

Technical drawing of a bridge deck reinforcement layout. The drawing shows a plan view of a rectangular bridge deck with dimensions 7.50m by 4.00m. It includes reinforcement bars (36 # 16 mm, 2 x 12 # 16 mm) and stirrups (51-19). A detail 'B' shows a cross-section of the reinforcement. A note at the bottom right states: "40 cm thick stone pitching (1:6) Full area disturbed by excavation to be protected by turbing or dry stone pitching."

Part no	Section (mm)	Quantity	Working Drawing	Length		Weight	
				Single/pc mm	Total mm	kg / pc	Total kg
30	Rod # 16 	36					
31	Rod # 16 L = 3950	24		3950	94.80	6.24	149.76
TOTAL							kg.

Diagram 51-28 shows a cable with an open thimble and grips. Diagram 51-29 shows a cable with a binding wire or weld at the cable end and grips. Labels include: Open thimble, Grip, Binding wire or weld at the cable end, Cable, and Required no. of buldog grips refer to list.

2) Omit part no. 50 - 8

$B =$	$\dots \dots \dots$	$\beta =$	$\dots \dots \dots$	$\circ$																									
$h_1 =$	$\dots \dots \dots$	$h_2 =$	$\dots \dots \dots$	m																									
				<table border="1"> <tr> <th rowspan="2">Vo Quantity (m³)</th><th colspan="2">Cement</th></tr> <tr> <th>Bags / m³</th><th>No. of bags</th></tr> <tr> <td>Cement plaster 1:4, 2 cm thick</td><td>0.26</td><td>9.12</td></tr> <tr> <td>Plain mass concrete 1:3:6 Vo = 12.78 (h₁ + 0.50) + (B - 1.26) $\frac{2.34}{\cos \beta}$ + $\frac{0.10}{\tan \beta}$ + 0.387</td><td>4.40</td><td>...</td></tr> <tr> <td>Plumb concrete 1:3:6 + 40 % boulders Vo = 14.22 (h₂ - h₁ - 0.5)</td><td>2.40</td><td>...</td></tr> <tr> <td>Rubble masonry (1:6)</td><td>7.28</td><td>10.92</td></tr> <tr> <td>TOTAL VOLUME V total = 12.78 h₂ + (B - 1.26) $\frac{2.34}{\cos \beta}$ + $\frac{0.10}{\tan \beta}$ + 0.127</td><td></td><td></td></tr> <tr> <td colspan="4"></td><td>No. of cement bags :</td></tr> </table>	Vo Quantity (m ³)	Cement		Bags / m ³	No. of bags	Cement plaster 1:4, 2 cm thick	0.26	9.12	Plain mass concrete 1:3:6 Vo = 12.78 (h ₁ + 0.50) + (B - 1.26) $\frac{2.34}{\cos \beta}$ + $\frac{0.10}{\tan \beta}$ + 0.387	4.40	...	Plumb concrete 1:3:6 + 40 % boulders Vo = 14.22 (h ₂ - h ₁ - 0.5)	2.40	...	Rubble masonry (1:6)	7.28	10.92	TOTAL VOLUME V total = 12.78 h ₂ + (B - 1.26) $\frac{2.34}{\cos \beta}$ + $\frac{0.10}{\tan \beta}$ + 0.127							No. of cement bags :
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Formwork	Quantity (m ²)
$F_o = 17.80 (h_2 - h_1 + 0.23) + 2.00 (B - 1.26) + 2.83$	

Bridge No:	Name:
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Name:

Structural Drawing :

Main Cable Deadman Foundation

Centre to centre distance $c/c_1 = 4.00$ m

Drawing No.51/2