

4520400 PRECAST SEGMENTAL BRIDGE CONSTRUCTION  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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David OHagan

Comment: (11-22-10, Internal)

1. 452-4.2.1 (3) implies that all segments need to be detailed. Is this what is intended? Would be clearer to state, "Typical segment dimensions, by type, including..."

Response: (11-23-10 per J. Van Hook/Charles Boyd) No change recommended. There can be a number of different pier segments and typical segments (i.e. 1N, 2N, 3N or similar). No changes made.

David OHagan response (11-24-10): Then somehow we need to make it clear that a set of shop drawings is not required for each segment to be cast (or is it?).

Response: If two or more segments are identical, only one shop drawing needs to be included for all like segments. For each shop drawing that applies to more than one segment, EACH segment is to identified and listed on the applicable shop drawing. No changes made.

2. 452-4.2.2 (4) "... layout of the stock yard,..." I've never heard of this location as a "stock yard." Typical vernacular was "storage yard."

Response: Can change or not. I don't think the labeling is a real issue.

From the Specifications Office: This has been changed to "storage area."

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Ghulam Mujtaba

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Comments: (11-24-10, Internal)

The following are my review comments related to the proposed changes:

1. Subarticle 452-4.2 second line: There is no need for the term "and other information". The subsequent subarticles have described all necessary information. This will make the specification unclear.

Response:

2. Subarticle 452-4.2.1 and 452-4.2.2: In a few places "and other similar items" have been added. These requirements are undefined and I recommend that they be deleted.

Response:

3. Subarticle 452-4.2.1: In a few places the terminology "weight" has been used in lieu of "mass", which probably should be mass. Delete "etc" in item No. (8).

Response:

4. 452-4.2.2 Casting Yard: This title should be changed to “452-4.2.2 Casting Yard Standard Operating Procedures”. This subtitle will match the description of the Subarticle, which are submittal of documents, in lieu off “Casting Yard”.

Response:

5. 452-4.2.2 (1): The descriptions of item (1) should be in the order of the events. It should include the storage of concrete materials ingredients, including, aggregates, admixtures, and cementitious materials. Product storage and handling should be included.

Response:

6. 452-4.2.2(2): The intent of “Additional strengthening to accommodate stacking of segments” is not clear, whether this is the responsibility of the contractor without any payment or there is no payment beyond what is previously approved for strengthening.

Response:

7. 452-5.2: The use of the size No. 67 has been mentioned. There is no need to mention that “100% passes a 1 inch sieve”. The size No.67 meets this requirement. Also, delete “in lieu of the grade specified in Section 346 to meet this gradation requirement”. The 346 specification allows the use of Size No. 67.

Response:

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Comments: (11-29-10, Internal)  
I suggest deleting the following:

*452-4.2.1 Segment Shop Drawings:  
(1) A schedule of materials for segment fabrication ~~including concrete, reinforcing steel, prestressing steel, grout, and other similar items.~~*

Also delete the word “similar” in 452-4.2.1(3), 452-4.2.2(1), (3) and (4).

Response:

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Comments: (1-10-11)  
Coments by Tammie Andrews of D5 Orlando Operations:

I would NOT recommend the changes proposed in Spec. 452-5.2 Concrete as proposed. Removing the last two sentences eliminates spelling out the desired results and does not address the conflict with Section 346. Consider leaving this portion of the spec as is. (Proposed language as below:)

452-5.2 Concrete: Use concrete as specified in Section 346 except as specifically modified herein. Gradation for coarse aggregate utilized in the concrete for segments will be such that 100% passes a 1 inch sieve. Use No.67 course aggregate in lieu of the grade specified in Section 346 to meet this gradation requirement.

**Response:**  
See comment/response from Ghulam Mujtaba, # 7.

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