

B-504-03 REINFORCING SCHEDULE

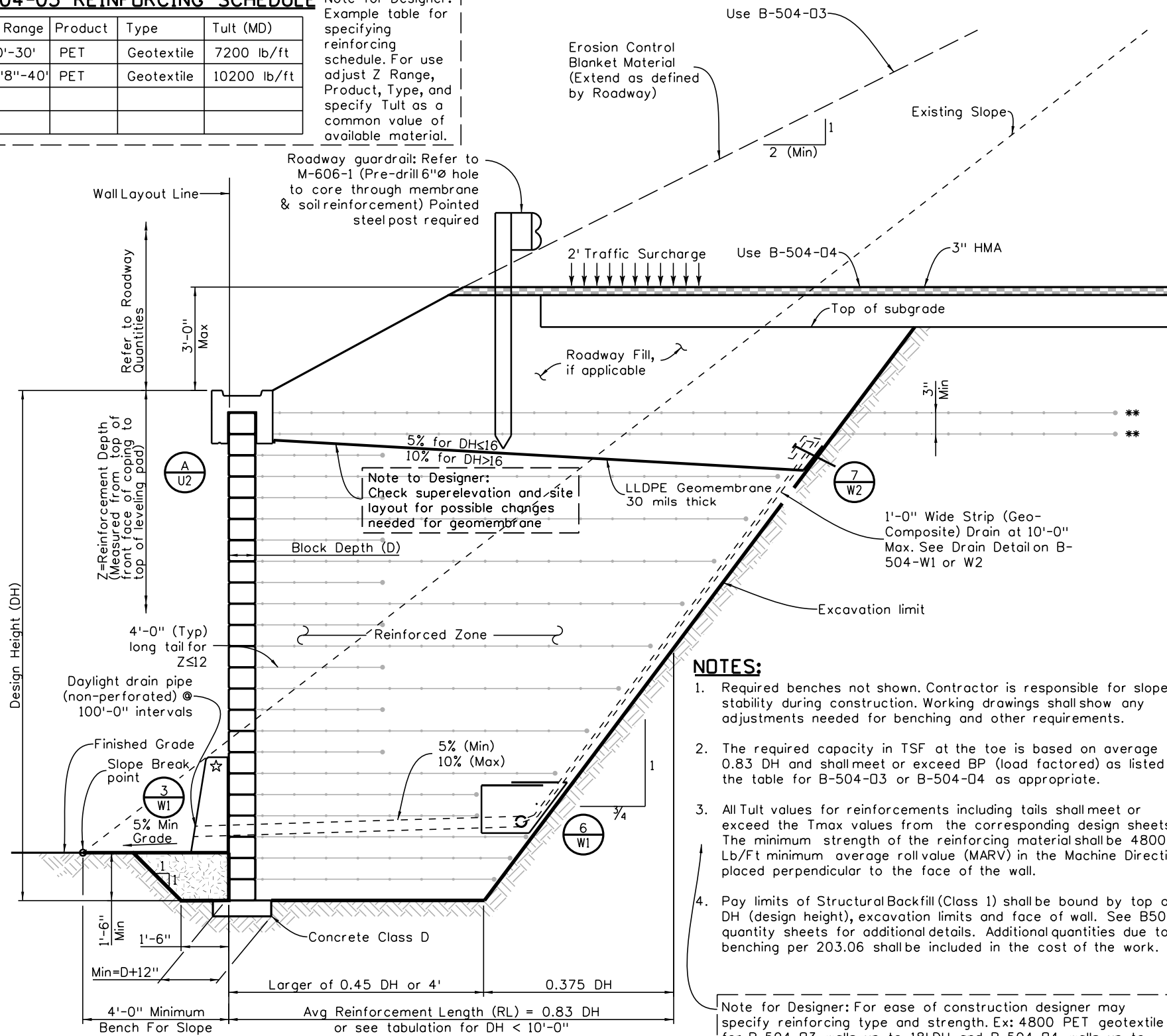
| Z Range | Product | Type | Tult (MD) |
|-----------|---------|------------|-------------|
| 0'-30' | PET | Geotextile | 7200 lb/ft |
| 30'8"-40' | PET | Geotextile | 10200 lb/ft |

Note for Designer: Example table for specifying reinforcing schedule. For use adjust Z Range, Product, Type, and specify Tult as a common value of available material.

B-504-N2
(This sheet must be accompanied with B-504-03 or 04)

| Revision | By | Date |
|----------|----|------|
| 09-16 | | |
| 10-24 | | |

| INITIALS | DESIGN | DATE | DETAIL | DATE | QUANTITY | DATE |
|----------|--------|------|--------|------|----------|------|
| | | | | | | |



NOTES:

- Required benches not shown. Contractor is responsible for slope stability during construction. Working drawings shall show any adjustments needed for benching and other requirements.
- The required capacity in TSF at the toe is based on average 0.83 DH and shall meet or exceed BP (load factored) as listed in the table for B-504-03 or B-504-04 as appropriate.
- All Tult values for reinforcements including tails shall meet or exceed the Tmax values from the corresponding design sheets. The minimum strength of the reinforcing material shall be 4800 Lb/Ft minimum average roll value (MARV) in the Machine Direction placed perpendicular to the face of the wall.
- 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.

Note for Designer: For ease of construction designer may specify reinforcing type and strength. Ex: 4800 PET geotextile for B-504-03 walls up to 18' DH and B-504-04 walls up to 30' DH. Typically limit reinforcing to no more than 3 common strengths. Contact Staff Bridge Branch for assistance.

| DH (Ft) | RL**(Ft) | | | MRS (CY/LF) | MRS (SY/LF) | BM1 (CY/LF) | PLG (FT/LF) | 03 BP (TSF) | 04 BP (TSF) |
|---------|----------|--------|--------|-------------|-------------|-------------|-------------|-------------|-------------|
| | (Min) | (Avg) | (Max) | | | | | | |
| 2.000 | 4.000 | 4.750 | 5.500 | 0.352 | 2.889 | 0.477 | 5.50 | 0.431 | 0.965 |
| 2.667 | 4.000 | 5.000 | 6.000 | 0.494 | 3.667 | 0.619 | 6.00 | 0.556 | 1.149 |
| 3.333 | 4.000 | 5.250 | 6.500 | 0.648 | 4.361 | 0.773 | 6.50 | 0.697 | 1.347 |
| 4.000 | 4.000 | 5.500 | 7.000 | 0.815 | 5.222 | 0.940 | 7.00 | 0.858 | 1.576 |
| 4.667 | 4.000 | 5.750 | 7.500 | 0.994 | 5.944 | 1.119 | 7.50 | 1.040 | 1.848 |
| 5.333 | 4.000 | 6.000 | 8.000 | 1.185 | 6.889 | 1.310 | 8.00 | 1.245 | 2.170 |
| 6.000 | 4.000 | 6.250 | 8.500 | 1.389 | 7.639 | 1.514 | 8.50 | 1.476 | 2.549 |
| 6.667 | 4.000 | 6.500 | 9.000 | 1.605 | 8.667 | 1.730 | 9.00 | 1.915 | 2.998 |
| 7.333 | 4.000 | 6.750 | 9.500 | 1.833 | 9.444 | 1.958 | 9.50 | 2.241 | 3.534 |
| 8.000 | 4.000 | 7.000 | 10.000 | 2.074 | 10.556 | 2.199 | 10.00 | 2.908 | 4.179 |
| 8.667 | 4.000 | 7.250 | 10.500 | 2.327 | 11.361 | 2.452 | 10.50 | 3.385 | 4.967 |
| 9.333 | 4.200 | 7.700 | 11.200 | 2.662 | 12.778 | 2.787 | 11.20 | 3.578 | 5.252 |
| 10.000 | 4.500 | 8.250 | 12.000 | 3.056 | 13.944 | 3.181 | 12.00 | 3.625 | 5.258 |
| 10.667 | 4.800 | 8.800 | 12.800 | 3.477 | 15.644 | 3.602 | 12.80 | 3.688 | 5.291 |
| 11.333 | 5.100 | 9.350 | 13.600 | 3.925 | 16.872 | 4.050 | 13.60 | 3.765 | 5.344 |
| 12.000 | 5.400 | 9.900 | 14.400 | 4.400 | 18.756 | 4.525 | 14.40 | 3.965 | 5.411 |
| 12.667 | 5.700 | 10.450 | 15.200 | 4.902 | 20.761 | 5.027 | 15.20 | 4.186 | 5.490 |
| 13.333 | 6.000 | 11.000 | 16.000 | 5.432 | 22.889 | 5.557 | 16.00 | 4.406 | 5.577 |
| 14.000 | 6.300 | 11.550 | 16.800 | 5.989 | 25.139 | 6.114 | 16.80 | 4.626 | 5.673 |
| 14.667 | 6.600 | 12.100 | 17.600 | 6.573 | 27.511 | 6.698 | 17.60 | 4.846 | 5.774 |
| 15.333 | 6.900 | 12.650 | 18.400 | 7.184 | 30.006 | 7.309 | 18.40 | 5.067 | 5.880 |
| 16.000 | 7.200 | 13.200 | 19.200 | 7.822 | 32.622 | 7.947 | 19.20 | 5.287 | 5.990 |
| 16.667 | 7.500 | 13.750 | 20.000 | 8.488 | 35.361 | 8.613 | 20.00 | 5.507 | 6.104 |
| 17.333 | 7.800 | 14.300 | 20.800 | 9.180 | 38.222 | 9.305 | 20.80 | 5.728 | 6.220 |
| 18.000 | 8.100 | 14.850 | 21.600 | 9.900 | 41.206 | 10.025 | 21.60 | 5.948 | 6.339 |
| 18.667 | 8.400 | 15.400 | 22.400 | 10.647 | 44.311 | 10.772 | 22.40 | 6.168 | 6.461 |
| 19.333 | 8.700 | 15.950 | 23.200 | 11.421 | 47.539 | 11.546 | 23.20 | 6.389 | 6.584 |
| 20.000 | 9.000 | 16.500 | 24.000 | 12.222 | 50.889 | 12.347 | 24.00 | 6.609 | 6.709 |
| 20.667 | 9.300 | 17.050 | 24.800 | 13.051 | 54.361 | 13.176 | 24.80 | 6.829 | 6.835 |
| 21.333 | 9.600 | 17.600 | 25.600 | 13.906 | 57.956 | 14.031 | 25.60 | 7.049 | 6.963 |
| 22.000 | 9.900 | 18.150 | 26.400 | 14.789 | 61.672 | 14.914 | 26.40 | 7.270 | 7.092 |
| 22.667 | 10.200 | 18.700 | 27.200 | 15.699 | 65.511 | 15.824 | 27.20 | 7.490 | 7.222 |
| 23.333 | 10.500 | 19.250 | 28.000 | 16.636 | 69.472 | 16.761 | 28.00 | 7.710 | 7.353 |
| 24.000 | 10.800 | 19.800 | 28.800 | 17.600 | 73.556 | 17.725 | 28.80 | 7.931 | 7.484 |
| 24.667 | 11.100 | 20.350 | 29.600 | 18.591 | 77.761 | 18.716 | 29.60 | 8.151 | 7.617 |
| 25.333 | 11.400 | 20.900 | 30.400 | 19.610 | 82.089 | 19.735 | 30.40 | 8.371 | 7.750 |
| 26.000 | 11.700 | 21.450 | 31.200 | 20.656 | 86.539 | 20.781 | 31.20 | 8.591 | 7.884 |
| 26.667 | 12.000 | 22.000 | 32.000 | 21.728 | 91.111 | 21.853 | 32.00 | 8.812 | 8.018 |
| 27.333 | 12.300 | 22.550 | 32.800 | 22.828 | 95.806 | 22.953 | 32.80 | 9.032 | 8.153 |
| 28.000 | 12.600 | 23.100 | 33.600 | 23.956 | 100.622 | 24.081 | 33.60 | 9.252 | 8.289 |
| 28.667 | 12.900 | 23.650 | 34.400 | 25.110 | 105.561 | 25.235 | 34.40 | 9.473 | 8.425 |
| 29.333 | 13.200 | 24.200 | 35.200 | 26.291 | 110.622 | 26.416 | 35.20 | 9.693 | 8.561 |
| 30.000 | 13.500 | 24.750 | 36.000 | 27.500 | 115.806 | 27.625 | 36.00 | 9.913 | 8.697 |
| 30.667 | 13.800 | 25.300 | 36.800 | 28.736 | 121.111 | 28.861 | 36.80 | 10.133 | 8.834 |
| 31.333 | 14.100 | 25.850 | 37.600 | 29.999 | 126.539 | 30.124 | 37.60 | 10.354 | 8.972 |
| 32.000 | 14.400 | 26.400 | 38.400 | 31.289 | 132.089 | 31.414 | 38.40 | 10.574 | 9.109 |
| 32.667 | 14.700 | 26.950 | 39.200 | 32.606 | 137.761 | 32.731 | 39.20 | 10.794 | 9.247 |
| 33.333 | 15.000 | 27.500 | 40.000 | 33.951 | 143.556 | 34.076 | 40.00 | 11.015 | 9.385 |
| 34.000 | 15.300 | 28.050 | 40.800 | 35.322 | 149.472 | 35.447 | 40.80 | 11.235 | 9.524 |
| 34.667 | 15.600 | 28.600 | 41.600 | 36.721 | 155.511 | 36.846 | 41.60 | 11.455 | 9.662 |
| 35.333 | 15.900 | 29.150 | 42.400 | 38.147 | 161.672 | 38.272 | 42.40 | 11.676 | 9.801 |
| 36.000 | 16.200 | 29.700 | 43.200 | 39.600 | 167.956 | 39.725 | 43.20 | 11.896 | 9.940 |
| 36.667 | 16.500 | 30.250 | 44.000 | 41.080 | 174.361 | 41.205 | 44.00 | 12.116 | 10.079 |
| 37.333 | 16.800 | 30.800 | 44.800 | 42.588 | 180.889 | 42.713 | 44.80 | 12.336 | 10.219 |
| 38.000 | 17.100 | 31.350 | 45.600 | 44.122 | 187.539 | 44.247 | 45.60 | 12.557 | 10.358 |
| 38.667 | 17.400 | 31.900 | 46.400 | 45.684 | 194.311 | 45.809 | 46.40 | 12.777 | 10.498 |
| 39.333 | 17.700 | 32.450 | 47.200 | 47.273 | 201.206 | 47.398 | 47.20 | 12.997 | 10.638 |
| 40.000 | 18.000 | 33.000 | 48.000 | 48.889 | 208.222 | 49.014 | 48.00 | 13.218 | 10.778 |

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

*** For example with reinforcement at each block: DH=16' requires 32.622 SY/LF woven geotextile corresponding to 7.822 CY/LF volume of MRS with Class 1 backfill paid separately

| | | | | | | | | | |
|---|---------------------------------------|-----------------|----------|---------------------------------------|---|---------------------|--------------------------------|---------------------------|------------------------|
| All seals for this set of drawings are applied to the cover page(s) | Print Date: \$DATE\$ | Sheet Revisions | | Colorado Department of Transportation | | As Constructed | TRUNCATED BASE BLOCK FACING | | Project No./Code |
| | File Name: Sheet_B-504-N2.dgn | Date: | Comments | Init. | 2829 West Howard Place, 3rd Floor Denver, CO 80204 Phone: 303-512-4079 FAX: 303-757-9197 | No Revisions: | GRS WALL FOR BACKSLOPE OR ROAD | | |
| | Horiz. Scale: Vert. Scale: As Noted | | | | | Revised: | Designer: XXXXXXXX | Structure: XXXXXXXXXXXXX | |
| | Unit Information Unit Leader Initials | | | | | Staff Bridge Branch | Void: | Detailer: XXXXXXXX | Numbers: XXXXXXXXXXXXX |
| | | | | | | | Sheet Subset: WALL | Subset Sheets: WXX of XXX | Sheet Number |