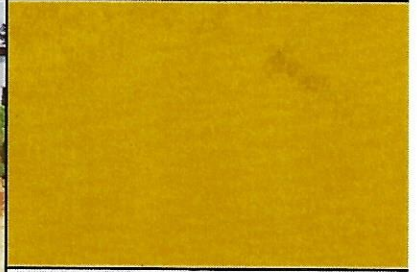


GRAVIX

DOT Precast Wall System



DESIGN INNOVATION:

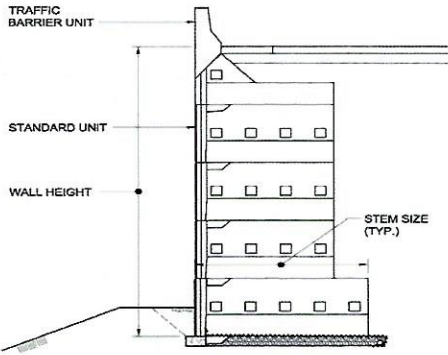
Gravix retaining wall system was created to meet the demand for minimal excavation requirements. Being a true gravity system, select fill is not required which allows structural soil fill or various stone / recycled materials to be used as backfill. At the same time, sustainability is important with the retaining wall system which means using materials that will not corrode or break down over time. Precast concrete has been well documented and proven to be one of the best means of obtaining the longest design life of buried structures. The Gravix traffic barrier unit provides a finished retaining wall with the barrier in place. Gravix has been tested and successfully passed the MASH TL-4 vehicle impact loading.



EARTH WALL PRODUCTS

Marietta, GA 30064 | PH 770.378.5012

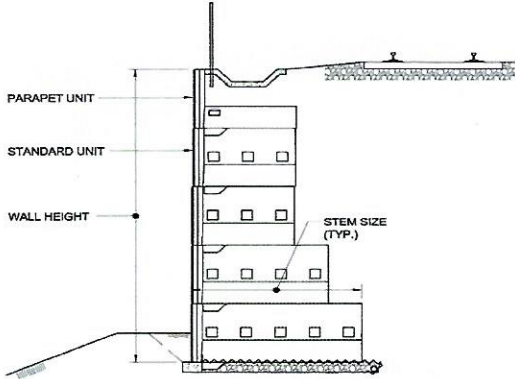
earthwallproducts.com



Roadway Surchage, Backfill Unit Weight $\gamma = 120$ PCF

| $\Phi = 30^\circ$ Soil Backfill | | | | | | | | | $\Phi = 36^\circ$ Gravel Backfill | | | | | | | | |
|---------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----------------------------------|----|----|-----|-----|-----|-----|-----|-----|
| Wall Height | TB | 8' | 10' | 12' | 14' | 16' | 18' | 20' | Wall Height | TB | 8' | 10' | 12' | 14' | 16' | 18' | 20' |
| 4.0' | 1 | | | | | | | | 4.0' | 1 | | | | | | | |
| 8.0' | 2 | | | | | | | | 8.0' | 2 | | | | | | | |
| 12.0' | 2 | 1 | | | | | | | 12.0' | 2 | 1 | | | | | | |
| 16.0' | 2 | 2 | | | | | | | 16.0' | 2 | 2 | | | | | | |
| 20.0' | 1 | 2 | 2 | | | | | | 20.0' | 2 | 3 | | | | | | |
| 24.0' | 1 | 2 | 1 | 2 | | | | | 24.0' | 2 | 3 | 1 | | | | | |
| 28.0' | 1 | 1 | 2 | 1 | 2 | | | | 28.0' | 2 | 2 | 2 | 1 | | | | |
| 32.0' | 1 | 1 | 1 | 2 | 1 | 2 | | | 32.0' | 2 | 2 | 2 | 1 | 1 | | | |
| 36.0' | 1 | 1 | 1 | 2 | 1 | 1 | 2 | | 36.0' | 2 | 2 | 2 | 1 | 1 | 1 | | |
| 40.0' | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 40.0' | 2 | 2 | 2 | 1 | 1 | 1 | 1 | |

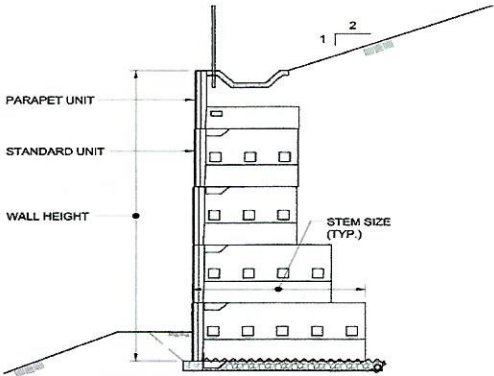
The soils effective friction angle and unit weight as outlined above is assumed to be used within, behind and beneath the retaining wall.



Train Load, Backfill Unit Weight $\gamma = 120$ PCF

| $\Phi = 30^\circ$ Soil Backfill | | | | | | | | | $\Phi = 36^\circ$ Gravel Backfill | | | | | | | | |
|---------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----------------------------------|----|----|-----|-----|-----|-----|-----|-----|
| Wall Height | TB | 8' | 10' | 12' | 14' | 16' | 18' | 20' | Wall Height | TB | 8' | 10' | 12' | 14' | 16' | 18' | 20' |
| 4.0' | 1 | | | | | | | | 4.0' | 1 | | | | | | | |
| 8.0' | 1 | 1 | | | | | | | 8.0' | 2 | | | | | | | |
| 12.0' | 2 | 1 | | | | | | | 12.0' | 2 | 1 | | | | | | |
| 16.0' | 2 | 1 | 1 | | | | | | 16.0' | 2 | 2 | | | | | | |
| 20.0' | 2 | 1 | 1 | 1 | | | | | 20.0' | 2 | 2 | 1 | | | | | |
| 24.0' | 1 | 1 | 1 | 1 | 1 | | | | 24.0' | 2 | 2 | 1 | 1 | | | | |
| 28.0' | 1 | 1 | 1 | 1 | 1 | 1 | | | 28.0' | 2 | 2 | 1 | 1 | 1 | | | |
| 32.0' | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 32.0' | 2 | 2 | 1 | 1 | 1 | 1 | | |
| 36.0' | NA | | | | | | | | 36.0' | 2 | 2 | 1 | 1 | 1 | 1 | 1 | |
| 40.0' | NA | | | | | | | | 40.0' | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

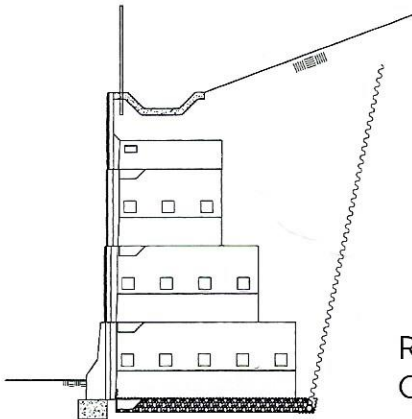
The soils effective friction angle and unit weight as outlined above is assumed to be used within, behind and beneath the retaining wall.



2:1 Backslope, Backfill Unit Weight $\gamma = 120$ PCF

| $\Phi = 30^\circ$ Soil Backfill | | | | | | | | | $\Phi = 36^\circ$ Gravel Backfill | | | | | | | | |
|---------------------------------|------|----|-----|-----|-----|-----|-----|-----|-----------------------------------|------|----|-----|-----|-----|-----|-----|-----|
| Wall Height | P/6' | 8' | 10' | 12' | 14' | 16' | 18' | 20' | Wall Height | P/6' | 8' | 10' | 12' | 14' | 16' | 18' | 20' |
| 4.0' | 1 | | | | | | | | 4.0' | 1 | | | | | | | |
| 8.0' | 2 | | | | | | | | 8.0' | 2 | | | | | | | |
| 12.0' | 1 | 2 | | | | | | | 12.0' | 2 | 1 | | | | | | |
| 16.0' | 1 | 1 | 1 | 1 | | | | | 16.0' | 2 | 2 | | | | | | |
| 20.0' | 1 | 1 | 1 | 1 | 1 | | | | 20.0' | 2 | 3 | | | | | | |
| 24.0' | 1 | 1 | 0 | 1 | 1 | 2 | | | 24.0' | 2 | 2 | 1 | 1 | | | | |
| 28.0' | 1 | 1 | 1 | 1 | 0 | 1 | 1 | | 28.0' | 1 | 2 | 1 | 2 | 1 | | | |
| 32.0' | NA | | | | | | | | 32.0' | 1 | 2 | 1 | 1 | 2 | 1 | | |
| 36.0' | NA | | | | | | | | 36.0' | 1 | 2 | 1 | 1 | 1 | 1 | 2 | |
| 40.0' | NA | | | | | | | | 40.0' | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 |

The soils effective friction angle and unit weight as outlined above is assumed to be used within, behind and beneath the retaining wall.



Roadside Barrier Face
Option Available

The information contained herein has been compiled by Earth Wall Products, LLC and to the best of our knowledge, accurately represents the Gravix product use in the applications which are illustrated. Final determination of the suitability for the use contemplated and its manner of use are the sole responsibility of the user. Final structural design and analysis shall be performed by a qualified engineer.

For assistance with stamped final designs by a professional engineer call 770.378.5012.