# *Florida Department of Transportation*

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October 29, 2007

**** Expired ****

**MATERIALS BULLETIN NO. 10-07**
**DCE MEMORANDUM NO. 19-07**

**TO:** **DISTRICT MATERIALS RESEARCH ENGINEERS**
**DISTRICT CONSTRUCTION ENGINEERS**

**FROM:** **Thomas O. Malerk, P.E., Director, Office of Materials**
**Brian A. Blanchard, P.E., Director, Office of Construction**

**COPIES:** **Richard Kessler, Michael Bergin, Rafiq Darji**

**SUBJECT: STATEWIDE IMPLEMENTATION OF CONCRETE SAMPLE / LOT NUMBERING SYSTEM AND REPORT**

The State Materials Office has developed a statewide concrete sample and lot numbering system to be used on new projects effective immediately. The use of the system and the report will provide Construction and Materials personnel with the ability to track the status of concrete sampling and testing and assist in identifying Materials Certification issues. The report, entitled Sample No. – Lot No. Report is embedded in the Laboratory Information Management System (LIMS) and can be used on any project, whether or not the new numbering system has been applied. The report will be most helpful on projects that utilize the numbering system, but can still provide valuable tracking information on projects where another system has been used.

Instructions for the numbering system and an example report are attached. These documents are also available on the State Materials Office web site. Do not apply the numbering system to ongoing projects where another numbering system has been applied. Construction personnel will need to inform Contractor Quality Control personnel about the numbering system at the preconstruction or concrete pre-operations meeting on new projects.

If you have any questions regarding the numbering system or the report, please contact Donald Bagwell in the State Materials Office at (352) 955-6645 or Susan Blazo in the State Materials Office at (352) 955-6669.

TOM/BAB/rk

# Concrete Sample / Lot Number Instructions

I Sample Number Instructions

A. Follow format and numbering sequences below.

B. QC samples

1. Start with sample number "0001" and Lot number "1".
2. Continue with sequential sample and lot numbers as long as the same mix design is used.
3. Restart sample number and lot number sequence when mix design changes. If you reuse a mix design number previously used on the project, pick up the sample number where you left off so that there are no sample numbers repeated for the same mix design.
4. Show the quantity represented as the amount of cubic yards the QC sample represents, for example, 50 CY.

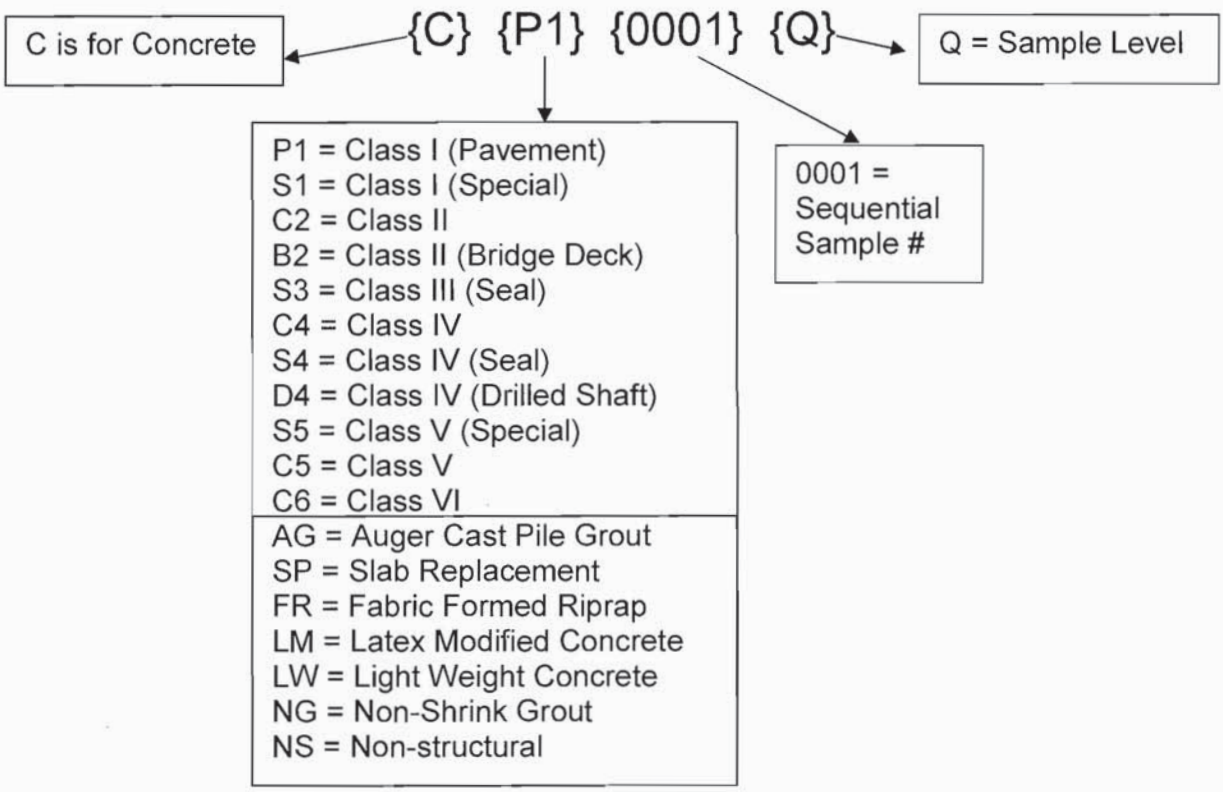
C. Verification samples

1. Match the Verification sample number to the corresponding QC sample number. For example if the random number for obtaining the Verification sample is in lot 3 and the QC sample number is CC30003Q, the Verification sample number would be CC30003V.
2. Identify the Lot number as all the QC lots the Verification sample corresponds to. For example, if the Verification sample corresponds to QC lots 9, 10, 11, and 12, the Verification lot number would be "9-12".
3. Show the quantity represented as the amount of cubic yards the Verification sample represents. For example, if it is four QC lots of 50 CY each, use "200 CY" as the quantity represented by the Verification sample. Not all V samples represent 200 CY. By adding the total cubic yards the QC lots represent, the PA will know how much material is represented for materials acceptance related issues.

D. Independent Verification Samples

1. Match the Independent Verification sample number to the corresponding QC sample number. For example, if you take the Independent Verification sample in lot 2 and the QC sample is CS30002Q, the Independent Verification sample would be CS30002IV.
2. Identify the Lot number as the QC lot the Independent Verification sample corresponds to. For example, if the Independent Verification sample corresponds to QC lot 5, the lot number for the Independent Verification sample would be "5".
3. Show the quantity represented as the amount of cubic yards the QC sample represents, for example, 50 CY.

II. Sample Number Format = CP10001Q




III. Sample Numbering Examples

A. CC60004Q = Class VI, fourth QC sample
B. CB2010V = Class II (Bridge Deck), Verification sample corresponding to 10th QC sample CB2010Q
C. PC20002 = Class II Precast, second sample
D. CAG0001 = Auger Cast Pile Grout, first sample
E. CFR0002 = Fabric Formed Riprap, 2nd sample

IV. Sample Number Sequences – Major Concrete Classes

| CLASS OR TYPE OF CONCRETE | NUMBERING SEQUENCE |
|---|---|
| CLASS I (PAVEMENT) | CP10001Q THRU CP19999Q |
| CLASS I (SPECIAL) | CS10001Q THRU CS19999Q |
| CLASS II | CC20001Q THRU CC29999Q |
| CLASS II (BRIDGE DECK) | CB20001Q THRU CB29999Q |
| CLASS III | CC30001Q THRU CC39999Q |
| CLASS III (SEAL) | CS30001Q THRU CS39999Q |
| CLASS IV | CC40001Q THRU CC49999Q |
| CLASS IV (DRILLED SHAFT) | CD40001Q THRU CD49999Q |
| CLASS V (SPECIAL) | CS50001Q THRU CS59999Q |
| CLASS V | CC50001Q THRU CC59999Q |
| CLASS VI | CC60001Q THRU CC69999Q |

NOTE: Samples from Precast/Prestressed – Class of Concrete may begin with the alpha character "P" or "B".

V. Sample Number Sequencing – Miscellaneous Concrete Items

| **CLASS OR TYPE OF CONCRETE** | **NUMBERING SEQUENCE** |
|---|---|
| AUGER CAST PILE GROUT | CAG0001 THRU CAG9999 |
| CONCRETE SLAB REPLACEMENT | CSP0001 THRU CSP9999 |
| FABRIC FORMED RIPRAP | CFR0001 THRU CFR9999 |
| LATEX MODIFIED PC CONCRETE | CLM0001 THRU CLM9999 |
| LIGHT WEIGHT CONCRETE | CLW0001 THRU CLW9999 |
| NON-SHRINK GROUT | CNG0001 THRU CNG9999 |
| NON-STRUCTURAL | CNS0001 THRU CNS9999 |

VI. Sample No. – Lot No. Report

- A. Run Sample Number Lot Number Report to track samples and material status
- B. Recommend running the report prior to each placement or as deemed appropriate
- C. Report will show if:
  1. QC Samples are verified/not verified by Design Mix Number
  2. Samples are not tested
  3. Samples are not entered in LIMS

Florida Department of Transportation

# Sample Number - Lot Number Report


October 17, 2007

| Lot Number | Sample No | Sample Level | Plant Number | Sample ID | Date Sampled | Date Tested | Verified? | Quantity Represented |
|---|---|---|---|---|---|---|---|---|
| Design Mix No. 04-0900 | | | Class: Class IV | | | | | |
| Project: 19585015201 | | | | | | | | |
| 160F | | | | | | | | |
| 1 | CC40001Q | Q | 01-002 | 0700051187 | 8/1/07 | 8/1/07 | Yes | 50CY |
| 2 | CC40002Q | Q | 01-002 | 0700051188 | 8/2/07 | 8/2/07 | Yes | 50CY |
| 3 | CC40003Q | Q | 01-002 | 0700051189 | 8/3/07 | 8/3/07 | Yes | 50CY |
| 4 | CC40004Q | Q | 01-002 | 0700051190 | 8/4/07 | 8/4/07 | Yes | 50CY |
| 1-4 | CC40004V | V | 01-002 | 0700051191 | 8/4/07 | 8/4/07 | Yes | 200CY |
| 160L | | | | | | | | |
| 1 | CC40001Q | Q | 01-002 | 0700051192 | 8/1/07 | 8/29/07 | Yes | 50CY |
| 2 | CC40002Q | Q | 01-002 | 0700051193 | 8/2/07 | 8/30/07 | Yes | 50CY |
| 3 | CC40003Q | Q | 01-002 | 0700051194 | 8/3/07 | 8/31/07 | Yes | 50CY |
| 4 | CC40004Q | Q | 01-002 | 0700051195 | 8/4/07 | 9/1/07 | Yes | 50CY |
| 1-4 | CC40004V | V | 01-002 | 0700051196 | 8/4/07 | 9/1/07 | Yes | 200CY |
| Design Mix No. 07-0544 | | | Class: Class II DECK | | | | | |
| Project: 19585015201 | | | | | | | | |
| 160F | | | | | | | | |
| 1 | CB20001Q | Q | 01-002 | 0700051197 | 8/13/07 | 8/13/07 | Yes | 50CY |
| 2 | CB20002Q | Q | 01-002 | 0700051198 | 8/14/07 | 8/14/07 | Yes | 50CY |
| 3 | CB20003Q | Q | 01-002 | 0700051199 | 8/15/07 | 8/15/07 | Yes | 50CY |
| 4 | CB20004Q | Q | 01-002 | 0700051200 | 8/16/07 | 8/16/07 | Yes | 18CY |
| 1-4 | CB20004V | V | 01-002 | 0700051201 | 8/16/07 | 8/16/07 | Yes | 168CY |
| 160L | | | | | | | | |
| 1 | CB20001Q | Q | 01-002 | 0700051202 | 8/13/07 | 9/10/07 | Yes | 50CY |
| 2 | CB20002Q | Q | 01-002 | 0700051203 | 8/14/07 | 9/11/07 | Yes | 50CY |
| 3 | CB20003Q | Q | 01-002 | 0700051204 | 8/15/07 | 9/12/07 | Yes | 50CY |
| 4 | CB20004Q | Q | 01-002 | 0700051205 | 8/16/07 | 9/13/07 | Yes | 18CY |
| 1-4 | CB20004V | V | 01-002 | 0700051206 | 8/16/07 | 9/13/07 | Yes | 168CY |
| Design Mix No. 07-0834 | | | Class: Class IV | | | | | |
| Project: 19585015201 | | | | | | | | |
| 160F | | | | | | | | |
| 1 | CC40001Q | Q | 01-002 | 0700051207 | 8/22/07 | 8/22/07 | Yes | 25CY |
| 2 | CC40002Q | Q | 01-002 | 0700051208 | 8/23/07 | 8/23/07 | Yes | 25CY |
| 3 | CC40003IV | IV | 01-002 | 0700051210 | 8/24/07 | 8/24/07 | Yes | 25CY |
| 3 | CC40003Q | Q | 01-002 | 0700051209 | 8/24/07 | 8/24/07 | Yes | 25CY |
| 160L | | | | | | | | |
| 1 | CC40001Q | Q | 01-002 | 0700051211 | 8/22/07 | 9/19/07 | | 25CY |
| 2 | CC40002Q | Q | 01-002 | 0700051212 | 8/23/07 | 9/20/07 | | 25CY |
| 3 | CC40003IV | IV | 01-002 | 0700051214 | 8/24/07 | 9/21/07 | | 25CY |
| 3 | CC40003Q | Q | 01-002 | 0700051213 | 8/24/07 | 9/21/07 | | 25CY |

Number of Rows on Report: [] 28

sample_no_lot_noV5.rpt bsrcb 3/20/07

LEGEND: QC=Quality Control
Sample Levels: Q=Quality Control, V=Verification, IV=Independent Verification