500
Rigid Pavement

		Plate
501	**Portland Cement Concrete Pavement (QC/QA)**	
	Concrete Pavement (**)(**)(**)	501 - 1
	Quality Control Testing Concrete Pavement (**)(**)(**)	501 - 2
	Record of Tested Material Received and Used	501 - 1A
	Record of Certified Cement Received and Used	501 - 1B
	Record of Moisture Tests - (Check Tests at Concrete Plant)	501 - 1C
	Concrete Test Data	501 - 1D
	Concrete - Width, Depth, Steel Depth & Crown Information	501 - 1E
	Record of Cores Taken	501 - 1F
	Sealing of PCCP Joints	501 - 1G
	Record of Tie-Bar Insertion	501 - 1H
	Sketch and Computations for Concrete Pavement	501 - 1I
	Density Tests	501 - 1J
502	**Portland Cement Concrete Pavement (Non-QC/QA)**	
	Concrete Pavement (**)(**)(**)	501 - 1
	Record of Tested Material Received and Used	501 - 1A
	Record of Certified Cement Received and Used	501 - 1B
	Record of Moisture Tests - (Check Tests at Concrete Plant)	501 - 1C
	Concrete Test Data	501 - 1D
	Concrete - Width, Depth, Steel Depth & Crown Information	501 - 1E
	Record of Cores Taken	501 - 1F
	Sealing of PCCP Joints	501 - 1G
	Record of Tie-Bar Insertion	501 - 1H
	Sketch and Computations for Concrete Pavement	501 - 1I
503	**Portland Cement Concrete Pavement Smoothness**	
	Record of Concrete Pavement Smoothness	503 - 1
	Recap of Concrete Pavement Smoothness	503 - 1A
	Recap of Bumps	503 - 1B
	Record of Aggregate Gradations	504 - 1
	Ready Mix Trucks	504 - 2
	Cement Scale Checks	504 - 3
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	Haul Trucks Idenfication	504 - 5
	Random Operation Checks for Slipform Paver.	504 - 6

CONCRETE PAVEMENT (*)(**)(AE)

Line #:		Plan Qnty:		(***)					
	Location					Accum.			
Date	Station to Station	Lane	Length	Width	(***) Placed	(***) Placed	Remarks		Insp.
							Est. No.___		

This plate is designed to be used for concrete base, concrete pavement, concrete pavement and early strength portland cement. This is a daily recapitulation of quantities and is to be used for estimate purposes.

This plate may be used for Bonded Concrete Pavement, Concrete Block Pavement, Concrete Bonded Overlay, Concrete Bonded Overlay Placement Only, Concrete Canal Lining, Concrete Channel Paving, Concrete Shoulder, Corrugated Concrete Dividers, Early Strength Concrete Pavement, Grinding Concrete Surface, Reinforced Concrete Overlay, Rubblized Concrete, Concrete Placement, and Bridge Approach.

(*) Thickness

(**) Uniform or Variable

(***) Unit of Measure

Quality Control Testing CONCRETE PAVEMENT (*)(**)(AE)

Line #:		Plan Qnty:	(***)				
	Location					Accum.	
Date	Station to Station	Lane	Length	Width	(***) Tested	(***) Tested	Remarks	Insp.
							Est. No.___	

This plate is designed to be used for concrete base, concrete pavement, concrete pavement and early strength portland cement. This is a daily recapitulation of quantities and is to be used for estimate purposes.

This plate may be used for Bonded Concrete Pavement, Concrete Block Pavement, Concrete Bonded Overlay, Concrete Bonded Overlay Placement Only, Concrete Canal Lining, Concrete Channel Paving, Concrete Shoulder, Corrugated Concrete Dividers, Early Strength Concrete Pavement, Grinding Concrete Surface, Reinforced Concrete Overlay, Rubblized Concrete, Concrete Placement, and Bridge Approach.

(*) Thickness

(**) Uniform or Variable

(***) Unit of Measure

Recap of tested material received and used

Type of Material		**(*)**	**(**)**								
Rock/Sand Producer:						**Percent of Mix:**					
Location											
Quality Lab Sample ID No.											
	CMS	**(***)**		**(***)**	**(***)**		**(***)**				
	Sample	**(*)**	**Acc.(*)**	**Concrete**	**(*)**		**(*)**				
Date	**ID No.**	**Rep.**	**Received**	**Placed**	**Used**		**On Hand**		**Remarks**		**Insp.**

RECORD OF CERTIFIED CEMENT RECEIVED AND USED

Date	Invoice Number	Brand	Type	Bin Number	(*) Cement Received	Acc.(*) Cement Received	(**) Poured	(*) Cement Used	Acc.(*) Cement On Hand	Remarks	Insp.

(*)lbs/kg

(**) cu.yds, cu.m, sq/yds, sq.m, etc.

NOTE: This is a field record of the cement received, used and on hand. The distribution eliminates the possibility of producing concrete with untested material. The quantities for preparation of the "Test Report" can be obtained from this plate.

RECORD OF MOISTURE TESTS - (CHECK TESTS AT CONCRETE PLANT)

Date	Time	Kind of Aggregate	Weight in Air (S)	Weight in Water (W2)	Weight in Water (W1)	W1 Minus W2	Aggr. Specific Gravity	% Moisture	Sampled From	Remarks	Insp.

The operational check recorded on this plate is for verification of the moisture deductions made by the concrete producer.

CONCRETE TEST DATA - CONCRETE PAVEMENT (*)(**)(AE) Line #											
Date											
Time											
Station											
Theo. Wt. Per Cu. Ft.											
Wt Bucket, Conc & Glass											
Weight of Bucket and Glass											
Meas. Wt											
Corr Factor											
Corrected											
Weight /Cu.Ft.											
Weight Difference											
YCF											
Design YCF											
% Air											
Slump											
Concrete Temp											
Air Temp											
Beams or Cylinders											
Mix Design											
Insp.											
CMS #											
Remarks	(***)										

CONCRETE - WIDTH, DEPTH, STEEL DEPTH & CROWN INFORMATION

Date	Time	Station	Distance C.L.	Plan Depth Concrete	Actual Depth Concrete	Plan Width Slab	Actual Width Slab	Depth Wire Mesh	Depth C.L. Steel	Super Crown Check	Insp.

RECORD OF CORES TAKEN

	Location					Proportional				
						Part of Contract				
Date	Station	Distance to C.L.	Plan Thickness	Measured Thickness	Deficiency	Price Allowed	Remarks			Insp.

SEALING OF PCCP JOINTS

	Location				Accum.					
Date	Side	Sta. to Sta.		Lin. Ft.	Lin. Ft.	Remarks				Insp.
						Est. No. _____				

This plate may also be used for Sealing of PCCP Joints, Sealing of PCCP Cracks, Sealing PCCP Joints, Sealing Spalled PCCP Joints & Cracks, and Sealing PCCP Joints & Cracks TY A or B .

Record of Tie Bar Insertion

	Location								
Date	Side	Sta. to Sta.		Each	Accum. Each	Plan Spacing	Measured Spacing	Remarks	Insp.
								Est. No.	

This plate may also be used for Dowel Bar Retrofit.

SKETCH & COMPUTATIONS FOR CONCRETE PAVEMENT

Sta. 32+00 to Sta. 83+00 24' Pvmt.

5,100 Lin. Ft. 24' Width 1.08' Depth

5,100' x 24' x 1.08' = 4,896 Cu. Yds.
27

5,100 x 24 = 13,600 Sq, Yds.
9

Ramp A Area 468 Interchange

Sta. 40+12 to 43+12 & 43+12 to 46+12

300' x 6' x 0.75' = 50 Cu. Yds.
27 (Avg. Width = 6')

300' x 12' x 0.75' = 100 Cu. Yds.
27 (Avg. Width = 12')

300' x 6' = 200 Sq. Yds.
9

300' x 12' = 400 Sq. Yds.
9

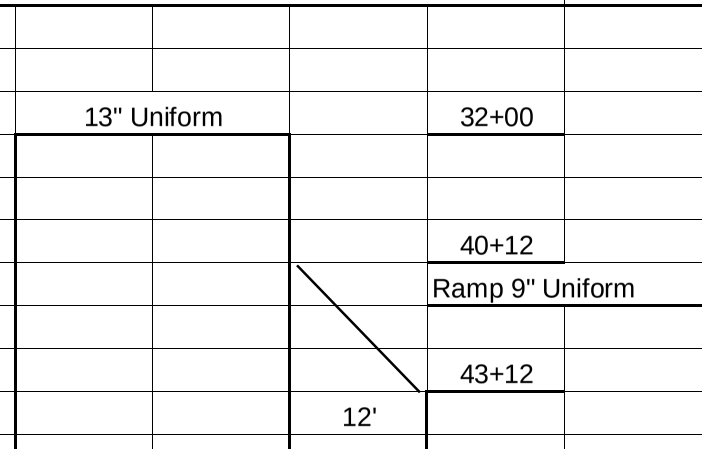
Total for the day 5,046 Cu. Yds.

Total for the day 14,200 Sq. Yds.

Previous total 10,200 Sq. Yds.

Total to date 24,400 Sq, Yds.

Computed by: J.D. Checked by: J.M.



This plate presents a sketch and computations of Concrete Pavement or based placed each day. A summation of these square yards gives the comparison between plan and constructed quantity which provides the necessary documentation to accept plan quantity as the basis of final payment. The square yards computed each day is transferred to plate No. V-3 to determine pay estimate quantities.

Concrete Density Tests					
Date					
Location					
Side					
Dist. CL					
Reading 1					
Reading 2					
Reading 3					
Avg.					
Corr. Fact.					
Corr. Read.					
Standard					
% of Stand.					
Remarks					
Insp.					
CMS #					

Record of Concrete Pavement Smoothness

Line #:		Plan Quan:	Lump Sum						
		Pavement	Average Pro. Index (in/mile)						
Date	Lane	Section #	Speed Limit> 45 M.P.H.	Speed Limit<= 45 M.P.H.(plus ramps)				Remarks	Insp.

Recap of Concrete Pavement Smoothness

Line #:		Plan Quan:	Lump Sum							
Date	Lane	Sta. to Sta.	Pavement Section #	Trace#1 Roughness (inches)	Trace#1 Pro. Index (in/mile)	Trace#2 Roughness (inches)	Trace#2 Pro. Index (in/mile)	Average Pro. Index (in/mile)	Remarks	Insp.

Recap of Bump Locations

		right	left	Date					
Date	Lane	Station (R or L)		Corrected			Remarks		Insp.

Agg. Gradations (Type *)					
Date					
Pro. Code.					
Mtl. Code					
Sampled From					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
*(Sieve Screens)					
Tons					
Type Insp.					
Results.					
Insp					
CMS #					

READY MIX TRUCK INSPECTION (Record truck data, not slumps unless calibrating trucks)											
		Truck No.									
		Make									
		Serial No.									
		Mfg/Cap									
	Cu Yd Mixed for Testing										
	Theo Slump										
	Actual Beginning Slump										
	Actual Midpoint Slump										
	Actual End of Load Slump										
	Drum Condition										
	Water Tank										
	Water Valve										
	Rev Counter										
	Agitate R.P.M.										
		Mixing									
	Mfg's Plate										
		Accepted									
		Remarks									
		Insp									

CEMENT SCALES CHECK											
Serial No.						Unit weight in pounds (kilogram)					
Actual	Scale	Percent	Accept								
Weight	Reading	Error	Reject	Insp.		Manfacturer:			Remarks		

VIBRATOR CHECK FOR STRUCTURES AND BRIDGE DECKS

Date	Vibrator Serial Number	Head Size (Inches)	Frequency Of Vibrator (Vibrations / Minute)	Average Amplitude (Inches)	Radius Of Action (Inches)	Remarks		Insp	
	EACH VIBRATOR SHOULD BE CHECKED AND RECORDED.								

TRUCK IDENTIFICATION DATA

Date	Truck No.	License Plate No.	Fuel Capacity	Fuel Type	Initial Tare Wt.	Description	Remarks	Insp

THIS PLATE WILL SERVE AS A MEANS OF IDENTIFYING AND DESCRIBING HAUL UNITS. THE INFORMATION ON FUEL TYPE AND CAPACITY AND THE TARE WEIGHT IS OF VALUE ONLY ON THOSE HAUL UNITS DELIVERING MATERIAL ON A WEIGHT BASIS. FUEL AND TARE WTS. NOT NEEDED FOR CONCRETE HAULING.

Column Width: 8.43 Row Height: 17.25 Layout for a Level Book

RANDOM OPERATION CHECKS for SLIPFORM PAVER (REQUIRED for MAINLINE PAVING)

Date	
Time	
Sta.	
V #1 freq.	
V #2 freq.	
V#3 freq.	
V #4 freq.	
V #5 freq.	
V #6 freq.	
V #7 freq.	
V #8 freq.	
Track Spd.	
Auto. Record On	Y/N

Insp.

This plate is a record of the information obtained in the operational check of the slipform paver. Manufactures specification sheet should be submitted for each project.

This check should be made at random times throughout the day to monitor paver operation. (See sec. 154.5 2007 Spec. Book for requirements.)