

1050302 CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS –  
COMPLIANCE WITH THE MATERIALS MANUAL –  
SECTION 6.3 PRECAST CONCRETE DRAINAGE STRUCTURES AND BOX CULVERTS  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (8-2-12)

1. Delete “of” from the first sentence in the second paragraph of 6.3.1.

**Response:**

2. Change “are” to “is” in the second to last sentence in 6.3.6.2.

**Response:**

3. 6.3.6.3 should state that an in-depth inspection is also required for Plants to be placed back on Active Status. Some Plants which need an in-depth inspection have produced for the Department within the last year.

**Response:**

4. Routine inspections and Plant qualification reviews need to be done until the Plants have been placed on Status B, inactive. If we only do these inspections on Plants which furnish Structures for Department projects, we will run into problems if they get a job and we haven’t kept up with our inspections.

**Response:**

5. In 6.3.6.4, it states that the quality control plan is in compliance with Materials Manual 5.6. In other Sections of the Materials Manual, it states that the quality control plan is in accordance with Specifications Section 105 and the Materials Manual 5.6 may be used as a guideline. This should be made consistent.

**Response:**

6. In 6.3.6.4, change “on the list of Department’s qualified Plants” to “on the Department’s list of Producers with Accepted Quality Control Plans.”

**Response:**

7. 6.3.6.4 needs to be revised. Addenda need to be submitted, accepted, and incorporated into the quality control plan as they occur throughout the year. The entire quality control plan needs to be revised and submitted annually.

**Response:**

8. In 6.3.6.4, change “list of Producers with Accepted Quality Control Programs” to “list of Producers with Accepted Quality Control Plans.”

**Response:**

9. The last sentence in 6.3.6.4 states, “The Plant qualification review team will perform at least one annual in-depth review of the Plant that is producing for the Department projects.” 6.3.6.3 already states that Plant qualification reviews will be performed annually. I still don’t think this is contingent on whether that Plant is producing, but rather that it is on Status A, active.

**Response:**

10. Change the last part of 6.3.7.2 (D) to “...and quality control personnel meeting the qualifications of this Section.”

**Response:**

11. Delete “of” in 6.3.7.4.1.

**Response:**

12. There should still be a section in 6.3.7.4.10 that allows the use of non-QPL products to restore cosmetic repairs. They are minor and non-structural. Specifications Section 449 only references repairs for concrete pipe. I’m not sure why this Section is referenced for the Materials Manual Section for Precast Concrete Drainage Structures and Box Culverts. In any case, 449 does allow for the following: “Individual air holes (trapped air), or spalled areas with a length of up to one-half the pipe radius, or 12 inches whichever is less, may be repaired by careful use of a hand-placed, stiff, pre-shrunk, 1-to-1 mortar of cement and fine sand, and with no additional preparation other than a thorough washing with water of the defect.” If this is allowed, other non-shrink grouts which have been used, approved through Producer’s quality control plans for years, and have had no problems should also be allowed to be used.

**Response:**

13. 6.3.7.8.1 states, “Perform the quality control inspection and tests at the frequencies and LOT (Group) sizes that are specified in the applicable Specifications Sections and other applicable Contract Documents.” LOT is defined in 6.3.7.8.2, not in the Specifications. Since this is defined, I don’t think the LOT sizes used to accept the Structures should be defined in the quality control plan. This directly conflicts with the last sentence in 6.3.7.8.2. These sentences need to be clarified and/or corrected.

**Response:**

14. Remove “Include the selected cylinder size or sizes in the mix design form” from 6.3.7.8.2.

**Response:**

15. 6.3.7.8.4 also references the Qualified Products List. These should only be required for structural repairs.

**Response:**

16. 6.3.7.8.6 states, “Handle and store all Structures properly to prevent damage. The quality control inspectors shall inspect the Structure handling operations and appropriate practices that will prevent damage. The quality control inspectors shall inspect Structures during storage to ensure that they are stored correctly and are not being damaged by point loading or stacking too high. Do not store the rejected Structures in the same area with the acceptable Structures. Rejected Pipe shall be culled and marked as rejected.” This needs to be corrected to address Drainage Structures, not Pipe.

**Response:**

17. Change “product” to “products” in the third paragraph of 6.3.7.8.8.

**Response:**

18. The second paragraph and last paragraph of 6.3.7.8.8 state some of the same requirements.

**Response:**

19. Add “to” before “be on the list of Structural Concrete Producers with Accepted Quality Control Programs” in 6.3.7.8.9 (H).

**Response:**

20. Change “or only they take” to “or only retaking” in 6.3.8.3.

**Response:**

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