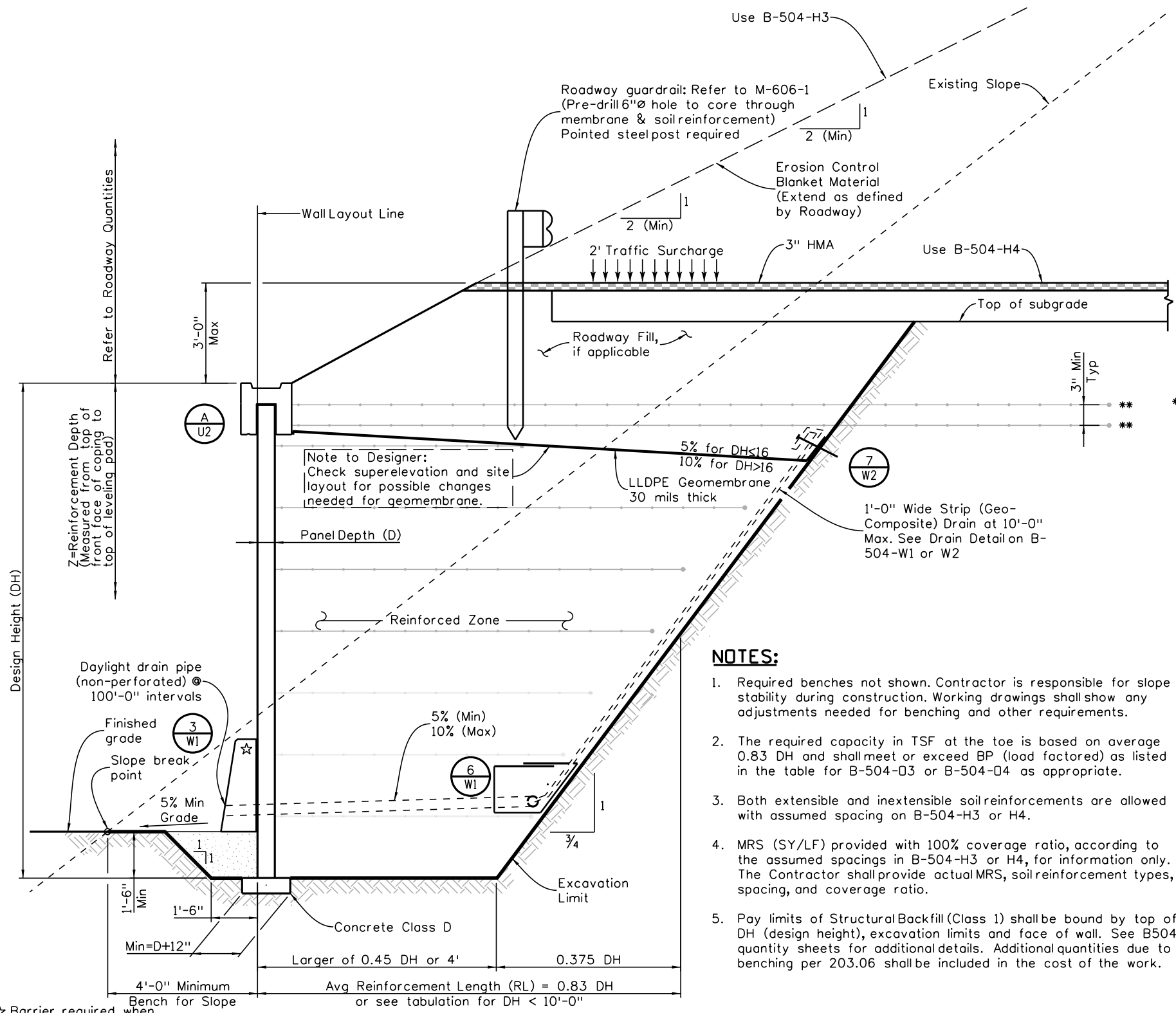


DETAILER: Remove or block out H3 or H4 column that does not match loading conditions

**B-504-F2**  
(This sheet must be accompanied with B-504-H3 or H4)

| DH (Ft) | RL**(Ft) |        |        | MRS (CY/LF) | MRS (SY/LF) | BMI (CY/LF) | PLG (Ft/LF) | H3 BP (TSF) | H4 BP (TSF) |
|---------|----------|--------|--------|-------------|-------------|-------------|-------------|-------------|-------------|
|         | (Min)    | (Avg)  | (Max)  |             |             |             |             |             |             |
| 2.000   | 4.000    | 4.750  | 5.500  | 0.352       | 2.444       | 0.477       | 5.50        | 0.431       | 0.965       |
| 2.667   | 4.000    | 5.000  | 6.000  | 0.494       | 3.222       | 0.619       | 6.00        | 0.556       | 1.149       |
| 3.333   | 4.000    | 5.250  | 6.500  | 0.648       | 3.472       | 0.773       | 6.50        | 0.697       | 1.347       |
| 4.000   | 4.000    | 5.500  | 7.000  | 0.815       | 4.333       | 0.940       | 7.00        | 0.858       | 1.576       |
| 4.667   | 4.000    | 5.750  | 7.500  | 0.994       | 4.611       | 1.119       | 7.50        | 1.040       | 1.848       |
| 5.333   | 4.000    | 6.000  | 8.000  | 1.185       | 4.889       | 1.310       | 8.00        | 1.245       | 2.170       |
| 6.000   | 4.000    | 6.250  | 8.500  | 1.389       | 5.167       | 1.514       | 8.50        | 1.476       | 2.549       |
| 6.667   | 4.000    | 6.500  | 9.000  | 1.605       | 6.167       | 1.730       | 9.00        | 1.915       | 2.998       |
| 7.333   | 4.000    | 6.750  | 9.500  | 1.833       | 6.472       | 1.958       | 9.50        | 2.241       | 3.534       |
| 8.000   | 4.000    | 7.000  | 10.000 | 2.074       | 6.778       | 2.199       | 10.00       | 2.908       | 4.179       |
| 8.667   | 4.000    | 7.250  | 10.500 | 2.327       | 7.083       | 2.452       | 10.50       | 3.385       | 4.967       |
| 9.333   | 4.200    | 7.700  | 11.200 | 2.662       | 8.400       | 2.787       | 11.20       | 3.578       | 5.252       |
| 10.000  | 4.500    | 8.250  | 12.000 | 3.056       | 9.000       | 3.181       | 12.00       | 3.625       | 5.258       |
| 10.667  | 4.800    | 8.800  | 12.800 | 3.477       | 9.600       | 3.602       | 12.80       | 3.688       | 5.291       |
| 11.333  | 5.100    | 9.350  | 13.600 | 3.925       | 10.200      | 4.050       | 13.60       | 3.765       | 5.344       |
| 12.000  | 5.400    | 9.900  | 14.400 | 4.400       | 11.900      | 4.525       | 14.40       | 3.965       | 5.411       |
| 12.667  | 5.700    | 10.450 | 15.200 | 4.902       | 12.561      | 5.027       | 15.20       | 4.186       | 5.490       |
| 13.333  | 6.000    | 11.000 | 16.000 | 5.432       | 13.222      | 5.557       | 16.00       | 4.406       | 5.577       |
| 14.000  | 6.300    | 11.550 | 16.800 | 5.989       | 15.167      | 6.114       | 16.80       | 4.626       | 5.673       |
| 14.667  | 6.600    | 12.100 | 17.600 | 6.573       | 15.889      | 6.698       | 17.60       | 4.846       | 5.774       |
| 15.333  | 6.900    | 12.650 | 18.400 | 7.184       | 16.611      | 7.309       | 18.40       | 5.067       | 5.880       |
| 16.000  | 7.200    | 13.200 | 19.200 | 7.822       | 18.800      | 7.947       | 19.20       | 5.287       | 5.990       |
| 16.667  | 7.500    | 13.750 | 20.000 | 8.488       | 19.583      | 8.613       | 20.00       | 5.507       | 6.104       |
| 17.333  | 7.800    | 14.300 | 20.800 | 9.180       | 20.367      | 9.305       | 20.80       | 5.728       | 6.220       |
| 18.000  | 8.100    | 14.850 | 21.600 | 9.900       | 22.800      | 10.025      | 21.60       | 5.948       | 6.339       |
| 18.667  | 8.400    | 15.400 | 22.400 | 10.647      | 23.644      | 10.772      | 22.40       | 6.168       | 6.461       |
| 19.333  | 8.700    | 15.950 | 23.200 | 11.421      | 24.489      | 11.546      | 23.20       | 6.389       | 6.584       |
| 20.000  | 9.000    | 16.500 | 24.000 | 12.222      | 27.167      | 12.347      | 24.00       | 6.609       | 6.709       |
| 20.667  | 9.300    | 17.050 | 24.800 | 13.051      | 28.072      | 13.176      | 24.80       | 6.829       | 6.835       |
| 21.333  | 9.600    | 17.600 | 25.600 | 13.906      | 28.978      | 14.031      | 25.60       | 7.049       | 6.963       |
| 22.000  | 9.900    | 18.150 | 26.400 | 14.789      | 31.900      | 14.914      | 26.40       | 7.270       | 7.092       |
| 22.667  | 10.200   | 18.700 | 27.200 | 15.699      | 32.867      | 15.824      | 27.20       | 7.490       | 7.222       |
| 23.333  | 10.500   | 19.250 | 28.000 | 16.636      | 33.833      | 16.761      | 28.00       | 7.710       | 7.353       |
| 24.000  | 10.800   | 19.800 | 28.800 | 17.600      | 37.000      | 17.725      | 28.80       | 7.931       | 7.484       |
| 24.667  | 11.100   | 20.350 | 29.600 | 18.591      | 38.028      | 18.716      | 29.60       | 8.151       | 7.617       |
| 25.333  | 11.400   | 20.900 | 30.400 | 19.610      | 39.056      | 19.735      | 30.40       | 8.371       | 7.750       |
| 26.000  | 11.700   | 21.450 | 31.200 | 20.656      | 42.467      | 20.781      | 31.20       | 8.591       | 7.884       |
| 26.667  | 12.000   | 22.000 | 32.000 | 21.728      | 43.556      | 21.853      | 32.00       | 8.812       | 8.018       |
| 27.333  | 12.300   | 22.550 | 32.800 | 22.828      | 44.644      | 22.953      | 32.80       | 9.032       | 8.153       |
| 28.000  | 12.600   | 23.100 | 33.600 | 23.956      | 48.300      | 24.081      | 33.60       | 9.252       | 8.289       |
| 28.667  | 12.900   | 23.650 | 34.400 | 25.110      | 49.450      | 25.235      | 34.40       | 9.473       | 8.425       |
| 29.333  | 13.200   | 24.200 | 35.200 | 26.291      | 53.289      | 26.416      | 35.20       | 9.693       | 8.561       |
| 30.000  | 13.500   | 24.750 | 36.000 | 27.500      | 54.500      | 27.625      | 36.00       | 9.913       | 8.697       |
| 30.667  | 13.800   | 25.300 | 36.800 | 28.736      | 58.522      | 28.861      | 36.80       | 10.133      | 8.834       |
| 31.333  | 14.100   | 25.850 | 37.600 | 29.999      | 59.794      | 30.124      | 37.60       | 10.354      | 8.972       |
| 32.000  | 14.400   | 26.400 | 38.400 | 31.289      | 64.000      | 31.414      | 38.40       | 10.574      | 9.109       |
| 32.667  | 14.700   | 26.950 | 39.200 | 32.606      | 65.333      | 32.731      | 39.20       | 10.794      | 9.247       |
| 33.333  | 15.000   | 27.500 | 40.000 | 33.951      | 69.722      | 34.076      | 40.00       | 11.015      | 9.385       |
| 34.000  | 15.300   | 28.050 | 40.800 | 35.322      | 71.117      | 35.447      | 40.80       | 11.235      | 9.524       |
| 34.667  | 15.600   | 28.600 | 41.600 | 36.721      | 75.689      | 36.846      | 41.60       | 11.455      | 9.662       |
| 35.333  | 15.900   | 29.150 | 42.400 | 38.147      | 77.144      | 38.272      | 42.40       | 11.676      | 9.801       |
| 36.000  | 16.200   | 29.700 | 43.200 | 39.600      | 81.900      | 39.725      | 43.20       | 11.896      | 9.940       |
| 36.667  | 16.500   | 30.250 | 44.000 | 41.080      | 86.778      | 41.205      | 44.00       | 12.116      | 10.079      |
| 37.333  | 16.800   | 30.800 | 44.800 | 42.588      | 91.778      | 42.713      | 44.80       | 12.336      | 10.219      |
| 38.000  | 17.100   | 31.350 | 45.600 | 44.122      | 96.900      | 44.247      | 45.60       | 12.557      | 10.358      |
| 38.667  | 17.400   | 31.900 | 46.400 | 45.684      | 102.144     | 45.809      | 46.40       | 12.777      | 10.498      |
| 39.333  | 17.700   | 32.450 | 47.200 | 47.273      | 107.511     | 47.398      | 47.20       | 12.997      | 10.638      |
| 40.000  | 18.000   | 33.000 | 48.000 | 48.889      | 113.000     | 49.014      | 48.00       | 13.218      | 10.778      |

\*\* RL for top two geotextile layers = 2 x RL (Max)(For roadway)  
RL=1xRL(Max) (For 2:1 Infinite Slope)  
\*\*\* For example spacing on B-504-H3: DH=16' requires 32.622 SY/LF geogrid corresponding to 7.822 CY/LF volume of MRS with Class 1 backfill paid separately



- 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 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-D3 or B-504-D4 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.

**SECTION VIEW**

|                |
|----------------|
| 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-F2.dgn         |
| Horiz. Scale: Vert. Scale: As Noted   |
| Unit Information Unit Leader Initials |

| Sheet Revisions |          |       |
|-----------------|----------|-------|
| Date:           | Comments | Init. |
|                 |          |       |
|                 |          |       |
|                 |          |       |

**Colorado Department of Transportation**

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**Staff Bridge Branch**      **Initials**

| As Constructed | TRUNCATED BASE PANEL FACING MSE WALL FOR BACKSLOPE OR ROADWAY WITH 3/4:1 SOIL EXCAVATION |                                  | Project No./Code |
|----------------|--|----------------------------------|------------------|
| No Revisions:  | Designer: XXXXXXXX   | Structure Numbers: XXXXXXXXXXXXX |                  |
| Revised:       | Detailer: XXXXXXXX   | Subset Sheets: WXX of XXX        |                  |
| Void:          | Sheet Subset: WALL   |                                  | Sheet Number     |