**SHOULDER RECONSTRUCTION PER SHOULDER MILE:**

|  |  |  |
| --- | --- | --- |
| (1-18-00) (Rev. 1-17-23) | 560, 1019 | SP1 R07R |

**Description**

The work covered by this provision consists of clipping high shoulders and reconstructing the earth shoulder in accordance with Standard Drawing No. 560.01 and 560.02 of the *Roadway Standard Drawings* with the following exceptions: the width will be shown on typical sections, or to the existing shoulder point, whichever is nearer, as long as the desired typical is achieved. Seeding and mulching shall be performed upon completion of shoulder grading when earth borrow is used.

This work shall be performed immediately after the resurfacing operations are complete as directed by the Engineer.

**Materials**

The Contractor shall furnish all earth material necessary for the construction of the shoulders in accordance with Section 1019 of the *Standard Specifications*. All soil is subject to test and acceptance or rejection by the Engineer.

The Contractor **is required to use Aggregate Shoulder Borrow (ASB) on all maps with shoulder reconstruction with the exception of areas considered residential lawns, where borrow excavation is needed. Borrow excavation shall be used in lieu of ASB if directed by the contract or Engineer.**

ASB shall meet the following gradation:

|  |  |
| --- | --- |
| Sieve | Percent Passing |
| 1 1/2" | 100 |
| 1/2" | 55 - 95 |
| #4 | 35 - 74 |

**Construction Methods**

Obtain material from within the project limits or approved source. Prior to adding ASB material, the existing shoulder shall be scarified to provide the proper bond and shall be compacted to the satisfaction of the Engineer.

Any excess material generated by the shoulder reconstruction shall be disposed of by the Contractor in an approved disposal site.

**Measurement and Payment**

*Shoulder Reconstruction* will be measured and paid as the actual number of miles of shoulders that have been reconstructed and accepted by the Engineer. Measurement will be made along the surface of each shoulder to the nearest 0.01 of a mile. Such price will include disposing of any excess material in an approved disposal site, and for all labor, tools, equipment, and incidentals necessary to complete the work.

*Aggregate Shoulder Borrow* will be measured and paid at the contract unit price per ton that has been incorporated into the completed work that is accepted by the Engineer. The number of tons of material is determined by weighing the material in trucks in accordance with Article 106-7. No deductions will be made for any moisture contained in the aggregate at time of weighing.

*Borrow Excavation* will be measured and paid in accordance with Section 230 of the *Standard Specifications* for earth material furnished by the Contractor. The requirements of Article 104-5 of the *Standard Specifications* pertaining to revised contract prices for overrunning minor items will not apply to the item of *Borrow Excavation*.

*Incidental Stone Base* will be measured and paid as provided in Article 545-6 of the *Standard Specifications*. Where ASB is used, *Incidental Stone Base* will not be required.

*Seeding and Mulching* will be measured and paid as provided in Article 1660-8 of the *Standard Specifications*.

Where ASB is used, seeding and mulching will not be required.

Payment will be made under:

|  |  |
| --- | --- |
| **Pay Item** | **Pay Unit** |
| Shoulder Reconstruction | Shoulder Mile |
| Aggregate Shoulder Borrow | Ton |