

1 **542-15 MAINTENANCE**

2 Maintain the soil-cement base in an acceptable condition until final acceptance of the project.
 3 Include, in maintenance operations, immediate repair of any defects or damage that may
 4 occur. Repeat as often as may be necessary to keep the base in an acceptable condition.
 5 Perform repairs to the base by replacing the base for its full depth rather than by adding a thin
 6 layer of soil-cement mixture to the existing layer of base.

7 **542-16 MEASUREMENT AND PAYMENT**

8 *Soil Cement Base* will be measured and paid at the contract unit price per square yard that has
 9 been completed and accepted. In measuring this quantity, the width of the base will be
 10 measured across the top surface of the base. The length will be the actual length constructed,
 11 measured along the centerline of the surface of the base. Measurement will not be made
 12 of any base added or replaced for corrective measures during construction or for repairing
 13 damaged areas.

14 *Aggregate for Soil Cement Base* will be measured and paid in tons at the contract unit price
 15 per ton. The aggregate will be measured by weighing in trucks or certified platform scales or
 16 other certified weighing devices. No deductions will be made for any moisture contained in
 17 the aggregate at the time of weighing.

18 *Portland Cement for Soil Cement Base* will be paid at the contract unit price per ton that has
 19 been incorporated into the mix. When bulk cement is used, the quantity will be measured by
 20 weighing in trucks on certified platform scales or other certified weighing devices.
 21 Measurement will not be made of any cement added or replaced for corrective measures
 22 during construction or for repairing damaged areas.

23 *Asphalt curing seal* will be paid as provided in Article 543-5.

24 *Blotting Sand* will be paid as provided in Article 818-4.

25 If a layer of soil-cement base is deficient in thickness but has been permitted to be left in
 26 place in accordance with Article 542-11, payment for that soil-cement base will be made at
 27 50% of the contract unit prices for *Soil Cement Base*.

28 Sand seal applied due to the failure of the Contractor to cover the soil-cement base as required
 29 will be incidental to the work of this section. If the Contractor fails to provide sand seal as
 30 required and the Engineer has the work performed by other forces, the cost of such work will
 31 be deducted from monies due or to become due to the Contractor.

32 Payment will be made under:

Pay Item	Pay Unit
Soil Cement Base	Square Yard
Portland Cement for Soil Cement Base	Ton
Aggregate for Soil Cement Base	Ton

33

SECTION 543

34

ASPHALT CURING SEAL35 **543-1 DESCRIPTION**

36 Perform the work covered by this section including, but not limited to, keeping the stabilized
 37 layer moist; furnishing and applying the asphalt curing seal; correcting, maintaining and
 38 repairing the asphalt curing seal; and blotting sand where directed, to either a chemically
 39 stabilized soil layer or to a cement-stabilized base course.

Section 543

1 **543-2 MATERIALS**

2 Refer to Division 10.

Item	Section
Asphalt, Grade CRS-1	1020-3
Asphalt, Grade CRS-1H	1020-3
Asphalt, Grade CRS-2	1020-3
Asphalt, Grade RS-1	1020-3
Asphalt, Grade RS-1H	1020-3

3 **543-3 EQUIPMENT**

4 Use equipment to apply the asphalt material in accordance with Article 600-5.

5 Use equipment to apply water, curing seal and blotting sand that is of such type and weight
6 that it will not damage the completed stabilized layer.

7 **543-4 CONSTRUCTION METHODS**

8 Continuously moisten the finished stabilized layer or base course until the asphalt curing seal
9 is placed. Place the curing seal as soon as possible, but no later than 24 hours after
10 completing finishing operations except where delayed by wet weather. If wet weather delays
11 application of the curing seal, apply the curing seal as soon as the surface becomes
12 sufficiently dry.

13 At the time the asphalt curing seal is applied, prepare the surface of the stabilized layer or
14 base so that it is free of all loose or extraneous material and contains sufficient moisture to
15 prevent excessive penetration of the asphalt material. If deemed necessary, sweep the base
16 surface clean of loose material before applying the curing seal. Apply the curing seal in
17 accordance with Section 600.

18 Apply the asphalt material to the surface of the completed stabilized layer or base at a target
19 rate of 0.14 +/- 0.04 gal/sy with approved equipment. Apply the asphalt material at the exact
20 rate and temperature of application as established by the Engineer.

21 Cure the underlying materials for 7 curing days. Curing time will be counted in at least
22 1/2 day units and only when the air temperature measured at the location of the operation is at
23 least 50°F. Complete the curing before placement of subsequent layers of pavement.

24 Maintain the curing material during the curing period so that all of the stabilized layer or base
25 will be covered effectively during the period. Provide sufficient protection from freezing to
26 the stabilized layer or base during the entire curing period and until it has hardened. Replace
27 excessive loss of curing seal caused by heavy rains within 8 hours of placement.

28 If the Engineer determines that it is necessary to allow local traffic to use parts of the
29 stabilized layer or base before the asphalt material has cured sufficiently, protect those areas
30 by applying blotting sand in accordance with Section 818.

31 **543-5 MEASUREMENT AND PAYMENT**

32 *Asphalt Curing Seal* will be measured and paid at the contract unit price per gallon that has
33 been placed on the stabilized layer or base. Seal material placed on the stabilized layer or
34 base in excess of the authorized rate plus 0.02 gal/sy will not be measured for payment.
35 Measurement will not be made of any curing seal used to replace curing seal lost by heavy
36 rains which occur after placing the curing seal.

37 *Blotting Sand* will be paid as provided for in Article 818-4.

38 Payment will be made under:

Pay Item	Pay Unit
Asphalt Curing Seal	Gallon