

October 2012

Request for Madison County Supervisors:

Re: Horseshoe Lane

The following Madison County residents are requesting the Board of Supervisors consider our request to take Horseshoe Lane, Flora, MS, as is, into their inventory of county roads.

We hope the number of existing residences on this road and the two (2) new proposed residences will influence the necessity to have this road become a county road.

Thank you.

Charles R. Smith 111 horse shoe Lane Flora MS 39071

Shelia Adolph 115 Horse shoe Lane Flora, MS 39071.

Paula Wynn 139 Horseshoe Lane, Flora, MS. 39071

Bayard Lytle 167 Horseshoe Lane Flora, MS 39071

Bunny Wilkins Sarah Hester 195 Horseshoe Lane, MS 39071

Tom Hutton 253 Horseshoe Lane

Bob Robinson 197 HORSESHOE LANE

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NOTHING PROVIDED





**WARNOCK & ASSOCIATES, LLC**  
**ENGINEERING, MANAGEMENT & PLANNING**

November 13, 2012

INVOICE

Banks Engineering & Surveying, Inc.  
115 Lone Wolf Drive, Ste B  
Madison, MS 39110

**RE: GRAYHAWK SUBDIVISION, PART 3-B**  
**MADISON COUNTY, MS**

**SUBDIVISION REVIEW FEE:**

- COST FOR 41 LOTS.....\$ 150.00
- PRELIMINARY PLAT REVIEW.....\$ 50.00
- FINAL PLAT REVIEW.....\$ 50.00
- FILING FEE (\$25 + .50 CENTS PER LOT).....\$ 44.50
- CONSTRUCTION DRAWINGS, per sheet(16 pages).....\$ 800.00

**TOTAL DUE.....\$ 1,094.50**

SINCERELY,

WARNOCK AND ASSOCIATES, LLC.

RUDY M. WARNOCK, JR., P.E.  
COUNTY ENGINEER

Cc: David Overby, County Administrator  
File

"DEDICATED TO EXCELLENCE IN ENGINEERING"

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158 W. CENTER STREET  
CANTON, MS 39046  
601-855-2250 PHONE  
601-855-2599 FAX  
[www.warnockandassociates.com](http://www.warnockandassociates.com)

# **BANKS ENGINEERING & SURVEYING, INC.**

**ENGINEERS • SURVEYORS • PLANNERS**

115 LONE WOLF DRIVE SUITE B • MADISON, MS 39110

(601) 407-1240 • (FAX) 407-1245

November 12, 2012

Warnock & Associates  
Mr. Rudy Warnock

Re: Grayhawk Part Three-B  
Madison County, Mississippi

Dear Rudy:

As per your instruction, we have run survey closures on each lot and the overall boundary for Grayhawk Part Three-B. All closures meet or exceed the Minimum Standards for Professional Land Surveys in the State of Mississippi.

If you have any questions regarding this matter, please do not hesitate to call.

Sincerely,



Nolan P. Williamson, P.E.  
Banks Engineering & Surveying, Inc.

# BANKS ENGINEERING & SURVEYING, INC.

~~ENGINEERS - SURVEYORS - PLANNERS~~

115 Lone Wolf Drive, Suite B • MADISON, MS 39110  
(601) 407-1240 • (FAX) 407-1245

November 12, 2012

Warnock & Associates  
Mr. Rudy Warnock

Re: Grayhawk Part Three-B  
Madison County, Mississippi

Dear Rudy:

The cost for the surface asphalt for the subject property is calculated as follows:

530 tons @ \$92.00 per ton      \$48,760.00

The letter of credit submitted to Madison County is for \$73,140.00

Should you have any questions or comments regarding this matter, please do not hesitate to call.

Sincerely,



Nolan P. Williamson, P.E.  
Banks Engineering & Surveying, Inc.

# BURNS COOLEY DENNIS, INC.

## CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES

278 COMMERCE PARK DRIVE  
RIDGELAND, MS 39157

BUS: (601) 856-2332  
FAX: (601) 856-3552

POST OFFICE BOX 12828  
JACKSON, MS 39236

### FIELD DENSITY TEST REPORT

for  
10/8/2012

TO: Adcamp, Inc.  
Post Office Box 54246  
Jackson, Mississippi 39288

REPORT DATE: 10/9/2012  
PROJECT NUMBER: 100554

ATTENTION: Ralph Barnes

PROJECT: Grayhawk Subdivision Roadways

Minimum Required Density is 98 % of Maximum Dry Density (ASTM D 698-00 Method A)

Test No.	Depth of Test (In.)	Depth of Fill in Place (Ft.)	Code 6050	Proctor Curve No.	USCS Class	Max. Dry Density (pcf)	Opt. Moisture Content (%)	Field Moisture Content (%)	Moisture Difference (%)	Field Dry Density (pcf)	Percent of Proctor Density
			Approximate Test Location								
1	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 13+40; Centerline	4	LTS	97.7	21.6	16.3	-5.3	100.6	103.0
2	10	Subgrade	Roadway Subgrade (Lime Treated); Tail Feather Drive; Station 10+75; 5' Left of Centerline	4	LTS	97.7	21.6	16.9	-4.7	100.1	102.5
3	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 10+30; 5' Left of Centerline	4	LTS	97.7	21.6	22.7	+1.1	97.3	99.6
4	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 12+25; 7' Right of Centerline	4	LTS	97.7	21.6	19.5	-2.1	99.9	102.3
5	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 14+25; 5' Left of Centerline	4	LTS	97.7	21.6	20.2	-1.4	98.4	100.7
6	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 16+20; 4' Left of Centerline	4	LTS	97.7	21.6	21.0	-0.6	96.3	98.6
7	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 18+00; 6' Right of Centerline	4	LTS	97.7	21.6	22.7	+1.1	96.2	98.5
8	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 19+70; Centerline	4	LTS	97.7	21.6	23.4	+1.8	95.9	98.2
9	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 15+50; 2' Right of Centerline	4	LTS	97.7	21.6	23.2	+1.6	96.6	98.9
10	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive (Cross Drain); Station 18+05; 3' Left of Centerline	4	LTS	97.7	21.6	18.7	-2.9	99.5	101.8

Field Technician: J. Waite

**COMMENTS:**

This area was retested due to previous rainfall.

REPORTED BY:

*David R. Simpson*  
CMET Manager

REVIEWED BY:

*Robert J. Gorman*  
Engineer

# BURNS COOLEY DENNIS, INC.

## CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES

278 COMMERCE PARK DRIVE  
RIDGELAND, MS 39157

BUS: (601) 856-2332  
FAX: (601) 856-3552

POST OFFICE BOX 12828  
JACKSON, MS 39236

### FIELD DENSITY TEST REPORT

for  
10/8/2012

TO: Adcamp, Inc.  
Post Office Box 54246  
Jackson, Mississippi 39288

REPORT DATE: 10/9/2012  
PROJECT NUMBER: 100554

ATTENTION: Ralph Barnes  
PROJECT: Grayhawk Subdivision Roadways

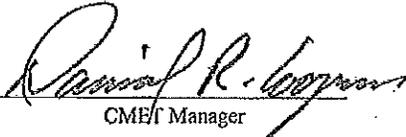
Minimum Required Density is 98 % of Maximum Dry Density (ASTM D 698-00 Method A)

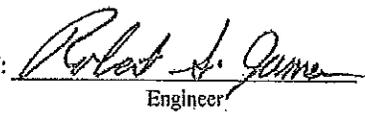
Test No.	Depth of Test (In.)	Depth of Fill in Place (Ft.)	Code 6050	Proctor Curve No.	USCS Class	Max. Dry Density (pcf)	Opt. Moisture Content (%)	Field Moisture Content (%)	Moisture Difference (%)	Field Dry Density (pcf)	Percent of Proctor Density
			Approximate Test Location								
11	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 20+00; 5' Right of Centerline	4	LTS	97.7	21.6	20.2	-1.4	98.0	100.3
12	10	Subgrade	Roadway Subgrade (Lime Treated); Wing Tip Way (Cross Drain); Station 10+30; 6' Left of Centerline	4	LTS	97.7	21.6	17.3	-4.3	100.3	102.7
13	10	Subgrade	Roadway Subgrade (Lime Treated); Wing Tip Way (Cross Drain); Station 11+00; 10' Right of Centerline	4	LTS	97.7	21.6	19.6	-2.0	98.2	100.5

Field Technician: J. Waite

COMMENTS:

This area was retested due to previous rainfall.

REPORTED BY:   
CMEI Manager

REVIEWED BY:   
Engineer

# BURNS COOLEY DENNIS, INC.

## CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES

278 COMMERCE PARK DRIVE  
RIDGELAND, MS 39157

BUS: (601) 856-2332  
FAX: (601) 856-3552

POST OFFICE BOX 12828  
JACKSON, MS 39236

### FIELD DENSITY TEST REPORT

for  
9/12/2012

TO: Adcamp, Inc.  
Post Office Box 54246  
Jackson, Mississippi 39288

REPORT DATE: 9/18/2012  
PROJECT NUMBER: 100554

ATTENTION: Ralph Barnes

PROJECT: Grayhawk Subdivision Roadways

Minimum Required Density is 98 % of Maximum Dry Density (MDOT MT-8 Method A)

Test No.	Depth of Test (In.)	Depth of Fill in Place (ft.)	Code 6050	Proctor Curve No.	USCS Class	Max. Dry Density (pcf)	Opt. Moisture Content (%)	Field Moisture Content (%)	Moisture Difference (%)	Field Dry Density (pcf)	Percent of Proctor Density
			Approximate Test Location								
1	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 12+50; Centerline	2	LTS	98.3	18.8	17.1	-1.7	98.1	99.8
2	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 14+25; 5' Left of Centerline	2	LTS	98.3	18.8	20.5	+1.7	97.8	99.5
3	10	Subgrade	Roadway Subgrade (Lime Treated); Tailfeather Cove; Station 10+85; 7' Left of Centerline	2	LTS	98.3	18.8	20.2	+1.4	97.2	98.9
4	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 16+00; 3' Right of Centerline	2	LTS	98.3	18.8	18.2	-0.6	96.6	98.3
5	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive (Cross Drain); Station 18+05; 5' Left of Centerline	2	LTS	98.3	18.8	19.4	+0.6	97.3	99.0
6	10	Subgrade	Roadway Subgrade (Lime Treated); Wingtip Way (Cross Drain); Station 10+31	2	LTS	98.3	18.8	19.8	+1.0	97.4	99.1
7	10	Subgrade	Roadway Subgrade (Lime Treated); Wingtip Way (Cross Drain); Station 11+20	2	LTS	98.3	18.8	22.7	+3.9	98.8	100.5
8	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 10+30; Centerline	2	LTS	98.3	18.8	16.3	-2.5	102.9	104.7
9	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 12+00; 6' Left of Centerline	2	LTS	98.3	18.8	17.0	-1.8	97.1	98.8
10	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 14+00; 3' Right of Centerline	2	LTS	98.3	18.8	16.1	-2.7	101.1	102.8

Field Technician: J. Waite

COMMENTS:

REPORTED BY:

*Robert R. Cooper*  
CMET Manager

REVIEWED BY:

*Robert S. James*  
Engineer

**BURNS COOLEY DENNIS, INC.**

**CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES**

278 COMMERCE PARK DRIVE  
RIDGELAND, MS 39157

BUS: (601) 856-2332.  
FAX: (601) 856-3552

POST OFFICE BOX 12828  
JACKSON, MS 39236

**FIELD DENSITY TEST REPORT**

for  
9/12/2012

TO: Adcamp, Inc.  
Post Office Box 54246  
Jackson, Mississippi 39288

REPORT DATE: 9/18/2012  
PROJECT NUMBER: 100554

ATTENTION: Ralph Barnes

PROJECT: Grayhawk Subdivision Roadways

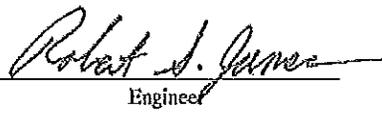
Minimum Required Density is 98 % of Maximum Dry Density (MDOT MT-8 Method A)

Test No.	Depth of Test (In.)	Depth of Fill in Place (Ft.)	Code 6050	Proctor Curve No.	USCS Class	Max. Dry Density (pcf)	Opt. Moisture Content (%)	Field Moisture Content (%)	Moisture Difference (%)	Field Dry Density (pcf)	Percent of Proctor Density
			Approximate Test Location								
11	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 16+25; 4' Right of Centerline	2	LTS	98.3	18.8	16.6	-2.2	97.7	99.4
12	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 18+00; 5' Left of Centerline	2	LTS	98.3	18.8	21.9	+3.1	96.9	98.6
13	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 19+70; Centerline	2	LTS	98.3	18.8	20.2	+1.4	95.8	97.5
14	10	Subgrade	Retest of Test No.13; Roadway Subgrade (Lime Treated); Quill Cove (Cross Drain); Station 19+70; Centerline	2	LTS	98.3	18.8	17.4	-1.4	99.5	101.2

Field Technician: J. Waite

COMMENTS: \* Test did not meet minimum required percent compaction. Failing area reworked and retested, retest passed.

REPORTED BY:   
CMET Manager

REVIEWED BY:   
Engineer

**BURNS COOLEY DENNIS, INC.**

**CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES**

278 COMMERCE PARK DRIVE  
RIDGELAND, MS 39157

BUS: (601) 856-2332  
FAX: (601) 856-3552

POST OFFICE BOX 12828  
JACKSON, MS 39236

**FIELD DENSITY TEST REPORT**

for  
9/17/2012

TO: Adcamp, Inc.  
Post Office Box 54246  
Jackson, Mississippi 39288

REPORT DATE: 9/19/2012  
PROJECT NUMBER: 100554

ATTENTION: Ralph Barnes

PROJECT: Grayhawk Subdivision Roadways

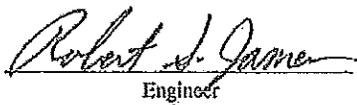
Minimum Required Density is 98 % of Maximum Dry Density (ASTM D 698-00 Method A)

Test No.	Depth of Test (In.)	Depth of Fill in Place (Ft.)	Code 6050	Proctor Curve No.	USCS Class	Max. Dry Density (pcf)	Opt. Moisture Content (%)	Field Moisture Content (%)	Moisture Difference (%)	Field Dry Density (pcf)	Percent of Proctor Density
			Approximate Test Location								
1	12	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 17+75; Right Curb	4	LTS	97.7	21.6	17.2	-4.4	96.0	98.3
2	12	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 17+00; Right Curb	4	LTS	97.7	21.6	12.8	-8.8	96.2	98.5
3	12	Subgrade	Roadway Subgrade (Lime Treated); Wing Tip Way; Station 10+75; Right Curb	4	LTS	97.7	21.6	17.0	-4.6	97.0	99.3
4	12	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 15+00; Left Curb	4	LTS	97.7	21.6	14.7	-6.9	98.2	100.5

Field Technician: J. Waite

COMMENTS:

REPORTED BY:   
CMET Manager

REVIEWED BY:   
Engineer

**BURNS COOLEY DENNIS, INC.**

**CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES**

278 COMMERCE PARK DRIVE  
RIDGELAND, MS 39157

BUS: (601) 856-2332  
FAX: (601) 856-3552

POST OFFICE BOX 12828  
JACKSON, MS 39236

**FIELD DENSITY TEST REPORT**

for  
9/20/2012

TO: Adcamp, Inc.  
Post Office Box 54246  
Jackson, Mississippi 39288

REPORT DATE: 9/24/2012  
PROJECT NUMBER: 100554

ATTENTION: Ralph Barnes  
PROJECT: Grayhawk Subdivision Roadways

Minimum Required Density is 98 % of Maximum Dry Density (ASTM D 698-00 Method A)

Test No.	Depth of Test (In.)	Depth of Fill in Place (Ft.)	Code 6050	Proctor Curve No.	USCS Class	Max. Dry Density (pcf)	Opt. Moisture Content (%)	Field Moisture Content (%)	Moisture Difference (%)	Field Dry Density (pcf)	Percent of Proctor Density
			Approximate Test Location								
1	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 20+00; Centerline	4	LTS	97.7	21.6	18.0	-3.6	96.6	98.9
2	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 19+70; Left of Centerline	4	LTS	97.7	21.6	21.0	-0.6	97.0	99.3
3	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 18+00; Centerline	4	LTS	97.7	21.6	23.0	+1.4	95.8	98.1
4	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 16+25; Right of Centerline	4	LTS	97.7	21.6	22.7	+1.1	96.0	98.3
5	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 14+00; Centerline	4	LTS	97.7	21.6	27.0	+5.4	93.3	95.5 *
6	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 12+00; Left of Centerline	4	LTS	97.7	21.6	21.9	+0.3	97.0	99.3
7	10	Subgrade	Roadway Subgrade (Lime Treated); Quill Cove; Station 10+30; Right of Centerline	4	LTS	97.7	21.6	25.8	+4.2	93.6	95.8 *
8	10	Subgrade	Roadway Subgrade (Lime Treated); Wingtip Way; Station 10+30; Centerline	4	LTS	97.7	21.6	22.1	+0.5	96.0	98.3
9	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 20+00; Left of Centerline	4	LTS	97.7	21.6	28.4	+6.8	93.0	95.2 *
10	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 18+05; Right of Centerline	4	LTS	97.7	21.6	26.9	+5.3	94.2	96.4 *

Field Technician: C. Warren

COMMENTS: \* Tests did not meet minimum required percent compaction.

REPORTED BY:

*Dennis R. Cooney*  
CMET Manager

REVIEWED BY:

*Robert S. James*  
Engineer

**BURNS COOLEY DENNIS, INC.**

**CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES**

278 COMMERCE PARK DRIVE  
RIDGELAND, MS 39157

BUS: (601) 856-2332  
FAX: (601) 856-3552

POST OFFICE BOX 12828  
JACKSON, MS 39236

**FIELD DENSITY TEST REPORT**

for  
9/20/2012

TO: Adcamp, Inc.  
Post Office Box 54246  
Jackson, Mississippi 39288

REPORT DATE: 9/24/2012  
PROJECT NUMBER: 100554

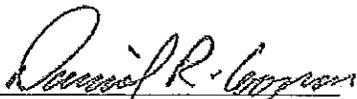
ATTENTION: Ralph Barnes  
PROJECT: Grayhawk Subdivision Roadways

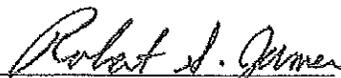
Minimum Required Density is 98 % of Maximum Dry Density (ASTM D 698-00 Method A)

Test No.	Depth of Test (In.)	Depth of Fill in Place (ft.)	Code 6050	Proctor Curve No.	USCS Class	Max. Dry Density (pcf)	Opt. Moisture Content (%)	Field Moisture Content (%)	Moisture Difference (%)	Field Dry Density (pcf)	Percent of Proctor Density
			Approximate Test Location								
11	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 16+50; Left of Centerline	4	LTS	97.7	21.6	22.9	+1.3	96.6	98.9
12	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 14+50; Right of Centerline	4	LTS	97.7	21.6	26.9	+5.3	94.0	96.2 *
13	10	Subgrade	Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 12+50; Centerline	4	LTS	97.7	21.6	21.7	+0.1	96.9	99.2
14	10	Subgrade	Roadway Subgrade (Lime Treated); Tail Feather Drive; Station 11+00; Centerline	4	LTS	97.7	21.6	19.8	-1.8	98.0	100.3

Field Technician: C. Warren

COMMENTS: \* Test did not meet minimum required percent compaction.

REPORTED BY:   
CMET Manager

REVIEWED BY:   
Engineer

**BURNS COOLEY DENNIS, INC.**

**CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES**

278 COMMERCE PARK DRIVE  
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JACKSON, MS 39236

**FIELD DENSITY TEST REPORT**

for  
9/24/2012

TO: Adcamp, Inc.  
Post Office Box 54246  
Jackson, Mississippi 39288

REPORT DATE: 9/24/2012  
PROJECT NUMBER: 100554

ATTENTION: Ralph Barnes  
PROJECT: Grayhawk Subdivision Roadways

Minimum Required Density is 98 % of Maximum Dry Density (ASTM D 698-00 Method A)

Test No.	Depth of Test (In.)	Depth of Fill in Place (Ft.)	Code 6050	Proctor Curve No.	USCS Class	Max. Dry Density (pcf)	Opt. Moisture Content (%)	Field Moisture Content (%)	Moisture Difference (%)	Field Dry Density (pcf)	Percent of Proctor Density
			Approximate Test Location								
1	10	Subgrade	Retest of Test No.5 from 9/20/2012; Roadway Subgrade (Lime Treated); Quill Cove; Station 14+00; Centerline	4	LTS	97.7	21.6	19.0	-2.6	97.7	100.0
2	10	Subgrade	Retest of Test No.7 from 9/20/2012; Roadway Subgrade (Lime Treated); Quill Cove; Station 10+30; Right of Centerline	4	LTS	97.7	21.6	18.4	-3.2	98.1	100.4
3	10	Subgrade	Retest of Test No.9 from 9/20/2012; Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 20+00; Left of Centerline	4	LTS	97.7	21.6	24.0	+2.4	95.9	98.2
4	10	Subgrade	Retest of Test No.10 from 9/20/2012; Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 18+05; Right of Centerline	4	LTS	97.7	21.6	18.0	-3.6	97.3	99.6
5	10	Subgrade	Retest of Test No.12 from 9/20/2012; Roadway Subgrade (Lime Treated); Grayhawk Drive; Station 14+50; Right of Centerline	4	LTS	97.7	21.6	17.9	-3.7	97.9	100.2

Field Technician: C. Warren

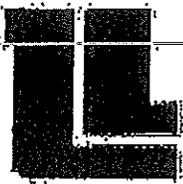
COMMENTS:

REPORTED BY:

*David R. Logan*  
CMET Manager

REVIEWED BY:

*Robert S. James*  
Engineer



**Ladner testing laboratories, inc**

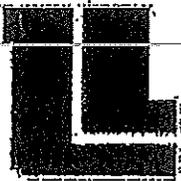
2832 Utica Avenue/Post Office Box 10778/Jackson, Mississippi 39289-0778 / (601) 362-5421  
 2123 Glendale Avenue/ Hattiesburg, Mississippi 39402/(601) 544-5782  
 P.O. Box 2363/ Gulfport, Mississippi 39505/(228) 604-2527

Project: GRAYHAWK SUBDIVISION STREET CONSTRUCTION MADISON COUNTY, MS	Page No: 1 Date: 09/14/2012 Lab No: 397-10-Ex2
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Analysis of Field Density Test: TAN LEAN CLAY  
 Contractor: BLURTON, BANKS & ASSOCIATES  
 Inspector: ARNO SHAW  
 Lift: SEE BELOW  
 Reported To: BLURTON, BANKS & ASSOCIATES (1)

Density Number	Depth	Location	Optimum Moisture	Maximum Density	Percent Moisture	Dry Wt. Lbs. Per Cu. Ft.	% Max. Density Obtained
175	6"	1ST LIFT FILL OVER 30" RCP PIPE / QUILL COVE BTWN. STAT. #16+75 & STAT. #17+50	17.50	104.80	17.60	101.00	96.40
176	6"	1ST LIFT FILL OVER 30" RCP PIPE / QUILL COVE BTWN. STAT. #16+75 & STAT. #17+50	17.50	104.80	17.00	100.00	95.40
177	6"	1ST LIFT FILL OVER 30" RCP PIPE / QUILL COVE BTWN. STAT. #16+75 & STAT. #17+50	17.50	104.80	16.80	102.30	97.60
178	6"	2ND LIFT FILL OVER 30" RCP PIPE / QUILL COVE BTWN. STAT. #16+75 & STAT. #17+50	17.50	104.80	17.40	103.00	98.30
179	6"	2ND LIFT FILL OVER 30" RCP PIPE / QUILL COVE BTWN. STAT. #16+75 & STAT. #17+50	17.50	104.80	17.90	104.00	99.20
180	6"	2ND LIFT FILL OVER 30" RCP PIPE / QUILL COVE BTWN. STAT. #16+75 & STAT. #17+50	17.50	104.80	18.00	101.70	97.00
181	6"	3RD LIFT FILL OVER 30" RCP PIPE / QUILL COVE BTWN. STAT. #16+75 & STAT. #17+50	17.50	104.80	18.10	102.60	97.90

Remarks THE ABOVE TESTS COMPLY WITH SPECIFICATION REQUIREMENTS OF 95% ASTM D-698.



*ladner testing laboratories, inc*

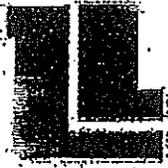
2832 Utica Avenue/Post Office Box 10778/Jackson, Mississippi 39289-0778 / (601) 362-5421  
 2123 Glendale Avenue/ Hattiesburg, Mississippi 39402/ (601) 544-5782  
 P.O. Box 2363/ Gulfport, Mississippi 39505/ (228) 604-2527

<b>Project:</b> GRAYHAWK SUBDIVISION STREET CONSTRUCTION MADISON COUNTY, MS	<b>Page No:</b> 3 <b>Date:</b> 09/14/2012 <b>Lab No:</b> 397-10-Ex2
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**Analysis of Field Density Test:** TAN LEAN CLAY  
**Contractor:** BLURTON, BANKS & ASSOCIATES  
**Inspector:** ARNO SHAW  
**Lift:** SEE BELOW  
**Reported To:** BLURTON, BANKS & ASSOCIATES (1)

Density Number	Depth	Location	Optimum Moisture	Maximum Density	Percent Moisture	Dry Wt. Lbs. Per Cu. Ft.	% Max. Density Obtained
189	6"	3RD LIFT FILL OVER 30" RCP PIPE/WING TIP WAY BTWN. STAT. #10+55 & STAT. #10+65	17.50	104.80	17.30	101.60	96.90
190	6"	1ST LIFT FILL OVER 18" RCP PIPE/GRAYHAWK DR. BTWN. STAT. #15+00 & STAT. #15+55	17.50	104.80	16.90	102.10	97.40
191	6"	1ST LIFT FILL OVER 18" RCP PIPE/GRAYHAWK DR. BTWN. STAT. #15+00 & STAT. #15+55	17.50	104.80	17.40	103.10	98.40
192	6"	2ND LIFT FILL OVER 18" RCP PIPE/GRAYHAWK DR. BTWN. STAT. #15+00 & STAT. #15+55	17.50	104.80	15.50	102.20	97.50
193	6"	2ND LIFT FILL OVER 18" RCP PIPE/GRAYHAWK DR. BTWN. STAT. #15+00 & STAT. #15+55	17.50	104.80	16.20	102.70	98.00
194	6"	3RD LIFT FILL OVER 18" RCP PIPE/GRAYHAWK DR. BTWN. STAT. #15+00 & STAT. #15+55	17.50	104.80	15.50	104.80	100.00
195	6"	3RD LIFT FILL OVER 18" RCP PIPE/GRAYHAWK DR. BTWN. STAT. #15+00 & STAT. #15+55	17.50	104.80	16.70	103.80	99.00

Remarks THE ABOVE TESTS COMPLY WITH SPECIFICATION REQUIREMENTS OF 95% ASTM D-698.



**Ladner testing laboratories, inc**

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 2123 Glendale Avenue/ Hattiesburg, Mississippi 39402/(601) 544-5782  
 P.O. Box 2363/ Gulfport, Mississippi 39505/(228) 604-2527

Project: GRAYHAWK SUBDIVISION STREET CONSTRUCTION MADISON COUNTY, MS	Page No: 1 Date: 06/29/2012 Lab No: 397-10-W
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Analysis of Field Density Test: TAN LEAN CLAY  
 Contractor: BLURTON, BANKS & ASSOCIATES  
 Inspector: DENNIS ELLIS  
 Lift: ON GRADE  
 Reported To: BLURTON, BANKS & ASSOCIATES (1)

Density Number	Depth	Location	Optimum Moisture	Maximum Density	Percent Moisture	Dry Wt. Lbs. Per Cu. Ft.	% Max. Density Obtained
137	6"	ON GRADE FILL OVER STORM DRAIN AREA CROSSING @ STA. #10+00/WING TIP WAY	17.50	104.80	14.70	105.40	100.60
138	6"	ON GRADE FILL OVER STORM DRAIN AREA CROSSING @ STA. #18+00/GRAYHAWK DR.	17.50	104.80	15.10	104.90	100.10
139	6"	ON GRADE FILL OVER STORM DRAIN AREA CROSSING @ STA. #10+00/QUILL COVE	17.50	104.80	14.60	103.60	98.80

Remarks THE ABOVE TESTS COMPLY WITH SPECIFICATION REQUIREMENTS OF 95% ASTM D-698.

## INTERLOCAL COOPERATION AGREEMENT

This Interlocal Cooperation Agreement (the "Agreement") is made and entered into by and between the City of Madison, Mississippi, a municipal corporation organized and existing under the laws of the State of Mississippi (the "City"), and Madison County, Mississippi, a political subdivision of the State of Mississippi (the "County"), pursuant to the Mississippi Interlocal Cooperation Act of 1974, codified at Section 17-13-1, et seq., Mississippi Code of 1972, as amended (the "Interlocal Act"), on the date set forth hereinafter.

### RECITALS:

**WHEREAS**, the City and County agree, find and determine as follows:

1. In addition to any words and terms elsewhere defined herein, the following words and terms shall have the following meanings, unless some other meaning is plainly intended:

"City" shall mean the City of Madison, Mississippi.

"County" shall mean Madison County, Mississippi.

"Project" shall mean the rebuilding and overlay on Quail Run Drive and Wood Leaf Cove in the City of Madison, to the extent that the funds described herein may allow the work to be done, using construction methods and materials which, in the judgment of the City, will produce the best result given the funding available.

Words of the masculine gender shall be deemed and construed to include correlative words of the feminine and neuter genders. Unless the context shall otherwise indicate, words and terms herein defined shall be equally applicable to the plural as well as the singular form of any of such words and terms.

2. The governing authorities of the City and the County desire to enter into a joint effort to make the most efficient use of their powers and enable them to enhance the general welfare of the City and County and the citizens of each through the improvement of streets and related infrastructure.

3. The term of this Agreement shall extend through completion of the project.

4. In order to provide for the infrastructure improvements, it is necessary and in the public interest for the City to cooperate with the County by entering into this Agreement.

5. The City and the County desire to enter into this Agreement for the purposes of street repair and resurfacing which will enhance the general welfare of the City and the County and the citizens of each, and, consequently, the economic development of the City and the County.

6. It is necessary for the City and the County to enter into this Agreement in order to enable the City to proceed with the Project with a clear understanding and commitment as to the nature of the County's participation.

7. The City agrees to undertake the work necessary to undertake the project. The County agrees to reimburse the City for fifty percent (50%) of the costs incurred in the performance of work necessary to accomplish the project, up to a maximum contribution of Seventy-eight Thousand Dollars (\$78,000.00) by the County.

8. It is in the best interests of the citizens of the City that the City enter into and execute the Agreement.

9. It is in the best interests of the citizens of the County that the County enter into and execute the Agreement.

**NOW, THEREFORE, FOR AND IN CONSIDERATION OF THE ABOVE AND THE MUTUAL BENEFITS ACCRUING TO THE CITY AND THE COUNTY, THE CITY AND THE COUNTY DO HEREBY AGREE AS FOLLOWS:**

**SECTION 1. Duration.** This Agreement shall be in force and effect until terminated in accordance with the provisions of Section 6 hereof.

**SECTION 2. Purpose.** The purpose of this Agreement is to define the respective responsibilities of the City and the County with regard to the financing and completion of the Project, as defined above.

**SECTION 3. Organization; Statutory Authority.** There will be no separate legal or administrative entity created pursuant to this Agreement. The City is authorized by Miss. Code Section 21-37-3 and County is authorized by Miss. Code Section 19-3-41 to exercise and carry out the powers, authorities, and responsibilities to be exercised by each of them pursuant to the terms of this Agreement.

**SECTION 4. Financing, Staffing and Supplying.** The Project will be undertaken and financed by the City, contingent upon funds being available in the City budget as determined by the governing authorities of the City, and upon completion, the City will thereafter assume responsibility for maintenance and upkeep of the Project Streets. The County will reimburse the City for work done during the course of the Project on a monthly basis, not later than thirty days after delivery by the City of documentation of costs incurred (said documentation to include location of the work and itemization of cost items or invoice from third party contractor). The County will reimburse the City for fifty percent (50%) of the costs incurred in the performance of work necessary to accomplish the Project, up to a maximum contribution of Seventy-eight Thousand Dollars (\$78,000.00) by the County. The City will perform the work primarily through the use of contractors, with some possible incidental work being performed by City personnel and equipment.

**SECTION 5. Operation of Agreement and the Infrastructure Improvements.** Upon completion of the Project, responsibility for maintenance and upkeep will be the responsibility of the City.

**SECTION 6. Termination; Disposition of Property.** This Agreement will terminate on August 1, 2013, or when the work is completed, whichever occurs first. At the termination of the Agreement any property owned by the City and County, respectively, shall remain their property. The finished Project shall be dedicated to the City. Due to the nature of the

agreement, there will be no surplus funds or property to be disposed of when the project is complete.

**SECTION 7. Amendment.** This Agreement may be amended at any time by the mutual consent of the City and the County by an agreement entered into pursuant to the provisions of the Interlocal Act.

**SECTION 8. Manner of Acquiring, Holding and Disposing of Property; Cooperation Concerning Property Matters.** The City has acquired or will acquire all property needed for the Project.

**SECTION 9. Effective Date.** This Agreement will be effective when it is approved by the respective governing bodies of the City and the County and by the Mississippi Attorney General. The initial term of this Agreement shall commence on the effective date hereof and extend through completion of the Project.

WITNESS the signatures of the duly authorized officers of the City and the County as of the \_\_\_\_\_ day of \_\_\_\_\_, 2012.

CITY OF MADISON, MISSISSIPPI

By: \_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk

(SEAL)

MADISON COUNTY, MISSISSIPPI

By: \_\_\_\_\_  
President, Board of Supervisors

ATTEST:

\_\_\_\_\_  
Clerk, Board of Supervisors

(SEAL)

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WITNESS the signatures of the duly authorized officers of the City and the County as of the \_\_\_\_\_ day of \_\_\_\_\_, 2012.

CITY OF MADISON, MISSISSIPPI

By: \_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk

(SEAL)

MADISON COUNTY, MISSISSIPPI

By: \_\_\_\_\_  
President, Board of Supervisors

ATTEST:

\_\_\_\_\_  
Clerk, Board of Supervisors

(SEAL)