**SOIL-CEMENT BASE (FULL DEPTH RECLAMATION):**

|  |  |  |
| --- | --- | --- |
| (11-19-13) | 542 | SP5 R20 |

Revise the *2018* *Standard Specifications* as follows:

**Page 5-19, Article 542-1 DESCRIPTION, line 25**, add “existing asphalt pavement,” after “treating the”.

**Page 5-19, Article 542-1 DESCRIPTION**, add the following:

Define “full depth reclamation” (FDR) as a type of soil-cement base that includes treating the existing flexible pavement section consisting of asphalt pavement and base course.

**Page 5-20, Subarticle 542-4(E) Compaction Equipment**, add the following:

Use vibratory sheepsfoot, vibratory smooth drum and pneumatic tire rollers for FDR.

**Page 5-20, Article 542-4 EQUIPMENT**, add the following:

**(G) FDR Equipment**

An asphalt reclaimer and motor grader equipped with a cross slope indicator are required for FDR. Use a self-propelled reclaimer with at least 400 horsepower (hp), a cutter depth of at least 12", a cutter width of at least 8 ft and a metered water additive system with a full width spray bar. Use a water truck with flow rate control to add water directly to the asphalt reclaimer. Submit details of the FDR equipment to the Engineer for acceptance at least 5 days before mobilizing equipment to the site.

**Page 5-21, Article 542-6 SCARIFYING**, add the following:

For FDR, pulverize existing asphalt pavement with an asphalt reclaimer to the required depth and maintain moisture content at or below optimum as determined by the Engineer.

**Page 5-21, Article 542-7 APPLICATION OF CEMENT, lines 25-27**, delete the first two sentences of the sixth paragraph and replace with the following:

Apply cement to sections sized so soil-cement base is completed within the traffic control requirements. Complete finishing soil-cement base within 4 hours of adding water to the soil-cement mix except complete FDR within 3 hours of pulverizing existing asphalt pavement. If a road remains open for FDR, pulverize pavement in sections sized so FDR is completed within the same working day.

**Page 5-21, Article 542-8 MIXING, line 32**, add “Except for FDR, ” before “Mixing will” and the following:

Mixing will be sufficient for FDR when 100% of the mixture passes a 2" sieve and at least 50% passes a No. 4 sieve, exclusive of any aggregate.

**Page 5-21, Article 542-8 MIXING, line 35**, add “Except for FDR and ” before “Immediately after” and the following:

During final mixing and compaction for FDR, maintain moisture content between optimum and optimum plus 1.5% as determined by the Engineer.

**Page 5-22, Article 542-12 CURING, line 28**, add “Except for FDR and ” before “After the”.

**Page 5-23, Article 542-16 Measurement and Payment, add the following pay item:**

 **Pay Item**

*Soil Cement Base (Full Depth Reclamation)* Square Yard