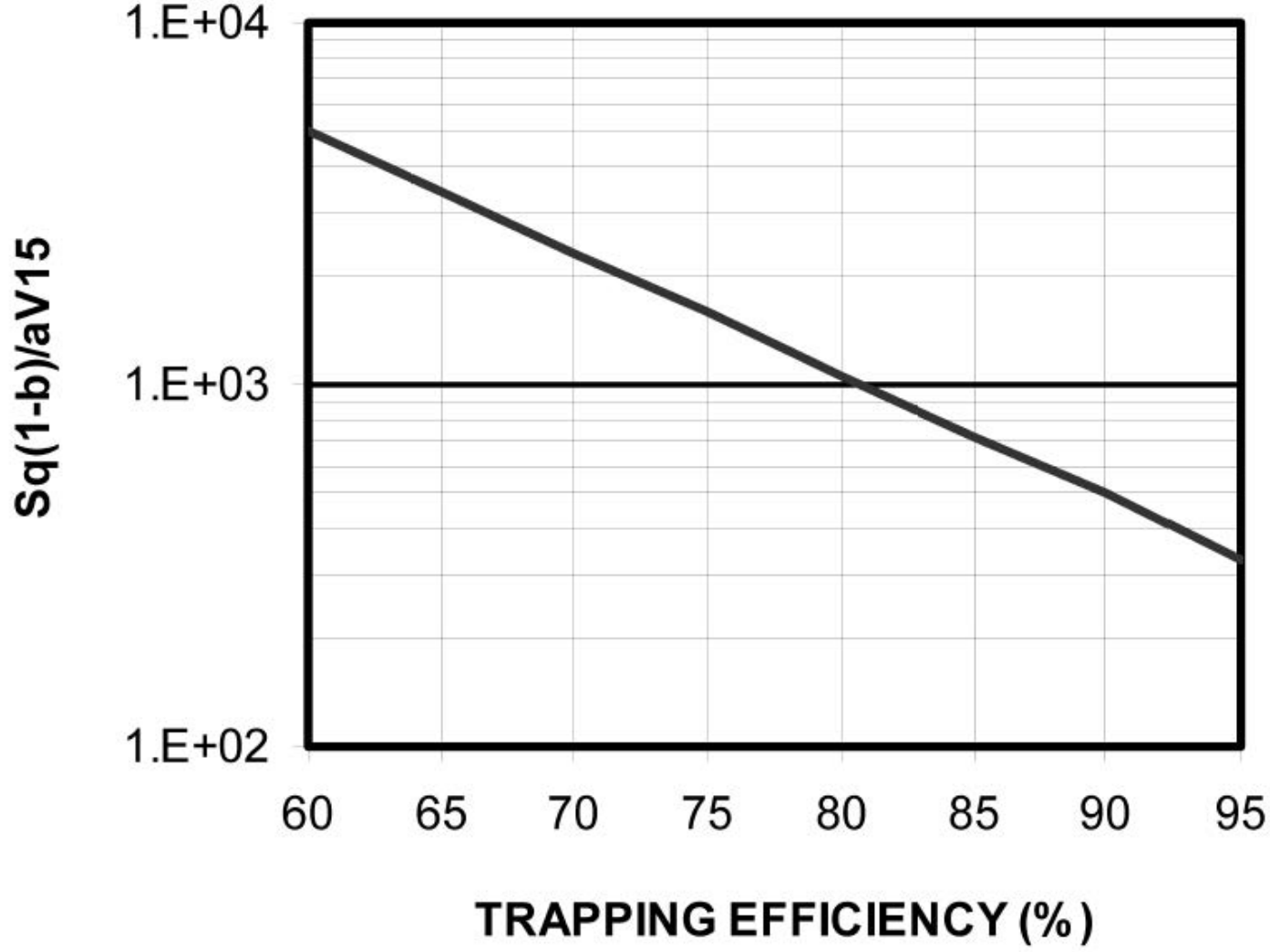
L_a = APRON LENGTH, (FEET)
 D_o = OUTLET PIPE DIAMETER, (INCHES)
 d_{50} = MEDIAN STONE SIZE, (FEET)



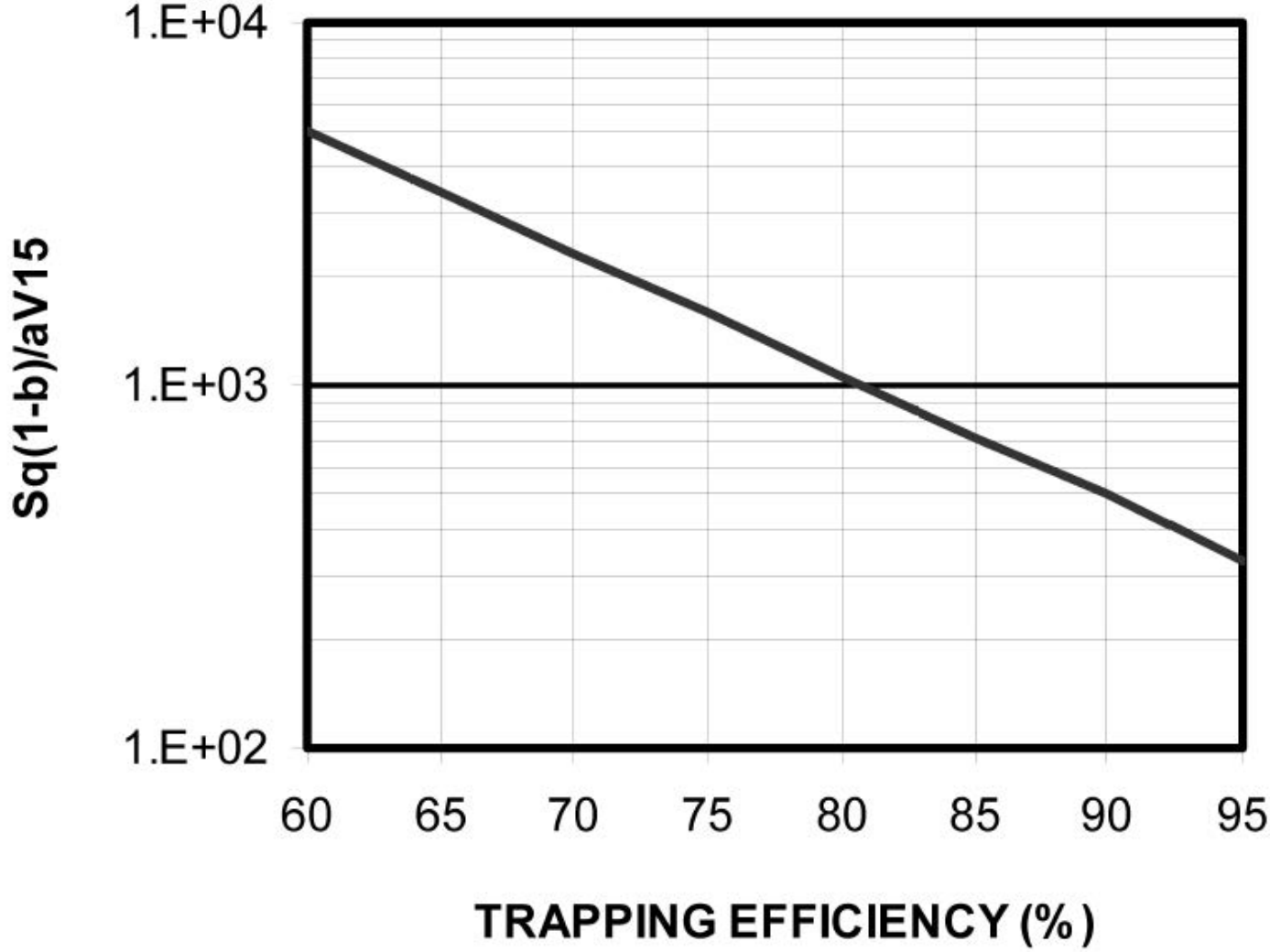
DESIGN OF OUTLET PROTECTION FROM A ROUND PIPE FLOWING FULL
 MINIMUM TAILWATER CONDITION ($T_w < 0.5$ DIAMETER)



**DESIGN OF OUTLET PROTECTION FROM A ROUND PIPE FLOWING FULL
MAXIMUM TAILWATER CONDITION ($T_w > 0.5$ DIAMETER)**

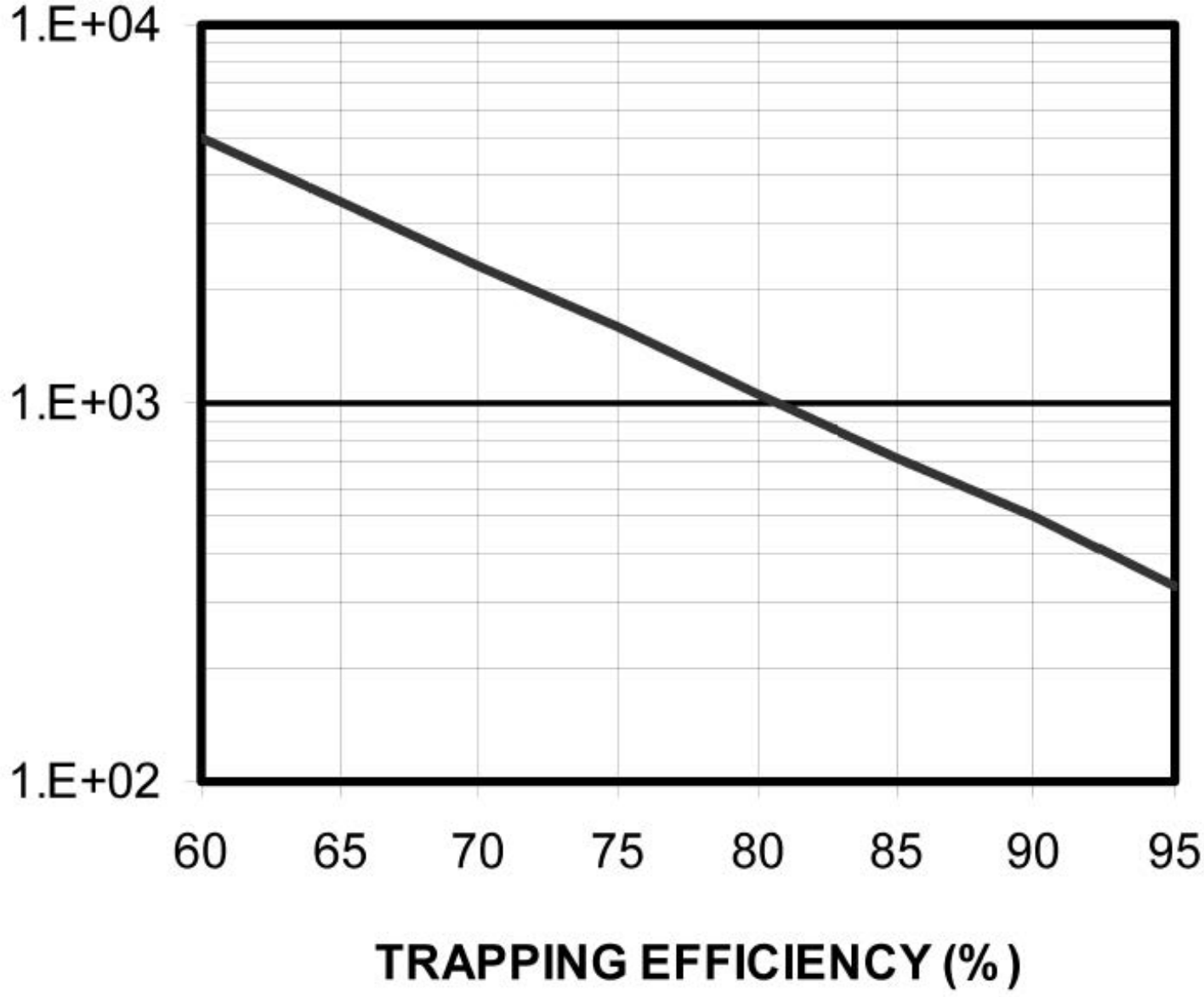


**DESIGN AID FOR ESTIMATING TRAPPING EFFICIENCY
OF ROCK DITCH CHECKS WITH COARSE TEXTURE SOILS**

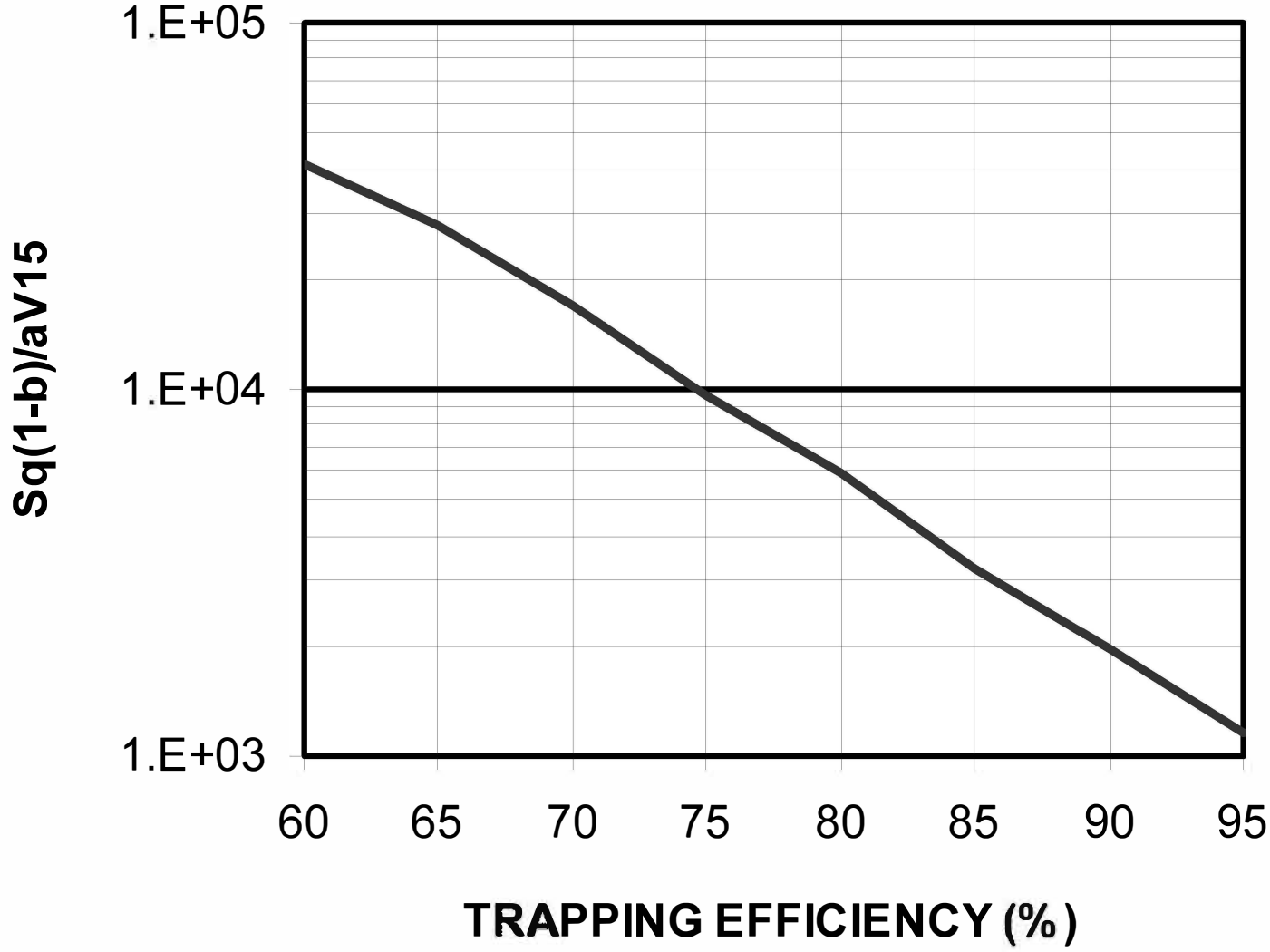


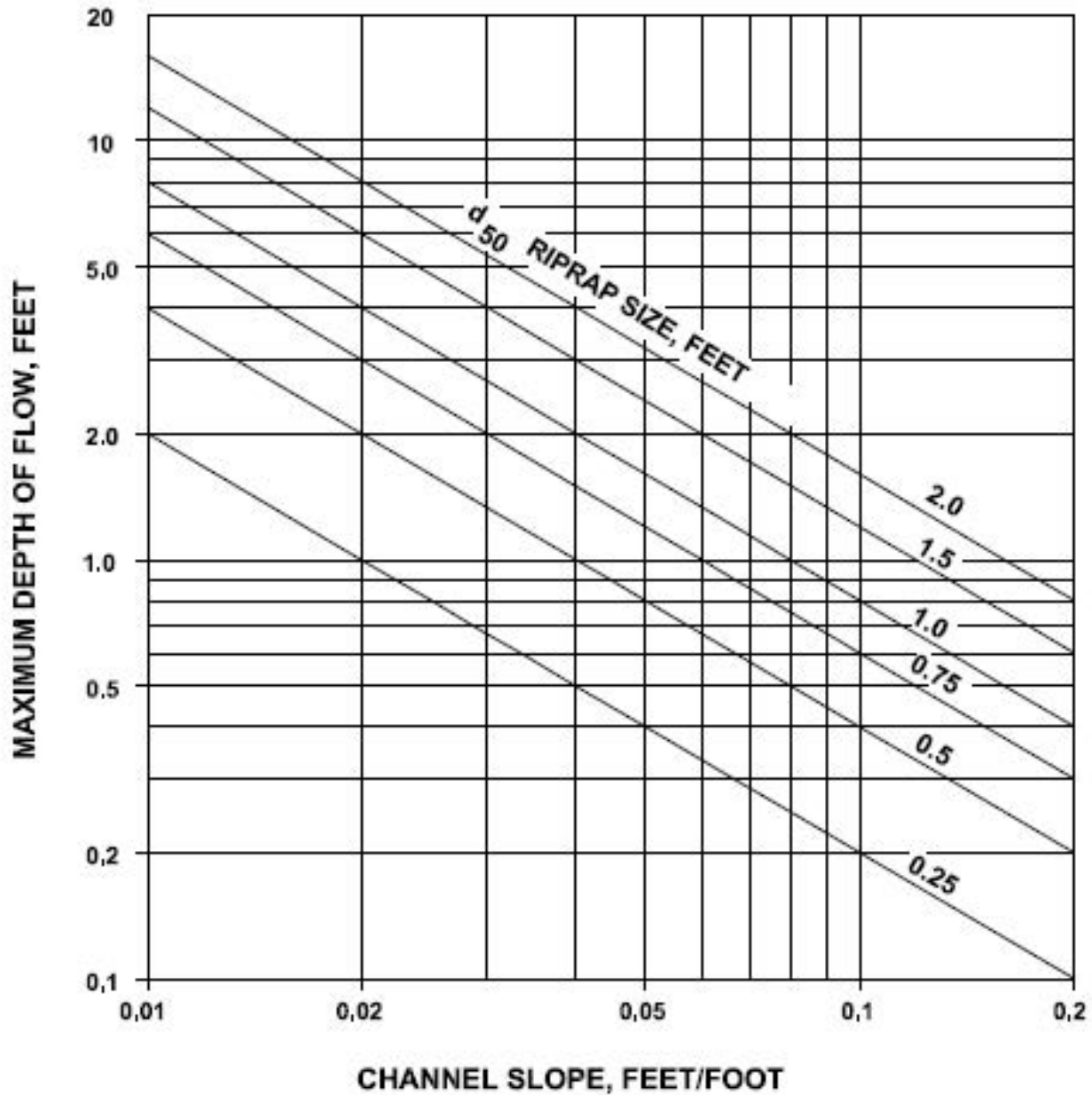
**DESIGN AID FOR ESTIMATING TRAPPING EFFICIENCY
OF ROCK DITCH CHECKS WITH COARSE TEXTURE SOILS**

$Sq(1-b)/aV15$

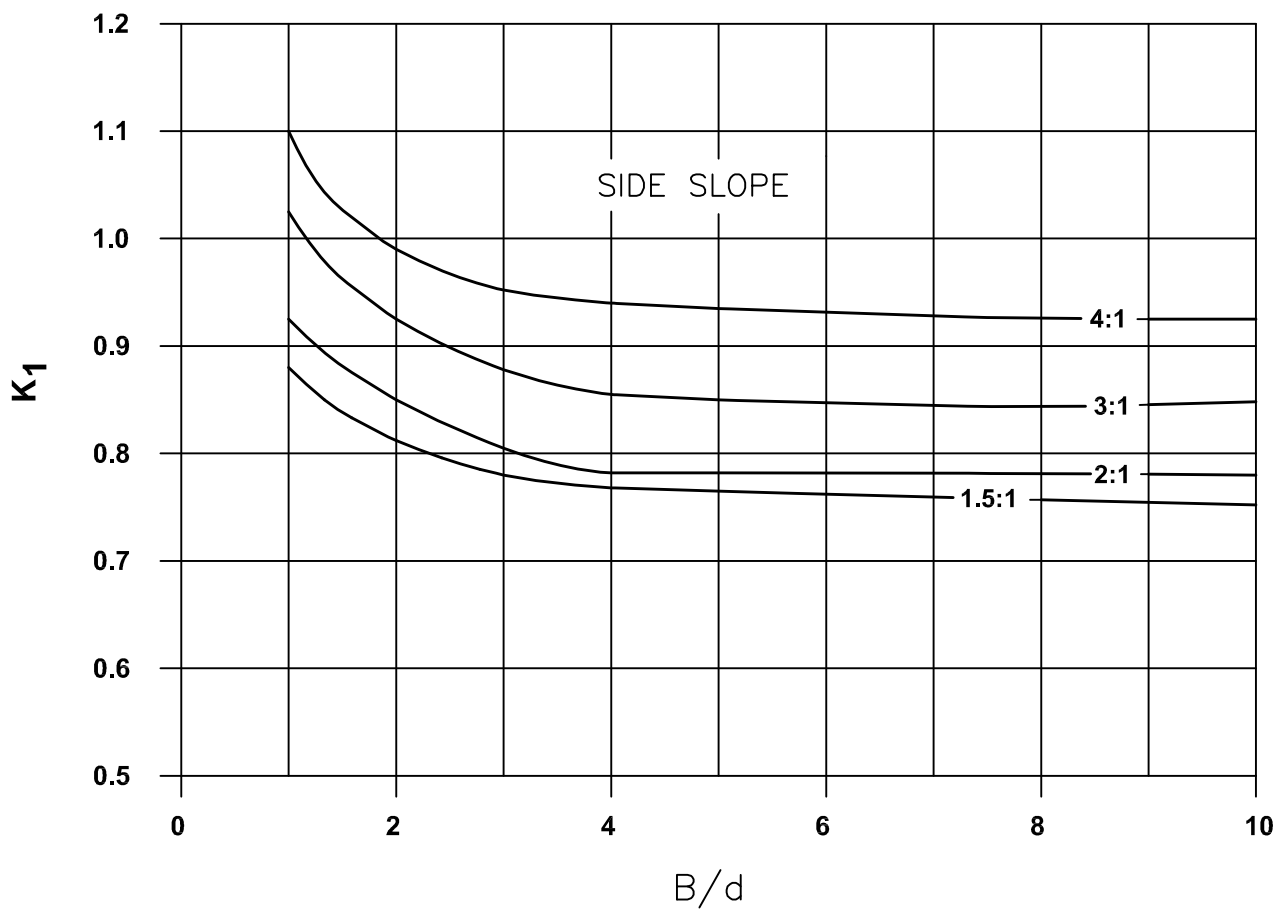


**DESIGN AID FOR ESTIMATING TRAPPING EFFICIENCY
OF ROCK DITCH CHECKS WITH FINE TEXTURE SOILS**





**MAXIMUM DEPTH OF FLOW
FOR RIPRAP LINED CHANNELS**



DISTRIBUTION OF BOUNDARY SHEAR AROUND
WETTED PERIMETER OF TRAPAZOIDAL CHANNEL

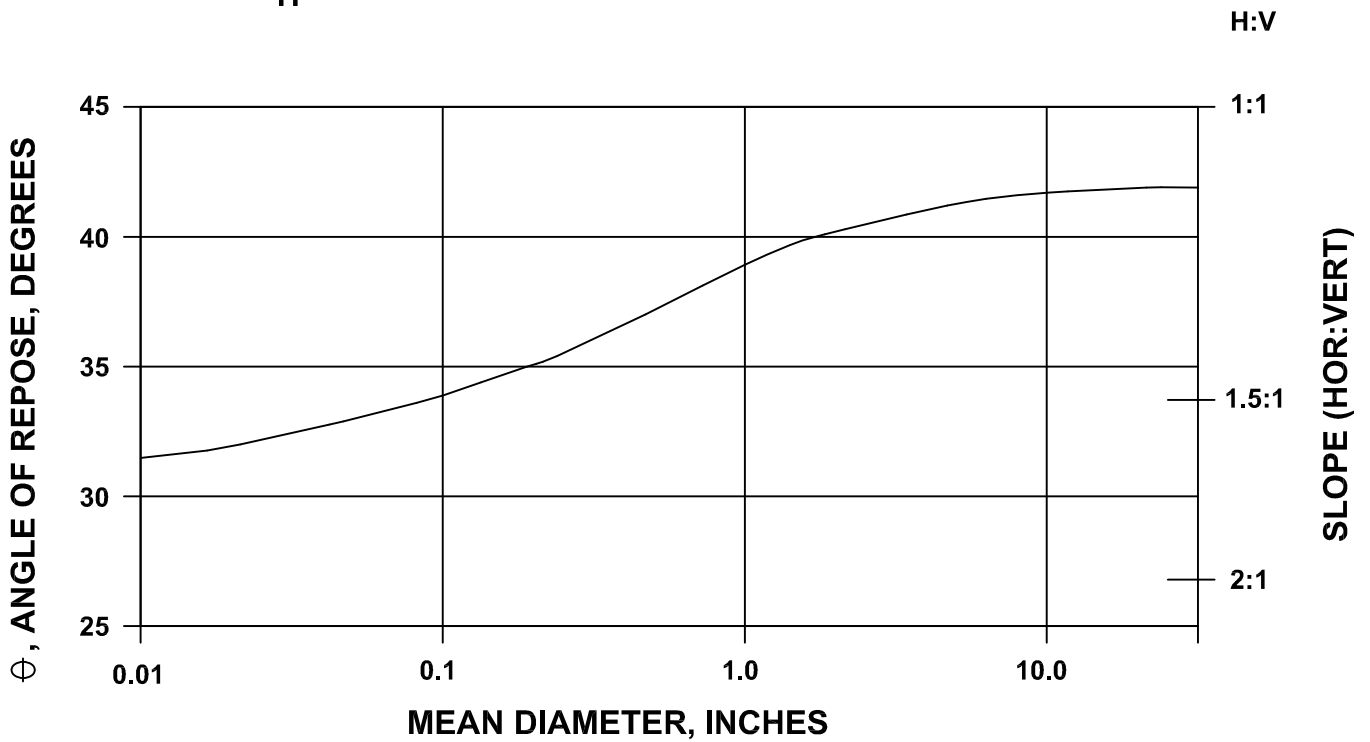
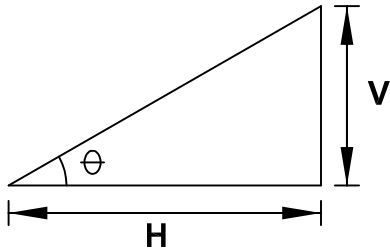
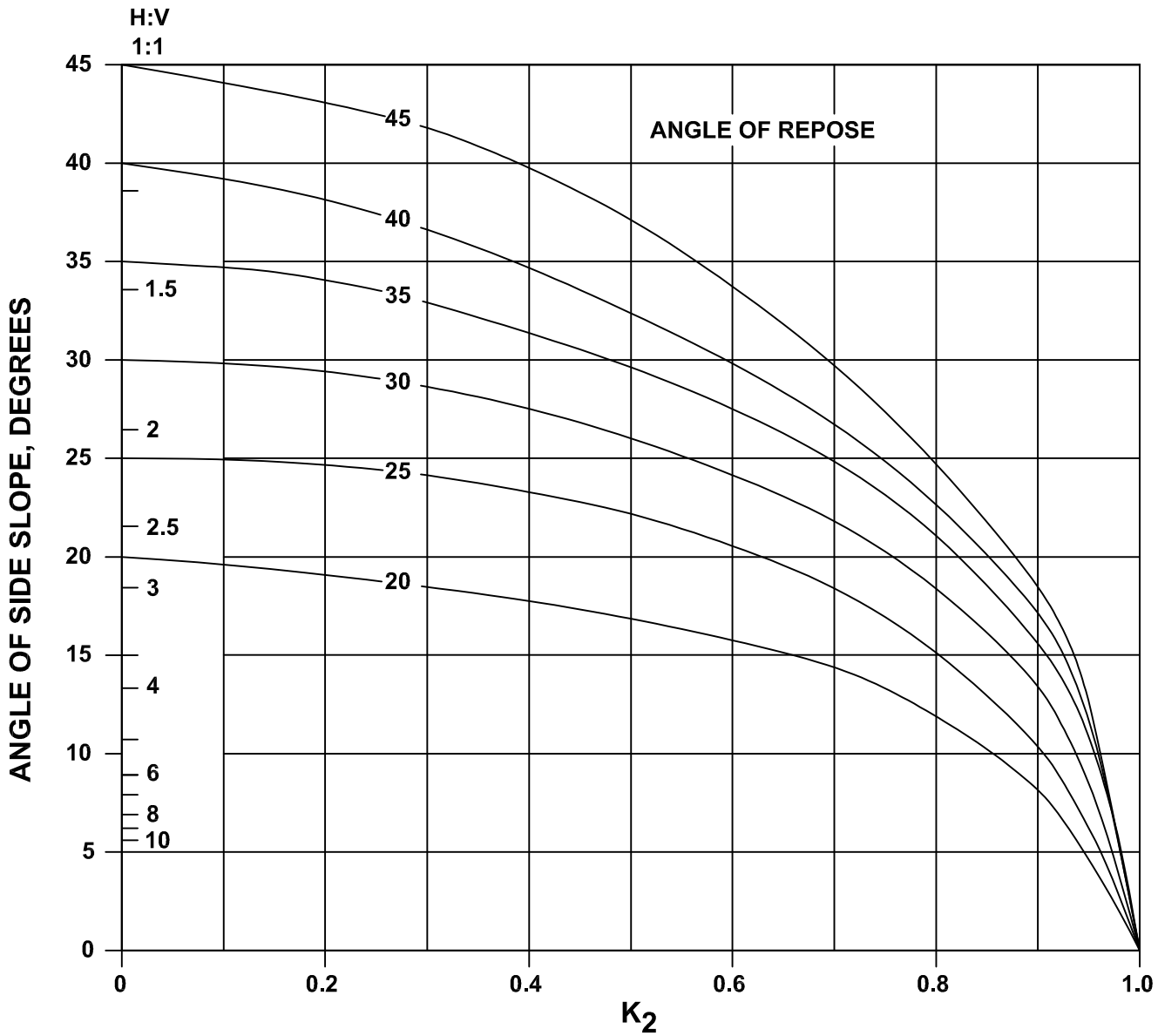


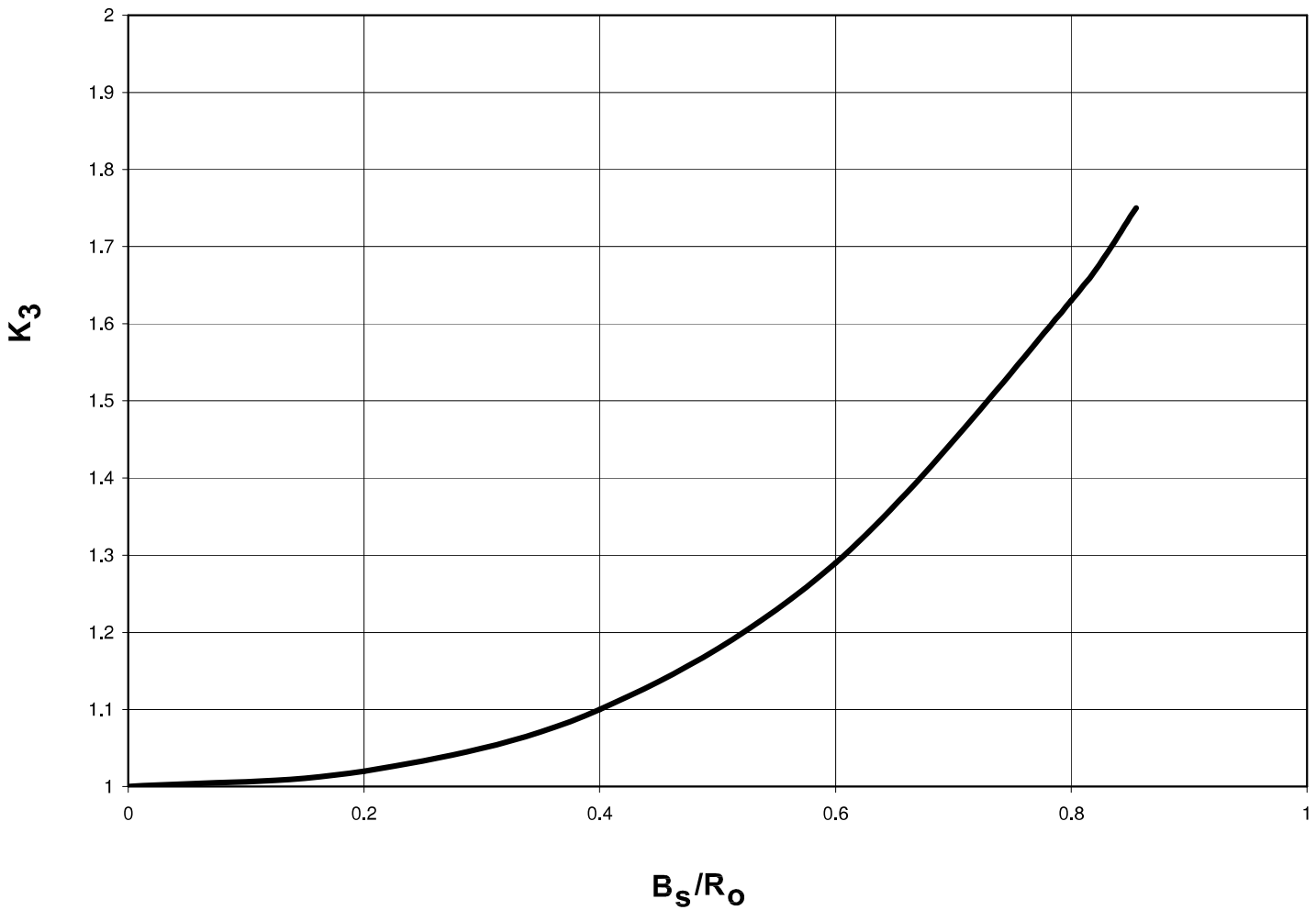
FIGURE RR-4
RATIO OF CRITICAL SHEAR STRESS ON SIDES
TO CRITICAL SHEAR STRESS ON BOTTOM

EFFECTIVE DATE: MARCH 2025



RATIO OF CRITICAL SHEAR ON SIDES TO
CRITICAL SHEAR ON BOTTOM

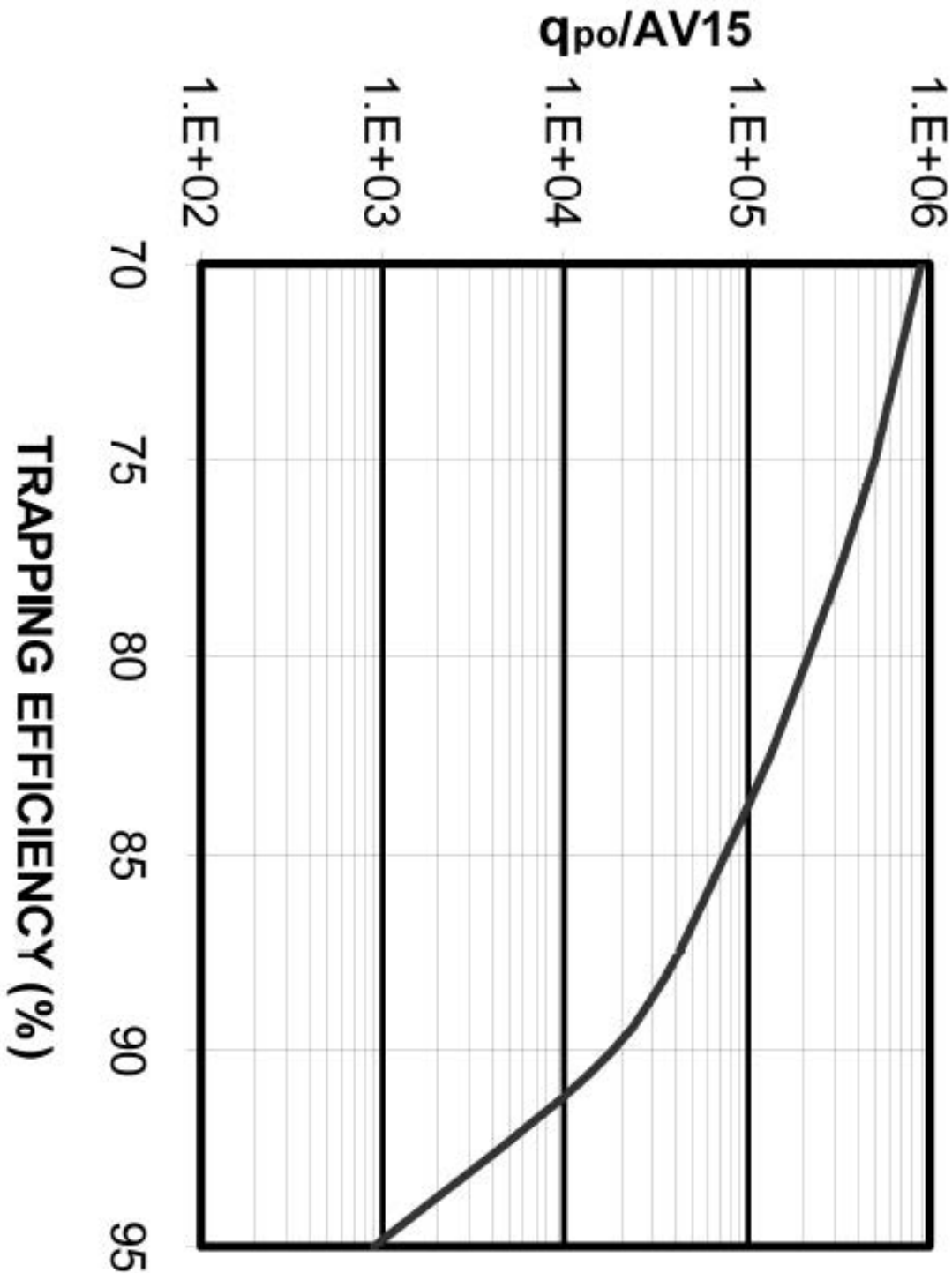
B_s = SURFACE WIDTH
 R_o = MEAN RADIUS OF BENDS



RATIO OF MAXIMUM BOUNDARY SHEAR IN BENDS TO
MAXIMUM BOTTOM SHEAR IN STRAIGHT REACHES

**FIGURE SB-1
TRAPPING EFFICIENCY FOR BASINS NOT IN LOW
LYING AREAS**

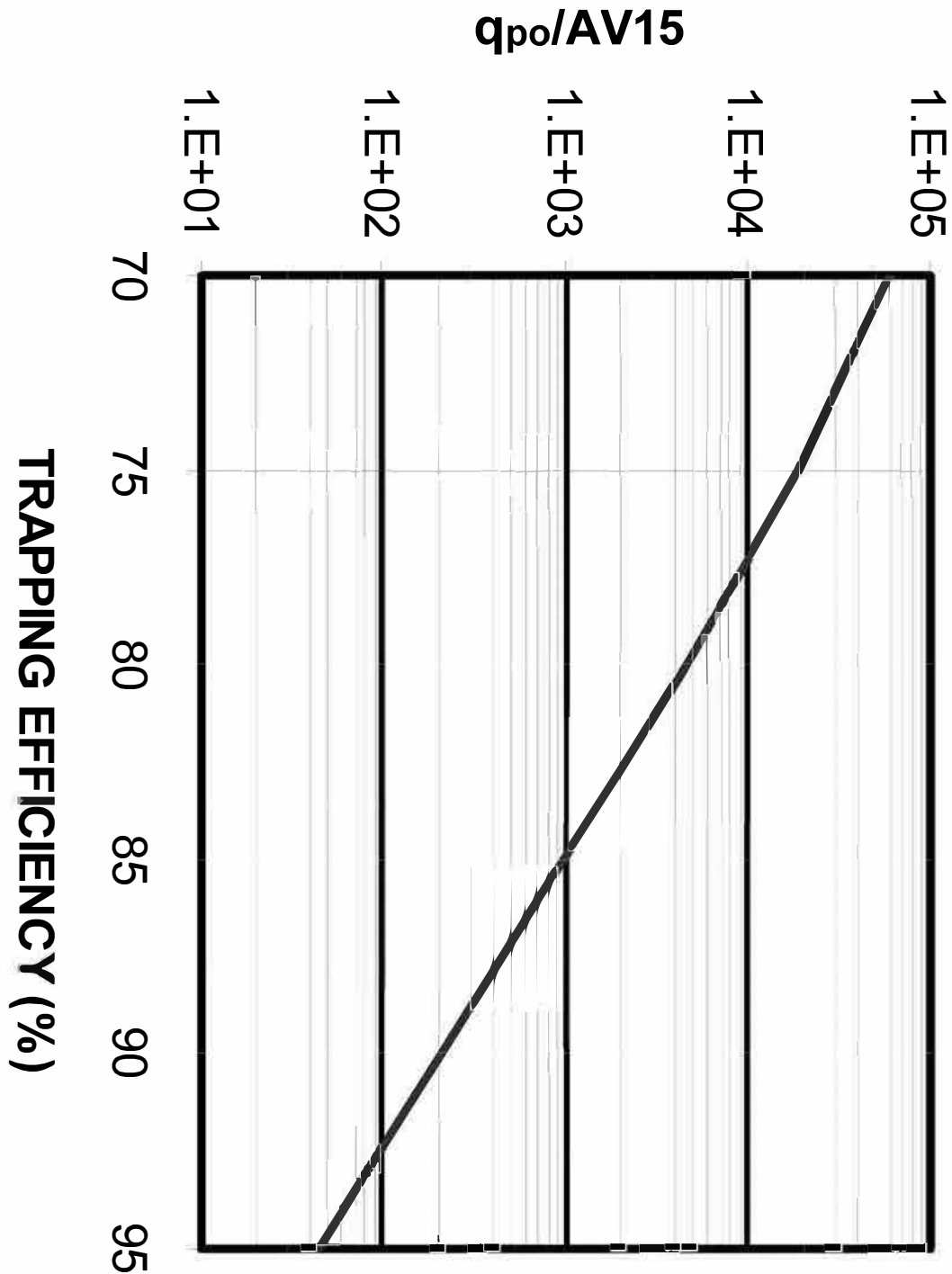
EFFECTIVE DATE: MARCH 2025



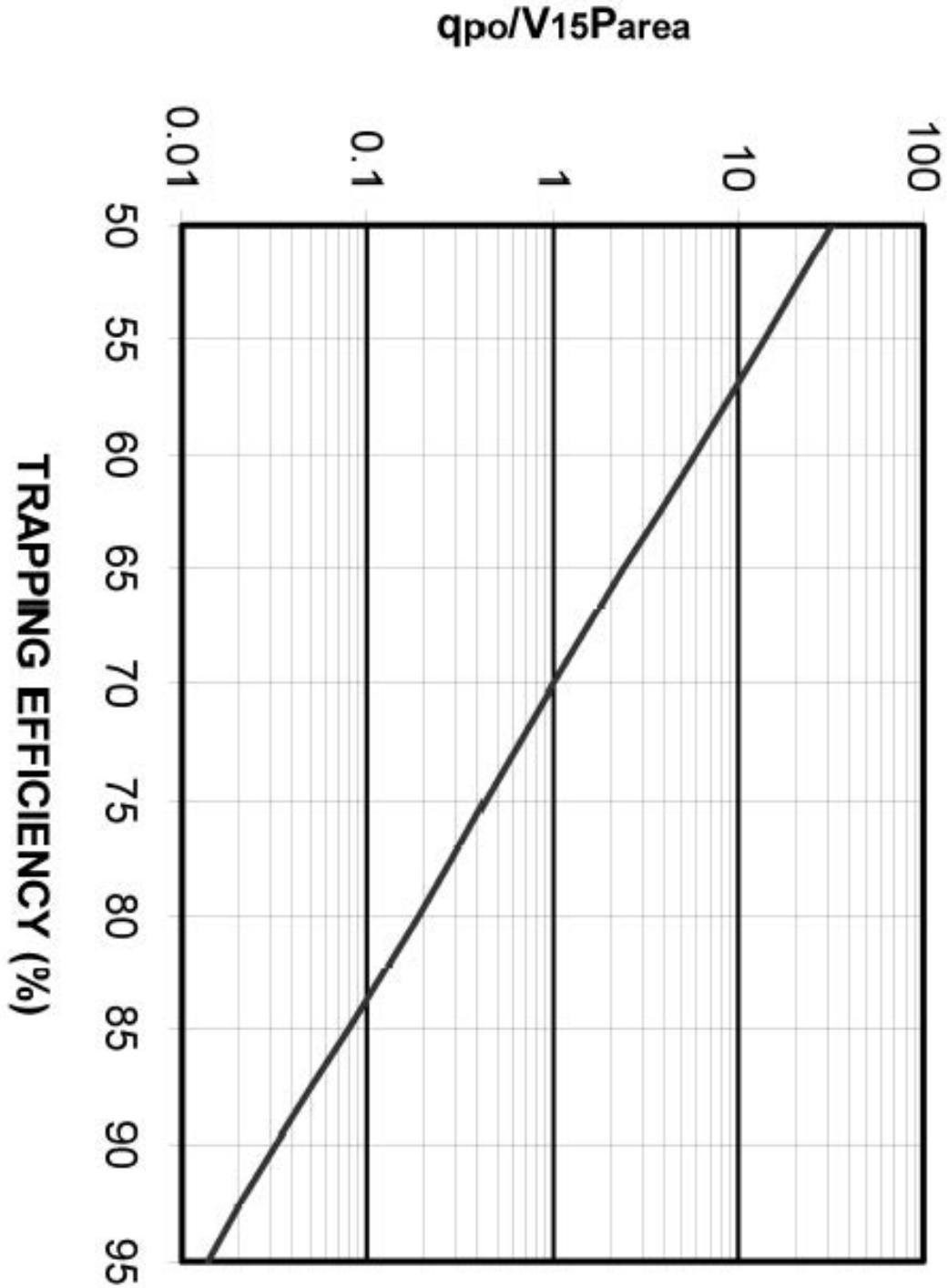
**DESIGN AID FOR ESTIMATING TRAPPING EFFICIENCY
FOR SEDIMENT BASINS NOT LOCATED IN LOW LYING
AREAS AND/OR NOT HAVING A HIGH WATER TABLE**

**FIGURE SB-2
TRAPPING EFFICIENCY FOR BASINS IN LOW
LYING AREAS**

EFFECTIVE DATE: MARCH 2025



**DESIGN AID FOR ESTIMATING TRAPPING EFFICIENCY
FOR SEDIMENT BASINS LOCATED IN LOW LYING
AREAS AND/OR HAVING A HIGH WATER TABLE**



DESIGN AID FOR ESTIMATING TRAPPING EFFICIENCY OF SILT FENCE

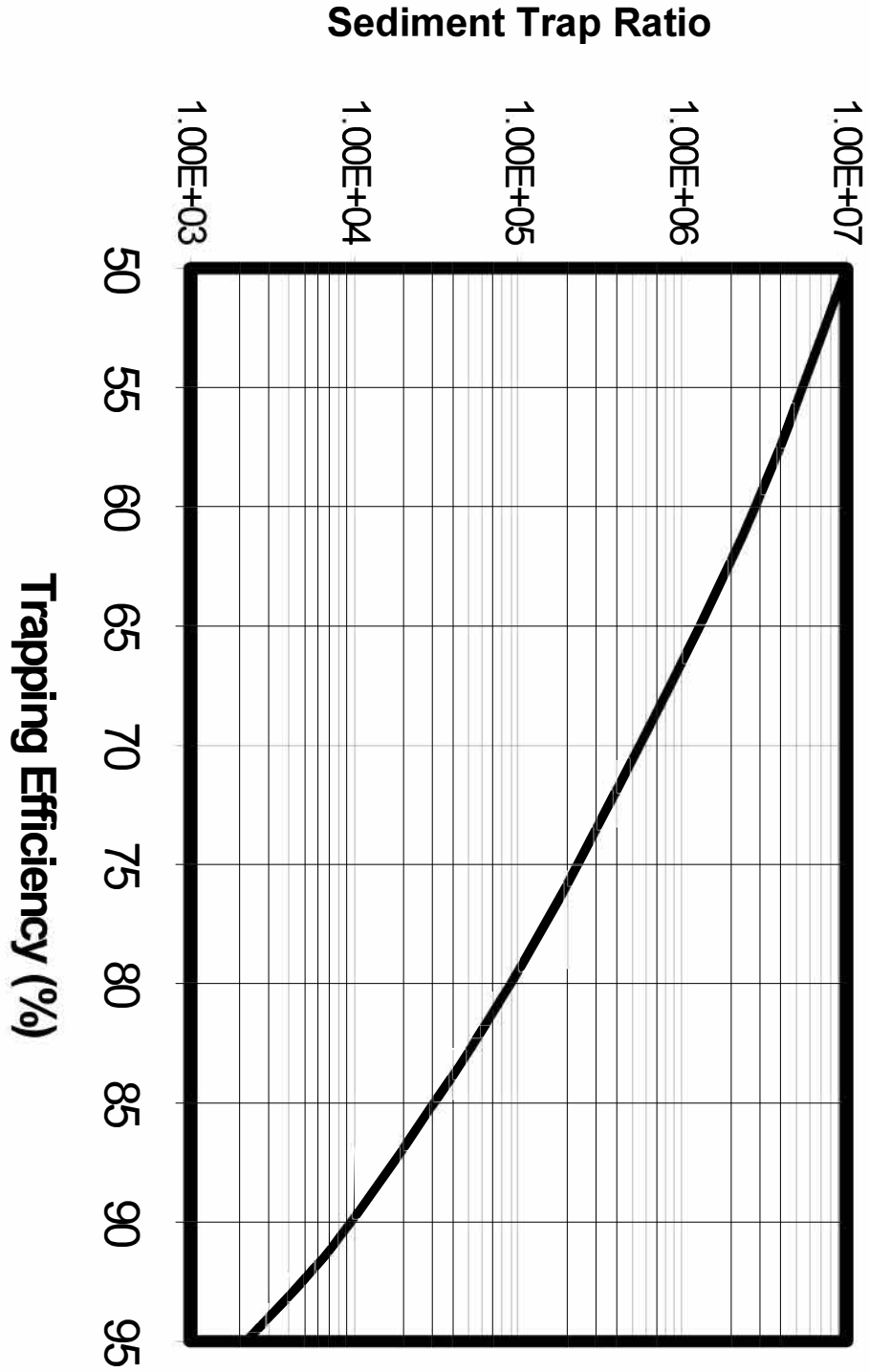


FIGURE SV-1
CHARACTERISTIC SETTLING VELOCITY AS A
FUNCTION OF ERODED PARTICLE DIAMETER

EFFECTIVE DATE: MARCH 2025

