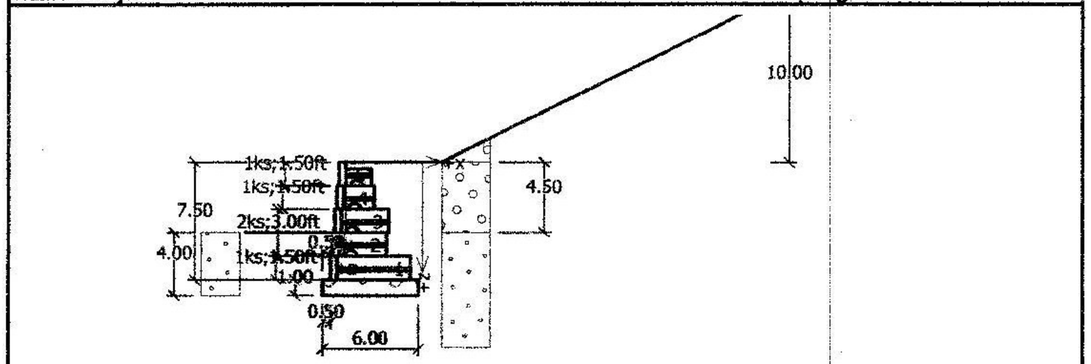
Analysis of Redi Rock wall

Input data

Project

Part : WALL STA. 0+50, 7.5' HT, 6' WIDE SWALE TO 2H:1V SLOPE ABOVE REVISION #1
Descript. : RICHMOND CMG PARK (31)
Author : ERIC MERLUZZI, P.E.
Customer : REDI-ROCK WALLS OF NEW ENGLAND
Date : 12/12/2013

Name : Project **Stage : 1**



Settings

(input for current task)

Wall analysis

Active earth pressure calculation : Coulomb
Passive earth pressure calculation : Caqout-Kerisel
Earthquake analysis : Mononobe-Okabe
Shape of earth wedge : Calculate as skew
Reduction coeff. of contact first block - base : 0.80
Verification methodology : according to LRFD

Partial factors on loads (L)			
Permanent design situation			
		Favourable	Unfavourable
Dead load of structural components :	DC =	0.90 [–]	1.25 [–]
Dead load of wearing surfaces :	DW =	0.65 [–]	1.35 [–]
Earth pressure load :	EH =	0.90 [–]	1.50 [–]
Earth surcharge load (permanent) :	ES =	0.75 [–]	1.50 [–]
Vertical pressure of earth fill :	EV =	1.00 [–]	1.35 [–]
Live load surcharge :	LS =	0.00 [–]	1.75 [–]
Water load :	WA =	1.00 [–]	1.00 [–]

Partial factors for resistances (R)			
Permanent design situation			
Partial factor on overturning :	γ_{Re} =		0.90 [–]
Partial factor on sliding resistance :	γ_{Rh} =		0.80 [–]

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