

**TRIAD MINING COAL MINE  
SPURGEON, IN, INDIANA, U.S.A.****Reinforced Soil Walls and Slope Reinforcement****Problem**

Triad Mining's growing coal mining field was expanding their plant in Indiana to include a Coal Mine Dual Hopper System. A wall was needed in order to support the loads of coal-filled trucks going up the hill to dump the coal into the hoppers. The trucks being used were Caterpillar 777D, an off-highway truck weighing 355,000 pounds. A wall that could hold a truck of this weight with a full load of coal was needed.

**Solution**

Maccaferri designed a wall using the HITEC evaluated Terramesh® System because of its longevity and its ability to meet the design requirements of the project. The maximum height of the wall was 55 feet.

Triad was able to use on-site materials such as shale for the backfill, which eliminated the need to bring new material in, saving them time and money.

With the on-site assistance of Maccaferri, Triad was able to utilize their own crew to construct the wall. Maccaferri provided training to the crew, which had no experience in this type of building application. The crew now has the experience and knowledge to construct future applications of this type.

Construction of the wall started early in the morning and continued into the evening hours, using lights when it became dark. The crew consisted of approximately 5 workers and they were able to complete the construction in time to begin using the facility in May of 2012

**Client:** TRIAD MINING, INC.**Designer / Consultant:** MACCAFERRI, INC.**Contractor:** TRIAD MINING, INC.**Products used (Qty.)**

- Terramesh 55 Feet

**Date of construction:** 08/2011 - 09/2012

Site Excavation



Geogrid Installation



First row of Terramesh®



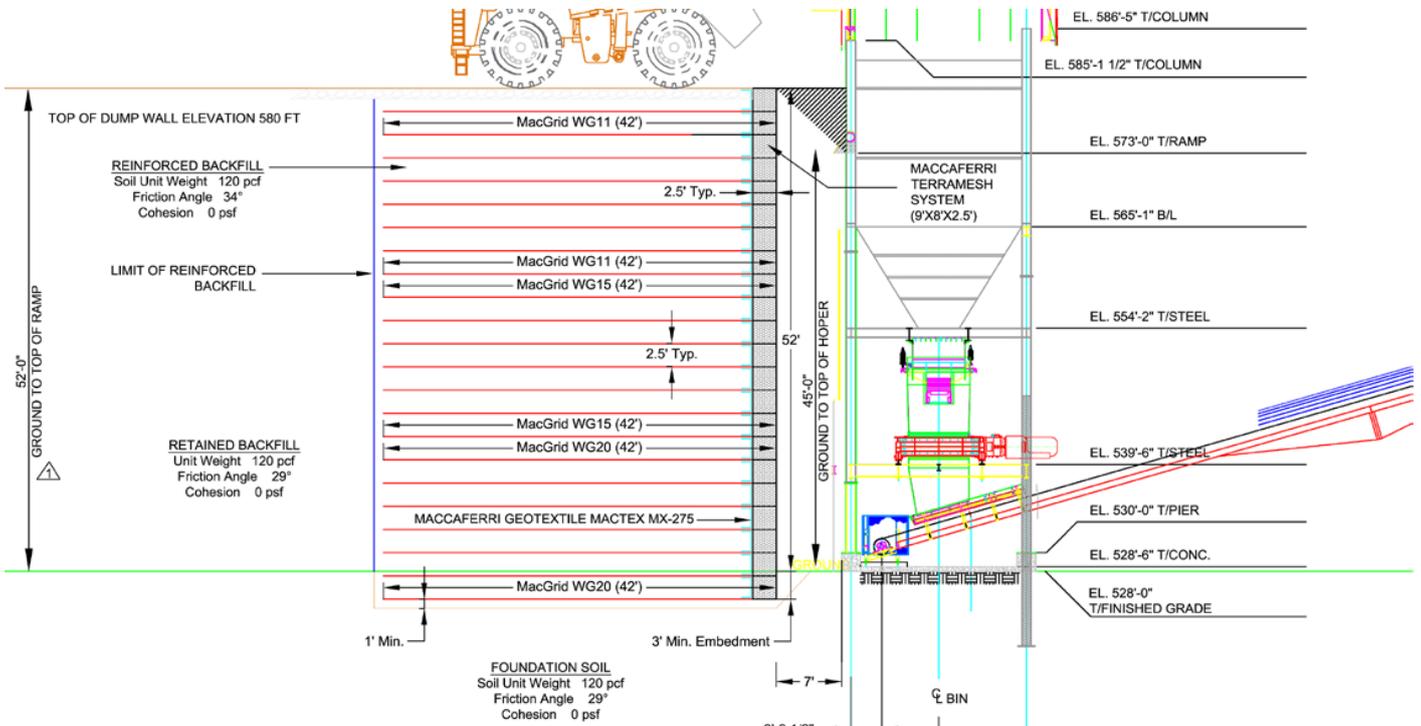
Installation of Dual Hoppers



Mid-Way Point of Construction



Final Touches



## Cross Section of Design

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