

5340000 NOISE AND PERIMETER WALLS  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Rudy Powell  
414-4280

Comment: (11-26-13) Why is the Repairs or Rejection article being deleted? How will damage to either sound or perimeter walls be handled before installation and after installation?

Response: Will add the paragraph back in and renumber. Change made.

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Siddhartha Kamath, P.E.

Comment: (12-2-13) Section 534-2 Spell out WWR and follow with (WWR), similar to CMU two lines below it.

Response: Agree. Change Made. (Spec's Office).

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Maria Connolly, P.E.

Comment: (12-4-13) The portion marked in red needs to be modified:

**534-7 Method of Measurement.**

The quantity to be paid for will be the plan quantity, in square feet, measured in place, completed and accepted, of the area bounded by the top of the wall (including and wall cap) and the bottom of the wall elements without deductions for openings from the beginning to end limits shown in the control drawings.

Response: Should be "including wall cap" deleted "and". Change made.

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Mike Bergin

Comment: (12-6-13) Although welded deformed steel wire fabric reinforcement is indicated in Section 415, nowhere I could find the acronym WWR used in this section or in Section 934. If the acronym is to be used it needs to be defined in Section 415 or it needs to be defined in Section 934 so that the contractor knows that this is the same material.

Response: Agree, Change made. (Spec's Office).

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Dan Hurtado

Comment: (12-6-13) As written, the specification requires the use of clean outs to verify grouting of cells. ACI allows the use of low-lift grouting (4' or less) without the use of cleanouts. Contractors often prefer this option as cleanouts are labor intensive to construct, and the repairs

are often unsightly. The contractor would just have to request an inspection for each 4' grout lift. Depending on the length of the wall, a 4' lift is roughly a day's work. Also, I repeat my previous caution about relying too heavily on the ACI spec for workmanship. There are numerous workmanship issues which are not adequately addressed by the ACI Spec.

Response: Agree. Statement will be deleted. With the perimeter wall height, cleanouts will not be necessary. Change made.

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Juan Castellanos

Comment: (12-9-13)

534-6 Test Wall: Why adding "If directed by the Engineer"? I suggest we keep the requirement whether the Engineer directs it or not.

Response: Agreed. Change made.

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Art Berger  
414-5368

Comment: (12-6-13)

Please consider highlighted edits.

### 1. Article 534-1:

#### **534-1 Description.**

##### ***534-1.1 Precast Concrete Noise Walls:***

Furnish and install concrete noise walls with piles, posts, and panels constructed in accordance with Design Standards, Index No. 5200, unless the Plans indicate otherwise, ~~based on specific design or aesthetic criteria unique to the project.~~ *Secure joints and connections in a structurally sound manner without openings in the system that would allow sound the transmission of sound.*

~~Obtain precast concrete noise wall components from a manufacturing plant that is currently on the list of Producers with Accepted Quality Control Programs. Producers seeking inclusion on the list shall meet the requirements of 105-3.~~

##### ***534-1.2 Perimeter Walls:***

*Furnish and install perimeter walls and foundation in accordance with Design Standards, Index No. 5250 for either the precast concrete or the masonry option.*

Response: Agree. Same meaning, readability improved. Change made.

### 2. 534-5, first paragraph:

#### **534-5 Construction Methods.**

*Keep to minimum the clearing and grubbing; trim trees and shrubs only to*

*the extent necessary to construct the walls, unless otherwise shown in the Plans. Keep right-of-way fence, that is scheduled to be salvaged, in place until completing the wall or otherwise directed by the Engineer.*

Response: Agree. Change made.

### 3. 534-6:

#### **534-6 Test Wall.**

*If directed by the Engineer,* Erect a test wall section not less than 50 feet in length before starting general wall construction at the project site. The Engineer will use the erection of the test wall to ~~determine if~~ *verify that* the Contractor's methods and equipment are sufficient to produce a ~~noise~~ wall that meets the requirements of the Contract Documents. ~~The Contractor may revise his methods and equipment as necessary, at any time during the positioning of the test wall, in order to satisfactorily meet all Contract requirements.~~ Build the test wall at a permanent wall location, as ~~directed~~ *agreed to* by the Engineer. If the test wall does not meet ~~the~~ construction tolerances, remove and dispose of it at no expense to the Department. Include the cost of the test wall in the cost of the ~~noise~~ wall.

Response: No objection, Deleted "If directed by the Engineer". Change made.

### 4. 534-7 Method of Measurement:

#### **534-7 Method of Measurement.**

The quantity to be paid for will be the plan quantity, in square feet, measured in place, completed and accepted, of the area bounded by the top of the ~~top panel wall (including and wall cap)~~ and the bottom of the ~~bottom panel wall elements~~ without deductions for openings ~~in the panels, and from~~ the beginning to end limits shown in the ~~wall control~~ drawings.

Response: "and" should be deleted. Change made.

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Comment: (12-12-13)

534-5 Last sentence stating: "After erecting the wall, return the disturbed area to preconstruction condition or as indicated in the Plans." *As worded a choice is implied even if indicated in the plans. Suggest changing "or as" to "unless otherwise" to reduce potential for conflict.*

Response: Agree. Change made.

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Comment: (12-13-13)

The shop drawing requirements for the precast option must include post lengths.

Response: Agree. Will add to Post Locations. Change made.

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Anonymous

Comment: (12-13-13)

534-4 Shop Drawing Submittal the requirement to show the utility locations is being struck. If the supplier is not required to show utilities they may either ignore them or assume they are unimportant. Either of which can lead to work stoppage in the field when the panels can't be set because of overhead utilities or the foundations can't be constructed because of underground or overhead utilities.

Response: Shop Drawings are produced from the Wall Control Drawings which detail the utilities. The shop drawings should show openings or non-standard members required to avoid utilities, but need not show the utilities themselves. No Change made.

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Comment: (12-13-13)

You have proposed to remove Section 7 Repair and Rejection; what criteria should be used in its place?

Response: Added Section 534-7 back in. Change made.

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Katie Bettman  
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Comment: (12-30-13)

1. In the 2014 Design Standards, there is no 5250 Index. There was an Interim 5250 in the 2008 Design Standards, but this has been deleted. Will this standard be updated prior to the updates to the Specifications?

Response: Index 5250 will be added to the Design Standards by Bulletin soon, and will be included in the July 2014 Release. It is significantly different from the 2008 version. No Change made.

2. Index 5200 requires Class IV Concrete. For precast components, there is still the requirement that the Portland Cement Concrete meets Section 346. I do not think this should have been removed from the 534-2 Materials Requirements.

Response: Agree, will undelete. Change made.

3. The precast producer stamps the panels and posts, certifying that they comply with the Department's Specifications. 534-3.1 changes this requirement and directs the Contractor to do this.

Response: Disagree; it is under components with precast requirements, which includes marking the posts and panels for precast walls. Did clarify by adding "Producer" to the sentence. Change made.

4. I'm not sure why Section 534-7, which deals with repairs and rejection, was deleted. This still applies when using precast components.

Response: Section 534-7 has been added back. Change made.

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