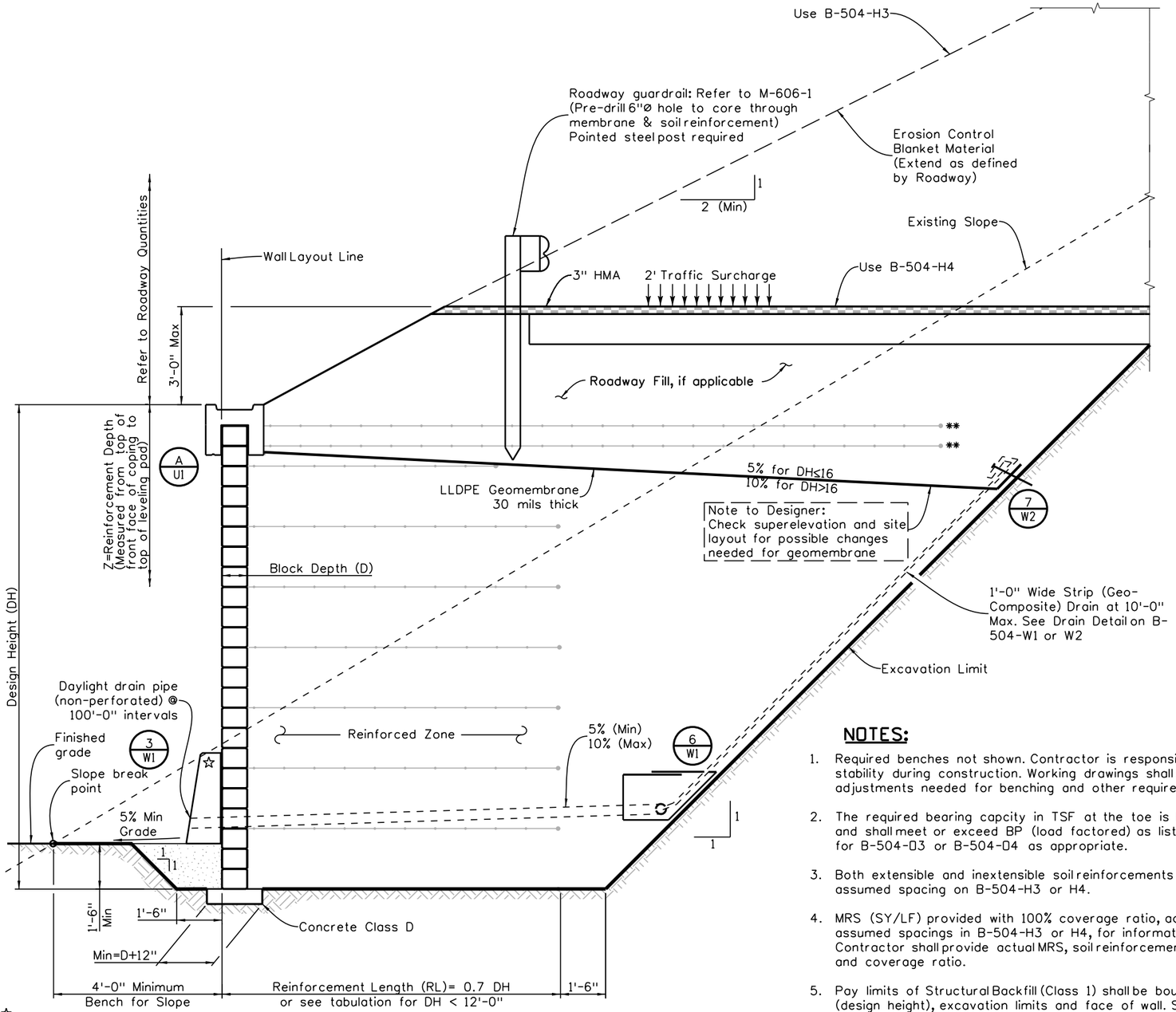

☆ Barrier required when located within clear zone. See M-606-15 Style CD for details

SECTION VIEW

NOTES:

1. Required benches not shown. Contractor is responsible for slope stability during construction. Working drawings shall show any adjustments needed for benching and other requirements.
2. The required bearing capcity in TSF at the toe is based on 0.7 DH and shall meet or exceed BP (load factored) as listed in the table for B-504-03 or B-504-04 as appropriate.
3. Both extensible and inextensible soil reinforcements are allowed with assumed spacing on B-504-H3 or H4.
4. MRS (SY/LF) provided with 100% coverage ratio, according to the assumed spacings in B-504-H3 or H4, for information only. The Contractor shall provide actual MRS, soil reinforcement types, spacing, and coverage ratio.
5. Pay limits of Structural Backfill (Class 1) shall be bound by top of DH (design height), excavation limits and face of wall. See B504 quantity sheets for additional details. Additional quantities due to benching per 203.06 shall be included in the cost of the work.

B-504-C1

(This sheet must be accompanied with B-504-H3 or H4)

	DH (Ft)	RL** (Ft)	MRS (CY/LF)	MRS (SY/LF)	BM1 (CY/LF)	PLG (Ft/LF)	H3 BP (TSF)	H4 BP (TSF)
	2.000	6.000	0.444	2.667	0.755	9.500	0.335	1.083
	2.667	6.000	0.593	3.333	0.997	10.167	0.409	1.179
	3.333	6.000	0.741	3.333	1.257	10.833	0.489	1.290
	4.000	6.000	0.889	4.000	1.532	11.500	0.575	1.419
	4.667	6.000	1.037	4.000	1.825	12.167	0.669	1.568
	5.333	6.000	1.185	4.000	2.133	12.833	0.771	1.740
	6.000	6.000	1.333	4.000	2.458	13.500	0.884	1.942
	6.667	7.000	1.728	5.444	3.047	15.167	0.973	1.859
	7.333	7.000	1.901	5.444	3.430	15.833	1.091	2.042
	8.000	8.000	2.370	6.222	4.125	17.500	1.178	1.982
	8.667	8.000	2.568	6.222	4.565	18.167	1.301	2.151
	9.333	8.000	2.765	7.111	5.022	18.833	1.435	2.341
	10.000	8.000	2.963	7.111	5.495	19.500	1.581	2.557
	10.667	8.000	3.160	7.111	5.985	20.167	1.742	2.804
	11.333	8.000	3.358	7.111	6.491	20.833	1.918	3.091
	12.000	8.400	3.733	8.400	7.192	21.900	2.042	3.151
	12.667	8.867	4.160	8.867	7.960	23.033	2.156	3.176
	13.333	9.333	4.609	9.333	8.767	24.167	2.269	3.207
	14.000	9.800	5.081	10.889	9.614	25.300	2.383	3.244
	14.667	10.267	5.577	11.407	10.500	26.433	2.496	3.285
	15.333	10.733	6.095	11.926	11.426	27.567	2.610	3.329
***	16.000	11.200	6.637	13.689	12.392	28.700	2.723	3.377
	16.667	11.667	7.202	14.259	13.397	29.833	2.837	3.427
	17.333	12.133	7.789	14.830	14.441	30.967	2.950	3.479
	18.000	12.600	8.400	16.800	15.525	32.100	3.064	3.532
	18.667	13.067	9.034	17.422	16.648	33.233	3.177	3.588
	19.333	13.533	9.691	18.044	17.811	34.367	3.290	3.645
	20.000	14.000	10.370	20.222	19.014	35.500	3.404	3.703
	20.667	14.467	11.073	20.896	20.256	36.633	3.517	3.762
	21.333	14.933	11.799	21.570	21.537	37.767	3.631	3.822
	22.000	15.400	12.548	23.956	22.858	38.900	3.744	3.882
	22.667	15.867	13.320	24.681	24.219	40.033	3.858	3.944
	23.333	16.333	14.115	25.407	25.619	41.167	3.971	4.006
	24.000	16.800	14.933	28.000	27.058	42.300	4.085	4.069
	24.667	17.267	15.774	28.778	28.537	43.433	4.198	4.133
	25.333	17.733	16.639	29.556	30.056	44.567	4.312	4.197
	26.000	18.200	17.526	32.356	31.614	45.700	4.425	4.261
	26.667	18.667	18.436	33.185	33.211	46.833	4.539	4.326
	27.333	19.133	19.370	34.015	34.848	47.967	4.652	4.391
	28.000	19.600	20.326	37.022	36.525	49.100	4.765	4.456
	28.667	20.067	21.305	37.904	38.241	50.233	4.879	4.522
	29.333	20.533	22.308	41.067	39.997	51.367	4.992	4.588
	30.000	21.000	23.333	42.000	41.792	52.500	5.106	4.655
	30.667	21.467	24.382	45.319	43.626	53.633	5.219	4.721
	31.333	21.933	25.453	46.304	45.500	54.767	5.333	4.788
	32.000	22.400	26.548	49.778	47.414	55.900	5.446	4.855
	32.667	22.867	27.666	50.815	49.367	57.033	5.560	4.923
	33.333	23.333	28.807	54.444	51.360	58.167	5.673	4.990
	34.000	23.800	29.970	55.533	53.392	59.300	5.787	5.058
	34.667	24.267	31.157	59.319	55.463	60.433	5.900	5.126
	35.333	24.733	32.367	60.459	57.574	61.567	6.014	5.194
	36.000	25.200	33.600	64.400	59.725	62.700	6.127	5.262
	36.667	25.667	34.856	68.444	61.915	63.833	6.241	5.330
	37.333	26.133	36.135	72.593	64.145	64.967	6.354	5.399
	38.000	26.600	37.437	76.844	66.414	66.100	6.467	5.467
	38.667	27.067	38.762	81.200	68.723	67.233	6.581	5.536
	39.333	27.533	40.110	85.659	71.071	68.367	6.694	5.605
	40.000	28.000	41.481	90.222	73.458	69.500	6.808	5.673

** RL for top two geotextile layers = 2 x RL (For roadway)
Or RL = PLG(For 2:1 Infinite Slope)

*** For example spacing on B-504-H3: DH=16' requires 25.95 SY/LF geogrid corresponding to 6.637 CY/LF volume of MRS with Class 1 backfill paid separately

Revision Dates		
09-16	10-24	

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						

All seals for this set of drawings are applied to the cover page(s)

Print Date: $DATE$
File Name: Sheet_B-504-C1.dgn
Horiz. Scale: Vert. Scale: As Noted
Unit Information Unit Leader Initials

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation
2829 West Howard Place, 3rd Floor
Denver, CO 80204
Phone: 303-512-4079
FAX: 303-757-9197
Staff Bridge Branch Initials

As Constructed
No Revisions:
Revised:
Void:

BLOCK FACING MSE WALL
FOR BACKSLOPE OR ROADWAY
WITH 1:1 SOIL EXCAVATION

Designer: XXXXXXXX Structure Numbers XXXXXXXXXXXXXX
Detailer: XXXXXXXX XXXXXXXXXXXXXX
Sheet Subset: WALL Subset Sheets: WXX of XXX

Project No./Code
Sheet Number

$PLOT_INFO$