CONCRETE PLANT INSPECTOR'S WORK SHEET AND GRADATION REPORT

Copies
Division Engineer
File

Project Number: _____
County: _____
Division: _____
Date: _____

Concrete Class		Plant Location				
	Cement	**Water**	**Fly Ash**	**Entrained Air**	**Fine Aggregate**	**Coarse Aggregate**
1 Cubic Meter Batch	(A) lbs (kg)	(B) gals (liters)	(C) lbs (kg)	(D)	(E) lbs (kg)	(F) lbs (kg)

Surface Dry Moisture					(1) %	(2) %
		(7) gals (liters)			(5) lbs (kg)	lbs (kg)
Corrected One Cu. Meter Batch	(9) lbs (kg)	(8) lbs (kg)	(10)	(11)	(3) lbs (kg)	(4) lbs (kg)

(A) through (F) are taken from the concrete mix furnished by the Materials & Tests Bureau Concrete Section. The numbered Blocks are derived in the following manner:

$$(1) = \frac{(\text{Wet mass of sample} - \text{Heat dried mass})}{(\text{Heat dried mass of sample})} \times 100$$

The use of a Speedy Moisture Tester or other means may be used instead of drying.

$$(2) = \frac{(\text{Wet mass of sample} - \text{SSD mass of sample})}{(\text{SSD mass of sample})} \times 100$$

This is obtained by drying the coarse aggregate to a SSD state of moisture.

(3) = (E) X (100% + (1)) (6) = (4) - (F) (9) = (A)

(4) = (F) X (100% + (2)) (7) = (5) + (6) (10) = (C)

(5) = (3) - (E) (8) = (B) - (7) (11) = (D)

Slump Correction

When it becomes necessary to reduce water to produce a desired slump, sand should be added to compensate for the volume loss. For each gallon (liter) of water removed from the design mix, add an additional 20 pounds (2.5 kilograms) of sand mass to adjust for yield.

Gradation Check

	% Passing Sieve Number													
	2.5" (63mm)	2" (50 mm	1.5 (37.5 mm)	1" (25 mm	¾" (19 mm)	½" (12.5 mm)	No. 4 (9.5 mm)	No. 8 (4.75 mm)	No. 16 (2.36 mm)	No. 30 (1.18 mm)	No. 50 (600 µm)	No. 100 (300 µm)	No. 200 (150m)	F.M.
F.A.														
C.A.														

Source of Cement: _____ Source of Fly Ash: _____
Source of Fine Aggregate: _____ Source of coarse Aggregate: _____
Source of Admixtures: _____
Remarks: _____

_____
Certified Technician & No.