

- 1 (4) When material is to be used for placing embankments or backfilling of undercut  
2 areas that are excessively wet, the material shall consist of Class II, III or IV select  
3 material.

4 **SECTION 1019**  
5 **SHOULDER AND SLOPE MATERIAL**

6 **1019-1 GENERAL**

7 Use shoulder and slope material to construct shoulders and plate slopes with materials capable  
8 of supporting vegetation. Material that contains roots, root mats, stumps or other  
9 unsatisfactory material will not be acceptable.

10 **1019-2 SHOULDER AND SLOPE BORROW**

11 Use borrow sources in accordance with Article 1018-2.

12 Use soil consisting of loose, friable, sandy material with a PI greater than 6 and less than 25  
13 and a pH ranging from 5.5 to 6.8. Remove stones and other foreign material 2" or larger in  
14 diameter.

15 Use approved material obtained from unclassified excavation, fine grading operations or  
16 borrow sources as provided in Section 230.

17 **1019-3 AGGREGATE SHOULDER BORROW**

18 Use aggregate shoulder borrow (ASB) that meets the following gradation in Table 1019-1.

<b>TABLE 1019-1</b>	
<b>GRADATION OF AGGREGATE SHOULDER BORROW</b>	
<b>Sieve</b>	<b>Percentage Passing</b>
1 1/2"	100
1/2"	55-95
#4	35-74

19 **SECTION 1020**  
20 **ASPHALT MATERIALS**

21 **1020-1 DELIVERY AND ACCEPTANCE OF ASPHALT MATERIALS**

22 Asphalt materials are accepted at the source of shipment subject to the conditions herein.

23 All asphalt transport tankers, including rail and truck tankers, shall have a sampling valve in  
24 accordance with Asphalt Institute Publication MS-18, ASTM D140 or a comparable device  
25 acceptable to the Engineer.

26 Each transport tanker delivering asphalt materials to the project or rail siding shall keep  
27 a running log showing the date, destination and type and grade of material hauled on each  
28 trip. Print, stamp, or write in ink information appearing in the log and have available for  
29 examination upon request.

30 Furnish with each shipment 2 copies of a delivery ticket. Ensure both copies accompany the  
31 shipment and are delivered to the Engineer or his representative at the destination. The  
32 delivery ticket shall contain the following information:

- 33 (A) Name of Producer/Supplier and location  
34 (B) A statement that the material has been tested and meets AASHTO specifications or is  
35 being provided by an approved supplier under Approved Supplier Certification (ASC)  
36 (C) The grade of the material  
37 (D) If applicable, the rotational viscosity in Pascal-Seconds (Pa-S) at 135°C and 165°C  
38 (E) If applicable, the recommended laboratory mixing and compaction temperature (°C for  
39 the PGAB)