B-504-H3

(This sheet must be accompanied with B-504-C1 or C2 or C3 or F1 or F2 or F3)

DH or Z (FT.)	* SPACING (IN.)	σH (LB./FT.)	** ΣσH×spacing (LB./FT.)	*** Le (FT.)
0.667	12	525.583	350.389	1.124
1.333	12	571.286	731.246	1.124
2.000	NA	616.989	1.14E+03	NA
2.667	16	662.692	1.58E+03	1.498
3.333	NA	708.395	2.06E+03	NA
4.000	24	754.098	2.56E+03	2.247
4.667	NA	799.800	3.09E+03	NA
5.333	NA	845.503	3.66E+03	NA
6.000	NA	891.206	4.25E+03	NA
6.667	32	936.909	4.88E+03	2.996
7.333	NA	982.612	5.53E+03	NA
8.000	NA	1.03E+03	6.22E+03	NA
8.667	NA	1.07E+03	6.93E+03	NA
9.333	32	1.12E+03	7.68E+03	2.996
10.000	NA	1.17E+03	8.46E+03	NA
10.667	NA	1.21E+03	9.26E+03	NA
11.333	NA	1.26E+03	1.01E+04	NA
12.000	28	1.30E+03	1.10E+04	2.622
12.667	NA	1.35E+03	1.19E+04	NA
13.333	NA	1.39E+03	1.28E+04	NA
14.000	24	1.44E+03	1.38E+04	2.247
14.667	NA	1.49E+03	1.48E+04	NA
15.333	NA	1.53E+03	1.58E+04	NA
16.000	24	1.58E+03	1.68E+04	2.247
16.667	NA	1.62E+03	1.79E+04	NA
17.333	NA	1.67E+03	1.90E+04	NA
18.000	24	1.71E+03	2.02E+04	2.247
18.667	NA	1.76E+03	2.13E+04	NA
19.333	NA	1.81E+03	2.25E+04	NA
20.000	24☆	1.85E+03	2.38E+04	2.247
20.667	NA	1.90E+03	2.50E+04	NA
21.333	NA☆	1.94E+03	2.63E+04	NA
22.000	24	1.99E+03	2.77E+04	2.247
22.667	NA	2.03E+03	2.90E+04	NA
23.333	NA☆	2.08E+03	3.04E+04	NA
24.000	24	2.13E+03	3.18E+04	2.247
24.667	NA	2.17E+03	3.33E+04	NA
25.333	NA☆	2.22E+03	3.47E+04	NA
26.000	24	2.26E+03	3.62E+04	2.247
26.667	NA	2.31E+03	3.78E+04	NA
27.333	NA☆	2.35E+03	3.94E+04	NA
28.000	20	2.40E+03	4.10E+04	1.873
28.667	NA	2.45E+03	4.26E+04	NA
29.333	16	2.49E+03	4.42E+04	1.498
30.000	NA	2.54E+03	4.59E+04	NA
30.667	16	2.58E+03	4.77E+04	1.498
31.333	NA	2.63E+03	4.94E+04	NA
32.000	16	2.67E+03	5.12E+04	1.498
32.667	NA☆	2.72E+03	5.30E+04	NA
33.333	16	2.77E+03	5.48E+04	1.498
34.000	NA☆	2.81E+03	5.67E+04	NA
34.667	16	2.86E+03	5.86E+04	1.498
35.333	NA	2.90E+03	6.06E+04	NA
36.000	12	2.95E+03	6.25E+04	1.124
36.667	8	2.99E+03	6.45E+04	0.749
37.333	8	3.04E+03	6.65E+04	0.749
38.000	8	3.09E+03	6.86E+04	0.749
38.667	8	3.13E+03	7.07E+04	0.749
39.333	8	3.18E+03	7.28E+04	0.749
40.000	4	3.22E+03	7.50E+04	0.375

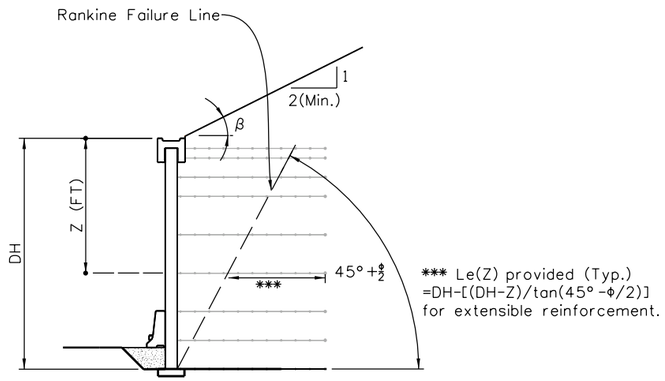
Note: Table is for both extensible and inextensible soil reinforcement.

* Example spacing for inextensible reinforcement.

** Summation of σH above Z for DH=40' only

*** Le based on extensible for DH=40' only, 0.8xLe for inextensible. Le of top two layers are not developed, layers used for avoiding roadway tension cracks.

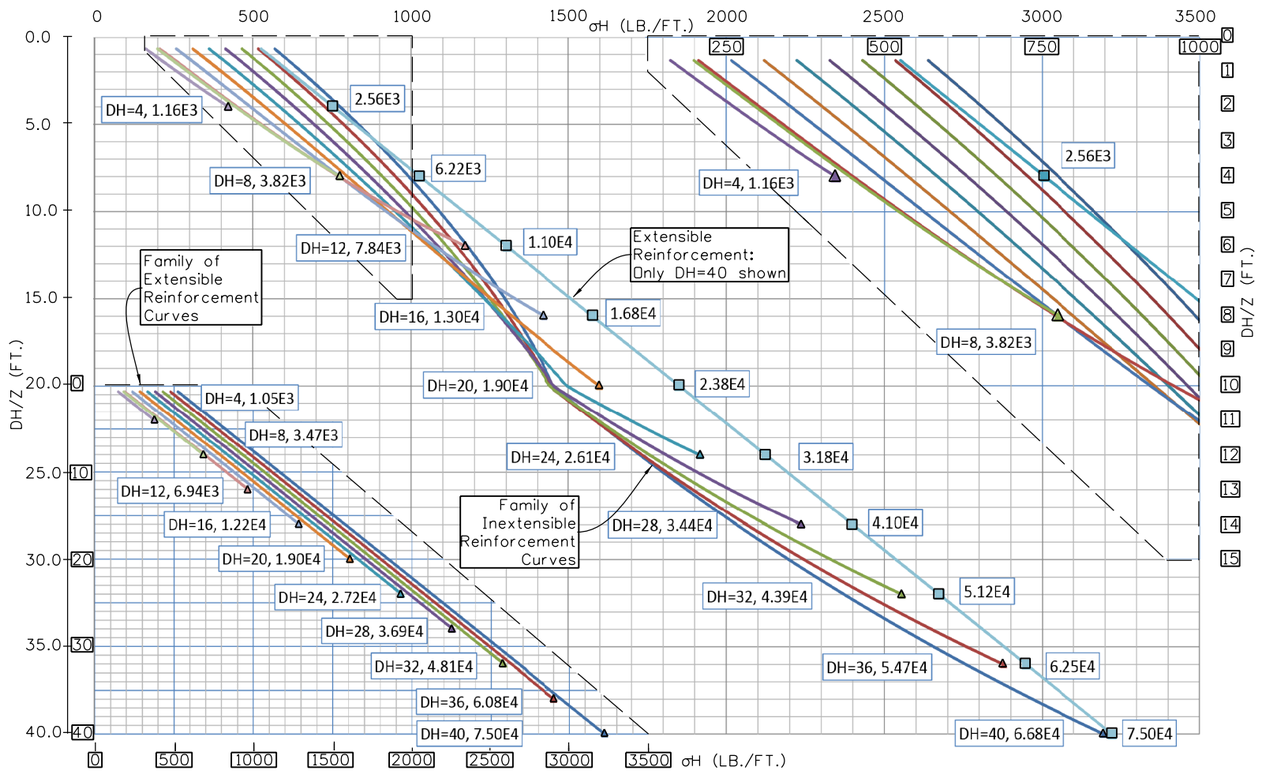
☆ Additional layer required for example extensible reinforcement, see example 3a.



*** Le(Z) provided (Typ.)
=DH-[(DH-Z)/tan(45°-ϕ/2)]
for extensible reinforcement.

APPLICATION DIAGRAM (DH=16' AS SHOWN)

Note to Designer:
Refer to Bridge Design Manual (BDM) for Design Criteria and Examples



Print Date: 9/6/2016					
File Name: Sheet_B-504-H3.dgn					
Horiz. Scale: As Noted	Vert. Scale: As Noted				
Staff Bridge Branch-Unit OXXX	Unit Leader Initials				

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
4201 East Arkansas Avenue
Room 107
Denver, CO 80222
Phone: 303-757-9309 FAX: 303-757-9197
Staff Bridge Branch

Initials

As Constructed	
No Revisions:	
Revised:	
Void:	

LRFD MSE WALL FOR BLOCK AND PANEL FACING WITH 2(H)(MIN.):1(V) BACKSLOPE DESIGN CHARTS/TABLE

Designer:	XXXXXXX	Structure Numbers	Wall-X-XX-XX
Detailer:	XXXXXXX		Wall-X-XX-XX
Sheet Subset:	Wall	Subset Sheets: WXX of XXX	

Project No./Code
Project Number
Code
Sheet Number

Quantities: Designed By / Checked By — Detail: Detailed By / Checked By — Design: Designed By / Checked By — INITIAL / DATE

Revision Dates (Preliminary Stage Only): 09-16

nguyenh 9:18:09 AM C:\Users\nguyenh\Desktop\Worksheet dgn and PDF\Sheet_B-504-H3.dgn