## Section 255. — Mechanically-Stabilized Earth Walls

08/01/14– FP-14

WFL Specification 08/01/14

Include the following when work is required under this Section.

Material

### 255.02

Add the following to the material list:

Gabions 253

Construction Requirements

### 255.05 Backfilling.

Add the following:

Place granular backfill closely following erection of each course of reinforcing fabric and gabion baskets. Prior to backfilling, place geotextile fabric on the back of the gabion basket. Place a minimum of 6 inches (150 millimeters) of uncompacted backfill material over the reinforcement fabric before any rubber-tire equipment is permitted to operate above the fabric. Place a minimum of 10 inches (250 millimeters) of uncompacted backfill material over the reinforcement fabric before any track-mounted equipment is permitted to operate above the fabric. Compact each layer according to Subsection 204.11.

### 255.06 Acceptance.

Delete Table 255-2 and substitute the following:

Table 255-2

Sampling, Testing, and Acceptance Requirements

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Remarks |  | Not required when using Government- provided source | “ | " | " | " | " | " | " | " |
| Reporting Time |  | Before using in work | “ | " | " | " | " | " | " | " |
| Split Sample |  | Yes | “ | " | " | " | " | " | " | " |
| Point of Sampling |  | Source of material | “ | " | " | " | " | " | " | " |
| Sampling Frequency |  | 1 per soil type | “ | " | " | " | " | " | " | " |
| Test Methods Specifications | **Source** | AASHTO T 27 & T 11 | AASHTO T 96 | AASHTO T 236 and Subsection 704.08(a)(2) | AASHTO T 104 | AASHTO R 58, T 89, & T 90 | AASHTO T 288 | AASHTO T 289 | AASHTO T 290 | AASHTO T 291 |
| Category |  | − | − | − | − | − | − | − |  | − |
| Characteristic |  | Gradation | LA abrasion | Angle of internal friction | Soundness using sodium sulfate | Plasticity index | Resistivity(1) | pH(1)(2) | Sulfate content(1)(3) | Chloride content(1)(3) |
| Type of Acceptance (Subsection) |  | Measured and tested for conformance (106.04 & 105) |  |  |  |  |  |  |  |  |
| Material or Product (Subsection) |  | Select granular backfill -704.08 |  |  |  |  |  |  |  |  |

(1) Required for MSE walls with metallic reinforcements.

(2) Required for MSE walls with geosynthetic reinforcements.

(3) Tests for sulfate and chloride content are not required when resistivity is greater than 5000 ohm centimeters.

(4) Minimum of 5 points per proctor.

Table 255-2 (continued)

Sampling, Testing, and Acceptance Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| Remarks |  | − | − |
| Reporting Time |  | Before using in work | Before placing next layer |
| Split Sample |  | Yes | No |
| Point of Sampling |  | Source of material | In-place |
| Sampling Frequency |  | 1 per soil type | 2 per lift |
| Test Methods Specifications | **Production** | AASHTO T 99, Method C(4) | AASHTO T 310 or other approved procedures |
| Category |  | − | − |
| Characteristic |  | Moisture- density | Density |
| Type of Acceptance (Subsection) |  | Measured and tested for conformance (106.04) | |
| Material or Product (Subsection) |  | Select granular backfill (704.08) | |