


Department of Engineering/Road Management
Dan Gaillet, P.E., County Engineer/ Road Manager

3137 South Liberty Street, Canton, MS 39046
Office (601) 855-5670 FAX (601) 859-5857

MEMORANDUM

May 23, 2017

To: Sheila Jones, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
David Bishop, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Dan Gaillet, P.E.
County Engineer and Road Manager 

Re: CSpire Utility Permits

The Engineering Department recommends approval of permit applications for CSpire to place fiber in the following subdivisions to provide telephone and internet service to homes:

- Bradshaw Ridge - from Yandell Road via Clarkdell Road to the subdivision's streets.
- Ridgefield - crossing Gluckstadt Drive to the subdivision's streets.
- Belle Terre – from Bozeman Road to the subdivision's streets.
- Bear Creek Crossing – from Clarkdell to the subdivision's streets.
- Wellington – work to be performed within the subdivision.

01/09/04

MADISON COUNTY, MISSISSIPPI
PERMIT APPLICATION FOR USE AND OCCUPANCY
FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY
WITHIN ROAD OR HIGHWAY RIGHT-OF-WAY

FACILITY ALONG OR ACROSS MADISON COUNTY ROAD PROJECT NAME OR
NUMBER BRADSHAW RIDGE COUNTY OF MADISON,

BEIGINNING IN SECTION S27, TOWNSHIP T8N, RANGE
R2E, AND ENDING IN SECTION S27, TOWNSHIP T8N RANGE

R2E. UTILITY NAME COMMUNICATIONS-FIBER-OPTIC

BY CSPIRE. PHONE 601-487-7367

ADDRESS HIGHLAND COLONY PARKWAY, SUITE 400, RIDGELAND, MS
39147. Herein called APPLICANT, purposes to construct

on BRADSHAW RIDGE a Utility Facility installed between
_____ and

_____ of Project Name/Number
_____ and within road or highway right-of-way, and

hereby makes application to the County for construction permit. Attached hereto are
drawings or plans for the construction, which will not be changed or altered without
approval of the Road Manager, or his representative.

Whereas, the Legislature of Mississippi has heretofore granted to the applicant the
right to locate its facilities upon, across, under, over and along public highways and
streets within the State of Mississippi; Applicant agrees to comply with applicable
provisions of S.O.P. No. SAD II-2-8, Policy for the Accommodation of Utility Facilities
within the Rights-of-Way of County Federal Aid and State Aid Highways (hereinafter
referred to as the "Policy"), promulgated by the State Aid Engineer and dated January 1,
1983, and which is hereby made a part of this application Agreement, and agrees to

perform the construction according to the applicable industry code and according to the plans and specifications for the Project.

The Applicant shall comply with all policies, procedures and construction practices as outlined in "A Policy for The Accommodation of Utility Facilities within the Right-of-Way of all Public County Roads", as adopted on May 1, 1992, by the Madison County Board of Supervisors.

The Applicant shall be responsible for the future maintenance and repair of the facilities. The Applicant shall make future adjustments in, or relocate, the facilities located within road or highway right-of-way when required for road or highway widening or other road or highway construction at no cost to the county. The Applicant Utility shall relocate said utilities within sixty (60) days of notification by County by registered mail, return receipt requested, unless otherwise designated by the County's Road Manager. Further, any maintenance, repair, or construction shall be done in such a manner as to occasion no unreasonable interference with the normal flow and safety to traffic and at the expense of the utility company. When reasonable care has been taken to locate said utility facilities within the right-of-way, the applicant understands that any damages caused by routine maintenance and construction by county forces shall be borne by the applicant Utility.

A general description of the size, type, nature, and extent of the Utility work to be done is as follows:

Placing 432 and smaller fiber optic cables, associated splitter cabinets, handholes, and service terminals. This fiber is to provide telephone and internet service for homes within the design area. Fiber optic cable to be placed at 48" depth in the back 2' of the R/W and or easement using the directional bore method. Handholes are to be placed at the property lines for home service.

M. W. D. P. H.

The applicant understands and agrees that, except as herein granted, no right, title, claim, or easement to said road right-of-way is granted by the issuance of this permit and if this Utility Facility as listed in the general provisions of the Policy, it will be adjusted to comply with same without cost to the County, unless the variance from the Policy has been approved by the granting of the Permit pursuant to this Application.

The Applicant further understands that the Utility's engineering, plant, or other personnel will be responsible for the staking and construction supervision of the work set out above and as shown on the attached plans.

The applicant further agrees to indemnify and hold county harmless for any and all claims, accidents, damages, liabilities and expenses occasioned wholly, or in part, by any act or omission of applicant, its agents or employees. In case County shall, without fault on its own part, be made a party to any litigation commenced by or against applicant, then applicant shall protect and hold County harmless, and shall pay all costs, expenses and reasonable attorney's fees incurred or paid by County in connection with said litigation.

Madison County agrees to the following stipulations:

- (1) To cooperate with the Utility Company in every way to avoid conflicts in the location, construction, and maintenance of the County Highway and Utility Facility.
- (2) To pursue any and all legal means to see the Policy Standards, except to the extent of any variance shown on the plans filed herewith and approved, are complied with in the facility installation.
- (3) If the County Road Manager or his authorized representative approved the drawing, sketches, and plans submitted by the Applicant, he shall so indicate by signing and dating the Permit Approval at the end of this application, and the Applicant may proceed with the installation; if the drawings, sketches, and plans are not approved, he shall promptly notify the Applicant, and advise it of the reason or reasons. He will also act as the duly appointed representative of the Board of Supervisors and will give his approval to the completed work as being in compliance with the location and standards shown in the Policy and in the Agreement for the installations.
- (4) That all joint highway construction and utility adjustment or relocation operations will comply with the requirements of Section S-105.06 and Section S-107-18, Mississippi Standard Specifications for State Aid Road and Bridge Construction, 1989 edition (or current edition).
- (5) Should any term of provision of this Applicant Agreement conflict with the law of the State of Mississippi, the Mississippi Constitution, or the United States Constitution, or impair or deny to the Applicant or the County any right protected thereby, it shall be deemed amended to conform to said law or Constitution.

WITNESS the signature of the Applicant this the 17 day of May, 2017.

By: Steve Cox
(Applicant Signature)

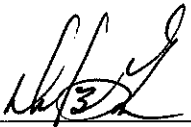
Title: _____

AGREED TO AND APPROVED BY:

Mr. Trey Baxter
Madison County Board President

Date: _____

ENTERED INTO THE MINUTES OF THE BOARD OF SUPERVISORS OF MADISON
COUNTY, MISSISSIPPI OF THIS _____ DAY OF _____, 2017.



Dan Gaillet, P.E.
County Engineer

01/09/04

MADISON COUNTY, MISSISSIPPI
PERMIT APPLICATION FOR USE AND OCCUPANCY
FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY
WITHIN ROAD OR HIGHWAY RIGHT-OF-WAY

FACILITY ALONG OR ACROSS MADISON COUNTY ROAD PROJECT NAME OR
NUMBER RIDGEFIELD COUNTY OF MADISON, BEIGINNING
IN SECTION S20 , TOWNSHIP T8N , RANGE R2E , AND
ENDING IN SECTION S20 , TOWNSHIP T8N RANGE
 R2E . UTILITY NAME COMMUNICATIONS-FIBER-OPTIC
BY CSPIRE . PHONE 601-487-7367

ADDRESS HIGHLAND COLONY PARKWAY, SUITE 400, RIDGELAND, MS
 39147 . Herein called APPLICANT, purposes to construct

on RIDGEFIELD a Utility Facility installed between
_____ and

_____ of Project Name/Number
_____ and within road or highway right-of-way, and

hereby makes application to the County for construction permit. Attached hereto are
drawings or plans for the construction, which will not be changed or altered without
approval of the Road Manager, or his representative.

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right to locate its facilities upon, across, under, over and along public highways and
streets within the State of Mississippi; Applicant agrees to comply with applicable
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MIN DEPTH

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The Applicant further understands that the Utility's engineering, plant, or other personnel will be responsible for the staking and construction supervision of the work set out above and as shown on the attached plans.

The applicant further agrees to indemnify and hold county harmless for any and all claims, accidents, damages, liabilities and expenses occasioned wholly, or in part, by any act or omission of applicant, its agents or employees. In case County shall, without fault on its own part, be made a party to any litigation commenced by or against applicant, then applicant shall protect and hold County harmless, and shall pay all costs, expenses and reasonable attorney's fees incurred or paid by County in connection with said litigation.

Madison County agrees to the following stipulations:

- (1) To cooperate with the Utility Company in every way to avoid conflicts in the location, construction, and maintenance of the County Highway and Utility Facility.
- (2) To pursue any and all legal means to see the Policy Standards, except to the extent of any variance shown on the plans filed herewith and approved, are complied with in the facility installation.
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WITNESS the signature of the Applicant this the 17 day of MAY, 2016¹².

By: Steve Lee -
(Applicant Signature)

Title: _____

AGREED TO AND APPROVED BY:

Mr. Trey Baxter
Madison County Board President

Date: _____

ENTERED INTO THE MINUTES OF THE BOARD OF SUPERVISORS OF MADISON
COUNTY, MISSISSIPPI OF THIS _____ DAY OF _____, 2017.

Dan Gaillet, P.E.
County Engineer

MADISON COUNTY, MISSISSIPPI
PERMIT APPLICATION FOR USE AND OCCUPANCY
FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY
WITHIN ROAD OR HIGHWAY RIGHT-OF-WAY

FACILITY ALONG OR ACROSS MADISON COUNTY ROAD PROJECT NAME OR
NUMBER BELLE TERRE COUNTY OF MADISON,
BEIGINNING IN SECTION S30, TOWNSHIP T8N, RANGE R2E,
AND ENDING IN SECTION S30, TOWNSHIP T8N RANGE
R2E. UTILITY NAME COMMUNICATIONS-FIBER-OPTIC
BY CSPIRE. PHONE 601-487-7367

ADDRESS HIGHLAND COLONY PARKWAY, SUITE 400, RIDGELAND, MS
39147. Herein called APPLICANT, purposes to construct on

BELLE TERRE a Utility Facility installed between
_____ and

_____ of Project Name/Number
_____ and within road or highway right-of-way, and

hereby makes application to the County for construction permit. Attached hereto are
drawings or plans for the construction, which will not be changed or altered without
approval of the Road Manager, or his representative.

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right to locate its facilities upon, across, under, over and along public highways and
streets within the State of Mississippi; Applicant agrees to comply with applicable
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(
MIN DEPTH

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By: Steve Cox
(Applicant Signature)

Title: _____

AGREED TO AND APPROVED BY:

Mr. Trey Baxter
Madison County Board President

Date: _____

ENTERED INTO THE MINUTES OF THE BOARD OF SUPERVISORS OF MADISON
COUNTY, MISSISSIPPI OF THIS _____ DAY OF _____, 2017.

Dan Gaillet, P.E.
County Engineer

01/09/04

MADISON COUNTY, MISSISSIPPI
PERMIT APPLICATION FOR USE AND OCCUPANCY
FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY
WITHIN ROAD OR HIGHWAY RIGHT-OF-WAY

FACILITY ALONG OR ACROSS MADISON COUNTY ROAD PROJECT NAME OR
NUMBER BEAR CREEK CROSSING COUNTY OF MADISON,
BEIGINNING IN SECTION S27 , TOWNSHIP T8N , RANGE
 R2E , AND ENDING IN SECTION S27 , TOWNSHIP T8N RANGE
 R2E . UTILITY NAME COMMUNICATIONS-FIBER-OPTIC
BY CSPIRE . PHONE 601-487-7367

ADDRESS HIGHLAND COLONY PARKWAY, SUITE 400, RIDGELAND, MS
 39147 . Herein called APPLICANT, purposes to construct

on BEAR CREEK CROSSING a Utility Facility installed between
_____ and

_____ of Project Name/Number
_____ and within road or highway right-of-way, and

hereby makes application to the County for construction permit. Attached hereto are
drawings or plans for the construction, which will not be changed or altered without
approval of the Road Manager, or his representative.

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right to locate its facilities upon, across, under, over and along public highways and
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MIN DEPTH

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By: Steve Co-
(Applicant Signature)

Title: _____

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Madison County Board President

Date: _____

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Dan Gaillet, P.E.
County Engineer

01/09/04

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FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY
WITHIN ROAD OR HIGHWAY RIGHT-OF-WAY

FACILITY ALONG OR ACROSS MADISON COUNTY ROAD PROJECT NAME OR
NUMBER WELLINGTON COUNTY OF MADISON, BEIGINNING
IN SECTION S20, TOWNSHIP T8N, RANGE R2E, AND
ENDING IN SECTION S20, TOWNSHIP T8N RANGE
R3E. UTILITY NAME COMMUNICATIONS-FIBER-OPTIC
BY CSPIRE. PHONE 601-487-7367

ADDRESS HIGHLAND COLONY PARKWAY, SUITE 400, RIDGELAND, MS
39147. Herein called APPLICANT, purposes to construct

on WELLINGTON a Utility Facility installed between
_____ and

_____ of Project Name/Number
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By: Steve Cox
(Applicant Signature)

Title: _____

AGREED TO AND APPROVED BY:

Mr. Trey Baxter
Madison County Board President

Date: _____

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COUNTY, MISSISSIPPI OF THIS _____ DAY OF _____, 2017.

Dan Gaillet, P.E.
County Engineer


Department of Engineering/Road Management
Dan Gaillet, P.E., County Engineer/ Road Manager

3137 South Liberty Street, Canton, MS 39046
Office (601) 855-5670 FAX (601) 859-5857

MEMORANDUM

May 24, 2017

To: Sheila Jones, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
David Bishop, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Dan Gaillet, P.E. 
County Engineer and Road Manager

Re: Temporary Construction Easement
Ashbrooke Subdivision-Mason Cove

Between lots 104 and 105 Mason Cove, a sinkhole has formed as a result of the County's stormwater system failing. Unfortunately, the County does not have right-of-way nor an easement where the failure took place.

As a result, the Engineering Department is recommending an approval of a Temporary Construction Easement in order that repairs can be made.

BOARD OF SUPERVISORS

MADISON COUNTY, MISSISSIPPI

Department of Engineering/Road Management
Dan Gaillet, P.E., County Engineer/ Road Manager

3137 South Liberty Street, Canton, MS 39046
Office (601) 855-5670 FAX (601) 859-5857

TEMPORARY CONSTRUCTION EASEMENT

This agreement, made this 22nd day of May, 2017, between Ashbrooke HOA, parties of the first part and the Madison

County Engineering and Road Department grants a temporary construction easement to enter property at:

North of Lots 87 & 88 (104 & 105 Mason Cove) of Ashbrooke Part 2A

for the purpose of: dumping waste dirt storm water repair other _____

removal of beaver dam due to said dam causing a road hazard and/or damage to the county road

Now, therefore, in consideration of the benefits accruing to said property, the parties of the first part hereby consent and agree that the Madison County Engineering and Road Department, its agents, employees and assigns may enter the above described property for the purpose of performing the work as described above and further expressly agree that the parties of the first part will assert no claim whatsoever, or any kind or type, against the Madison County Engineering and Road Department, its agents, employees or assigns by reason of performing said work.

IN TESTIMONY WHEREOF, witness the signatures of the parties this _____ day of _____, 20____.

* Easement area will be 15' long by 20' wide

PROPERTY OWNERS

Party of the First Part

Party of the First Part

BY: _____
Madison County Engineering and
Road Department

SHEILA JONES
District One

TREY BAXTER
District Two

GERALD STEEN
District Three

DAVID BISHOP
District Four

PAUL GRIFFIN
District Five

Department of Engineering/Road Management
Dan Gaillet, P.E., County Engineer/ Road Manager

3137 South Liberty Street, Canton, MS 39046
Office (601) 855-5670 FAX (601) 859-5857

MEMORANDUM

May 25, 2017

To: Sheila Jones, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
David Bishop, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Dan Gaillet, P.E.
County Engineer and Road Manager *DG*

Re: Sulphur Springs Lake Dam

Due to the size of the Sulphur Springs Lake and the dam located on the south end of the lake, the Mississippi Department of Environmental Quality (MDEQ) has required that Madison County have an Emergency Action Plan (EAP) for potential failure and/or actual failure of the dam.

The plan identifies the responsibilities and response requirements for the following entities:

1. Madison County – Dam Owner
2. Madison County EMA
3. MDEQ, QLWR, Dam Safety Division
4. Madison County Sheriff's Department
5. Canton Fire Department
6. Thompson Engineering
7. National Weather Service – Jackson
8. 911 Call Center

Upon approval by the Board, the County will meet with the aforementioned entities/agencies to ensure that they have received a copy and be available to answer any questions. Therefore, it is the recommendation of the Engineering Department to approve the EAP.

EMERGENCY ACTION PLAN

FOR

SULPHUR SPRINGS PARK LAKE

STATE ID MS02880

MADISON COUNTY, MISSISSIPPI

MARCH, 2017

Access to the Dam during Emergencies:

Primary access to the site is by Mississippi Highway 17. The dam may also be reached by Sulphur Springs Road. With the exception of Sulphur Springs Road, none of these routes is susceptible to inundation in the event of dam failure.

Prepared by:
Thompson Engineering
181 Lameuse Street, Biloxi, MS 39530
228.374.1130

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SULPHUR SPRINGS LAKE AND DAM

Maximum Potential Breach Foundation

DAM

Northeast Madison Middle School

Bims Lane

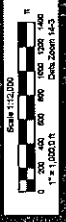
Fred Lockett

Nanna Howard

White Cook, Jr.

Sulphur Springs Road

Note: Base Map from NAIP 2016



Prepared by:
 Aqua Engineering Services, LTD
 103 Plantation Cove, Suite C
 Madison, MS 39110
 Phone (601) 790-9394

NEWS RELEASE:

The owners of Sulphur Springs Park Lake Dam have announced that it is in imminent danger of failure. The dam is located southeast of the intersection of Sulphur Springs Road and MS Highway 17, in Madison County. Roads within the area which will be affected are: Sulphur Springs Road south of Northeast Madison Middle School. Residents along this road should evacuate to high ground immediately.

ROADS TO BE CLOSED:

Burns Lane and Sulphur Springs Road south of Northeast Madison Middle School.

RESIDENCES TO BE EVACUATED:

Northeast Madison Middle School
820 Sulphur Springs Road, Canton, MS
601.855.2406

Willie Cook, Jr.
807 Sulphur Springs Road, Canton, MS
601.859.5648
601.859.7533

Martha Howard
819 Sulphur Springs Road, Canton, MS
601.855.7580

Fred Lockett
839 Sulphur Springs Road, Canton, MS
601.859.7372

I. EMERGENCY DETECTION, EVALUATION AND CLASSIFICATION

Upon discovery of a problem at a dam, the dam owner and/or on-site personnel should decide which category the emergency situation falls under. **If there is any uncertainty about the classification of the emergency, the situation should be classified as a Warning, unless there is an uncontrolled release of water which would constitute an Emergency.** The four dam emergency classification types are outlined below:

- **Emergency:** Uncontrolled Release of Water
- **Warning:** Failure Could Happen at Any Time
- **Watch:** Potential for Failure Exists
- **Advisory:** Conditions that could lead to a failure situation have occurred

These conditions are further defined in the following sections.

Emergency – Uncontrolled Release of Water

The dam is failing and there is an uncontrolled release of water.

On-Site Personnel Plan of Action

Move a safe distance away from the dam and call the following people and explain to them that the dam is failing and downstream residents should be evacuated immediately:

- a. 911
- b. County Emergency Manager 601.859.4188. The county emergency manager should notify the National Weather Service 601.939.2786 to issue a Flash Flood Warning. In the case of dams with large populations at risk, the NWS may issue a Flash Flood Emergency.
- c. Downstream Residents to be evacuated as shown on page 4 of this plan.

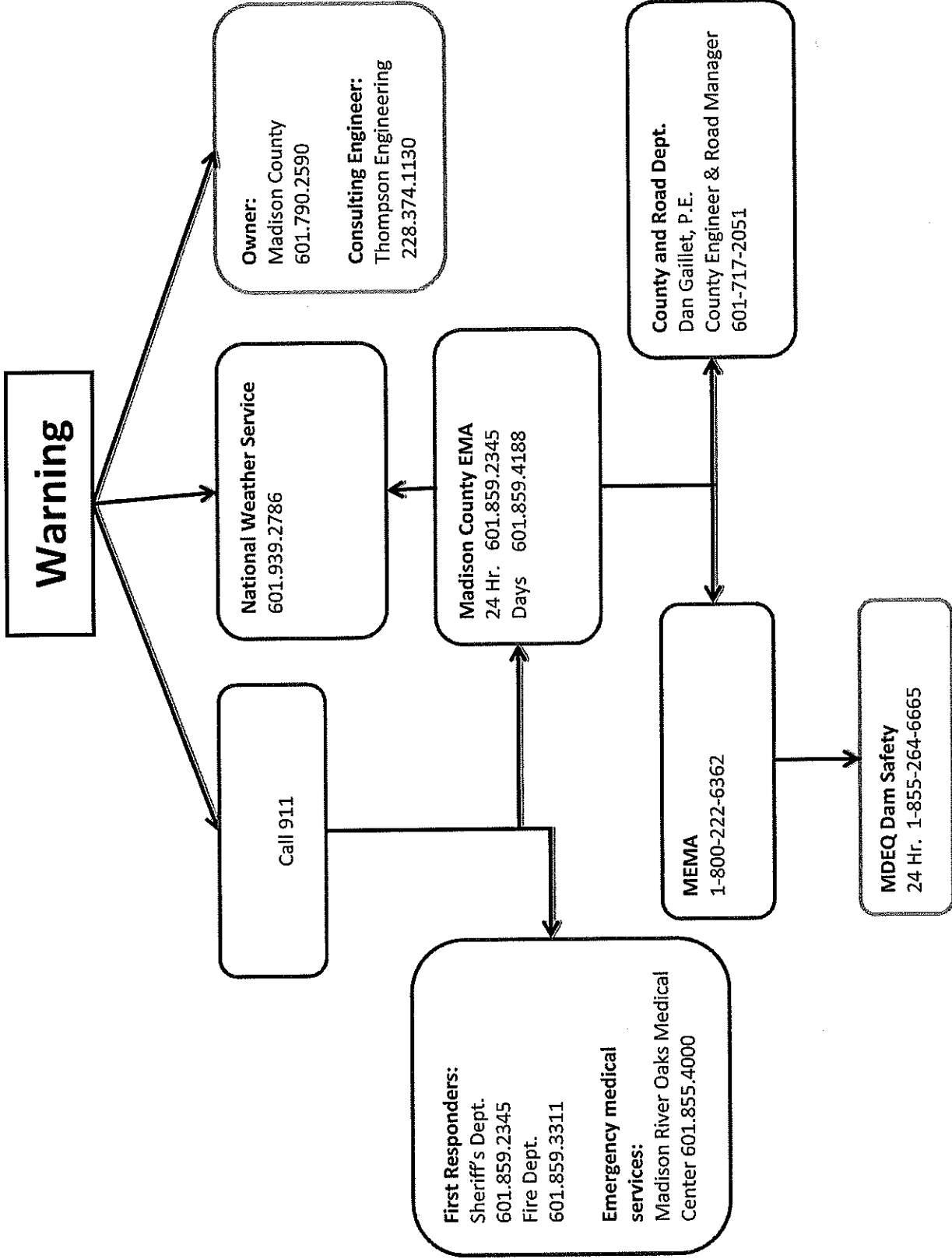
Warning – Failure Could Happen at Any Time

Common warning signs are:

- a. whirlpool developing in the lake near the dam
- b. a major slide of material in either face of the dam that reaches the top of the slope or extends into the crest of the dam
- c. overtopping
- d. (any other conditions that may constitute imminent failure or downstream flooding for this particular dam, like activation of emergency spillway)

On-Site Personnel Plan of Action

- 1) Make the necessary phone calls as shown in the flowchart on Page 6. During the calls do the following:
 - a. Explain that the dam could fail at any time.
 - b. State you are classifying this as an imminent failure. In this case, a Flash Flood Warning should be issued by the National Weather Service. If needed, relay the News Release on Page 4 of this plan.
 - c. Refer them to the inundation map and downstream contact list for this EAP to determine which area should be evacuated.
 - d. Give them the name and number of someone who can be called back for any follow-up questions.
- 2) If possible, notify anyone in the nearby vicinity of the dam to evacuate and move back a safe distance from the dam and inundation area.



Watch - Potential for Failure Exists

Common warning signs are:

- a. seepage found that increases in flow or new seepage points develop while situation is being monitored
- b. sand boils (water exiting the ground surface with enough velocity to cause the soil/water mixture to appear to be boiling) that develop downstream of the dam, note that a boil that steadily increases in diameter or appears to boiling more vigorously because of rapidly increasing flow would move the situation from a Watch to an Emergency
- c. piping (a concentrated flow of water with sufficient velocity to transport soil particles – generally indicated by an identifiable hole, or “pipe”, surrounded by a cone of soil) note that an increase in the diameter of the “pipe” or rapidly increasing flow would move the situation from a Watch to an Emergency
- d. slides of material that only affect the face of the dam and have not affected or progressed into or under the crest of the dam, or gullies forming in the face of the dam sinkholes found in the dam
- e. Water levels nearing the top of the dam and steadily increasing. This includes activation of the emergency spillway if downstream residents could be flooded.
- f. (any other conditions that may constitute a potential failure situation)

NOTE: Discovery of a sand boil or evidence of piping in the dam face or in the vicinity of the toe of the dam should cause the observer to immediately expand the area of surveillance to include all areas, particularly areas that are at a lower elevation than the observed problem, within 200 to 250 feet of the downstream toe of the dam. Also, if an earthquake occurs and registers more than 6.0 in the general area of the state where your dam is located then the dam should be inspected as soon as possible and the lake level drawn down 1/3 to 1/2 of the greatest depth of the lake until an engineer can inspect the dam for damage.

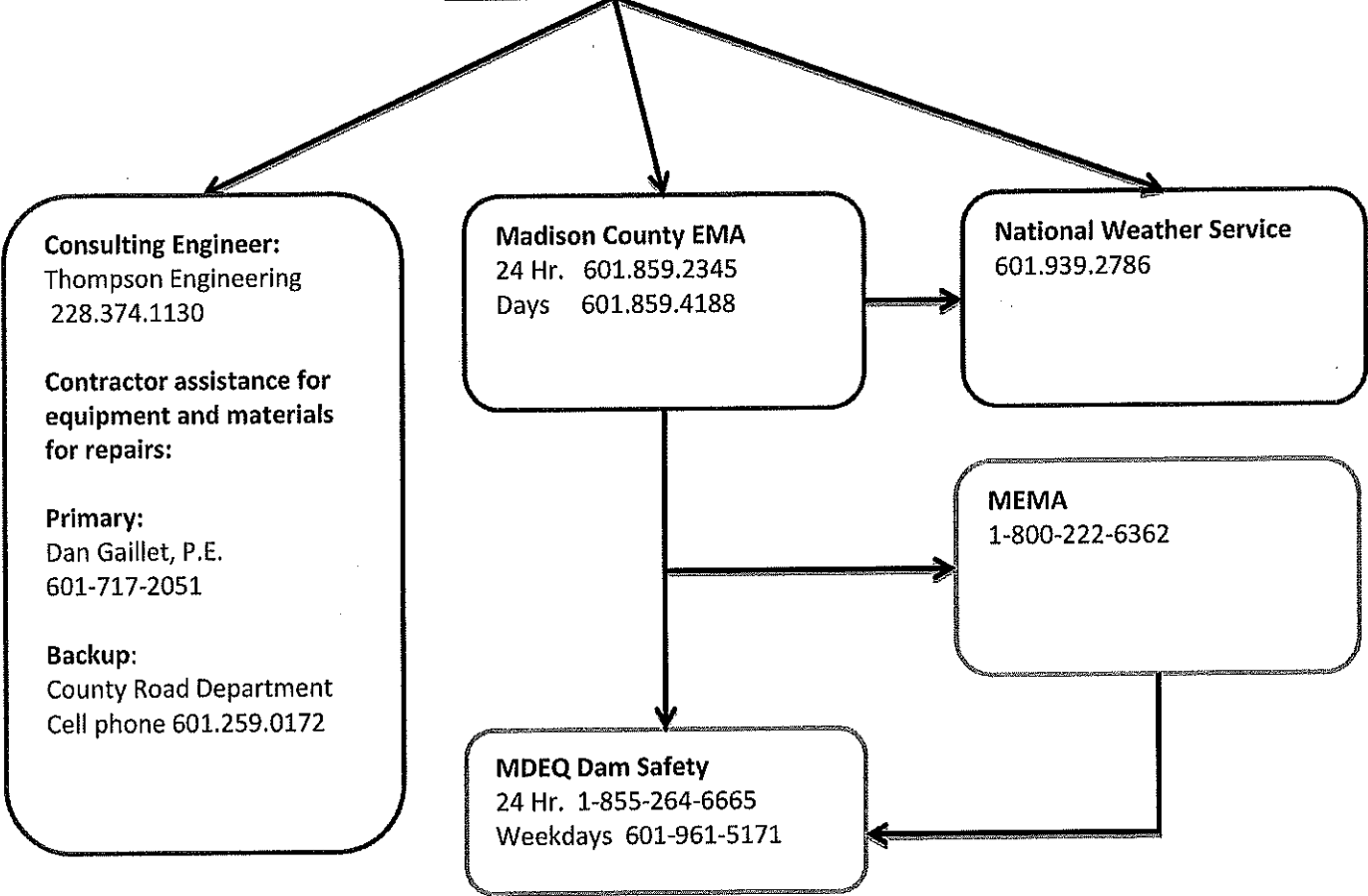
On-Site Personnel Plan of Action

- 1) Make the necessary phone calls as shown in the flowchart on Page 9. During the calls do the following:
 - a. Explain the problems with the dam.
 - b. State you are classifying this as a potential failure. In this case, a Flash Flood Watch should be issued by the National Weather Service. If needed, relay the News Release on Page 4 of this plan.

- c. Refer them to the inundation map and downstream contact list for this EAP to determine which area should be notified of the potential need for evacuation. In some cases, the County EMA may wish to issue a voluntary evacuation notice.
 - d. Give them the name and number of someone who can be called back for any follow-up questions.
- 2) Work with the Consulting Engineer, Contractor, and MDEQ Dam Safety to try and prevent failure of the dam.

Note: At any point if conditions worsen at the dam, this emergency should immediately be re-classified as a Warning. On-Site personnel should dial 911 and notify the National Weather Service to issue a Flash Flood Warning.

Watch



Advisory – Conditions that could Lead to a Failure Have Occurred

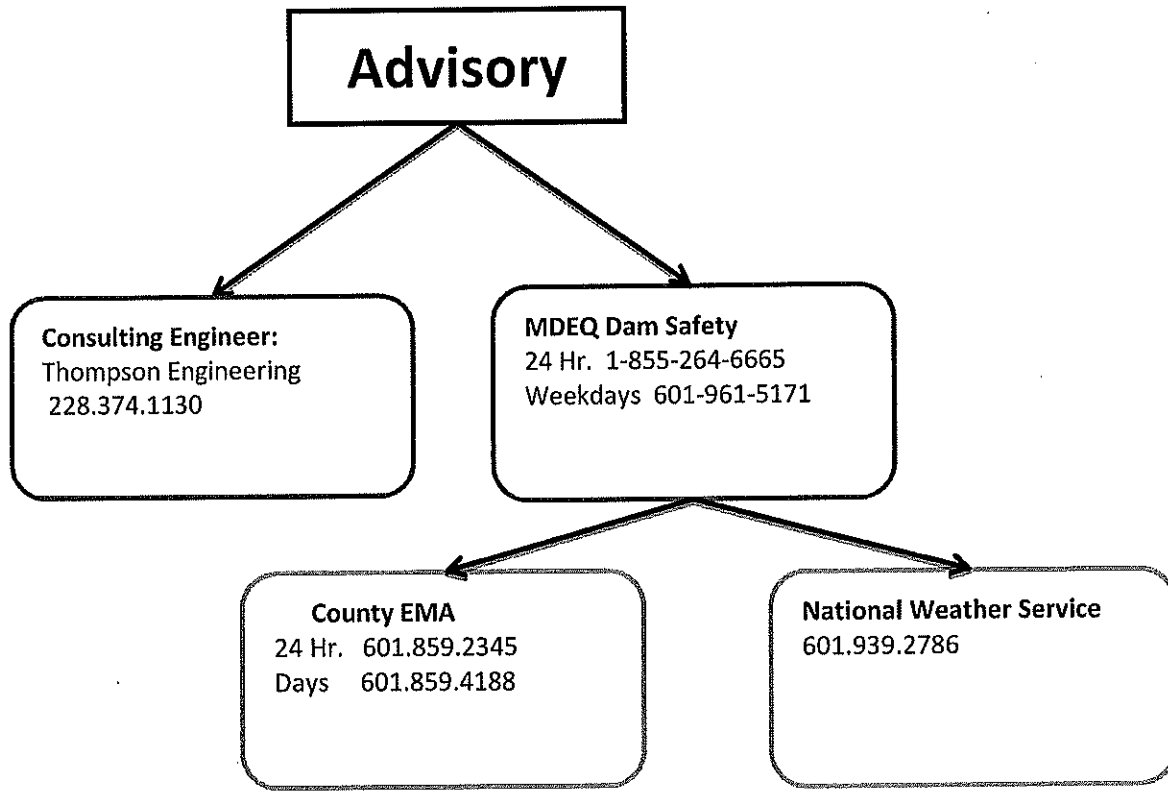
Some conditions that could lead to a failure:

- a. Seepage that has recently developed.
- b. Excessive rainfall that may exceed the capacity of the spillways. Sulphur Springs Park Lake Dam should be monitored when rainfall amounts exceed 9.2 inches within 24-hrs.

On-Site Personnel Plan of Action

- 1) Make the necessary phone calls as shown in the flowchart on Page 11. During the calls do the following:
 - a. Explain the problems with the dam. If this advisory is due to excessive rainfall, you should also contact the National Weather Service at 601-939-2786.
 - b. Give them the name and number of someone who can be called back for any follow-up questions.
- 2) Work with the consulting engineer and MDEQ Dam Safety to determine a path forward.

Note: If water levels are rapidly rising due to a storm event that is expected to exceed the capacity of the spillways, this emergency should immediately be re-classified as a Warning and the steps shown under the Warning section of this EAP should be implemented. If seepage is increasing in flow or new seepage points are developing, this emergency should be re-classified as a Watch and the steps shown under the Watch section of this EAP should be implemented.



II. LOCATION AND DESCRIPTION OF DAM AND OUTLET WORKS

Sulphur Springs Park Lake Dam is located in the Madison County, Mississippi. The dam owner is Madison County, MS (hereafter referred to as “the owner”). The primary function of the lake is recreation for the citizens of Madison County, MS. The dam was constructed in 2015. The dam and lake characteristics were determined by topographic and field surveys. At its normal pool elevation of 290 ft., Sulphur Springs Park Lake Dam impounds approximately 39 acre-feet with a surface area of about 10.3 acres.

The principal spillway is located at the south end of the lake. The principal spillway consists of a rip rap channel and will carry a maximum flow of 395 cubic feet per second (cfs). The emergency spillway is the same as the principle spillway and has a maximum designed discharge of 873 cfs.

III. DAM BREACH ANALYSIS

For the dam break analysis, the computer model HEC-RAS was used. This program simulates a breach, its resulting flood peak, and uses unsteady flow principles to route the flood through the downstream valley.

The top-of-dam elevation was used for the water-surface elevation at the beginning of the dam break (“wet-weather” case). The storm event used for the wet weather case was the PMP event.

Normal pool elevation was used for “sunny day” failure.

The results of the downstream flood routing were used to establish the limits and plot the inundated areas for emergency conditions associated with the dam break discharge. The map shown on Page 2 depicts the area which would be flooded should the hypothetical emergency occur. Shown below is a list of the inputs and boundary conditions used for the computer model:

Geometry: Cross sections obtained from lidar DEM data and plans.

Upstream boundary: A hydrograph with a peak flow of 5700 cfs occurring about 15 minutes after breach, with base flow of 100 cfs.

Downstream boundary: Normal depth based on slope of 0.00063

Formation time: 0.5 hour Peak Breach flow: 5700 cfs

Volume of breach: 248 ac-ft

IV. GENERAL RESPONSIBILITIES UNDER THE PLAN

A. Dam Owner/ On-Site Personnel Responsibilities

Upon notification or discovery of the potential for an emergency situation, the dam owner and/or On-Site Personnel should take the appropriate action as outlined in the Emergency Detection, Evaluation, and Classification section of this plan.

B. Responsibility for Evacuation

Warning and evacuation planning are the responsibilities of local authorities who have the statutory obligation. Dam owners should not assume, or usurp, the responsibility of government entities for evacuation of people. However, there may be situations in which routine notification and evacuation will not suffice, as in the case of a resident located just downstream of the dam. In this case, the dam owner should arrange to notify that person directly. This procedure should be coordinated with the appropriate public officials before an emergency situation develops.

C. Responsibility for Duration, Security, Termination, and Follow-Up

The county EMA should perform on-site monitoring of the situation at the dam and keeping local authorities informed of developing conditions at the dam from the time he arrives on site until the emergency has been terminated. The state dam safety program, in consultation with the county EMA, is responsible for declaring that the emergency at the dam is terminated. Following that declaration, the county EMA is responsible for termination of the disaster response activities.

D. Exercising and Review of the EAP

A review of the adequacy of the EAP shall be conducted annually. Any comments from the evaluation will be used to update the EAP. The EAP should be updated promptly after each change in involved personnel or their telephone numbers, or after completion of a scheduled exercise. The EAP should be exercised annually.

APPENDIX:
APPROVALS AND ACCEPTANCE OF THE EAP

LIST OF EAP HOLDERS

DATE: _____

By my signature below, I certify that I have a copy of the EAP and I understand my role, or the role of my agency, in implementing the EAP for Sulphur Springs Park Lake Dam (MS02880) if the need arises.

COPY #	EAP HOLDER	SIGNATURE
1.	Madison County – Dam Owner	_____
2.	Madison County EMA	_____
3.	MDEQ, OLWR, Dam Safety Division	_____
4.	Madison County Sheriff's Department	_____
5.	Canton Fire Department	_____
6.	Thompson Engineering	_____
7.	National Weather Service – Jackson	_____
8.	911 Call Center	_____

SIGNATURES OF AGREEMENT

We, the undersigned, on the date indicated, have reviewed the requested support activity in the Emergency Action for Sulphur Springs Park Dam. Our support action will be executed in accordance with existing standard operating procedures and/or municipal or county emergency operation plans.

Madison County EMA

Date

Madison County 911Call Center

Date

APPROVAL OF THE EAP

The Emergency Action Plan for Sulphur Springs Park Lake Dam (MS02880) is hereby approved.

Dam Safety Division
Mississippi Department of Environmental Quality

Date

Department of Engineering/Road Management
Dan Gaillet, P.E., County Engineer/ Road Manager

3137 South Liberty Street, Canton, MS 39046
Office (601) 855-5670 FAX (601) 859-5857

MEMORANDUM

May 25, 2017

To: Sheila Jones, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
David Bishop, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Dan Gaillet, P.E.
County Engineer and Road Manager *DG*

Re: Purvis Bridge

The County closed the Purvis Bridge over Spring Creek in early 2016 due to structure/embankment failures. At that time, Mendrop Engineering Resources, Inc. and Burns Cooley Dennis, Inc. were hired to design the improvements. Since that time, the Office of State Aid Road Construction has agreed to fund the construction of the bridge under their Local System Bridge Program (LSBP).

Therefore, the Engineering Department recommends that Mr. Jim Hust, P.E., State Aid Engineer, be hired to complete and coordinate the preliminary engineering phase between Mendrop Engineering Inc. and State Aid for a fee not to exceed \$7,500.00.

Task Order

Task Order No. 16-07

Additional Pages Attached 1

**Task Order to the General Services Agreement Between
Board of Supervisors of Madison County, Mississippi and H1 Services, LLC**

This Task Order to the General Services Agreement (the "Agreement") between the Board of Supervisors of Madison County, Mississippi ("County") and H1 Services, LLC ("Engineer") is a part of and is subject to all the terms and conditions of the Agreement unless specifically provided otherwise herein.

- 1. Project Name: LSBP-45(19) – Purvis Road
- 2. Project Number: LSBP-45(19) – Purvis Road
- 3. Project Manager: for County: Dan Gaillet for Engineer: Jim Hust
- 4. Method of Compensation: X Per Exhibit "A" to the Agreement
 Other (Attach)
- 5. Task Order Allowable Cost (attach additional pages if necessary): **Hourly, to be determined. The estimated budget is \$7,500. Madison County will be reimbursed for the Preliminary Engineering phase by State Aid in accordance with the LSBP Contract Agreement.**
- 6. Scope of Work (Describe, attach additional pages if necessary): **See Exhibit I**
- 7. Schedule of Performance (attach additional pages if necessary): The effective date of this task order is March 1, 2017 through completion of the Preliminary Engineering Phase and award of a construction contract.

Accepted and approved by County and Engineer as of the last date of execution below.

Board of Supervisors of Madison County, MS

Date: _____

By: _____

Dan Gaillet, County Engineer

H1 Services, LLC

Date: 05/18/17

By:  _____

Jim Hust, P. E., Madison County State Aid Engineer

OFFICE OF
STATE AID ROAD CONSTRUCTION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
P. O. BOX 1850
JACKSON, MISSISSIPPI 39215-1850

H. Carey Webb, P.E.
State Aid Engineer
Telephone 601-359-7150

412 Woodrow Wilson Avenue
Jackson, Mississippi 39216
Fax 601-359-7141

April 20, 2017

Board of Supervisors
Madison County
c/o Chancery Clerk
P.O. Box 404
Canton, Mississippi 39046

Dear Gentlemen:

RE: _____ State Aid _____ X _____ LSBP
 _____ Bridge Replacement _____ APL
 _____ STP _____ (Other)

PROJECT NO. LSBP-45(19)
ROAD NAME: Purvis Road
COUNTY: Madison County

This is to advise you that the program for the referenced project has been:

_____ X _____ Approved - See attached program
_____ _____ Dis-Approved
_____ _____ Canceled
_____ _____ Revised

Should you have any questions concerning this action or desire further information,
do not hesitate to contact this division.

Sincerely,
H. Carey Webb, P.E.
State Aid Engineer

By:  Jerry G. Gilliland, P.E.
District Engineer

pc: Jim Hust, Madison County Engineer
 County Program File



PROJECT PRIORITY NO. _____

1. Project No. LSBP-45(19)
2. Name of Road: Furvis Road
3. Design Classification: (check one) Rural Urban (check one) Collector Local
Federal Route Number N/A
4. Termini of Project: Structure No. 034, in Section 27 T8N R2W

5. Length of Project: 0.1 Miles
6. Character of Work (Show Alternates if Applicable) Bridge Replacement and Approaches

7. Design Data:
 - a. Traffic Count: How Determined 100 Estimated
Current ADT 100 VPD; Design Year ADT 150 VPD; %Trucks 4
Traffic Count Required: Yes No (Attach Supplemental Sheet)
 - b. Terrain Level Rolling Design Speed _____ MPH
 - c. ROW: Existing 40 Ft.; Proposed 80 Ft.
 - d. Proposed Roadway Crown Width 24 Ft.
 - e. Surface Type & Width: Existing DBST 16 Ft.
Proposed Asphalt 18 Ft.

8. Bridges:
 - a. Str. No. SA450000000034 Suff. Rtg. 40 Capacity N/A
Remain in Place: Yes No Existing/Proposed Width 24.5 Ft.
 - b. Str. No. _____ Suff. Rtg. _____ Capacity _____
Remain in Place: Yes No Existing/Proposed Width _____ Ft.
 - c. Str. No. _____ Suff. Rtg. _____ Capacity _____
Remain in Place: Yes No Existing/Proposed Width _____ Ft.
 - d. Str. No. _____ Suff. Rtg. _____ Capacity _____
Remain in Place: Yes No Existing/Proposed Width _____ Ft.
 - e. Str. No. _____ Suff. Rtg. _____ Capacity _____
Remain in Place: Yes No Existing/Proposed Width _____ Ft.

9. Estimated Construction Cost of Project (including Contingencies) \$ 440,000
 - a. STP Funds Requested (%) \$ _____
 - b. BR Funds Requested (%) \$ _____
 - c. SA Funds Requested (%) \$ _____
 - d. LSBP Funds (100 %) \$ 440,000
 - e. _____ Funds \$ _____

- Engineering Cost (12 %) (Constr. Cost Less Contingencies) \$ 50,285
- a. State Aid Funds Requested \$ _____
 - b. County Funds Contributed \$ 300
 - c. LSBP Funds Contributed \$ 50,285
 - d. _____ Funds Contributed \$ _____
- Total Estimated Cost of Project \$ 490,285

*0.34
#4*

Construction will be by: Contract County Forces

Use Supplemental Sheet and/or maps if needed to provide complete data.

FOR STATE AID USE ONLY:

Preliminary Review	_____	Date	<u>4-12-17</u>
Recommend Approval	_____	Dist. Engr.	<u>4-12-17</u>
Approved	_____	State Aid Engr.	<u>4-19-17</u>
Letter To Bd.	_____	Dist. Engr.	<u>4-20-17</u>
Funds Record	_____	Auditor	<u>4-20-17</u>
Programmed	_____	Date	_____

Conceptual Cost Estimate - Alternative A
Purvis Road at Spring Creek - State Aid Bridge No. SA450000000034
Project No. MGST01
Madison County, Mississippi

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<u>PARTICIPATING ITEMS:</u>					
201-A001	Clearing and Grubbing	1	LS	\$ 5,000.00	\$ 5,000.00
202-B020	Removal of Concrete Cap	5	EA	\$ 1,000.00	\$ 5,000.00
202-B087	Removal of Guard Rail, Including Rails, Posts and Terminal Ends	150	LF	\$ 3.50	\$ 525.00
202-B109	Removal of Timber Wingwalls	2	EA	\$ 500.00	\$ 1,000.00
202-B110	Removal of Timber Piling	20	EA	\$ 250.00	\$ 5,000.00
203-G004	Excess Excavation, LVM, AH	1375	CY	\$ 7.50	\$ 10,312.50
213-C001	Superphosphate	1	TON	\$ 1,000.00	\$ 1,000.00
907-225-A001	Grassing	1	ACRE	\$ 1,000.00	\$ 1,000.00
907-225-C001	Mulch, Vegetative Mulch	2	TON	\$ 1,000.00	\$ 2,000.00
234-A001	Temporary Silt Fence	300	LF	\$ 6.50	\$ 1,950.00
907-234-F001	Turbidity Barrier	450	LF	\$ 7.50	\$ 3,375.00
907-237-A003	Wattles, 20"	250	LF	\$ 8.50	\$ 2,125.00
907-403-A011	Hot Mix Asphalt, ST, 12.5-mm mixture	70	TON	\$ 200.00	\$ 14,000.00
907-403-A012	Hot Mix Asphalt, ST, 19-mm mixture	200	TON	\$ 200.00	\$ 40,000.00
803-A001	Test Pile	1	EA	\$ 2,000.00	\$ 2,000.00
803-B001	Conventional Static Pile Load Test	1	EA	\$ 1,000.00	\$ 1,000.00
803-D002	HP 12 x 53 Steel Piling	1400	LF	\$ 50.00	\$ 70,000.00
907-806-A001	19' Precast Concrete Slab Unit, 3.5' Interior	10	EA	\$ 2,250.00	\$ 22,500.00
907-806-B001	19' Precast Concrete Slab Unit, Curb	4	EA	\$ 2,750.00	\$ 11,000.00
907-806-H001	Beam Type Railing with Concrete Posts	230	LF	\$ 85.00	\$ 19,550.00
907-806-I001	25.5' Precast Concrete Cap, Intermediate Unit, Steel Pile	5	EA	\$ 3,500.00	\$ 17,500.00
907-806-J001	25.5' Precast Concrete Cap, End Unit, Steel Pile	2	EA	\$ 3,500.00	\$ 7,000.00
907-806-M001	7.5' Precast Concrete Wing	2	EA	\$ 3,000.00	\$ 6,000.00
907-806-P001	Remove and Reset Precast Concrete Slab Unit	28	EA	\$ 1,000.00	\$ 28,000.00
815-A009	Loose Riprap, Size 300	1290	TON	\$ 65.00	\$ 83,850.00
815-E001	Geotextile under Riprap	8500	SY	\$ 5.00	\$ 42,500.00
618-A001	Maintenance of Traffic		LS	5.00%	\$ 8,025.00
620-A001	Mobilization		LS	7.00%	\$ 11,235.00
907-699-B001	Bridge Construction Stakes		LS	1.50%	\$ 2,407.50
	Erosion Control		LS	6.00%	\$ 9,630.00
SUBTOTAL ESTIMATED CONSTRUCTION COST					\$ 434,485
Construction Engineering				8.00%	\$ 34,759
Testing				2.00%	\$ 8,690
Contingency				20.00%	\$ 86,897
TOTAL ESTIMATED CONSTRUCTION COST					\$ 564,831

Department of Engineering/Road Management
Dan Gaillet, P.E., County Engineer/ Road Manager

3137 South Liberty Street, Canton, MS 39046
Office (601) 855-5670 FAX (601) 859-5857

MEMORANDUM

May 24, 2017

To: Sheila Jones, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
David Bishop, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Dan Gaillet, P.E.
County Engineer and Road Manager *DL*

Re: Robinson Road Bridge
Canton, MS

On Wednesday, May 17, 2017, the U.S. Federal Highway Administration (FHWA) and the Mississippi State Aid Division paid a site visit to Robinson Road Bridge, east of Canton. The bridge loading was recently lowered to 3 tons, maximum. As a result of further inspection and the strong recommendation of FHWA and State Aid, the County has permanently closed the bridge until repairs can be made.

**OFFICE OF
STATE AID ROAD CONSTRUCTION**
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
P. O. BOX 1850
JACKSON, MISSISSIPPI 39215-1850

H. Carey Webb, P.E.
State Aid Engineer
Telephone (601) 359-7150
www.msstateaidroads.us

412 E. Woodrow Wilson Avenue
Jackson, Mississippi 39216
Fax (601) 359-7141
mail@osarc.ms.gov

May 22, 2017

Board of Supervisors
Madison County
P.O. Box 608
Canton, MS 39046-0608

RE: Bridge Closure Compliance
Madison County
Structure Number: SA450000000089

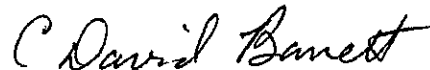
Gentlemen:

This letter is verification that Madison County is in compliance with closure recommendations for Bridge Number SA450000000089, on Robinson Road over Tilda Bogue.

If there are any questions, or if further information is required, please let me know.

Sincerely,

H. Carey Webb, P. E.
State Aid Engineer



By: C. David Barrett
NBI Program Manager

CDB/jaa

pc: James L. Hust, III, P. E., County Engineer
Jerry Gilliland, P.E., District Engineer
Project File