SECTION 1016 SELECT MATERIALS

3 1016-1 DESCRIPTION

- 4 Select material is suitable material classified by gradation and performance characteristics as
- 5 shown in this section. Use select material called for on the contract.

6 1016-2 USES

7 Select material may be specified for use in:

Subgrade Slope and shoulder embankment
Backfill in undercut Rock embankment in open water
Core material Material placement over fabric

Foundation conditioning Pipe backfill

- 8 With written approval and without additional compensation, a higher class of material may be
- 9 substituted than stated in the contract.

10 1016-3 CLASSIFICATIONS

11 CLASS I

- 12 Class I select material is silty or clayey soil material meeting AASHTO M 145 for soil
- classification A-4. Soil materials which meet AASHTO M 145 for soil classifications A-2,
- A-5, A-6 and A-7 are acceptable provided such materials do not have a LL greater than 50,
- nor a PI of less than 7 or greater than 20.

16 CLASS II

17 Type 1 Select Material

18 Type 1 select material is a fine aggregate material consisting of crushed stone screenings

19 (washed or unwashed) meeting the gradation in Table 1016-1.

TABLE 1016-1 GRADATION FOR CLASS II, TYPE 1 SELECT MATERIAL	
Sieve	Percent Passing
3/8"	100
No. 4	80 - 100
No. 10	65 - 95
No. 40	25 - 55
No. 200	0 - 20
LL	≤ 30
PI	≤6

20 Type 2 Select Material

- 21 Type 2 select material is a granular soil material meeting AASHTO M 145 for soil
- classifications A-2-4 with a maximum PI of 6 and A-4 soil containing 45% maximum passing
- a No. 200 sieve and a maximum PI of 6.
- When a type is not specified, either type may be used, but no additional compensation will be
- 25 made.

26 CLASS III

27 Type 1 Select Material

- 28 Type 1 select material is a natural or manufactured fine aggregate material meeting the
- 29 gradation requirements of standard size 2S or 2MS in Table 1005-2 as described in
- 30 Sections 1005 and 1006.

1 Type 2 Select Material

- 2 Type 2 select material is a granular soil material meeting AASHTO M 145 for soil
- 3 classification A-1 or A-3.

4 Type 3 Select Material

- 5 Type 3 select material is a natural or manufactured fine aggregate material meeting the
- 6 following gradation requirements and as described in Sections 1005 and 1006.

TABLE 1016-2 GRADATION FOR CLASS III, TYPE 3 SELECT MATERIAL	
Sieve	Percent Passing
3/8"	100
No. 4	95 - 100
No. 8	65 - 100
No. 16	35 - 95
No. 30	15 - 75
No. 50	5 - 50
No. 100	0 - 25
No. 200	0 - 8

- When a type is not specified, Type 1, Type 2 or Type 3 may be used, but no additional
- 8 compensation will be made.

9 CLASS IV

- 10 Select material is a coarse aggregate material meeting the gradation requirements of standard
- size ABC as described in Section 1010.

12 CLASS V

- 13 Select material is a coarse aggregate material meeting the gradation requirements of standard
- size 78M in Table 1005-1 as described in Sections 1005 and 1006.

15 CLASS VI

- Select material is a coarse aggregate material meeting the gradation requirements of standard
- size 57 in Table 1005-1 as described in Sections 1005 and 1006.

18 CLASS VII

- 19 Select material is clean, unweathered durable, blasted rock material. While no specific
- 20 gradation is required, the below criteria will be used to evaluate the materials for visual
- 21 acceptance by the Engineer.
- 22 (A) At least 50% of the rock has a diameter of from 1.5 feet to 3 feet,
- 23 **(B)** 30% of the rock ranges in size from 2 inches to 1.5 feet in diameter, and
- 24 **(C)** Not more than 20% of the rock is less than 2 inches in diameter. No rippable rock will be permitted.

26 SECTION 1018 27 BORROW MATERIAL

28 **1018-1 GENERAL**

- 29 Borrow material is used for embankments, backfill or other intended uses. Material that
- 30 contains roots, root mats, stumps or other unsatisfactory material will not be acceptable.