

Procedure for the Preparation of the Contract Materials Audit Report ("2059")

February 1, 2018

The Louisiana Department of Transportation and Development's Materials and Testing Section has developed the following procedure to ensure proper Quality Assurance documentation for each construction project completed by the DOTD. The term "2059" is derived from the cover sheet of the Summary of Test Results that was used in the legacy MATT system (Form 03-40-2059). The following checklist is intended to minimize possible delays in processing due to errors or lack of documentation. Examples of these documents are included in the appendix. Items and documents not required for submission with the 2059, including Quality Control documentation, are to be maintained for at least five years in the Project Engineer's office. The documentation for a "2059" should include the following items, in the order listed:

1. Summary Report

The Site Manager Materials generated Summary Report is part of the Department's Quality Assurance document files submitted at the end of a project for final acceptance and payment. The Summary Report may be generated by running Report Number 9 on the Site Manager Materials website on the DOTD intranet (<http://trnsportapps/SiteManagerMaterials/MaterialsRptSelection/ContractMaterialsAudit.aspx>). This report will also include the Sampling Plan and the Disposition of Failing Samples.

2. Sampling Plan

The Sampling Plan lists the minimal number of documents and samples required based on the quantities listed in the contract to ensure adequate assurance of materials incorporated into the project. The contract specifies the materials, the specification book edition, and any supplemental specifications or special provisions to be used for the project. The Sampling Plan is based on the frequencies in the Materials Sampling Manual.

3. Errors and Omissions Report

The Errors and Omissions Report is the Project Engineer's account of any material used on the project that has not been tested and/or documented according to the sampling plan. The Errors and Omissions Report lists tests, samples, and documentation that did not take place as opposed to the failing test report that deals with tests that did not meet specifications. Each listing on the Errors and Omissions Report should include the following:

- a. The item number,
- b. The error and omission that occurred,
- c. Why it occurred (accidental, engineering judgment etc.) and
- d. Basis for acceptance.

The Project Engineer's signature on this document indicates that he is taking professional responsibility for the item's present and future performance. The Project Engineer must sign this document.

4. Disposition of Failing Samples

The Disposition of Failing Samples lists samples that fail to meet specifications. The disposition remarks also state what was done with the failing samples. The failing material is not to be used on the project except in special cases, usually at reduced pay. When the Engineer receives a failing test report, he/she determines the proper disposition of the failing material. The Engineer will also investigate, explain, and sign the report.

5. Job Mix Formulas & Mix Designs

All Asphaltic Concrete Job Mix Formula(s) (JMF) and Portland Cement Concrete Mix Design(s) must be included with the project documentation. A JMF or mix design is the recipe listing the amounts, types, and sources of materials used to produce a product. All materials on a JMF or mix design must have been sampled and tested, either by project personnel, certificate or by being included on an Approved Materials List, prior to the job mix being approved. The following items should be included for asphaltic and portland cement concrete:

Asphaltic Concrete –

- a. All Job Mix Formulas
- b. Superpave lot % pay data
- c. Validation form
- d. All roadway reports
- e. All plant reports

Portland Cement Concrete –

- a. Lot % pay data
- b. Cores/cylinders report

6. Independent Assurance Sampling and Testing Report

Include Independent Assurance (IA) test reports, if required, to conform with FHWA requirements. IA testing evaluates the sampling & testing personnel and test equipment and serves as a check on the reliability of the test results.

7. Reinforcing Steel Bar Data

Include mill test reports, including all applicable physical and chemical tests, to show compliance with “Buy America” provisions.

8. Striping Reflectivity Test Report (For Bonus)

If applicable, include the reflectivity data of the thermoplastic striping that qualifies for bonus payment.

APPENDIX



Louisiana Dept. of Transportation and Development		Jun 28, 2017
Contract Materials Audit Report Summary of Samples and Test Results		
Contract ID : H.010182.6-R1 Vendor : Wharton-Smith, Inc Vendor ID : 52227000 Project Engineer : Elisar, Aaron	Type of Work : Clearing and grubbing Parish : Ascension Location Info : LA 42 Widening: Clear, Grub and Utility LA 42 WIDENING: CLEAR, GRUB AND UTILITY	
<p>Transmitted herewith are copies of documents used to determine the quality of all materials for the above project, including the project sampling plans, the SiteManager System generated 2059 report, and the Independent Assurance Certification (if required).</p> <p>All materials used on the project were in conformity with the requirements of the contract as indicated by acceptance test results and other documentation. Exceptions to this, if any, are indicated below and explained on the referenced reports.</p> <p> <input checked="" type="checkbox"/> Disposition of failing test results <input type="checkbox"/> No failing test <hr/> Error and Omission Report <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Not applicable <hr/> </p> <p>  _____ Certified Correct Project Engineer Date </p> <p>  _____ Verified & Approved, District Laboratory Engineer Date </p> <p> _____ Approved, Area Engineer Date </p> <p style="text-align: right; margin-right: 100px;">07-20-2017</p>		

Figure 1
Example - 2059 Summary Page

ERROR AND OMISSION REPORT

- Item 402** No sample is needed for this item.
- Item 705** After numerous attempts the contractor failed to send the required paperwork.

Figure 2
Example - Errors and Omissions Report

Louisiana Dept. of Transportation and Development
2059 - Disposition of Failing Samples

Contract ID : H.010182.6-R1

Total Number of Failing Samples :

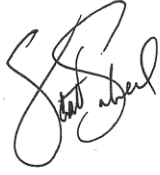
A handwritten signature in black ink, appearing to read "John A. ...", is located in the upper left corner of the main content area.

Figure 3
Example - Disposition of Failing Samples

Line Item	Item Code - Description	Bid Quantity	Final Quantity	Material Code - Material Name	Sample Type	Minimum Number of Samples	Number of Samples Taken
0010	204-02-00100 - Temporary Hay or Straw Bales	198	5	0204G000020 - Acceptance-Temporary Erosion Control	Acceptance	1	1
0011	204-05-00100 - Temporary Sediment Check Dams (Hay)	22	11	0204G000020 - Acceptance-Temporary Erosion Control	Acceptance	1	1
0012	204-08-00100 - Temporary Silt Fencing	39654	2999	0204G000020 - Acceptance-Temporary Erosion Control	Acceptance	1	1
0013	402-01-00100 - Traffic Maintenance Aggregate (Vehicular Measurement)	500	4408.7	1003M03270 - Agg, Cr Stone for Surface Course	Acceptance	1	0
0014	502-01-00200 - Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous	2071.4	2318.96	1002M00030 - Binder PG 64-22	Acceptance	0	7
0014	502-01-00200 - Superpave Asphaltic Concrete, Drives, Turnouts and Miscellaneous	2071.4	2318.96	1002M00035 - Binder PG 67-22	Acceptance	0	1
0015	705-01-00100 - Barbed Wire Fence	3359.89	4328	1008M00010 - Cold Galvanizing Repair Compound	Acceptance	0	1
0015	705-01-00100 - Barbed Wire Fence	3359.89	4328	1010M00010 - Fence, Hog Rings	Acceptance	0	1
0015	705-01-00100 - Barbed Wire Fence	3359.89	4328	1010M00025 - Fence, Wire Ties	Acceptance	0	1
0015	705-01-00100 - Barbed Wire Fence	3359.89	4328	1014M00380 - Timber Post and Brace	Acceptance	0	1
0015	705-01-00100 - Barbed Wire Fence	3359.89	4328	1018M01180 - Ground Rod Assembly	Acceptance	1	1
0016	705-02-00100 - Combination Mesh & Barbed Wire Fence	289.57	722	1010M00010 - Fence, Hog Rings	Acceptance	0	1
0016	705-02-00100 - Combination Mesh & Barbed Wire Fence	289.57	722	1010M00025 - Fence, Wire Ties	Acceptance	0	1
0016	705-02-00100 - Combination Mesh & Barbed Wire Fence	289.57	722	1010M00090 - Fence, Chain Link Fabric	Acceptance	0	1
0016	705-02-00100 - Combination Mesh & Barbed Wire Fence	289.57	722	1010M00500 - Fence Chain Link Corner Post	Acceptance	0	1
0016	705-02-00100 - Combination Mesh & Barbed Wire Fence	289.57	722	1010M00520 - Fence Chain Link Brace Rail	Acceptance	1	1
0017	705-04-00100 - Single Swinging Driveway Gates	3	4	0705M00030 - Gate for Field & Line Type Fence	Acceptance	0	0
0018	705-05-00100 - Double Swinging Driveway Gates	3	1	0705M00030 - Gate for Field & Line Type Fence	Acceptance	0	0
0019	705-06-00100 - Chain Link Fence (4-Foot Height)	729.44	278	1008M00010 - Cold Galvanizing Repair Compound	Acceptance	0	1
0019	705-06-00100 - Chain Link Fence (4-Foot Height)	729.44	278	1010M00010 - Fence, Hog Rings	Acceptance	0	2
0019	705-06-00100 - Chain Link Fence (4-Foot Height)	729.44	278	1010M00025 - Fence, Wire Ties	Acceptance	0	2
0019	705-06-00100 - Chain Link Fence (4-Foot Height)	729.44	278	1010M00050 - Tension Wire, Galvanized Coated Steel	Acceptance	0	1
0019	705-06-00100 - Chain Link Fence (4-Foot Height)	729.44	278	1010M00560 - Fence Chain Link Gate Post	Acceptance	0	1
0019	705-06-00100 - Chain Link Fence (4-Foot Height)	729.44	278	1010M00610 - Fence Chain Link Post Top Rail	Acceptance	1	1
0019	705-06-00100 - Chain Link Fence (4-Foot Height)	729.44	278	1010M00630 - Fence Chain Link Gate	Acceptance	1	1
0019	705-06-00100 - Chain Link Fence (4-Foot Height)	729.44	278	1018M01180 - Ground Rod Assembly	Acceptance	1	1
0020	705-06-00200 - Chain Link Fence (5-Foot Height)	371.89	180	1010M00010 - Fence, Hog Rings	Acceptance	0	1
0020	705-06-00200 - Chain Link Fence (5-Foot Height)	371.89	180	1010M00025 - Fence, Wire Ties	Acceptance	0	1
0021	705-06-00300 - Chain Link Fence (6-Foot Height)	194.97	50	1010M00010 - Fence, Hog Rings	Acceptance	0	1
0021	705-06-00300 - Chain Link Fence (6-Foot Height)	194.97	50	1010M00025 - Fence, Wire Ties	Acceptance	0	1
0023	705-06-05040 - 12-Foot Double Gates for Chain Link Fence (6-Foot Height)	2	1	1010M00560 - Fence Chain Link Gate Post	Acceptance	0	0
0023	705-06-05040 - 12-Foot Double Gates for Chain Link Fence (6-Foot Height)	2	1	1010M00630 - Fence Chain Link Gate	Acceptance	1	0

See E+0

See E+0
See E+0

See E+0

See E+0

Figure 4
Example – Construction Audit Report

Louisiana Department of Transportation and Development
JMF SUPERPAVE ASPHALTIC CONCRETE MIXTURES

Matrix/English (M/E) (M/E)
 Project No. H010182 Plant Code H624 Specs 1/11
 Plant Type 3 1 = Batch Screenless 2 = Batch Hot Bin 350 Mix Use 08
 ESAL 0 3 = Dryer Drum 4 = Continuous
 Adj. Factor 1.00 ADT/Line 24200 Nom. Agg. Size 0.5 in. AC Corr Factor 0.11
 Project Name LA 42 Project Cont. COASTAL CONVENT Project Engr. -ARRON ELBAR- Scott Labell
 Mix Type 1- incidental Paving Mix Use B-Misc. B.O.

Material	Source Code	Source Name	Aggr. Type	Material Code	Aggr. %	Bulk Sp Gr. Geb	Abs.	FAA	Sand Eq	Flak Elong	CAA	Fc Rate	%Ret #8
Cr. Aggr													100
Cr. Aggr	ABAY	S. LUCAS	LS 78	834	40.4	2.668	0.6			1	100	2	97
RAP Aggr	RP21	ASSUMPTION	RAP	840	19.2	2.673							54
Fine Aggr	ABAY	S. LUCAS	LS1'S	834	24.2	2.657	0.6	47				2	39
Fine Aggr	AX89	S. AGG.	C. SAND	830	16.2	2.634	0.5	41	96				13
Other													
Other													
Other													
Other													
Composite					GSB	2.661	0.74	44	96	1.0			100

Asphalt Cement and Additives						Tensile Strength Ratio	
Material	Source Code	Material Name	Mat'l Code	Source Name	% of Mix	Design:	Control (psi)
Asphalt Cement	41BJ	PG64-32	667	MARATHON	3.3	TSR	128
Rap Asphalt	RP21	ASSUMPTION		RAP	0.6		82
Anti Strip	5730	ADHERE LA2	105	ARRMAZ	0.6	Validation:	Control (psi)
							TSR

Parameter	DESIGN DATA			VALIDATION DATA			JMF Limits (per valid avg)	
	Submittal	Average	Std. Dev	PWL				
Gmm	2.498							
%Gmm,Min	85.4						92	
%Gmm,Max	97.0						98	
VMA	13.0				13		78	
VFA	73				68		78	
% Voids	3.5				2.5		4.5	
% Design AC	4.1							
Comp Temp	290							
% DF Crushed	100				98			
1 1/2 (37.5mm)	100							
1 in (25mm)	100							
3/4 (19mm)	100							
1/2in (12.5mm)	99							
3/8in (9.5mm)	82							
No. 4 (4.75mm)	52							
No. 8(2.36mm)	40							
No. 10(1.18mm)	32							
No. 30(600um)	25							
No. 50(300um)	13							
No. 100(150um)	6							
No. 200(75um)	4.7							
% AC Extracted	4.1							
Dust/Peff	1.15				0.6		1.6	
Gsa	2.660							
Pba	-0.01						≥ 0.0	
Pbe	4.1							

Remarks: WARM MIX DISCHARGE 290 RANGE 270-315

Submitted for Contractor By: OBT1
 Date Submitted: 01/25/16

Karl Langley
 Technician

Proposal Approved Yes No
 By: *Dr. Vasquez*
 Date: 1-26-2016
 Signature

Validation Approved Yes No
 By: _____
 Date: _____

Number of Validation Attempts _____ (y/n)

TSR ≥ 80
 Each PWL Parameter ≥ 71
 Avg. within JMF spec. limits

Approved By: _____
 Date First Used: _____

Figure 5
Example - Job Mix Formula

SuperPave Lot %PAY Data

01/11 Specs

SP# H.010182

Lot 492

H624

JMF Seq. 217

Adj. Factor 1.00

Level A, ½" Wearing

Final Lot Pay
1061 Tons @ 100%

Remarks: All testing waived. Pay per Project Engineer.

Prepared by: *[Signature]* 6/7/17

Approved by: *Dr. Varguez* 06-07-2017

Figure 6
Example - Superpave Lot % Pay Data

SUPERPAVE VALIDATION FORM

Project H010182 Mix Type 1 JMF No. 217 Plant H624 Date
 Lot 492V Lot Size

	#1	#2	#3	#4	#5	Mean	StDev	Q _L	Q _U	PWL _L	PWL _U	PWL	Validate?
Gmm	2.507	2.499				2.5030	0.005857	2.65	2.65	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Gmb, ND	2.402	2.416				2.4090	0.008899	--	--	--	--	--	--
%Gmm, NI	89.6	88.4				88.95	0.7778	--	3.92	--	#VALUE!	#VALUE!	#VALUE!
%Gmm, ND	95.8	96.7				96.25	0.6364	1.18	1.98	#VALUE!	#VALUE!	#VALUE!	#VALUE!
%Voids	4.2	3.3				3.75	0.6364	1.96	1.18	#VALUE!	#VALUE!	#VALUE!	#VALUE!
VMA	13	13				13.00	0.0000	--	--	--	--	--	--
VFA	68	75				71.5	4.950	0.71	1.31	#VALUE!	#VALUE!	#VALUE!	--
Gmb, NM	2.435	2.430				2.4325	0.003536	--	--	--	--	--	--
%Gmm, NM	97.1	97.2				97.15	0.0707	--	12.02	--	#VALUE!	#VALUE!	--
Gmb, NM Est	2.407	2.356				2.3816	0.036062	--	--	--	--	--	--
%Gmm, ND	96.3	96.2				96.25	0.0707	10.61	17.68	#VALUE!	#VALUE!	#VALUE!	--
Gcb agg	2.661	2.661				2.6610	0.000000	--	--	--	--	--	--
Comp Temp	290	290				290.00	0.0000	--	--	--	--	--	--
2"	50	100.0	100.0			100.00	0.0000	--	--	--	--	--	--
1.5"	37.5	100.0	100.0			100.00	0.0000	--	--	--	--	--	--
1"	25	100.0	100.0			100.00	0.0000	--	--	--	--	--	--
3/4"	19	100.0	100.0			100.00	0.0000	--	--	--	--	--	--
1/2"	12.5	96.0	95.4			95.70	0.4243	9.43	9.43	#VALUE!	#VALUE!	#VALUE!	--
3/8"	9.5	82.8	82.4			82.60	0.2828	14.14	14.14	#VALUE!	#VALUE!	#VALUE!	--
#4	4.75	53.2	52.4			52.80	0.5657	7.07	7.07	#VALUE!	#VALUE!	#VALUE!	--
#8	2.96	38.9	40.5			39.70	1.1314	2.65	2.65	#VALUE!	#VALUE!	#VALUE!	#VALUE!
#16	1.18	31.3	33.1			32.20	1.2728	1.57	1.57	#VALUE!	#VALUE!	#VALUE!	#VALUE!
#30	0.60	25.4	25.7			25.55	0.2121	9.43	9.43	#VALUE!	#VALUE!	#VALUE!	#VALUE!
#50	0.30	12.4	12.6			12.50	0.1414	14.14	14.14	#VALUE!	#VALUE!	#VALUE!	#VALUE!
#100	0.15	9.0	7.1			8.05	1.3485	1.49	1.49	#VALUE!	#VALUE!	#VALUE!	#VALUE!
#200	0.075	4.4	4.2			4.30	0.1414	4.95	4.95	#VALUE!	#VALUE!	#VALUE!	#VALUE!
%AC	4.2	4.1				4.15	0.0707	2.83	2.83	#VALUE!	#VALUE!	#VALUE!	#VALUE!
dust/Peff	1.10	1.02				1.080	0.05657	8.13	9.55	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Gse	2.671	2.661				2.6660	0.007071	--	--	--	--	--	--
Pabsorb	0.14	0.00				0.070	0.09899	--	--	--	--	--	--
Pbe	4.0	4.1				4.05	0.07070	--	--	--	--	--	--
%AntiStrip	0.6	0.6				0.60	0.0000	--	--	--	--	--	--
%Crushed	99.0	99.0				99.00	0.0000	--	--	--	--	--	--

Roadway Density Cores				
Sublot A	Sublot B	Sublot C	Sublot D	Sublot E
--	--	--	--	--

*uses PWL for Mainline** if 3 or more sublots are Mainline use
 **Mainline = WC, Binder, Base, Airport, Airport(IRI)

Plant Voids
 Mainline Density

Mean StDev Q_L Q_U PWL

	Tonnage	Voids %Pay	Density %Pay	IRI %Pay	Avg
WC					
Binder					
Base					
Airport					
Airport(IRI)					
Sublot A					
Sublot B					
Sublot C					
Sublot D					
Sublot E					
Total Tons	0				

Final % Pay --

David J. Cotton
 DOTD Cert. AC Plant Tech.

[Signature]
 QA Cert. Asphaltic Concrete Plant Tech.

APPROVED BY: District Lab Engr.

Remarks: _____

**Figure 7
 Example - Validation Form**

Louisiana Department of Transportation and Development
SUPERPAVE ASPHALTIC CONCRETE ROADWAY REPORT

DOTD 03-22-3094
 Adopted 10/07

Proj. No. H110110118216 Design Level A Mix Type 011 Plant Code H1624 JMF No. 2117
 Previous Sublot (Circle): A B C D E Lot No. 492 Sublot A Primary Mix Use Code 018 Spec Code 1
 Pavement Code 016 Submitter Code 0603 Purp Code 3 Nom. Max Aggr Size, in (mm) 0.5
 From Station 104 + 52 To Station 288 + 79 Location R + L Adjust. Factor 1
 From Station _____ + _____ To Station _____ + _____ Location _____ Proj Engr Scott Lobell
 From Station _____ + _____ To Station _____ + _____ Location _____ Start Date 01-28-16
 From Station _____ + _____ To Station _____ + _____ Location _____ End Date 07-21-16

**** Yield ****									
SqYds (W) (sq m)	Theo. Yield, lb/yd ² (kg/m ²)	Actual Yield, lb/yd ² (kg/m ²)	Density, %Gmm Required _____						
<u>16055</u>	110 lb/yd ² /in x Plan Thick., in + Adj. Factor 2.35 kg/m ² /mm x Plan Thick., mm + Adj. Factor	Portion of Lot Used (U) U x 2000 + W (U x 1000 + W)	Avg Plant Max Grav (Gmm) _____						
**** Pavement Density ****									
Sample No.	Date	Mix Use	Station	Thickness in. (mm)	Wt. (Mass) In Air (A)	Wt. (Mass) In Water (B)	Wt. (Mass) SSD (C)	Bulk Sp Gr (P) A / (C - B)	% Pav. Density (P/G mm x 100)
<u>N-A</u>									
**** Project Quantity (tons) Mg ****					**** Surface Tolerance ****				
Previous <u>0</u> + Portion of Lot Used (U) <u>1061</u>					Profile Index, in/mile (mm/km) _____				
Total to Date <u>1061</u>					IRI, in/mile (mm/km) _____ % Pay _____				

Sublot Remarks _____
 Lot Remarks _____
 Pay Item 5021-011-00200
 APPROVED BY: [Signature]
 CER* PLANT INSP: _____ CERT RDWY INSP: [Signature] DATE: 07-22-16

Figure 8
Example - Roadway Report

Superpave Asphalt Concrete Plant Report

Proj. No.	H010182	Plant	H624	Design Level	A	Mix Type	1- Incidental Paving
Proj. No.	LA. 42	JMF No.	217	Lot No.	492V	Mix Use	8-Misc.
Lot Size		Start Date	1/28/2016	End Date	4/26/2016	Purpose Code	3-Accept.
No. Sublots	2	%AC	4.1	G _{ab}	2.661	P _s	95.9
Roadway Category		exclusions/grindings <input type="checkbox"/> (yes/no)					
IRI							

Theoretical Maximum Specific Gravity, G _{mm} "Rice" (AASHTO T209 or DOTD TR327)																	
	G _{mm1}		G _{mm2}		G _{mm3}		G _{mm4}		G _{mm5}								
	A	B	A	B	A	B	A	B	A	B	A	B					
Wt of Mix	1525.1	1509.2	1581.2	1830.1													
Wt of Pyc & H2O	1371.2	1363.3	1371.2	1363.3													
Wt of Pyc, H2O & Mix	2287.6	2270.4	2320.1	2460.3													
G _{mm} , Rice Gravity	2.506	2.507	2.501	2.496													
Average G _{mm}	G _{mm1} = 2.507		G _{mm2} = 2.499		G _{mm3} =		G _{mm4} =		G _{mm5} =								
Plant Test Properties (AASHTO T166, T209, T245/DOTD TR 304, 305, & 327)																	
Sublot No.	1			2			3			4			5				
G _{mm}	2.507			2.499													
Wt (Mass) in Air	4810.5			4800.3													
Wt (Mass) in Water	2821.1			2822.9													
SSD Wt (Mass)	4824.0			4809.4													
G _{mp} , ND	2.402			2.416													
Density	149.9			150.8													
% G _{mm} , ND	95.8			96.7													
HL @ NI (mm)	123.0			124.9													
HL @ ND (mm)	114.9			114.2													
% G _{mm} , NI	89.5			88.4													
% Voids, V _a	4.2			3.3													
% VMA	13.0			13.0													
% VFA	68			75													
% Asphalt Content	1st Meter Reading, AM	Asph	Aggr	RAP	AntiStrip	Asph	Aggr	RAP	AntiStrip	Asph	Aggr	RAP	AntiStrip	Asph	Aggr	RAP	AntiStrip
	1st Meter Reading, PM																
	2nd Meter Reading, AM																
	2nd Meter Reading, PM																
% AC Meter	3.3			3.3													
Comp. Temp.	290			290													
Dust/P _{eff}	1.10			1.02													
G ₂₀	2.671			2.661													
P ₂₀	0.1			0.0													
P ₃₀	4.0			4.1													
Total Sublot Tons																	
Sample Taken, Tons Accum.	100			100													
Mix Temperature	290			280													
Remarks:	Test 1	Test 2															
	% Anti Strip	0.6	0.6														
% Lime																	

David J. Cotten
DOTD Cert. Asphaltic Concrete Plant Tech.

RDZ
QC Cert. Asphaltic Concrete Plant Tech.

APPROVED BY: District Laboratory Engineer

**Figure 9
Example - Plant Report**



DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
INTRADEPARTMENTAL CORRESPONDENCE

REFERRED TO

- ____ REferred FOR ACTION
- ____ ANSWER FOR MY SIGNATURE
- ____ FOR FILE
- ____ FOR YOUR INFORMATION
- ____ FOR SIGNATURE
- ____ RETURN TO ME
- ____ PLEASE SEE ME
- ____ PLEASE TELEPHONE ME
- ____ FOR APPROVAL
- ____ PLEASE ADVISE ME


IN REPLY REFER TO
FILE NO.

STATE PROJECT NO. 216-03-0032
F.A.P. NO. STP-2803(509)
AMBASSADOR CAFFERY PARKWAY EXTENSION
ROUTE LA 89
LAFAYETTE PARISH

BY _____ DATE _____
BY _____ DATE _____
BY _____ DATE _____

MEMORANDUM

TO: MR. JEFF FAUST, P.E.
RESIDENT CONSTRUCTION ENGINEER

FROM: MS. LUANNA F. CAMBAS, P.E.
MATERIALS ENGINEER ADMINISTRATOR 

DATE: April 9, 2010

SUBJECT: FINAL CORE DRILL REPORT

Enclosed is the Final Core Drill Report for the portland cement concrete pavement on the above captioned project. For acceptance coring purposes, this project has been divided into sixty (60) lots.

Lot No. 60 had a Specification Lot Average Thickness of 8.94". With a plan thickness of 9.00", this is a deficiency of 0.06". However, Core No. Z-298. Located at Station 0163+21 indicated a pavement thickness of 7.70", which is a deficiency of more than 1.00". Therefore, in accordance with Section 601.18 of the Specifications, Lot No. 60 is recommended for acceptance at 90% of the contract unit price per lot.

The remainder of this project is recommended for acceptance insofar as the compressive strength with air entrainment, and the thickness of the concrete pavement is concerned.

Your assistance in coordinating the coring of this project with the District Laboratory personnel and the contractor is sincerely appreciated.

If additional information is required, please advise.

LFC:JBW:bw
Attachments

cc: Mr. J. Bertin Wintz, P.E.
Mr. Michael J. Boudreaux, P.E.
Mr. Khiet Ngo, P.E.

RECOMMENDED FOR APPROVAL _____ DATE _____

RECOMMENDED FOR APPROVAL _____ DATE _____

RECOMMENDED FOR APPROVAL _____ DATE _____

APPROVED _____ DATE _____

AN EQUAL OPPORTUNITY EMPLOYER
A DRUG-FREE WORKPLACE

02 53 2058

Figure 10
Example – Lot % Pay Data

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
TYPE D PAVING CONCRETE (854)

03-11-2010

PROJECT NUMBER.... 216-03-0032 LOT NUMBER..... 60
LABORATORY NO..... 22-738582 PURPOSE..... ACCEPTANCE
SPEC CODE..... 1 FROM STATION..... 0158+22
SECTION LENGTH, FT. 998 TO STATION..... 0168+20
SECTION WIDTH, FT. 28 APPROX AREA, SQ YD. 3281
AIR ENT. ADMIX.... YES PLAN THICKNESS, IN. 9.00

SUBMITTED BY... PROJECT ENGINEER - JEFF FAUST (GANG 203-LAFAYETT)

REMARKS.....

ITEM NUMBER.... 601-01-I

CORE ID	STATION	POSITION	DATE POURED	DATE CORED	DATE TESTED	AGE DAYS	THICK IN	STRENGTH PSI	
Z-296	0159+88	RT	10-16-2009	01-25-2010	02-11-2010	118	10.10	5050	
Z-297	0161+54	RT	10-16-2009	01-25-2010	02-11-2010	118	10.50	4770	
Z-298	0163+21	RT	10-16-2009	01-25-2010	02-11-2010	118	7.70	4180	
Z-299	0164+87	RT	10-16-2009	01-25-2010	02-11-2010	118	9.50	5350	
Z-300	0166+53	RT	10-16-2009	01-25-2010	02-11-2010	118	10.50	4910	
PERCENT PAY.... 90							SPEC. LOT AVG.	8.94	4852

REMARKS....

COPIES TO:
ASST. CHIEF CONST. ENGINEER
ESTIMATES SECTION
PROJECT ENGINEER
DISTRICT LAB ENGINEER

FHWA / FAA

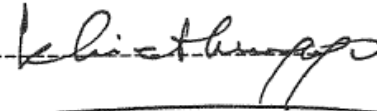
MATERIALS ENGINEER BY 

Figure 11
Example - Cores Report

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

DISTRICT 03 LABORATORY
INDEPENDENT ASSURANCE PROGRAM

COMPARISON RESULTS OF COMPRESSIVE STRENGTH,
SLUMP & AIR FOR CONCRETE


PROJECT NO. H.004932.6 F.A.P. NO. 5.109501 DATE 3/22/2017
 I.A. SAMPLE NO. 08-08, 08-09, 08-10 I.A. LAB NO. 03-562728, 03-562729, 03-562730
 ACCEPT. SAMPLE NO. 64-2-A1 ACCEPT. LAB NO. _____
 VERIF. SAMPLE NO. OV-IA VERIF. LAB NO. 03-562725, 03-562726, 03-562727
 MATERIAL STRUCTURAL PORTLAND CEMENT CONCRETE (CLASS A) LOT NO. IA
 SAMPLE TYPE
 (INDEPENDENT OR SPLIT) INDEPENDENT
 REMARKS Class A Concrete for Cap Bent 8w


RESULTS OF COMPRESSIVE STRENGTH, SLUMP & AIR

TEST	IA SAMPLE	ACCEPT. SAMPLE	VERIF. SAMPLE	TOLERANCE	VARIATION (BETWEEN IA & ACCEPT.)	VARIATION (BETWEEN IA & VERIF.)
COMPRESSIVE STRENGTH (28 DAYS)	8797	8580	9207	7%	2	5
SLUMP	6.75	6.75	6.75	0.5"	0	0
AIR	2.0	2.25	2.0	0.5%	0.25	0

COMMENTS Verifies

cc:
Project File
Materials Engineer Administrator
Project Manager - Tim Nickel



 COMPARISON BY


 DISTRICT LAB ENGINEER

Figure 12
Example - IA Report (page 1)

Compare To

IA

08-08
08-09
08-10

Louisiana Department of Transportation and Development

STRUCTURAL CONCRETE TESTS

(DOTD TR 228 & TR 230)

DOTD 03-22-0740

Metric / English

Rev. 7/98

E) Located on MATT Menu

Material Code 8102

Submitted By Q190

Plant Code C3102

Lot No. IA

Quantity 11166

Spec Code 3

7. Design 8. Indep. Assur. 9. Pre. Source Test

Mix Design No. 1410 Date Rec'd. (lab) 3-23-17

Admixture: Y = Yes Air Y WR-NS N WR-SR Y

Remarks 1 LIAP BENT 18W

SITIA 116141717

Item No. 8105

Cylinders Made By DALE GRESHAMER Acceptance Tests By DALE GRESHAMER

Batch Number 2

Date Tested 04-11-17

Acceptance Tests

Slump (TR 207), mm (in) 61/15 Air Content (TR 202), % 2.10

Sample No.	Laboratory No.	Cond.	Break	Age Days	Diam. mm (in)	Area mm ² (in ²)	Max. Load kN(lb)	Strength MPa (PSI)
<u>QV-IA</u>	<u>03151612171215</u>	<u>1</u>	<u>1</u>	<u>218</u>	<u>399/400</u>	<u>126/121,340</u>	<u>121,500</u>	<u>1916410</u>
<u>QV-IA</u>	<u>03151612171216</u>	<u>1</u>	<u>1</u>	<u>218</u>	<u>399/400</u>	<u>126/111,580</u>	<u>111,500</u>	<u>18131510</u>
<u>QV-IA</u>	<u>03151612171217</u>	<u>1</u>	<u>1</u>	<u>218</u>	<u>400/400</u>	<u>126/114,930</u>	<u>115,000</u>	<u>1911310</u>

Time Made: 1:25 P.M Critical Strength: Low 7830 High 10590 Batch Avg. 9207

Batch Number _____

Date Tested _____

Acceptance Tests

Slump (TR 207), mm (in) _____ Air Content (TR 202), % _____

Sample No.	Laboratory No.	Cond.	Break	Age Days	Diam. mm (in)	Area mm ² (in ²)	Max. Load kN(lb)	Strength MPa (PSI)

Time Made: _____ Critical Strength: Low _____ High _____ Batch Avg. _____

Break Codes: 1 = Satisfactory 2 = Unsatisfactory

Cond. Codes: 1 = Good 2 = Improperly Made 3 = Damaged 4 = Frozen

Average Strength for Lot 9207

Tested By: BM

Checked By: mm

Remarks 2 _____

% Pay 111

Approved By Marcia P. [Signature]

11-21-17

Figure 13
Example - IA Report (page 2)

Louisiana Department of Transportation and Development
STRUCTURAL CONCRETE TESTS
(DOTD TR 226 & TR 230)

Metric / English (M or E) Located on MATT Menu

Project No. H.004932 Material Code 821 Lot No. 64
 Date Sampled 3-22-17 Submitted By 0830 Quantity 40 CU YD
 Purpose Code 3 Plant Code C302 Spec Code 1
 1. Qual. Cont. 4. Check 7. Design
 2. Verification 5. Resample 8. Indep. Assur.
 3. Acceptance 6. Source Appr. 9. Pre Source Test
 Mix Design No. 40 Date Rec'd. (lab) 3/24/17
 Admixture: Y = Yes Air WR-NS WR-SR
 N = No

Remarks 1 CLASS AA(M) Bent 8 Cap w.B
Cylinder for IA Please Call this # 337-260-6170
Dur 03 Cap Before Breaking
Cylinders
 Item No. 805/901

Cylinders Made By V MITCHAM Acceptance Tests By RON EVANS

Batch Number		Acceptance Tests							
<u>2</u>		Slump (TR 207), mm (in)		Air Content (TR 202), %					
<u>04-1191-117</u>		<u>6.75</u>		<u>2.25</u>					
Sample No.	Laboratory No.	Cond.	Break	Age Days	Diam. Mm (in)	Area mm ² (in ²)	Max. Load kN (lb)	Strength Mpa (PSI)	
<u>64-2-A1</u>	<u> </u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>102</u>	<u>12.6</u>	<u>104205</u>	<u>182170</u>	
<u>64-2-A1</u>	<u> </u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>100</u>	<u>12.6</u>	<u>110240</u>	<u>187150</u>	
<u>64-2-A1</u>	<u> </u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>102</u>	<u>12.6</u>	<u>109835</u>	<u>187120</u>	
Time Made:		Critical Strength: Low		<u>7290</u>	High		<u>3870</u>	Batch Avg. <u>8580</u>	

Batch Number		Acceptance Tests							
		Slump (TR 207), mm (in)		Air Content (TR 202), %					
Sample No.	Laboratory No.	Cond.	Break	Age Days	Diam. Mm (in)	Area mm ² (in ²)	Max. Load kN (lb)	Strength Mpa (PSI)	
Time Made:		Critical Strength: Low			High			Batch Avg.	

Break Codes: 1 = Satisfactory 2 = Unsatisfactory
 Cond. Codes: 1 = Good 2 = Improperly Made 3 = Damaged 4 = Frozen
 Average Strength For Lot 8580
 Tested By: RE
 Checked By: SHAWN M. JANCE

Remarks 2 28 DAY BREAK
 % Pay
 Approved By

Figure 15
Example - IA Report (page 4)

Smpl ID:	00253761178G102034	Status:	Pass
Revised By:		Revising:	
Link To:		Link From:	
Smpl Type:	Acceptance	Acpt Meth:	Test Results
Material:	0806G00020	Acceptance-Reinforcing Steel-Any-Size	
Sampler:	00253761	Ronkartz, Michael	
P/S:	CMC Steel South Carolina - Cayce-West Columbia, SC	APS00000820	
Type:	Approved Manufacturer	City: Cayce-West Columbia	
Prod Nm:	ReStl Accept CMCSteelSC #3-18		
Mnfctr:	CMC Steel South Carolina - Cayce-West Columbia, SC	APS00000820	
Extra Info:	H.012128.6	Geog Area: N/A	
Intd Use:	Box Culvert Steel bars 4-6		
Repr Qty:	81,898.000	VARIABLE UNIT	Lab Control Number: CN00253761178G102034
Auth By:	SYSTEM	Auth Date:	08/16/17
Lock Type:		Locked By:	
		Lab Reference Number:	
		Lock Date:	

H.012128.6

805

806

Figure 16
Example - Reinforcing Steel Test Report (page 1)



CMC STEEL SOUTH CAROLINA
310 New State Road
Cayce SC 29033-3704

CERTIFIED MILL TEST REPORT
For additional copies call
830-372-8771

We hereby certify that the test results presented here
are accurate and conform to the reported grade specification

Richard S. Ray
Richard S. Ray - CMC Steel SC

Quality Assurance Manager

HEAT NO.:2061092 SECTION: REBAR 13MM (#4) 20'0" 420/80 GRADE: ASTM A615-16 Gr 420/60 ROLL DATE: 07/09/2017 MELT DATE: 07/07/2017 Cert. No.: 82159751 / 061092D130	S CMC Rebar Slidell O L HAAS ROAD D PEARL RIVER LA T US 70452-3330 O	4 S CMC Capitol Steel Slidell H I 38324 Haas Road P Pearl River LA T US 70452-3330 O 9858635371 O 9858635318	Delivery#: 82159751 BOL#: 72157849 CUST PO#: CUST P/N: DLVRY LBS / HEAT: 8124.000 LB DLVRY PCS / HEAT: 608 EA
--	---	---	--

Characteristic	Value	Characteristic	Value	Characteristic	Value
C	0.40%	Elongation test 1	11%		
Mn	0.81%	Elongation Gage Lgth test 1	8IN		
P	0.013%	Bend Test Diameter	1.750IN		
S	0.028%	Bend Test 1	Passed		
Si	0.24%	Rebar Deformation Avg. Spaci	0.327IN		
Cu	0.34%	Rebar Deformation Avg. Heigh	0.035IN		
Cr	0.23%	Rebar Deformation Max. Gap	0.123IN		
Ni	0.15%				
Mo	0.047%				
V	0.000%				
Cb	0.000%				
Sn	0.009%				
Al	0.000%				
Ti	0.001%				
N	0.0118%				
Yield Strength test 1	69.8ksi				
Yield Strength test 1 (metri	481MPa				
Tensile Strength test 1	107.1ksi				
Tensile Strength 1 (metric)	739MPa				
				The Following is true of the material represented by this MTR: <ul style="list-style-type: none"> *Material is fully killed *100% melted and rolled in the USA *EN 10204:2004 3.1 compliant *Contains no weld repair *Contains no Mercury contamination *Manufactured in accordance with the latest version of the plant quality manual *Meets the "Buy America" requirements of 23 CFR635.410 	

REMARKS :

08/11/2017 15:46:57
Page 1 OF 1

Figure 17
Example - Reinforcing Steel Test Report (page 2)



CMC STEEL TEXAS
1 STEEL MILL DRIVE
SEGUIN TX 78155-7510

CERTIFIED MILL TEST REPORT
For additional copies call
830-372-8771

We hereby certify that the test results presented here
are accurate and conform to the reported grade specification

Tommy Hewitt
TOMMY HEWITT

Quality Assurance Manager

HEAT NO.:3072899 SECTION: REBAR 16MM (#5) 40'0" 420/80 GRADE: ASTM A615-16 Gr 420/80 ROLL DATE: 07/23/2017 MELT DATE: 07/17/2017 Cart. No.: 82151900 / 072899A765	S O L D T O	CMC Rebar Slidell HAAS ROAD PEARL RIVER LA US 70452-3330	5	S H I P T O	CMC Capitol Steel Slidell 38324 Haas Road Pearl River LA US 70452-3330 9858635371 9858635318	Delivery#: 62151900 BOL#: 72146274 CUST PO#: CUST P/N: DLVRY LBS / HEAT: 24030,000 LB DLVRY PCS / HEAT: 576 EA
--	----------------------------	---	---	----------------------------	---	---

Characteristic	Value	Characteristic	Value	Characteristic	Value
C	0.41%				
Mn	0.72%				
P	0.016%				
S	0.029%				
Si	0.16%				
Cu	0.29%				
Cr	0.17%				
Ni	0.35%				
Mo	0.082%				
V	0.001%				
Cb	0.000%				
Sn	0.008%				
Al	0.001%				
Yield Strength test 1	61.8ksi				
Tensile Strength test 1	100.7ksi				
Elongation test 1	16%				
Elongation Gage Lgth test 1	8IN				
Bond Test Diameter	2.188IN				
Bond Test 1	Passed				
<p>The Following is true of the material represented by this MTR:</p> <ul style="list-style-type: none"> *Material is fully killed *100% melted and rolled in the USA *EN10204:2004 3.1 compliant *Contains no weld repair *Contains no Mercury contamination *Manufactured in accordance with the latest version of the plant quality manual *Meets the "Buy America" requirements of 23 CFR635.410 					

REMARKS :

08/02/2017 12:16:53
Page 1 OF 1

Figure 18
Example - Reinforcing Steel Test Report (page 3)



CMC STEEL TEXAS
1 STEEL MILL DRIVE
SEGUIN TX 78155-7510

CERTIFIED MILL TEST REPORT
For additional copies call
830-372-8771

We hereby certify that the test results presented here
are accurate and conform to the reported grade specification

Tommy Hewitt
TOMMY HEWITT

Quality Assurance Manager

HEAT NO.: 3071738 SECTION: REBAR 19MM (#6) 60"0" 420/60 GRADE: ASTM A615-16 Gr 420/60 ROLL DATE: 05/31/2017 MELT DATE: 05/28/2017 Cert. No.: 82167266 / 071738A053	S O L D T O	CMC Rebar Slidell HAAS ROAD PEARL RIVER LA US 70452-3330	6	S H I P T O	CMC Capital Steel Slidell 38324 Haas Road Pearl River LA US 70452-3330 9858635371 9858635318	Delivery#: 82167266 BOL#: 72153746 CUST PO#: CUST P/N: DLVRY LBS / HEAT: 49744.000 LB DLVRY PCS / HEAT: 552 EA
---	----------------------------	---	---	----------------------------	---	---

Characteristic	Value	Characteristic	Value	Characteristic	Value
C	0.43%				
Mn	0.88%				
P	0.013%				
S	0.042%				
Si	0.22%				
Cu	0.30%				
Cr	0.12%				
Ni	0.18%				
Mo	0.062%				
V	0.001%				
Cb	0.001%				
Sn	0.010%				
Al	0.001%				
Yield Strength test 1	65.0ksi				
Tensile Strength test 1	103.8ksi				
Elongation test 1	14%				
Elongation Gage Lgth test 1	8IN				
Bend Test Diameter	3.750IN				
Bend Test 1	Passed				
<p>The Following is true of the material represented by this MTR:</p> <ul style="list-style-type: none"> *Material is fully killed *100% melted and rolled in the USA *EN10204:2004 3.1 compliant *Contains no weld repair *Contains no Mercury contamination *Manufactured in accordance with the latest version of the plant quality manual *Meets the "Buy America" requirements of 23 CFR635.410 					

REMARKS :

Figure 19
Example - Reinforcing Steel Test Report (page 4)

Entry ID	Date and Time	RL	ARes	Lat	N/S	Long
1	I10;1;W;Y	6/8/2017 9:05	411	411	start test yellow la 1111	
2	I10;1;W;Y	6/8/2017 9:06	425	418		
3	I10;1;W;Y	6/8/2017 9:06	356	397		
4	I10;1;W;Y	6/8/2017 9:07	417	402		
5	I10;1;W;Y	6/8/2017 9:07	353	392		
6	I10;1;W;Y	6/8/2017 9:08	407	395		
7	I10;1;W;Y	6/8/2017 9:08	432	400		
8	I10;1;W;Y	6/8/2017 9:09	356	395		
9	I10;1;W;Y	6/8/2017 9:09	385	394		
10	I10;1;W;Y	6/8/2017 9:09	399	394	avg 394	end test yellow
11	I10;2;W;Y	6/8/2017 9:11	420	420	start test yellow I-10 access rd	
12	I10;2;W;Y	6/8/2017 9:11	392	406		
13	I10;2;W;Y	6/8/2017 9:12	491	434		
14	I10;2;W;Y	6/8/2017 9:13	492	449		
15	I10;2;W;Y	6/8/2017 9:13	452	449		
16	I10;2;W;Y	6/8/2017 9:14	472	453		
17	I10;2;W;Y	6/8/2017 9:14	501	460		
18	I10;2;W;Y	6/8/2017 9:15	450	459		
19	I10;2;W;Y	6/8/2017 9:16	346	446		
20	I10;2;W;Y	6/8/2017 9:16	455	447	avg 447	end test yellow
21	I10;1;E;W	6/8/2017 9:17	408	408	start test white I-10 access rd	
22	I10;1;E;W	6/8/2017 9:18	545	477		
23	I10;1;E;W	6/8/2017 9:19	592	515		
24	I10;1;E;W	6/8/2017 9:20	574	530		
25	I10;1;E;W	6/8/2017 9:21	622	548		
26	I10;1;E;W	6/8/2017 9:21	616	560		
27	I10;1;E;W	6/8/2017 9:22	515	553		
28	I10;1;E;W	6/8/2017 9:23	627	562		
29	I10;1;E;W	6/8/2017 9:24	643	571		
30	I10;1;E;W	6/8/2017 9:25	466	561	avg 561	end test white
31	I10;2;E;W	6/8/2017 9:30	549	549	start test white la 1111	
32	I10;2;E;W	6/8/2017 9:30	502	526		
33	I10;2;E;W	6/8/2017 9:31	506	519		
34	I10;2;E;W	6/8/2017 9:31	568	531		
35	I10;2;E;W	6/8/2017 9:31	566	538		
36	I10;2;E;W	6/8/2017 9:32	634	554		
37	I10;2;E;W	6/8/2017 9:33	607	561		
38	I10;2;E;W	6/8/2017 9:33	391	540		
39	I10;2;E;W	6/8/2017 9:34	428	528		
40	I10;2;E;W	6/8/2017 9:34	581	533	avg 533	end test white

Figure 20
Example – Striping Reflectivity Test Report