

5300100 Riprap  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Powell, Jr., Rudy

Comments: (9-18-12)

Why is bedding stone and filter fabric always needed?

Response: Filter fabric keeps the fines below the fabric, we wouldn't want washout under the rubble. The structures detailing manual exhibit states filter fabric shall always be used and provides splice length.

Bedding stone protects the fabric from puncture due to construction dropping large pieces of rubble on the fabric. Wholly fabric does not keep fines in behind the fabric. Districts stated there were issues where bedding stone was not used and caused issues so we would rather bedding stone not being used become the exception rather than the rule. No Change Made.

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Castellanos, Juan

Comments: (9-18-12)

When the plans do not call for bedding stone, how thick shall it be?

Response: One foot as detailed in the Structures Detailing Manual. 1ft. – has been revised.  
Change Made.

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Shoucair, John

Comments: (9-21-12)

The second to last word “all” will require fabric under sand-cement bags which are considered Riprap in this Section. Is that the intent?

Response: No. Sand cement is defined separately from rubble and our change states for rubble riprap to have filter fabric. Added the word rubble in last sentence.

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Cheryl Hudson  
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Comments: (10-1-12)

If you want the fabric under the bedding stones which are under the rip-rap, suggest addition of bedding stones to the last sentence. Place Type D-2 geotextile filter fabric, meeting the requirements shown on Design Standards Index No. 199, under all bedding stone and rubble riprap.

Response: Sentence revised.

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Ochoa, Fred

Comments: (10-2-12) I have the following questions/comments on the proposed change:

1. When the bedding stone is not indicated on the Contract Plans or Design Standards:

- a. What thickness is to be provided by the contractor to comply with the Specification?
- b. Is the bedding stone thickness in addition to the rubble riprap thickness or do the two add to the thickness of the rubble riprap shown on the plans/standard?
- c. Is the bedding stone thickness inset into the existing ground or does it raise the level of the finished rubble riprap surface?

Why is the type of geotextile fabric addressed in 530-1? Is it not better to address it in 530-2.1(5)?

Response: a. 1ft. – has been revised.  
b. the bedding stone thickness is separate from the riprap thickness.  
c. depends if riprap is buried or not. Revetment is detailed in the plans, see BHRS sheet or slope protection details in the plans. (note structures is revising their details to also ensure that bedding stone is detailed.

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Debbie Toole

Comments: (10-2-12)

I suggest changing the last two sentences to the following: Place Type D-2 geotextile filter fabric meeting the requirements of Design Standards, Index No. 199, and bedding stone under all riprap.

Response: Agreed. Sentence revised as requested.

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Woerner, Bert

Comments: (10-25-12)

From the changes provided it is difficult to tell if the D-2 specified fabric is under the bedding stone or under the riprap. I would assume under the bedding stone with the rip rap resting on top of the bedding stone to better prevent tears, but the wording is confusing.

Response: Sentence changed.

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