
**INSTRUCTIONS FOR COMPLETION OF
PCC PAVING & STRUCTURAL REPORTS**

The new reporting process does not include Mobile Mixer information. Use the following forms and reports when using a Mobile Mixer:

Form M or E 115	Air & Slump Record
Form M or E 120	Mobile Mixer Data Record
Report #820180	Gradation Test
Report #821297	Nuclear Density of Plastic PC Concrete
Report #820020	Mobile Mixer Calibration

Project No.

Enter the project number listed on the plans.

Plant Name

Enter the name of the ready mix plant and location for structural concrete. Enter the approximate location of a paving plant set up by a contractor.

Example: Croell - Waverly (Ready Mix)
 2 miles NW of Waverly (Paving Plant)

Contractor/Sub

A group of people or a company must perform the work being done, either a prime or sub contractor. Enter the name of the contractor performing the work. If it is a subcontractor, list this after the contractor name.

Weather

Enter a brief description of the actual weather conditions at the paving plant. Weather conditions are not required for structural concrete (Ready Mix).

Contract ID

Enter the nine-digit contract number listed at the top of a contract. This is not the five-digit accounting ID number listed with the project number.

County

Enter the county listed on the project plans.

Temperatures, Min. & Max.

An air temperature shall be recorded early in the morning for the minimum and around mid-afternoon for the maximum. Take the temperatures in a shaded area, otherwise they are meaningless. Temperatures are not required for structural concrete (Ready Mix).

Report No.

Start with the number 1 at the beginning of work for each item on each project. The ending report number shall coincide with the last day each item is completed for paving and the last week for structural. Do not restart the report sequence if the project carries over to the next year.

Example: (Paving) 16 days of 200-mm slip form paving - report 1 through 16.
 (Ready Mix) 8 weeks of concrete on Des. 1290 - report 1 through 8.

Date This Report

Enter the date the concrete is placed for each day of paving. Enter the last day of the workweek for structures (normally the Saturday date).

Date of Last Report

Self-explanatory.

Design No.

Enter the design number of the structure where the concrete is being placed on each project. Leave this space blank on paving projects.

Check Mix (Central or Ready)

Place an "X" in the appropriate box provided indicating how the concrete is being produced.

Check Usage (Paving, Structural, Incidental, Patching)

Place an "X" in the appropriate box provided to indicate the type of work where the concrete is used.

Date (Mo./Day)

This column is only used for Ready Mix concrete applications. Enter the month and the date for each day of production during the week.

Example: 5/24, 7/01, 12/03, etc.

Mix Number

Enter the mix number being used that is listed in the proportion tables of [IM 529](#).

Station (Beg./End/Dir)

Enter the beginning and ending station for concrete placed daily by mix. Enter the direction (N, S, E, W) for divided sections or B for 2-lane sections.

Batched

Enter the total cu. yds. (m³) batched for each mix for a paving plant. Enter the total cu. yds. (m³) batched for each unit poured for structures.

% Of Est. Used

Enter the percent of estimated concrete used.

Fine, Intermediate & Coarse Aggregate (Moisture)

Enter the percent moisture once in the morning and once in the afternoon for paving projects. Enter

the percent moisture for each unit poured on structures.

Fine, Intermediate & Coarse Aggregate (T203 sp gr)

Enter the specific gravity for each aggregate listed in the T203 source tables.

Fine, Intermediate & Coarse Aggregate (Dry Mass or Wt.)

Enter the weight (mass) of each aggregate calculated by absolute volumes.

Actual Quantities Used Per cu. yds. (m³) in Kilograms (Pounds)

- Cement** Enter the pounds (kilograms) of cement calculated by absolute volumes.
Fly Ash Enter the pounds (kilograms) of fly ash calculated by absolute volumes.
GGBFS Enter the pounds (kilograms) of ggbfs calculated by absolute volumes.
Fine Inter. Enter the actual pounds (kilograms) of fine aggregate adjusted by moisture content.
Coarse In Agg. Enter the actual pounds (kilograms) of coarse aggregate adjusted by moisture content.
Enter the calculated difference between the actual weights (masses) and the dry weights (masses) of both fine and coarse aggregates.
Plant Grade Enter the average pounds (kilograms) of water added at the plant for each cu. yd. (m³).
Enter the average pounds (kilograms) of water added on the grade (when permitted by specification).

Avg. W/C Ratio

Enter the ratio of total water, including water in the aggregates and water added on the grade, in one cu. yd. (m³) divided by the total sum of cement, fly ash, and ggbfs in one cu. yd. (m³), report to three decimal places.

CPI Gradations

This section of the report is for reporting the Certified Plant Inspector gradation test results for the coarse and fine aggregates being used in the mix. If one of the tests fail and backups are tested, record the average in the column provided, which is located just right of the specifications column.

Batched (Today or Week)

Place an "X" under the Today column if the report is being submitted daily (paving).
Place an "X" under the Week column if the report is being submitted weekly (structures).

Concrete Batched

Enter the total cu. yd. (m³) of concrete batched under the appropriate column. Paving plant totals are normally under the Today column; structural concrete totals are normally under the Week column.

To Date Total

Enter the running total for both concrete and cement.

Air Entraining (Air Ent.)

Enter the brand name or source, average rate per cu. yd. (m³), and lot number.

Water Reducer (Wat. Red.)

Enter the brand name or source, average dosage rate, and lot number.

Retarder

Enter the brand name or source, average dosage rate, and lot number.

Calcium Chloride (Cal. Chlor.)

Enter the brand name or source, average dosage rate, and lot number only when added at the plant site.

Superplasticizer (Superplas.)

Enter the brand name or source, average dosage rate, and lot number.

Concrete Treatment

Place an "X" directly behind Ice, Heated Water, or Heated Materials, if one or more are used. If ice is used to cool the mix, enter the pounds (kilograms) of ice per cu. yd. (m³).

Cement

Enter the cement type, specific gravity, and source. See [IM 401](#) for the actual source name.

Fly Ash

Enter the type and specific gravity and source. See [IM 491.17](#) for the actual source name.

Example: Chillicothe and ISG Headwaters are not source names.
Ottumwa is the source name.

Rock

Enter the [T203](#) A number, and gradation number.

GGBFS

Enter the grade, specific gravity, and source. See [IM 491.14](#) for the actual source name.

Sand

Enter the [T203](#) A number, and gradation number.

Intermediate

Enter the [T203](#) A number.

Remarks

Enter delays, which may take place. Enter description of noncomplying test results.

CPI

Enter the Certified Plant Inspector name and certification number.

Monitor

Enter the plant monitor name and certification number.

If using the computer spreadsheet, most of this information will be entered on the Project Information and Mix Information sheets and automatically transferred to the Report. For QMC and BR mixes, the combined gradation will be calculated from aggregate percentages entered in the Mix Information Station From and To, Totals to Date Cement and Concrete, and Remarks will be entered directly on the Report.

The next page is an example of a completed Paving Plant Report.

602540E - 04/00 computer

Location: _____
 Date of Placement: _____ From: _____ To: _____
 Mix 1: 05/02/98 101+13 133+69
 Mix 2: 11/29/99
 Mix 3:
 Mix 4:
 Project No.: NHS-1845(123)-18-17
 Plant Name: CARLSON'S HWY 65 & HWY 18
 Contractor / Sub: FRED CARLSON
 Weather: MOSTLY SUNNY
 Contract ID: 17-0185-11
 County: CERRO GORDO
 Temp. (°F) Min: 48
 Temp. (°F) Max: 70

Report No.: 2
 Date This Report: 08/02/96
 Date Of Last Report: 08/01/96
 Check (Mix) (x) _____ Check One (x) _____ SEND
 Central X Paving X (daily)
 Ready Structure Incidental (weekly)
 Patching Patching (weekly)
 or end of Lot

MIX	Batched (CY)	% Of Est. Used	Fine Aggregate			Intermediate Aggregate			Coarse Aggregate			Actual Quantities Used Per cy (in pounds)			Avg w/c Ratio	Max w/c Ratio						
			T-203 (%)	Wt. SSD (lbs)	Sp. G.	T-203 (%)	Wt. SSD (lbs)	Sp. G.	T-203 (%)	Wt. SSD (lbs)	Sp. G.	Cement	Fly Ash	GGBFS			Water	In Aggr. Plant	Grade			
1	C-30M-C15	1,100.00	101.3	4.0	2.67	1,390					0.9	2.75	1,751	470	83	1,448	1,767	74	164.0	0.430	0.489	
2																						
3																						
4																						

Course	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#200	Comply
100	50-100	30-100	20-75	5-55	0-10	0-5	0-1.5	Y/N	
100	75	49	31	14	4.1	0.5	0.5	Y	

Concrete Treatment (x)	lb/cy
Ice	
Heated Water	
Heated Materials	

Batched	Today	Week	Total To Date
Check One (X)	X		
Concrete (CY):	1,100.00		17,279.60
Cement (tons):	258.50		5,007.39

Inter.	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#200	Comply
									Y/N
									NA
									NA

Brand / Source	Rate	Lot Number
Air Entraining: SIK AEA 15	7 OZ./CY	C90005M
Water Reducer: SIK A PLASTOCRETE 161	3 OZ./CWT	D80002P
Retarder:		
Calcium Chloride:		
Superplasticizer:		

Fine	3/8"	#4	#8	#16	#30	#50	#100	#200	Comply
100	90-100	70-100	10-60	25	11	4.7	0.3	Y	
100	88	69	44	25	11	4.7	0.3	Y	

Type	Sp. Gr.	Source
Cement: IS	3.04	HOLNAM
Fly Ash: C	2.56	PORTAGE 1
GGBFS:		

Target	Adjusted % Passing Calculated Combined Gradation								Within Target	
	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16		#200
1.5"										

Remarks: _____
 This is a test report

Distribution: _____ Central Materials _____ DME _____ Proj. Eng. _____ Plant _____

C.P.I.: JEFFREY BOLSINGER
 Monitor: JASON RUTER

NE118
 NE443