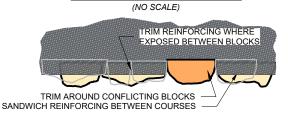


TRIM AROUND CONFLICTING BLOCKS



CONNECTION PLAN

(NO SCALE)

- Block sizes and placement shown are for reference only. Individual Rosetta blocks will vary with installation pattern.
- This drawing is for reference only.
- Many jurisdictions require permits, and designs prepared by a licensed professional engineer, for construction of walls over 4 feet tall. Check with your local building official for requirements at your project location.
- Final designs for construction must be prepared by a registered Professional Engineer using the actual conditions of the proposed site.
- Final wall design must address both internal and external drainage and global stability and shall be evaluated by the Professional Engineer who is responsible for the wall design.

Geosynthetic reinforced soil (GRS) is a retaining wall methodology that utilizes closely-spaced reinforcement in high-quality backfill to create inherently internally-stable composite structures. This detail demonstrates the concept for use with variable-height Rosetta Outcropping blocks, and is based on the guidance provided by the FHWA's Design and Construction Guidelines for Geosynthetic Reinforced Soil Abutments and Integrated Bridge Systems (FHWA-HRT-17-080, June 2018).

Notes:

- 1) Use well-graded backfill containing 100% crushed, hard, durable particles of natural stone or gravel with a maximum aggregate size of 0.5 to 2 inches and less than 12 percent passing the No. 200 sieve. Coefficient of uniformity should be between 1 and 3, and coefficient of curvature less than or equal to 6. Friction angle should be at least 38 degrees. Dense-graded road base material of many transportation agencies will meet these requirements.
- 2) Open-graded backfill should be clean, hard, durable, crushed, angular particles of natural stone or gravel with a maximum particle size of 2 inches and a minimum particle size of 0.5 inches. No more than 5% should pass the No. 50 sieve. The friction angle should be at least 38 degrees. AASHTO No. 89 to No. 5 aggregates meet these requirements.
- Open-graded backfill is recommended when the wall is located in a flood zone, or for other situations in which water is a concern.
- 4) Geosynthetic reinforcement for GRS walls has traditionally been woven polypropylene with a minimum average roll value (MARV) strength of at least 4,800 lbs/ft. Confirm strength following FHWA-HRT-17-080, Chapter 4.
- 5) Reinforced soil foundation can consist of well-graded or open-graded backfill (defined above), wrapped with woven geotextile. Place geosynthetic reinforcing layers within foundation at vertical intervals of no more than 9 inches.

DRAWN BY: N. Lindwall	ROSETTA OUTCROPPING
APPROVED BY:	ROSETTA OUTCROFFING
J. Johnson	GEOSYNTHETIC REINFORCED SOIL (GRS)
DATE:	TYPICAL SECTION
May 1, 2020	THIOAL GLOTION
SHEET NO.:	DRAWING FILE:
1 of 1	Outcropping GRS 050120.dwg

