Environmental Document

AHTD JOB NUMBER CA1003

Hwy. 67-Hwy. 141 (Widening) (S)

Lawrence and Greene Counties, Arkansas

Submitted Pursuant to Issue No. 1, An Amendment to Provide Additional Funding for Highways, County Roads, City Streets, Bridges, and Surface Transportation By the Arkansas State Highway and Transportation Department

Prepared by
Susan Patterson
Atkins
Houston, TX

February 17, 2016

2/19/16
Date of Approval

John Fleming
Environmental Division Head
Arkansas State Highway and Transportation Department
The Connecting Arkansas Program Manager (CAPM) has reviewed the referenced project as a Non-NEPA project.

The purpose of this project is to improve capacity and safety along Hwy. 412. The proposed project will include a bypass around the community of Light. Total length of the project is 14.4 miles. It extends from Hwy. 67 in Lawrence County to Hwy. 141 in Greene County. Figures 1 and 2 illustrate the project location.

The existing roadway consists of two 11.5-foot wide paved travel lanes with 8-foot wide shoulders. Existing right of way width varies from 60-125 feet.

Information about the existing bridge structures to be replaced is shown in Table 1 in the attachments.

Proposed improvements include four 12-foot wide paved travel lanes with 8-foot wide shoulders and 11-foot wide painted median. A 2.5-mile long new location section will be constructed that goes south of Light to minimize impacts to the community. The average additional right of way width will vary from 30-65 feet. Approximately 144 acres of additional right of way will be required for this project.

No detours would be required during construction. Information regarding the proposed structures is shown in Table 2 in the attachments. Bridge design sheets are also attached.

Design data for this project is as follows:

<table>
<thead>
<tr>
<th>Design Year</th>
<th>Average Daily Traffic</th>
<th>Percent Trucks</th>
<th>Design Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>5,600</td>
<td>15</td>
<td>60 mph</td>
</tr>
<tr>
<td>2037</td>
<td>7,400</td>
<td>15</td>
<td>60 mph</td>
</tr>
</tbody>
</table>

Relocations will include one residence, one barn, and one grain bin. Public Law 91-646, Uniform Relocation Assistance Act of 1970, as amended, will apply. There are no Executive Order 12898 Environmental Justice issues involved with this project.

Lawrence and Greene Counties participate in the National Flood Insurance Program. All of the floodplain encroachments within this highway construction project will be designed to comply with the county's local flood damage prevention ordinance. The project lies within the Zone A, Special Flood Hazard Area. The final project design will be reviewed to confirm that the design is adequate and that the potential risk to life and property are minimized. The project will not support incompatible use and development of the floodplain. Adjacent properties should not be impacted nor have a greater flood risk than
existed before construction of the project. None of the encroachments will constitute a significant floodplain encroachment or a significant risk to property or life.

A total of 1.24 acres of wetlands will be impacted by this project. Of the 1.24 acres, 0.25 is scrub shrub, 0.19 is emergent, and 0.80 is forested. There are approximately 1,513 linear feet of stream impacts. These impacts are divided among one ephemeral, three intermittent streams, two perennial streams, and 15 potentially jurisdictional ditches/canals. Perennial streams crossed by the project include the Cache River and Caney Slough. Although the Cache River is within the project limits, no construction would occur within the area of the river.

Compensatory mitigation for unavoidable wetland impacts will be provided at the Arkansas Highway and Transportation Department’s Glaise Creek Mitigation Bank (GCMB). The final compensatory mitigation will be determined during the Section 404 permitting process. Construction of the proposed project should be allowed under a Standard Individual Section 404 Permit from the U.S. Army Corps of Engineers.

Coordination with US Fish and Wildlife Service (USFWS) indicates that there are no known federally listed or proposed threatened or endangered species in the affected area of the project. This project lays within the current USFWS Indiana bat consultation area. Considering the relatively close proximity to the only known maternity site in NE Arkansas and the project area appears to have suitable bottomland hardwoods habitat, the USFWS would recommend that the tree removal portion of the project occur outside of the summer months (April 1 - October 15). A copy of the email correspondence from December 2015 is included in the attachments.

There are no cultural resources associated with this project. Clearance letters for historic structures and archeological resources are attached. The SHPO recommends that 3LW547/3GE348 (AHTD Bridge Number 01892) be noted on the plans as an environmentally sensitive area to be avoided during construction.

Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits.

Two public information meetings were held for the proposed project (April 17, 2014 and April 28, 2015). Summaries of both meetings are attached.

Listing of Commitments

1. Nesting Sites of Migratory Birds Special Provision
2. Section 404 Nationwide Permit 14 (Attached to Design Plans)
3. Short Term Activity Authorization
4. NPDES Permit
5. Wetland mitigation will occur at the Glaise Creek Mitigation Bank
6. *Floodplain Development Permit*
7. *URAA will be followed*
8. *Water Quality Control Special Provision*
ATTACHMENTS

Table 1: Existing Structures
Table 2: Proposed Structures
Figure 1: Project Location Map
Figure 2: Topographic Map
Agency Coordination Letters
   USFWS – March 10, 2014; December 2015
   Arkansas Historic Preservation Program – December 17, 2014; September 11, 2015;
   September 30, 2015
Public Meeting Summaries (April 17, 2014; April 28, 2015)
Environmental Impacts Assessment Form
Design Information Form
Bridge Design Information Forms
<table>
<thead>
<tr>
<th>Bridge Number</th>
<th>Watercourse</th>
<th>Existing Structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1889</td>
<td>Fry Ditch</td>
<td>14’ x 16.8’ structure comprised of 1-span concrete deck with steel beams and concrete piles. The structure is functionally obsolete and has a sufficiency rating of 28.9.</td>
</tr>
<tr>
<td>1890</td>
<td>Kellow Ditch</td>
<td>14’ x 16.6’ structure comprised of 1-span concrete deck with steel beams and concrete piles. The structure is functionally obsolete and has a sufficiency rating of 48.1.</td>
</tr>
<tr>
<td>1891</td>
<td>Float Road Slough</td>
<td>31.1’ x 14.6’ structure comprised of 4-span concrete deck with steel beams and concrete piles. The structure is functionally obsolete and has a sufficiency rating of 63.4.</td>
</tr>
<tr>
<td>1909</td>
<td>N.H. Slough</td>
<td>14.3’ x 16.4’ structure comprised of 1-span concrete deck with steel beams and concrete piles. The structure is functionally obsolete and has a sufficiency rating of 40.7.</td>
</tr>
<tr>
<td>1913</td>
<td>Lateral Ditch No. 3</td>
<td>92.7’ x 24.1’ structure comprised of 3-span concrete deck with RCD girder spans and concrete piles. The structure is functionally obsolete and has a sufficiency rating of 79.6.</td>
</tr>
<tr>
<td>1916</td>
<td>Caney Slough</td>
<td>21.6’ x 14.6’ structure comprised of 3-span concrete deck with RCD girder spans and concrete piles. The structure is functionally obsolete and has a sufficiency rating of 65.5.</td>
</tr>
<tr>
<td>1974</td>
<td>Overcup Slough</td>
<td>18.9’ x 16.4’ structure comprised of 2-span concrete deck with RCD girder spans and concrete piles. The structure is functionally obsolete and has a sufficiency rating of 79.2.</td>
</tr>
<tr>
<td>M0620</td>
<td>Unknown Slough</td>
<td>71’ x 24’ structure comprised of 3-span concrete deck with RCD girder spans and concrete piles. The structure is functionally obsolete and has a sufficiency rating of 73.3.</td>
</tr>
<tr>
<td>Sta. 393 + 35</td>
<td>Unknown Ditch</td>
<td>8’ x 4’ x 108’ structure comprised of RCBC</td>
</tr>
<tr>
<td>Watercourse</td>
<td>Proposed Structure</td>
<td>Type</td>
</tr>
<tr>
<td>------------------------------</td>
<td>---------------------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Fry Ditch</td>
<td>Triple 12’ x 12’ x 121’ RC Box Culvert</td>
<td>Replacement Structure</td>
</tr>
<tr>
<td>Kellow Ditch</td>
<td>Triple 10’ x 10’ x 122’ RC Box Culvert</td>
<td>Replacement Structure</td>
</tr>
<tr>
<td>Float Road Slough</td>
<td>Quad. 10’ x 10’ x 123’ RC Box Culvert</td>
<td>Replacement Structure</td>
</tr>
<tr>
<td>N.H. Slough</td>
<td>Triple 8’ x 7’ x 126’ RC Box Culvert</td>
<td>Replacement Structure</td>
</tr>
<tr>
<td>Lateral Ditch No. 3</td>
<td>Triple 12’ x 8’ x 210’ RC Box Culvert</td>
<td>Replacement Structure</td>
</tr>
<tr>
<td>Caney Slough</td>
<td>Quad. 12’ x 12’ x 140’ RC Box Culvert</td>
<td>Replacement Structure</td>
</tr>
<tr>
<td>Overcup Slough</td>
<td>Quad. 8’ x 6’ x 148’ RC Box Culvert</td>
<td>Replacement Structure</td>
</tr>
<tr>
<td>Unknown Slough</td>
<td>Quad. 10’ x 10’ x 163’ RC Box Culvert</td>
<td>Replacement Structure</td>
</tr>
<tr>
<td>Unknown Canal, Sta. 605 + 29</td>
<td>Triple 7’ x 4’ x 128’ RC Box Culvert</td>
<td>New Structure</td>
</tr>
<tr>
<td>Unknown Ditch, Sta. 393 + 35</td>
<td>Extend existing 8’ x 4’ x 108’ RCBC to 124’</td>
<td>Culvert Extension</td>
</tr>
</tbody>
</table>
FIGURE 1
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

PROJECT LOCATION MAP
Hwy 412: From Hwy 67 to Hwy 141
Lawrence and Greene Counties, Arkansas
Project No: CA1003
Mr. Lynn P. Malbrough  
Environmental Division Head  
Arkansas Highway and Transportation Department  
P.O. Box 2261  
Little Rock, AR 72203-2261  

Re: AHTD Connecting Arkansas Program Endangered Species Review  

Dear Mr. Malbrough:

This responds to your letter dated February 6, 2014, soliciting U.S. Fish and Wildlife Service (Service) comments on the above referenced projects. Our comments are submitted in accordance with the Endangered Species Act of 1973 (87 stat. 884, as amended; 16 U.S.C. 1531 et seq.).

According to your letter, the Arkansas Highway and Transportation Department (AHTD) is proposing to widen multiple highways throughout the state to move people and goods more efficiently, provide a revenue source for new highway projects, accelerate the completion of highway improvement projects, improve traveler safety, ease congestion, support job growth and improve Arkansas’ economy through the Connecting Arkansas Program. This effort includes 31 projects that will widen and improve approximately 200 miles of highways and interstates. All of the projects propose to widen existing roadways with no construction on new location.

Jobs CA0401, CA0901, CA1101, CA0902, CA0905, CA0904, CA0903 and CA0907 are located in Benton and Washington Counties, Arkansas. Listed species occurring in these counties that could be affected directly or indirectly by the proposed projects include the Ozark Big-Eared Bat (*Corynorhinus townsendii ingens*), Gray Bat (*Myotis grisescens*), Indiana Bat (*Myotis sodalis*), Missouri Bladderpod (*Physaria filiformis*), Cave Crayfish (*Cambarus aculabrum*), Neosho Mucket (*Lampsilis rafinesqueana*), Rabbitsfoot (*Quadrula cylindrica cylindrica*), Ozark cavefish (*Amblyopsis rosae*), Scaleshell (*Leptodea leptodon*), and Spectaclecase (*Cumberlandia monodonta*). Additionally, the proposed endangered Northern Long-eared Bat (*Myotis septentrionalis*), candidate Arkansas darter (*Etheostoma cragini*) and federally protected Bald Eagle (*Haliaeetus leucocephalus*) are known to occur in Benton and Washington Counties.

Jobs CA0602, CA0603, CA0604, CA0605, CA0608, CA0609 and 061367 occur in Pulaski and Lonoke Counties, Arkansas. Listed species occurring in these counties that could be affected by the proposed projects include the Interior Least Tern (*Sterna antillarum athalassos*), Running Buffalo Clover (*Trifolium stoloniferum*), Rattlesnake-Master Borer Moth (*Papaipema eryngii*), and Piping Plover (*Charadrius melodus*). Additionally, the proposed endangered Northern Long-
eared Bat (*Myotis septentrionalis*) and federally protected Bald Eagle (*Haliaeetus leucocephalus*) are known to occur in Pulaski and Lonoke Counties.

Jobs CA0601, CA0607 and 061330 occur in Saline and Garland Counties, Arkansas. Listed species occurring in these counties that could be affected by the proposed projects include the Red-cockaded Woodpecker (*Picoides borealis*), Harperella (*Ptilimnium nodosum*), Missouri Bladderpod (*Physaria filiformis*), Arkansas Fatmucket (*Lampsilis powelli*), Pink Mucket (*Lampsilis abrupta*), Rabbitsfoot (*Quadrula cylindrica cylindrica*), Spectaclecase (*Cumberlandia monodonta*), Winged Mapleleaf (*Quadrula fragosa*), and Ouachita Rock-Pocketbook (*Arkansia wheeleri*). Additionally, the proposed endangered Northern Long-eared Bat (*Myotis septentrionalis*) and federally protected Bald Eagle (*Haliaeetus leucocephalus*) are known to occur in Garland and Saline Counties.

Jobs CA 0101, CA1001 and CA1002 occur in Craighead, Crittenden and Mississippi Counties, Arkansas. Listed species known to occur in these counties that could be affected by the proposed projects include Fat Pocketbook (*Potamilus capax*), Pondberry (*Lindera melissifolia*), Indiana Bat (*Myotis sodalis*), and Scaleshell (*Leptodea leptodon*). The federally protected Bald Eagle (*Haliaeetus leucocephalus*) is also known to occur in these counties.

Job 012154 occurs in Faulkner and White Counties, Arkansas. There are no listed species in the vicinity of this project. The federally protected Bald Eagle (*Haliaeetus leucocephalus*) is known to occur in both counties. Job CA0801 occurs in Van Buren County, Arkansas. Listed species occurring in this county that could be affected by the proposed project include the Yellowcheek Darter (*Etheostoma moorei*), Speckled Pocketbook (*Lampsilis streckeri*), Rabbitsfoot (*Quadrula cylindrica cylindrica*), Gray Bat (*Myotis grisescens*), and Indiana Bat (*Myotis sodalis*). Additionally, the proposed endangered Northern Long-eared Bat (*Myotis septentrionalis*) and federally protected Bald Eagle (*Haliaeetus leucocephalus*) are known to occur in Van Buren County.

Job CA0906 occurs in Newton and Boone Counties, Arkansas. Listed species occurring in these counties that could be affected directly or indirectly by the proposed projects include the Ozark Big-Eared Bat (*Corynorhinus townsendii ingens*), Gray Bat (*Myotis grisescens*), Indiana Bat (*Myotis sodalis*), and Ozark Cavefish (*Amblyopsis rosae*). The proposed endangered Northern Long-eared Bat (*Myotis septentrionalis*) and federally protected Bald Eagle (*Haliaeetus leucocephalus*) are also known to occur in these counties.

Jobs CA0705 and CA0706 occur in Columbia and Union Counties, Arkansas. The only listed species occurring in these counties that could be affected by the proposed projects is the Red-cockaded Woodpecker (*Picoides borealis*). However, several species of burrowing crayfish (species have already been discussed with AHTD) have recently been petitioned for federal listing as threatened or endangered and may occur in roadside ditches in this area of the state. The Service will continue to work with AHTD in an ongoing effort to survey the area to identify species occurrence or suitable habitat. Additionally, the federally protected Bald Eagle (*Haliaeetus leucocephalus*) is known to occur in Columbia and Union Counties.
Jobs CA0201, CA0202, CA0701, CA0702, CA0703, and CA0704 occur in Ashley and Calhoun Counties, Arkansas. Listed species occurring in these counties that could be affected by the proposed projects include the Red-cockaded Woodpecker (*Picoides borealis*) and Pondberry (*Lindera melissifolia*). The aforementioned burrowing crayfish species petitioned for listing may also occur in roadside ditches in these counties and surveys are recommended in coordination with the Service and appropriate stakeholders. The federally protected Bald Eagle (*Haliaeetus leucocephalus*) is also known to occur in Ashley and Calhoun Counties.

Job CA1003 occurs in Lawrence and Greene Counties, Arkansas. Listed species occurring in these counties that could be affected by the proposed include Pondberry (*Lindera melissifolia*) and Indiana Bat (*Myotis sodalis*). The proposed endangered Northern Long-eared Bat (*Myotis septentrionalis*) and federally protected Bald Eagle (*Haliaeetus leucocephalus*) are also known to occur in these counties.

Numerous species of migratory birds protected under the Migratory Bird Treaty Act occur in all project areas and may be nesting on structures to be replaced, upgraded or otherwise affected by the proposed projects. Surveys should be conducted prior to initiation of project construction and special consideration given to the times and dates of construction to avoid adverse effects to these species which typically nest in Arkansas from March 1 through September 30.

Thank you for allowing our agency the opportunity to comment on the proposed projects. For future correspondence on this matter, please contact Mitch Wine of this office at (501) 513-4488 or mitch_wine@fws.gov.

Sincerely,

James F. Boggs
Field Supervisor

cc:
Randal Looney, Federal Highway Administration
Brenda Price, Arkansas Highway and Transportation Department
John Fleming, Arkansas Highway and Transportation Department
Josh Seagraves, Arkansas Highway and Transportation Department
Cindy Osborne, Arkansas Natural Heritage Commission
Jennifer Sheehan, Arkansas Game and Fish Commission
Wanda Boyd, United States Environmental Protection Agency
See USFWS concurrence below. Add language into env document and include the email correspondence. thanks

Bill McAbee
Garver
501-537-3259

From: Seagraves, Josh [mailto:Josh.Seagraves@ahtd.ar.gov]
Sent: Monday, December 7, 2015 9:11 AM
To: McAbee, William C.
Subject: FW: FW: CA1003 bat survey necessary?

FYI.

From: Lewis, Lindsey [mailto:lindsey_lewis@fws.gov]
Sent: Monday, December 07, 2015 8:10 AM
To: Seagraves, Josh
Subject: Re: FW: CA1003 bat survey necessary?

Josh,

I have reviewed the information you provided along with our current guidance and records. Based on the special conditions you have proposed, BMPs that are standard for these projects, the time of year, and limited habitat in this area, the Service concurs with our determination that, "the project may affect but is not likely to adversely affect listed species."

No further consultation is necessary at this time.

Thanks.

Lindsey Lewis
Biologist

US Fish & Wildlife Service
Arkansas Field Office
110 South Amity Rd., Suite 300
Conway, Arkansas  72032

(501) 513-4489 - voice
Based on the information provided in the email below, the Department has agreed to prohibit the clearing of trees during the summer months, April 1 – October 15. With the implementation of the clearing restrictions and the lack of suitable habitat for other threatened or endangered species known to occur in Lawrence and Greene Counties, the determination has been made that the project may affect but is not likely to adversely affect listed species. We request your concurrence in this determination. A project location map is attached.

Thank you.

Josh Seagraves
Section Head – Special Studies
Arkansas Highway and Transportation Dept.
PO Box 2261, Little Rock, AR 72203
Josh.Seagraves@ahtd.ar.gov

From: Inebnit, Thomas [mailto:thomas_inebnit@fws.gov]
Sent: Thursday, July 09, 2015 2:49 PM
To: Seagraves, Josh
Cc: Lewis, Lindsey
Subject: Re: CA1003 bat survey necessary?

Josh,

This project does occur within our current Ibat Consultation Area. I understand that very little tree removal will be occurring; however, considering you are relatively close (as a bat flies) to our only known maternity site in NE Arkansas and this appears to be suitable bottomland hardwoods habitat, I would recommend that the tree removal portion of the project occur outside of the summer months April 1 - October 15. Therefore,
construction on the other portions (the majority) of the project could start at anytime of the year. Let me know if you have any further questions. Thanks.

Tommy Inebnit
Energy Projects Biologist/Bat Biologist

U.S. Fish & Wildlife Service
Arkansas Field Office
110 South Amity Road, Suite 300
Conway, Arkansas 72032

(501) 513-4483 - work
(501) 513-4480 - fax

On Thu, Jul 9, 2015 at 11:03 AM, Seagraves, Josh <Josh.Seagraves@ahtd.ar.gov> wrote:

This project largely involves agricultural land and the trees that will be cleared on the bypass around Light fall outside of the NLEB consultation boundary but will a survey be requested for Ibats?

Josh Seagraves
Section Head – Special Studies
Arkansas Highway and Transportation Dept.
PO Box 2261, Little Rock, AR 72203
The IS team in Atkins has scanned this email and any attachments for viruses and other threats; however no technology can be guaranteed to detect all threats. Always exercise caution before acting on the content of an email and before opening attachments or following links contained within the email.
September 17, 2014

Mr. Ray Balentine, P.E.
Environmental Team Leader
Arkansas State Highway and Transportation Department
Connecting Arkansas Program
PO Box 2261
Little Rock, AR 72203-2261

RE: Lawrence and Greene Counties - General
Section 106 Review – FHWA
Request for Technical Assistance
AHTD Job Number CA1003
AHPP Tracking Number 91289

Dear Mr. Balentine:

This letter is written in response to your inquiry regarding properties of architectural or historical significance in the area of the proposed referenced project. The staff of the Arkansas Historic Preservation Program has reviewed the documents contained in your August 26, 2014 letter and has determined that all of the 99 structures surveyed (01A-34) are ineligible for inclusion in the National Register of Historic Places.

Once the undertaking is further along in the planning stages, we look forward to reviewing the cultural resources survey report of the proposed project. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Theresa Russell of my staff at (501)-324-9357.

Sincerely,

Frances McSwain
Deputy State Historic Preservation Officer

cc: Mr. Randal Looney, Federal Highway Administration
    Mr. John Fleming, AHTD
    Ms. Rebecca Brave, Osage Nation
    Mr. Everett Bandy, Quapaw Tribe of Oklahoma
    Dr. Ann Early, Arkansas Archeological Survey
    Mr. M. Kelley Russell, Atkins
September 11, 2015

Mr. Ray Balentine, P.E.
Environmental Team Leader
Arkansas State Highway and Transportation Department
Connecting Arkansas Program
PO Box 2261
Little Rock, AR 72203-2261

RE: Lawrence and Greene Counties - General
   Section 106 Review – FHWA
   Request for Technical Assistance - Addendum
   AHTD Job Number CA1003
   AHPP Tracking Number 91289.1

Dear Mr. Balentine:

This letter is written in response to your inquiry regarding properties of architectural or historical significance in the area of the proposed referenced project. The staff of the Arkansas Historic Preservation Program has reviewed the documents contained in the addendum attached to your August 31, 2015, letter and has determined that all three structures surveyed (35A-C) are ineligible for inclusion in the National Register of Historic Places.

Once the undertaking is further along in the planning stages, we look forward to reviewing the cultural resources survey report of the proposed project. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Theresa Russell of my staff at (501)-324-9357.

Sincerely,

Frances McSwain
Deputy State Historic Preservation Officer

cc: Mr. Randal Looney, Federal Highway Administration
Mr. John Fleming, AHTD
Ms. Rebecca Brave, Osage Nation
Mr. Everett Bandy, Quapaw Tribe of Oklahoma
Dr. Ann Early, Arkansas Archeological Survey
Mr. M. Kelley Russell, Atkins
September 30, 2015

Mr. Ryan C. Mountain
Senior Environmental Scientist/Specialist
Transportation Team
Garver, Inc.
2049 East Joyce Boulevard, Suite 400
Fayetteville, AR 72703

RE: Lawrence and Greene Counties – General
Section 106 Review – FHWA
Report Entitled A Phase I Cultural Resources Survey of the Proposed Highway
412: From Highway 67 to Highway 141 Lawrence and Greene Counties,
Arkansas
AHPP Tracking Number 91289.2

Dear Mr. Mountain:

The staff of the Arkansas Historic Preservation Program has reviewed the above-referenced cultural resources report. This report documents the phase I cultural resources survey conducted for the project and is acceptable.

Based on the information presented in this report, we concur that sites 3GE500-501, 3GE503-504 and 3GE506 are not eligible to the National Register of Historic Places (NHRP). In addition, we concur that those portions of archeological sites 3GE7, 3LW808, 3LW810-811, 3GE502, 3GE505 and 3GE507 within the area of potential effect would not contribute to NRHP eligibility of the sites, although the NRHP eligibility of the portion of the sites outside the proposed right of way are undetermined. Therefore, we find that the proposed undertaking will have no effect on historic properties.

We would recommend that 3LW547/3GE348 (AHTD Bridge Number 01892) be noted on the plans as an environmentally sensitive area to be avoided during construction or included in a special provision requesting avoidance of the NRHP listed bridge and its immediate area during construction.

Thank you for the opportunity to review this undertaking. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Bob Scoggin of my staff at 501-324-9270

Sincerely,

Frances McSwain
Deputy State Historic Preservation Officer

cc: Mr. Randall Looney, FHWA
Mr. Jason Ross, The Delaware Nation
Dr. Andrea Hunter, Osage Nation
Mr. Everett Bandy, Quapaw Tribe of Oklahoma
Ms. Kim Jumper, Shawnee Tribe of Oklahoma
Mr. John Fleming, AHTD
Dr. Ann Early, Arkansas Archeological Survey
Job CA1003 – Hwy 412
Hwy. 67 – Hwy. 141 (Widening)
Lawrence and Greene Counties
Thursday, April 17, 2014

An open-forum public involvement meeting for the proposed Hwy 412 widening from Hwy 67 to Hwy 141 was held at the Light Baptist Church (Fellowship Hall) in Light, Arkansas from 4:00 – 7:00 p.m. on April 17, 2014. Efforts to involve minorities and local property owners in the meeting(s) included:

- Display ad placed in the Times Dispatch April 9 and 16, 2014.
- Community Calendars for KDRS (TALK 1490/CHR 107.1 - Paragould) and KPOC-KRLW (OLDIES 1320/103.1 – Walnut Ridge).
- Letters to public officials mailed eight days prior to the meeting.
- Meeting notice flier mailed eight days prior to the meeting.
- Meeting notice flier distributed door-to door one week prior to the meeting.
- News release distributed by the Arkansas State Highway and Transportation Department and posted at ConnectingArkansasProgram.com and ArkansasHighways.com.

The following information was available for inspection and comment. Small-scale copies of the displays are attached to this synopsis.

- Aerial photograph roll plot at a scale of 1:200, illustrating the entire length of the proposed project
- Aerial photograph roll plot at a scale of 1:100, illustrating the bypass options around Light
- Aerial photograph 24”x36” mounted board at a scale of 1:2000, illustrating the entire length of the proposed project
- Aerial photograph 24”x36” mounted board at a scale of 1:1000, illustrating the bypass options around Light
- Three CAP informational boards

Handouts for the public included a comment sheet and an 11”x17” map illustrating the entire project length on one side and the bypass options around Light on the other side. Copies of these are attached to this synopsis.
An elected officials meeting was held prior to the public meeting at the Light Baptist Church (Fellowship Hall) from 2:00 – 4:00 p.m. Attendees included Jerry Shipman (Greene County Judge), Dale Freeman (Lawrence County Judge), and Don House (Walnut Ridge Mayor). All the officials present expressed support for the proposed project.

An employee of the Times Dispatch was also present during the elected officials meeting.

Several other elected officials or their representatives attending the public meeting, including Mike Gaskill (Paragould Mayor), State Senator Robert Thompson, and Rebeka Bryant (attending for State Representative Rick Crawford).

Table 1 describes the results of public participation at the meeting.

<table>
<thead>
<tr>
<th>TABLE 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Participation</td>
</tr>
<tr>
<td>Attendance at meeting (including AHTD and CAP staff)</td>
</tr>
<tr>
<td>Total comment forms received</td>
</tr>
</tbody>
</table>

AHTD, Garver, and Atkins reviewed all comments received and evaluated their contents. The summary of comments listed below reflects the personal perception or opinion of the person or organization making the statement. The sequencing of the comments is random and is not intended to reflect importance or numerical values. Some of the comments were combined and/or paraphrased to simplify the synopsis process.
An analysis of the responses received from the public survey is shown in Table 2.

<table>
<thead>
<tr>
<th>TABLE 2 Survey Results</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supports improvements to Highway 412</td>
<td>34</td>
</tr>
<tr>
<td>Does not support improvements to Highway 412</td>
<td>8</td>
</tr>
<tr>
<td>Knowledge of historical, archeological or cemetery sites</td>
<td>2</td>
</tr>
<tr>
<td>Knowledge of area environmental constraints</td>
<td>0</td>
</tr>
<tr>
<td>Suggestion to better serve the needs of the community</td>
<td>14</td>
</tr>
<tr>
<td>Believes the project would have beneficial impacts</td>
<td>5</td>
</tr>
<tr>
<td>Believes the project would have adverse impacts</td>
<td>11</td>
</tr>
<tr>
<td>No response to beneficial/adverse impacts</td>
<td>34</td>
</tr>
<tr>
<td>North Bypass</td>
<td>3</td>
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<tr>
<td>Widening on Existing</td>
<td>19</td>
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<tr>
<td>South Bypass</td>
<td>10</td>
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<tr>
<td>No Build</td>
<td>4</td>
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<tr>
<td>Selected 2 or More Alternatives</td>
<td>6</td>
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<tr>
<td>No Response</td>
<td>9</td>
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<tr>
<td>Additional Comments</td>
<td>19</td>
</tr>
<tr>
<td><strong>Total Comment Forms Received</strong></td>
<td><strong>50</strong></td>
</tr>
</tbody>
</table>

A total of 50 comment forms were received during the meeting or within the 15-day comment period. The following is a summary of the 19 additional comments written on the forms as well as comments written elsewhere on the form:

- Six citizens were concerned about their own or their neighbors’ farmland being lost or disturbed.
- Five land owners were concerned about losing part or all of their property.
- Four comments expressed concern over the currently dangerous highway.
- Three citizens were concerned about the noise a widening would bring.
- Three home owners wanted a fast decision so they know whether or not to work on their houses.
- Two land/business owners said they would give up right-of-way and/or their house or move their business to get the widening through Light.
List of Attachments

A  Blank Citizen Comment Form
B  11”x17” map handout
C  Public Meeting Register
Attachment A
Blank Citizen Comment Form
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT (AHTD)

CITIZEN COMMENT FORM

AHTD Job Number CA1003
Hwy. 412: Hwy. 67-Hwy. 141
Lawrence and Greene Counties

LOCATION:
Light Baptist Church (Fellowship Hall)
17125 Highway 412, Light, AR
Thursday, April 17, 2014
4:00 – 7:00 p.m.

Make your comments on this form and leave it with AHTD Connecting Arkansas Program personnel at the meeting or mail it within 15 days to: AHTD Connecting Arkansas Program, Attn: Jon Hetzel, 4701 Northshore Drive, North Little Rock, AR 72118. Email: Info@ConnectingArkansasProgram.com.

Yes ☐ No ☐

Do you feel there is a need for the proposed widening of Hwy. 412 between Hwy. 67 and Hwy. 141? ________________________________

______________________________

☐ ☐ Do you know of any historical sites, family cemeteries, or archaeological sites in the proposed area? Please note and discuss with staff. ________________

______________________________

☐ ☐ Do you know of any environmental constraints, such as endangered species, hazardous waste sites, existing or former landfills, or parks and public lands in the vicinity of the project? Please note and discuss with staff. ________________________________

______________________________

☐ ☐ Do you have a suggestion that would make this proposed project better serve the needs of the community? ________________________________

______________________________

(Continued on back)
Do you feel that the proposed widening project will have any impacts (☐ Beneficial or ☐ Adverse) on your property and/or community (e.g. economic, environmental, social, etc.)? Please explain. ____________________________________________________________

Four alternatives are currently being evaluated. Which alternative do you feel would better meet the needs of the community? Please provide any specific comments regarding each alternative.

☐ North Bypass ____________________________________________________________

☐ Widening on Existing ______________________________________________________

☐ South Bypass ____________________________________________________________

☐ No Build ________________________________________________________________

It is often necessary for the AHTD to contact property owners along potential routes. If you are a property owner along or adjacent to the route under consideration, please provide information below. Thank you.

Name: _______________________________ (Please Print)

Address: __________________________ Phone: (_____) _________--________

________________________________________

________________________________________ E-mail: _________________________

Please make additional comments here.__________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

For additional information, please visit our website at www.ConnectingArkansasProgram.com
Attachment B
11"x17" map handout
Attachment C
Public Meeting Register
<table>
<thead>
<tr>
<th>Name</th>
<th>Street or P.O. Box</th>
<th>City, Zip</th>
<th>Representing: Organization or “Self”</th>
<th>How did you hear about this meeting? (Radio, Newspaper, Flyer, etc.)</th>
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<tr>
<td>Glynn Falmer</td>
<td>4701 Northshore Dr.</td>
<td>NLR, AR 72118</td>
<td>CAPM</td>
<td>Organizer</td>
</tr>
<tr>
<td>Jon Hetzel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ted James Ratliff</td>
<td>P.O. Box 791</td>
<td></td>
<td></td>
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<tr>
<td>Susan Patterson</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Jenelle Romero</td>
<td></td>
<td></td>
<td>Atkins</td>
<td>News/Press</td>
</tr>
<tr>
<td>Brian Clark</td>
<td></td>
<td></td>
<td>Atkins</td>
<td>STAFF</td>
</tr>
<tr>
<td>Garry Shipman</td>
<td>1135 Sarano 712 Rd.</td>
<td></td>
<td>Atkins</td>
<td>STAFF</td>
</tr>
<tr>
<td>Dee Ann</td>
<td>1317 Sarano 712 Rd.</td>
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<td></td>
<td>SP RFP</td>
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<tr>
<td>Walter McMillan</td>
<td>P.O. Box 78 Paragould, AR 72175</td>
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<tr>
<td>Ray Belfantie</td>
<td>412 Horatio Hobby</td>
<td>Madison, MS</td>
<td>Gorver</td>
<td>STAFF</td>
</tr>
<tr>
<td>Dan House</td>
<td>P.O. Box 505 W. 72496</td>
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<td>Walnut Ridge</td>
<td>STAFF</td>
</tr>
<tr>
<td>Ruby Wilson</td>
<td>1381 Ruby Wilson</td>
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<td>Walnut Ridge</td>
<td>STAFF</td>
</tr>
<tr>
<td>Gretchen Hume</td>
<td>620 Dr 750</td>
<td></td>
<td>the Times-Picayure</td>
<td></td>
</tr>
<tr>
<td>Jana Miller</td>
<td>804 Greene 211 Road</td>
<td></td>
<td>Beech Grove AR</td>
<td>Self</td>
</tr>
<tr>
<td>Stevie Miles</td>
<td></td>
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<tr>
<td>Sharon Kellerma</td>
<td>17920 Hwy 412</td>
<td>Bono AR 72416</td>
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<td>John Rileyman</td>
<td>17920 Hwy 412</td>
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<td>Ronnie Henderson</td>
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<tr>
<td>Roderick</td>
<td>231 Biscayne Dr.</td>
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<td>Lincoln Rock</td>
<td>STAFF</td>
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<tr>
<td>Anthony Wilson</td>
<td>453 Green WD</td>
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<td>Pineview</td>
<td>STAFF</td>
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Job No: CA1003
Date: April 17, 2014
## PUBLIC MEETING REGISTER

Meeting Held At: Light Baptist Church Fellowship Hall  
17125 Highway 412, Light AR  
Job Name: Hwy. 67-Hwy. 141  
Job No: CA1003  
Date: April 17, 2014

<table>
<thead>
<tr>
<th>PLEASE PRINT Name</th>
<th>Street or P.O. Box</th>
<th>City, Zip</th>
<th>Representing: Organization or “Self”</th>
<th>How did you hear about this meeting? (Radio, Newspaper, Flyer, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Jan Miller</td>
<td>884 Greene 214 Rd</td>
<td>Beech Grove 72412</td>
<td>Self</td>
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<tr>
<td>2. Keith Shumard</td>
<td>1059 Groove 313 Ed</td>
<td>Paragould 72450</td>
<td>Self/F</td>
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<tr>
<td>3. Jesse Hancock</td>
<td>16990 Hwy 10 W</td>
<td>Walnut Ridge 72476</td>
<td>Self</td>
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</tr>
<tr>
<td>4. Shirley Byrnes</td>
<td>PO Box 622</td>
<td>Walnut Ridge 72476</td>
<td>Self</td>
<td></td>
</tr>
<tr>
<td>5. Miki Gaskill</td>
<td>1049 N 347th St</td>
<td>Paragould</td>
<td>City, County, Mayor</td>
<td></td>
</tr>
<tr>
<td>6. Judy Beck</td>
<td>2507 GE 33rd Rd</td>
<td>Paragould 72450</td>
<td>Self/F</td>
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</tr>
<tr>
<td>Kenney &amp; Delilah Newberry</td>
<td>217 GE 110 Rd.</td>
<td>Paragould</td>
<td>Letter</td>
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<tr>
<td>8. Tom &amp; Janet Wadley</td>
<td>15 Lawrence CR 61S</td>
<td>Walnut Ridge</td>
<td>Self</td>
<td></td>
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<tr>
<td>9. Jason Forcum</td>
<td>702 SW 3rd</td>
<td>Walnut Ridge</td>
<td>Self/F</td>
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<tr>
<td>10. Ray Melton</td>
<td>1494 Hwy 412</td>
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<td>Self</td>
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</tr>
<tr>
<td>11. Glenn Mrsly</td>
<td>2917 Greene 2032</td>
<td>Paragould</td>
<td>Self</td>
<td>News</td>
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<td>12. William Smith</td>
<td>5086 Greene 3241A</td>
<td>Beech Grove</td>
<td>Jimmy Sanders</td>
<td>Flyer</td>
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<tr>
<td>13. Richard Tate</td>
<td>1806 W 18th St</td>
<td>Paragould</td>
<td>Jimmy Sanders</td>
<td>Flyer</td>
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<tr>
<td>14. Phyllis Airley</td>
<td>11515 Hwy 412 W</td>
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<td>Self</td>
<td>Flyer</td>
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<tr>
<td>15. Sue McGowan</td>
<td>P.O. Box 1234</td>
<td>Paragould</td>
<td>Chamber of Commerce Paper</td>
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<tr>
<td>17. Shaun Finch</td>
<td>7 Victor Dr.</td>
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<tr>
<td>18. Verna Cupp</td>
<td>1870 Hwy 412 W</td>
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<td>Mail</td>
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<tr>
<td>19. Sonya Miller</td>
<td>16903 Hwy 412</td>
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<tr>
<td>20. Randy Conwright</td>
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<tr>
<td>Name</td>
<td>Street or P.O. Box</td>
<td>City, Zip</td>
<td>Representing: Organization or “Self”</td>
<td>How did you hear about this meeting?</td>
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<td>Brenda Dennis</td>
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<td>Julie Hammons</td>
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<td>Rebekah Bryant</td>
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<td>Jonesboro</td>
<td>Rick Crawford</td>
<td>Chamber</td>
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<td>Judy D Emmanuel Bailey</td>
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<td>Charles &amp; Janie Samp</td>
<td>222 SW 2nd</td>
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<td>Dale Hughes</td>
<td>303 NW Primrose Cir</td>
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<td>Emmett Hawkins</td>
<td>703 Laura Lee 620</td>
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<td>Dorothy L.</td>
<td>712 Hwy 110 W</td>
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<td>Eddie Arnold &amp; Karen</td>
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<td>Lupe A. McDowell</td>
<td>414 W. Highland 59</td>
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<td>Alan Vailt</td>
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<td>129 Cypress Point</td>
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<td>Jetliner</td>
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<td>Allan Ward</td>
<td>160 Charleston Dr</td>
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<td>TV</td>
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<td>Scott Brady</td>
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<td>Flyer</td>
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<td>Jackie Glidewell</td>
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<td>Shiloh Killian</td>
<td>8000 Newcastle Drive</td>
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<td>Gary Killian</td>
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<td>Self</td>
<td>Flyer</td>
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<tr>
<td>Name</td>
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<td>City, Zip</td>
<td>Representing: Organization or &quot;Self&quot;</td>
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<td>Langston Carr</td>
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<td>Leta C Miller</td>
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<td>Harvey Songer</td>
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<td>John Heidt</td>
<td>16805 Highway 412</td>
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<td>Angie Leister</td>
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<td>14106 Jackie Ln Paragould</td>
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<td>Robert Strand</td>
<td>269 Greene 332 Rd</td>
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<td>Harold Finch</td>
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<td>Dorezlz Wayland</td>
<td>404 Eastwood</td>
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<td>Rawley Grant</td>
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<td>Richard Misty Girard</td>
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<td>Alvin R Miller</td>
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<td>Bonnie Selig</td>
<td>2682 Hwy 141 N</td>
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<td>Nancy</td>
<td>2722 Hwy 141 N</td>
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<td>Danny Sluder</td>
<td>111 5 Center Hill Rd</td>
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<tr>
<td>Rita Adams</td>
<td>P.O. Box 119 Walnut, AR</td>
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<tr>
<td>Dean James Lewis</td>
<td>19536 Hwy 412</td>
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<tr>
<td>Brett Cooper</td>
<td>P.O. Box 3736</td>
<td></td>
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<tr>
<td>PLEASE PRINT Name</td>
<td>Street or P.O. Box</td>
<td>City, Zip</td>
<td>Representing: Organization or “Self”</td>
<td>How did you hear about this meeting? (Radio, Newspaper, Flyer, etc.)</td>
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</tr>
<tr>
<td>Greg Brady</td>
<td>151 Hwy 231</td>
<td>Walnut Ridge 72476</td>
<td>self</td>
<td>Flyer</td>
</tr>
<tr>
<td>Bobbi Smith</td>
<td>2510 W. King Street</td>
<td>Patterson, AR 72450</td>
<td>AWTG</td>
<td>Work</td>
</tr>
<tr>
<td>Brandi Slayton</td>
<td>110950 Hwy 412 W</td>
<td>Walnut Ridge 72476</td>
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<td>Mail</td>
</tr>
<tr>
<td>Rocky &amp; Deborah Sheets</td>
<td>1852 Hwy 412 E</td>
<td>Walnut Ridge 72476</td>
<td>self</td>
<td>Mail/Flyer</td>
</tr>
<tr>
<td>Terran Wheelis</td>
<td>16184 Hwy 412 W</td>
<td>Beech Grove 3412</td>
<td>self</td>
<td>Mail</td>
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<tr>
<td>Alex Beck</td>
<td>2507 Greene 336 Rd</td>
<td>Walnut Corner</td>
<td>self</td>
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56.  
57.  
58.  
59.  
60.  
Job CA1003
Hwy. 67 – Hwy. 141 (Widening) (Hwy. 412)
Lawrence and Greene Counties
Tuesday, April 28, 2015

An open-forum public involvement meeting for the proposed Hwy. 67 – Hwy. 141 (Widening) (Hwy. 412) was held at the Light Baptist Church (Fellowship Hall), 17125 Highway 412 in Light, Arkansas from 4:00 – 7:00 p.m. on April 28, 2015. A public officials meeting was held at 3:00 p.m. on the same day. Efforts to involve minorities and local property owners in the meeting included:

- Display ad placed in the Paragould Daily Press on April 12 and 26, 2015.
- Display ad placed in The Times Dispatch on April 15 and 22, 2015.
- Letters to public officials were mailed on April 17, 2015.
- Fliers to adjacent property owners were mailed April 20, 2015.
- Fliers to people who attended the April 2014 public meeting were mailed April 20, 2015.
- Fliers to local churches were mailed April 20, 2015.
- Meeting notice fliers were delivered door-to-door along project route April 21, 2015.
- A news release was distributed to the media on April 24, 2015.
- A meeting announcement was listed on ConnectingArkansasProgram.com and ArkansasHighways.com on April 20, 2015.

The following information was available for inspection and comment.

- One aerial photograph roll plot at a scale of 1" = 200', illustrating the entire length of the proposed project
- One aerial photograph roll plot at a scale of 1" = 100', illustrating the southern bypass alignment around Light
- Two 24" x 36" aerial photographs on mounted boards at a scale of 1" = 1250', illustrating the entire length of the proposed project
- Three CAP informational boards

Handouts for the public included a comment sheet and a small-scale map illustrating the project location, which was identical to the aerial photography display. Copies of these are attached to this synopsis.
Table 1 describes the results of public officials participation at the 2 p.m. meeting.

<table>
<thead>
<tr>
<th>Public Official Participation</th>
<th>Total</th>
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<tr>
<td>Attendance at meeting (including AHTD and CAP staff)</td>
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<tr>
<td>Comments received</td>
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Rusty McMillon, Greene County Judge, submitted a comment. He stated the project was long overdue and would provide economic benefits to the community.

Table 2 describes the results of public participation at the 4-7 p.m. meeting.

<table>
<thead>
<tr>
<th>Public Participation</th>
<th>Total</th>
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<tr>
<td>Attendance at meeting (including AHTD and CAP staff)</td>
<td>56</td>
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<tr>
<td>Comments received</td>
<td>18</td>
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Atkins reviewed all comments received and evaluated their contents. The summary of comments listed below reflects the personal perception or opinion of the person or organization making the statement. The sequencing of the comments is random and is not intended to reflect importance or numerical values. Some of the comments were combined and/or paraphrased to simplify the synopsis process.
An analysis of the responses received from the public survey is shown in Table 3.

<table>
<thead>
<tr>
<th>Survey Results</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supports improvements to Highway 412</td>
<td>11</td>
</tr>
<tr>
<td>Does not support improvements to Highway 412</td>
<td>6</td>
</tr>
<tr>
<td>Knowledge of historical, archeological or cemetery sites</td>
<td>0</td>
</tr>
<tr>
<td>Knowledge of area environmental constraints</td>
<td>0</td>
</tr>
<tr>
<td>Home or property offers limitations to the project that need to be considered during the design</td>
<td>7</td>
</tr>
<tr>
<td>Suggestions to better serve the needs of the community</td>
<td>7</td>
</tr>
<tr>
<td>Believes the project would have beneficial impacts</td>
<td>6</td>
</tr>
<tr>
<td>Believes the project would have adverse impacts</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total Comments Received</strong></td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>

The affected residents and landowners within the project area have signed a petition statement requesting AHTD to maintain the present Hwy 412 route rather than the proposed routings. The petition is estimated to have been signed by 16 individuals representing 25 of 66 tracts located between the southern bypass limits along the existing Highway 412.

<table>
<thead>
<tr>
<th>Petition</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petition statement</td>
<td>32</td>
</tr>
</tbody>
</table>
The following is a listing of comments concerning issues associated with this project.

- One comment stated concerns about drainage from Hwy 412.
- Six comments indicated concerns about access to farming properties during and after construction.
- Five comments requested to maintain the existing alignment of Hwy 412.
- Two comments suggested the northern alignment would be better in regards to access and school bus traffic.
- Two comments were concerned the proposed project would lower their property value.
- Two comments requested to use the southern alignment.
- Two comments suggested that the proposed project would have positive economic benefits.

**Attachments:**

- Blank comment form
- Public officials sign-in sheet
- 11x17 map handout
- Small-scale copy of the display board
- News Release
- Petition Statement
Blank Comment Form
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT (AHTD)

CITIZEN COMMENT FORM

AHTD JOB NUMBER CA1003
Hwy. 67-Hwy. 141 (Widening) (Hwy. 412)
LAWRENCE AND GREENE COUNTIES

LOCATION:
LIGHT BAPTIST CHURCH (FELLOWSHIP HALL)
17125 HIGHWAY 412, LIGHT
4:00 – 7:00 P.M.
TUESDAY, APRIL 28, 2015

Make your comments on this form and leave it with AHTD Connecting Arkansas Program personnel at the meeting or mail it within 15 days to: AHTD Connecting Arkansas Program, Attn: Jon Hetzel, 4701 Northshore Drive, North Little Rock, AR 72118. Email: Info@ConnectingArkansasProgram.com.

Yes  No

☐  ☐ Do you feel there is a need for the proposed widening of Hwy. 412 between Hwy. 67 and Hwy. 141?________________________

☐  ☐ Do you know of any historical sites, family cemeteries, or archaeological sites in the proposed area? Please note and discuss with staff.______________

☐  ☐ Do you know of any environmental constraints, such as endangered species, hazardous waste sites, existing or former landfills, or parks and public lands in the vicinity of the project? Please note and discuss with staff.________________________

☐  ☐ Does your home or property offer any limitations to the project, such as septic systems, that the Department needs to consider in its design?

________________________________________

(Continued on back)
Yes  No

Do you have a suggestion that would make this proposed project better serve the needs of the community? 

Do you feel that the proposed widening project will have any impacts ( Beneficial or  Adverse) on your property and/or community (e.g. economic, environmental, social, etc.)? Please explain. 

It is often necessary for the AHTD to contact property owners along potential routes. If you are a property owner along or adjacent to the route under consideration, please provide information below. Thank you.

Name: ___________________________________________________________(Please Print)

Address: __________________________ Phone: (_____) _________--________

________________________________

E-mail:_______________________________________________

Please make additional comments here._________________________________

For additional information, please visit our website at

www.ConnectingArkansasProgram.com
Public Meeting
Synopsis

Public Officials Sign-in Sheet
<table>
<thead>
<tr>
<th>Name</th>
<th>Street or P.O. Box</th>
<th>City, Zip</th>
<th>Representing: Organization or &quot;Self&quot;</th>
<th>How did you hear about this meeting? (Radio, Newspaper, Flyer, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jesse Hancock</td>
<td>16950 Hwy 419 W</td>
<td>Light 72479</td>
<td>Self</td>
<td></td>
</tr>
<tr>
<td>Rusty McMillion</td>
<td>320 W Court St</td>
<td>Paragould 72450</td>
<td>Greene County</td>
<td>Phone</td>
</tr>
<tr>
<td>Blake Johnson</td>
<td>YCRI147</td>
<td>Corning 72422</td>
<td>DST-20</td>
<td>Phone</td>
</tr>
<tr>
<td>Walter McMillen</td>
<td>PO Box 98</td>
<td>Paragould 72450</td>
<td>AHTD</td>
<td>Email</td>
</tr>
<tr>
<td>Tom Miles</td>
<td>984 CR 219 Rd.</td>
<td>Beech Bluffs</td>
<td>Self</td>
<td>Letter</td>
</tr>
<tr>
<td>Thelma Spragg</td>
<td>300 West Main St</td>
<td>Walnut Ridge</td>
<td>City</td>
<td>Email</td>
</tr>
<tr>
<td>Dale Ferebee</td>
<td>Hwy 214</td>
<td>Pine Bluff 72663</td>
<td>Co. Juba</td>
<td></td>
</tr>
<tr>
<td>Nip James Ratliff</td>
<td>PO Box 791</td>
<td>Pine Bluff 72663</td>
<td>AEP</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
11x17 Map Handout
CA1003 - Hwy 412: From Hwy 67 to Hwy 141
Lawrence and Greene Counties, Arkansas

Notes:

[Blank space for notes]

Preliminary
Subject to Revision

Photo Date: 2010, Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
Public Meeting
Synopsis

News Release
AHTD TO HOLD PUBLIC INVOLVEMENT MEETING

IN GREENE COUNTY

LITTLE ROCK (4-11) – The Arkansas State Highway and Transportation Department will hold a public involvement meeting in the community of Light to present and discuss proposed plans to widen Highway 412 between Highway 67 and Highway 141 in Lawrence and Greene counties. A bypass of the Light community will be considered along with other alternatives. This project is part of the department’s Connecting Arkansas Program.

The meeting will be held on Thursday, April 17 from 4:00 p.m. to 7:00 p.m., at the Light Baptist Church (Fellowship Hall). It is located at 17125 Highway 412 in Light.

The public is invited to visit any time during the scheduled hours to view displays, ask questions and offer comments. For more information, contact the Arkansas State Highway and Transportation Department’s Connecting Arkansas Program manager at 501-255-1519.

NOTICE OF NONDISCRIMINATION: The Arkansas State Highway and Transportation Department (AHTD) complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore, the Department does not discriminate on the basis of race, sex, color, age, national origin, religion or disability, in the admission, access to and treatment in the Department’s programs and activities, as well as the Department’s hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the Department’s nondiscrimination policies may be directed to Joanna P. McFadden Section Head- EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501) 569-2298, (Voice/TTY 711), or the following email address: Joanna.Mcfadden@arkansashighways.com.
Petition Statement
We the undersigned residents and affected land owners do hereby petition the Arkansas Highway Department to maintain the present Highway 412 Route rather than proposed routings:

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Smith</td>
<td>Hwy 168 W 1/2W Bailey</td>
<td>870-535-6735</td>
</tr>
<tr>
<td>Connie James</td>
<td>1082 Greene 335 Road, Walnut Ridge</td>
<td>476-535-6735</td>
</tr>
<tr>
<td>Joe Clark</td>
<td>1697 Hwy 91A, Walnut Ridge</td>
<td>870-335-6282</td>
</tr>
<tr>
<td>Shawn Finch</td>
<td>7 Victor Dr, Paragould</td>
<td>870-335-5-2-5-5</td>
</tr>
<tr>
<td>John Casey</td>
<td>14 Cypress Rd, Paragould</td>
<td>870-335-5-5-5-5</td>
</tr>
<tr>
<td>Steve Miller</td>
<td>16803 Hwy 412, Walnut Ridge</td>
<td>870-535-6414</td>
</tr>
<tr>
<td>Mayfield Brown</td>
<td>16898 Hwy 412, Walnut Ridge</td>
<td>870-536-8414</td>
</tr>
<tr>
<td>Joe Newton</td>
<td>2917 Greene 203 Rd, Beech Grove</td>
<td>72412 335-5-7-6-5</td>
</tr>
<tr>
<td>ChadDavis</td>
<td>1059 Greene 1003 Rd, Beech Grove</td>
<td>72412 335-5-7-6-5</td>
</tr>
<tr>
<td>Jerry E. Smith</td>
<td>905 Hwy 141 S, Paragould</td>
<td>72450 215-3085</td>
</tr>
<tr>
<td>Ked Schramm</td>
<td>1059 Greene 3137 Paragould</td>
<td>234-0149 724-5-0-5</td>
</tr>
<tr>
<td>Harold Finell</td>
<td>1694 Highway 168N, Paragould</td>
<td>873-0261 335-5-5-5</td>
</tr>
<tr>
<td>Jeff Tangs</td>
<td>4406 Jackson, Paragould</td>
<td>476-00</td>
</tr>
<tr>
<td>Harvey Shaw</td>
<td>1407 for 205 Rd, Beech Grove</td>
<td>513-565-5</td>
</tr>
<tr>
<td>Jason Hartman</td>
<td>16990 Hwy 412 W, Highgate</td>
<td>899-4880</td>
</tr>
<tr>
<td>Brandon Shaw</td>
<td>16860 Hwy 412 S, Highgate</td>
<td>870-335-6282</td>
</tr>
</tbody>
</table>
We the undersigned residents and affected land owners do hereby petition the Arkansas Highway Department to maintain the present Highway 412 Route rather than proposed routings:

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brad Gray</td>
<td>18038 Hwy 412 W</td>
<td>870-215-1733</td>
</tr>
<tr>
<td>Randal Gray</td>
<td>18202 Hwy 412 W</td>
<td>870-215-1732</td>
</tr>
<tr>
<td>Richard Sloan</td>
<td>16750 Hwy 412 W</td>
<td>870-897-8585</td>
</tr>
<tr>
<td>Cecilia Snr.</td>
<td>18202 Hwy 412 W</td>
<td>870-215-1734</td>
</tr>
<tr>
<td>Keith Lando</td>
<td>269 Greene 352 Rd</td>
<td>870-476-6648</td>
</tr>
<tr>
<td>Casey Gray</td>
<td>18202 Hwy 412 W</td>
<td>870-323-0673</td>
</tr>
<tr>
<td>Addy Gray</td>
<td>14026 Hwy 412 W</td>
<td>470-476-2434</td>
</tr>
<tr>
<td>Darla Sturkie</td>
<td>1115 Center Hill Rd, AR</td>
<td>870-239-4370</td>
</tr>
<tr>
<td>Kaylyn Sturkie</td>
<td>1115 Center Hill Rd, AR</td>
<td>870-239-4370</td>
</tr>
<tr>
<td>Chad Sturkie</td>
<td>4905 S. 27th St. Paragould, AR</td>
<td>870-219-4588</td>
</tr>
<tr>
<td>Lesley Bunch</td>
<td>5102 Scarlett O'Hara Lane Villa Ridge, MO</td>
<td>630-917 (630-917)</td>
</tr>
</tbody>
</table>
We the undersigned residents and affected land owners do hereby petition the Arkansas Highway Department to maintain the present Highway 412 Route rather than proposed routings:

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Pratt</td>
<td>16769 Hwy 412 W Box 5</td>
<td>870-726-1901</td>
</tr>
<tr>
<td>Betty Pratt</td>
<td>Same</td>
<td>870-215-1455</td>
</tr>
<tr>
<td>Jack Pratt</td>
<td>Same</td>
<td>870-215-2923</td>
</tr>
<tr>
<td>Jessica Davis</td>
<td>16360 Hwy 412 W Beach Home Dr</td>
<td>870-515-6813</td>
</tr>
<tr>
<td>Jamie Cole</td>
<td>4218 Reynolds Park Paragould</td>
<td>970-215-2</td>
</tr>
</tbody>
</table>
### AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

**AHTD Job Number** CA1003  **FAP Number** 9991

**Job Title** Hwy. 67-Hwy. 141 (Widening) (S)

<table>
<thead>
<tr>
<th>Environmental Impacts</th>
<th>None</th>
<th>Minor</th>
<th>Significant</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Impacts</td>
<td></td>
<td>X</td>
<td></td>
<td>Temporary minor impacts</td>
</tr>
<tr>
<td>Cultural Resources</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economic</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Endangered Species</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Resources</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Justice/Title VI</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish and Wildlife</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floodplains</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forest Service Property</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Materials/Landfills</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land Use Impacts</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Migratory Birds</td>
<td>X</td>
<td></td>
<td></td>
<td>Include in Special Provisions</td>
</tr>
<tr>
<td>Navigation/Coast Guard</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise Levels</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prime Farmland</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected Waters</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Recreation Lands</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Water Supply/WHPA</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relocatees</td>
<td>X</td>
<td></td>
<td></td>
<td>One residential structure and two personal property structures (one barn and one grain bin) would require relocation.</td>
</tr>
<tr>
<td>Section 4(f)/6(f)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Underground Storage Tanks</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visual Impacts</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stream Impacts</td>
<td>X</td>
<td></td>
<td></td>
<td>1,513 linear feet</td>
</tr>
<tr>
<td>Water Quality</td>
<td>X</td>
<td></td>
<td></td>
<td>Temporary minor impacts during construction</td>
</tr>
<tr>
<td>Wetlands</td>
<td>X</td>
<td></td>
<td></td>
<td>1.12 acres of wetlands</td>
</tr>
<tr>
<td>Wildlife Refuges</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

Section 401 Water Quality Certification Required?  No
Short-term Activity Authorization Required?  Yes
Section 404 Permit Required?  Yes    Type NWP 14

Remarks: Mitigation will be calculated prior to the 404 permit application and mitigated through the Glaise Creek Mitigation Bank.

Signature of Evaluator  Susan Patterson, Atkins  Date  01/28/16
DESIGN INFORMATION

Job Number CA1003  FAP Number 9991  County Lawrence/Greene
Job Name Hwy 412: Hwy. 67 – Hwy. 141 (Widening) (S)
Design Engineer Glynn Fulmer
Brief Project Description Widening of existing 2-lane roadway to 4-lane plus flush paved median

EXISTING CONDITIONS:
Roadway Width: 24’ – 59’ Shoulder Width: 0’ – 8’
Number of Lanes and Width: 2 @ 11.5’
Average Existing ROW Width 125’

PROPOSED CONDITIONS:
Roadway Width: 75’ Shoulder Width: 8’
Number of Lanes and Width: 4 @ 12’
Average Proposed ROW Width 190’

CONSTRUCTION INFORMATION:
If detour: Where N/A Length N/A

DESIGN DATA:
2017 ADT 5,600 2037 ADT 7,400 %Trucks 15 Design Speed 60 mph
Approximate total length of project: 14.4 mile(s)
Justification for improvements: Increase mobility and safety, replace failing bridges
BRIDGE DESIGN INFORMATION

Job Number    CA1003  FAP Number     9991   County    Lawrence

Job Name   CA1003 Hwy. 67-Hwy. 141 (Widening) (S)

Design Engineer    Scott Dubord, P.E.

Description of Existing Bridge:
Bridge Number    1889   over    Fry Ditch
Bridge Location: Rte:   412    Section:   Log Mile: 3.07
Type Construction:   one span concrete deck with steel beams and concrete piles

Deficiencies
HBRRP Eligibility:   Qualifying Code:   Sufficiency Rating: 28.9

Proposed Improvements:
Length:    40 ft     Br. Rdwy. Width:       75 ft.   Deck Width (Out-to-out)   121 ft
Travel Lanes:     4   Shoulder Width:     8
Sidewalks:    no   Location:    N/A   Width:    N/A

Construction Information
Location in relation to existing bridge:   same location
Superstructure Type:   RC Box Culvert
Span Lengths:   triple 12’ x 12’ x 121’
Substructure Type:   RC Box Culvert
Ordinary High Water Elev.    257.17    No. of Bents inside OHW Contours:      0
Concrete Volume below OHW:    197.60 yd³   Vol. Bent Excavation:    0 yd³
Is backfill req’d?    yes
Is Channel excavation req’d?    yes   Surface Area:    4657.65 ft²   Volume:    706.10 yd³
Is fill below OHW req’d?    yes   Surface Area:    4657.65 ft²   Volume:    345.01 yd³
Is riprap req’d?    no

Work Road Information:
Is work road(s) required?    no   Location:   Top width:    ft
Is fill below OHW req’d?   Surface Area:    ft²   Volume yd³
Are pipes required to meet backwater criteria?

Detour Information:
Is a detour bridge required?    no   Location in relation to existing bridge:
Length:    ft   Br. Rdwy. Width:    ft   Deck Elevation:
Volume of fill below OHW:    yd³   Surface area:    ft²
BRIDGE DESIGN INFORMATION

Job Number  CA1003  FAP Number     9991  County   Lawrence

Job Name  CA1003 Hwy. 67-Hwy. 141 (Widening) (S)  

Design Engineer  Scott Dubord, P.E.

Description of Existing Bridge:
Bridge Number  1890  over  Kellow Ditch
Bridge Location:  Rte:  412  Section:  Log Mile:  4.60
Type Construction:  one span concrete deck with steel beams and concrete piles

Deficiencies
HBRRP Eligibility:  ______ Qualifying Code:  ______ Sufficiency Rating:  48.1

Proposed Improvements:
Length:  33'-5"  Br. Rdwy. Width:  75 ft.  Deck Width (Out-to-out)  122 ft
Travel Lanes:  4  Shoulder Width:  8
Sidewalks:  no  Location:  N/A  Width:  N/A

Construction Information
Location in relation to existing bridge:  same location
Superstructure Type:  RC Box Culvert
Span Lengths:  triple 10' x 10' x 122'
Substructure Type:  RC Box Culvert
Ordinary High Water Elev.  259.11  No. of Bents inside OHW Contours:  0
Concrete Volume below OHW:  169.30 yd³  Vol. Bent Excavation:  0 yd³

Is backfill req’d?  yes
Is Channel excavation req’d?  yes  Surface Area:  3817.44 ft²  Volume:  700.43 yd³
Is fill below OHW req’d?  yes  Surface Area:  3817.44 ft²  Volume: 282.77 yd³
Is riprap req’d?  no

Work Road Information:
Is work road(s) required?  no  Location:  Top width:  ft
Is fill below OHW req’d?  Surface Area:  ft²  Volume yd³
Are pipes required to meet backwater criteria?

Detour Information:
Is a detour bridge required?  no  Location in relation to existing bridge:
Length:  ft  Br. Rdwy. Width:  ft  Deck Elevation:
Volume of fill below OHW:  yd³  Surface area:  ft²
BRIDGE DESIGN INFORMATION

Job Number  CA1003  FAP Number  9991  County  Lawrence

Job Name  CA1003 Hwy. 67-Hwy. 141 (Widening) (S)

Design Engineer  Scott Dubord, P.E.

Description of Existing Bridge:
Bridge Number  1891  over  Float Road Slough
Bridge Location:  Rte:  412  Section:  Log Mile:  6.41
Type Construction:  4 span concrete deck with steel beams and concrete piles

Deficiencies
HBRRP Eligibility:  Qualifying Code:  Sufficiency Rating:  63.4

Proposed Improvements:
Length:  46'-6"  Br. Rdwy. Width:  75  ft.  Deck Width (Out-to-out)  123  ft
Travel Lanes:  4  Shoulder Width:  8
Sidewalks:  no  Location:  N/A  Width:  N/A

Construction Information
Location in relation to existing bridge:  same location
Superstructure Type:  RC Box Culvert
Span Lengths:  quad. 10' x 10' x 123'
Substructure Type:  RC Box Culvert
Ordinary High Water Elev.  251.54  No. of Bents inside OHW Contours:  0
Concrete Volume below OHW:  217.11  yd³  Vol. Bent Excavation:  0  yd³
Is backfill req’d?  yes
Is Channel excavation req’d?  yes  Surface Area:  3826.13  ft²  Volume:  457.59  yd³
Is fill below OHW req’d?  yes  Surface Area:  3826.13  ft²  Volume:  283.41  yd³
Is riprap req’d?  no

Work Road Information:
Is work road(s) required?  no  Location:  Top width:  ft
Is fill below OHW req’d?  Surface Area:  ft²  Volume yd³
Are pipes required to meet backwater criteria?

Detour Information:
Is a detour bridge required?  no  Location in relation to existing bridge:
Length:  ft  Br. Rdwy. Width:  ft  Deck Elevation:
Volume of fill below OHW:  yd³  Surface area:  ft²
BRIDGE DESIGN INFORMATION

Job Number CA1003 FAP Number 9991 County Lawrence
Job Name CA1003 Hwy. 67-Hwy. 141 (Widening) (S)
Design Engineer Scott Dubord, P.E.

Description of Existing Bridge:
Bridge Number 1909 over N.H. Slough
Bridge Location: Rte: 412 Section: Log Mile: 1.34
Type Construction: one span concrete deck with steel beams and concrete piles

Deficiencies
HBRRP Eligibility: Qualifying Code: Sufficiency Rating: 40.7

Proposed Improvements:
Length: 26'-9" Br. Rdwy. Width: 75 ft. Deck Width (Out-to-out) 126 ft
Travel Lanes: 4 Shoulder Width: 8
Sidewalks: no Location: N/A Width: N/A

Construction Information
Location in relation to existing bridge: same location
Superstructure Type: RC Box Culvert
Span Lengths: triple 8 x 7 x 126
Substructure Type: RC Box Culvert
Ordinary High Water Elev. 256.03 No. of Bents inside OHW Contours: 0
Concrete Volume below OHW: 44.12 yd³ Vol. Bent Excavation: 0 yd³
Is backfill req’d? yes
Is Channel excavation req’d? yes Surface Area: 785.00 ft² Volume: 144.50 yd³
Is fill below OHW req’d? yes Surface Area: 785.00 ft² Volume: 58.14 yd³
Is riprap req’d? no

Work Road Information:
Is work road(s) required? no Location: Top width: ft
Is fill below OHW req’d? Surface Area: ft² Volume yd³
Are pipes required to meet backwater criteria?

Detour Information:
Is a detour bridge required? no Location in relation to existing bridge:
Length: ft Br. Rdwy. Width: ft Deck Elevation:
Volume of fill below OHW: yd³ Surface area: ft²
Job Number _CA1003_ FAP Number _9991_ County _Greene_ 

Job Name _CA1003 Hwy. 67-Hwy. 141 (Widening) (S)_. 

Design Engineer _Scott Dubord, P.E._ 

**Description of Existing Bridge:** 
Bridge Number _1913_ over _Lateral Ditch No. 3_ 
Bridge Location: Rte: _412_ Section: _ _ Log Mile: _2.58_ 

Type Construction: _3 span concrete deck with RCD girder spans and concrete piles_ 

Deficiencies 
HBRRP Eligibility: _______ Qualifying Code: _______ Sufficiency Rating: _79.6_ 

**Proposed Improvements:** 
Travel Lanes: _4_ Shoulder Width: _8_ 
Sidewalks: _no_ Location: _N/A_ Width: _N/A_ 

**Construction Information** 
Location in relation to existing bridge: _same location_ 
Superstructure Type: _RC Box Culvert_ 
Span Lengths: _triple 12' x 8' x 210'_ 
Substructure Type: _RC Box Culvert_ 
Ordinary High Water Elev. _257.03_ No. of Bents inside OHW Contours: _0_ 
Concrete Volume below OHW: _359.84_ yd³ Vol. Bent Excavation: _0_ yd³ 
Is backfill req’d? _yes_ 
Is Channel excavation req’d? _yes_ Surface Area: _5214.00_ ft² Volume: _827.75_ yd³ 
Is fill below OHW req’d? _yes_ Surface Area: _5214.00_ ft² Volume: _386.22_ yd³ 
Is riprap req’d? _no_ 

**Work Road Information:** 
Is work road(s) required? _no_ Location: _ _ Top width: _ft_ 
Is fill below OHW req’d? Surface Area: _ft²_ Volume _yd³_ 
Are pipes required to meet backwater criteria? 

**Detour Information:** 
Is a detour bridge required? _no_ Location in relation to existing bridge: 
Volume of fill below OHW: _yd³_ Surface area: _ft²_
BRIDGE DESIGN INFORMATION

Job Number CA1003 FAP Number 9991 County Greene

Job Name CA1003 Hwy. 67-Hwy. 141 (Widening) (S)

Design Engineer Scott Dubord, P.E.

Description of Existing Bridge:
Bridge Number 1916 over Caney Slough
Bridge Location: Rte: 412 Section: Log Mile: 6.99
Type Construction: 3 span concrete deck with RCD girder spans and concrete piles
Deficiencies
HBRRP Eligibility: Qualifying Code: Sufficiency Rating: 65.5

Proposed Improvements:
Length: _51'-10"_ Br. Rdwy. Width: _75_ ft. Deck Width (Out-to-out) _140_ ft
Travel Lanes: _4_ Shoulder Width: _8_
Sidewalks: _no_ Location: _N/A_ Width: _N/A_

Construction Information
Location in relation to existing bridge: same location
Superstructure Type: RC Box Culvert
Span Lengths: quad. 12’ x 12’ x 140’
Substructure Type: RC Box Culvert
Ordinary High Water Elev. _261.39_ No. of Bents inside OHW Contours: _0_
Concrete Volume below OHW: _203.55_ yd³ Vol. Bent Excavation: _0_ yd³
Is backfill req’d? _yes_
Is Channel excavation req’d? _yes_ Surface Area: _3551.70_ ft² Volume: _455.85_ yd³
Is fill below OHW req’d? _yes_ Surface Area: _3551.70_ ft² Volume: _263.08_ yd³
Is riprap req’d? _no_

Work Road Information:
Is work road(s) required? _no_ Location: Top width: ft
Is fill below OHW req’d? Surface Area: ft² Volume yd³
Are pipes required to meet backwater criteria?

Detour Information:
Is a detour bridge required? _no_ Location in relation to existing bridge:
Length: ft Br. Rdwy. Width: ft Deck Elevation:
Volume of fill below OHW: yd³ Surface area: ft²
BRIDGE DESIGN INFORMATION

Job Number CA1003  FAP Number 9991  County Greene

Job Name CA1003 Hwy. 67-Hwy. 141 (Widening) (S)

Design Engineer Scott Dubord, P.E.

Description of Existing Bridge:
Bridge Number 1974 over Overcup Slough
Bridge Location: Rte: 412 Section: Log Mile: 5.28
Type Construction: 2 span concrete deck with RCD girder spans and concrete piles
Deficiencies
HBRRP Eligibility: _______ Qualifying Code: _______ Sufficiency Rating: 79.2

Proposed Improvements:
Length: 35'1" Br. Rdwy. Width: 75 ft. Deck Width (Out-to-out) 148 ft
Travel Lanes: 4 Shoulder Width: 8
Sidewalks: no Location: N/A Width: N/A

Construction Information
Location in relation to existing bridge: 400' Down stream, Sta. 694+25
Superstructure Type: RC Box Culvert
Span Lengths: quad. 8' x 6' x 148'
Substructure Type: RC Box Culvert
Ordinary High Water Elev. 260.64 No. of Bents inside OHW Contours: 0
Concrete Volume below OHW: 0 yd³  Vol. Bent Excavation: 0 yd³
Is backfill req’d? no
Is Channel excavation req’d? no Surface Area: _______ ft²  Volume: _______ yd³
Is fill below OHW req’d? no Surface Area: _______ ft²  Volume: _______ yd³
Is riprap req’d? no

Work Road Information:
Is work road(s) required? yes Location: 700' ditch Top width: ft
Is fill below OHW req’d? yes Surface Area: 15791.40 ft²  563.65 Volume yd³
Are pipes required to meet backwater criteria?

Detour Information:
Is a detour bridge required? no Location in relation to existing bridge:
Length: ft Br. Rdwy. Width: ft Deck Elevation:
Volume of fill below OHW: yd³ Surface area: ft²
### BRIDGE DESIGN INFORMATION

Job Number: CA1003    FAP Number: 9991     County: Greene

Job Name: CA1003 Hwy. 67-Hwy. 141 (Widening) (S)

Design Engineer: Scott Dubord, P.E.

**Description of Existing Bridge:**

- **Bridge Number:** M0620  over  Unknown Slough
- **Bridge Location:** Rte: 412  Section:  Log Mile: 7.45
- **Length:** 71.0 ft.  Br. Rdwy. width: 24.0 ft.  Deck width (Out-to-Out) 24.45 ft.
- **Type Construction:** 3 span concrete deck with RCD girder spans and concrete piles
- **Deficiencies:**
  - HBRRP Eligibility: Qualifying Code:  Sufficiency Rating: 73.3

**Proposed Improvements:**

- **Length:** 43'-6"  Br. Rdwy. Width: 75 ft.  Deck Width (Out-to-out) 163 ft
- **Travel Lanes:** 4
- **Shoulder Width:** 8
- **Sidewalks:** no  Location: N/A  Width: N/A

**Construction Information**

- **Location in relation to existing bridge:** same location
- **Superstructure Type:** RC Box Culvert
- **Span Lengths:** quad. 10’ x 10’ x 163’
- **Substructure Type:** RC Box Culvert
- **Ordinary High Water Elev:** 257.54
- **No. of Bents inside OHW Contours:** 0
- **Concrete Volume below OHW:** 167.26 yd³
- **Vol. Bent Excavation:** 0 yd³
- **Is backfill req’d?** yes
- **Is Channel excavation req’d?** yes  Surface Area: 3392.38 ft²  Volume: 525.19 yd³
- **Is fill below OHW req’d?** yes  Surface Area: 3392.38 ft²  Volume: 251.28 yd³
- **Is riprap req’d?** no

**Work Road Information**

- **Is work road(s) required?** no  Location:  Top width: ft
- **Is fill below OHW req’d?** Surface Area: ft²  Volume yd³
- **Are pipes required to meet backwater criteria?**

**Detour Information**

- **Is a detour bridge required?** no  Location in relation to existing bridge:
- **Length:**  ft  Br. Rdwy. Width:  ft  Deck Elevation:
- **Volume of fill below OHW:** yd³  Surface area: ft²
**BRIDGE DESIGN INFORMATION**

### Description of Existing Bridge:

- **Bridge Number**: N/A
- **Location**: over Unknown Canal
- **Log Mile**: xxxx
- **Length**: ft.
- **Br. Rdwy. width**: ft.
- **Deck width (Out-to-Out)**: ft.

### Proposed Improvements:

- **Length**: 23'-4"
- **Br. Rdwy. Width**: 75 ft.
- **Deck Width (Out-to-out)**: 128 ft
- **Travel Lanes**: 4
- **Shoulder Width**: 8
- **Sidewalks**: no

### Construction Information

- **Location in relation to existing bridge**: N/A
- **Superstructure Type**: RC Box Culvert, Sta. 605+29
- **Span Lengths**: triple 7' x 4' x 128'
- **Substructure Type**: RC Box Culvert
- **Ordinary High Water Elev.**: 259.06
- **No. of Bents inside OHW Contours**: 0
- **Concrete Volume below OHW**: 129.67 yd$^3$
- **Vol. Bent Excavation**: 0 yd$^3$
- **Is backfill req’d?**: yes
- **Is Channel excavation req’d?**: yes
- **Surface Area**: 8978.47 ft$^2$
- **Volume**: 730.98 yd$^3$
- **Is fill below OHW req’d?**: yes
- **Surface Area**: 4364 ft$^2$
- **Volume**: 323.25 yd$^3$
- **Is riprap req’d?**: no

### Work Road Information:

- **Is work road(s) required?**: no
- **Location**: 
- **Top width**: ft
- **Surface Area**: ft$^2$
- **Volume**: yd$^3$

### Detour Information:

- **Is a detour bridge required?**: no
- **Location in relation to existing bridge**: 
- **Length**: ft
- **Br. Rdwy. Width**: ft
- **Deck Elevation**: 
- **Volume of fill below OHW**: yd$^3$
- **Surface area**: ft$^2$
BRIDGE DESIGN INFORMATION

Job Number: CA1003  FAP Number: 9991  County: Lawrence

Job Name: CA1003 Hwy. 67-Hwy. 141 (Widening) (S)

Design Engineer: Scott Dubord, P.E.

Description of Existing Bridge:
Bridge Number: N/A  over: Unknown Ditch
Bridge Location: Rte: 412  Section:  Log Mile: 7.42

Type Construction: Existing triple 8’x4’x108’ RCBC

Deficiencies
HBRRP Eligibility: __________ Qualifying Code: __________ Sufficiency Rating: __________

Proposed Improvements:
Length: _______ Rdwy. Width: _______ ft.  Deck Width (Out-to-out) _______ ft
Travel Lanes: 4  Shoulder Width: _______ ft.
Sidewalks: no  Location: N/A  Width: N/A

Construction Information
Location in relation to existing bridge: N/A
Superstructure Type: Extend existing triple 8’x4’x124’ RCBC, Sta. 393+35
Span Lengths: 124’
Substructure Type: Reinforced Concrete Box Culvert
Ordinary High Water Elev. 256.00  No. of Bents inside OHW Contours: 0
Concrete Volume below OHW: 6.80 yd³  Vol. Bent Excavation: 0 yd³
Is backfill req’d? no
Is Channel excavation req’d? yes  Surface Area: 27188.82 ft²  Volume: 94.00 yd³
Is fill below OHW req’d? yes  Surface Area: 854.82 ft²  Volume: 63.32 yd³
Is riprap req’d? no

Work Road Information:
Is work road(s) required? no  Location: Top width: ft
Is fill below OHW req’d?  Surface Area: ft²  Volume yd³
Are pipes required to meet backwater criteria?

Detour Information:
Is a detour bridge required? no  Location in relation to existing bridge:
Length: ft  Br. Rdwy. Width: ft  Deck Elevation:
Volume of fill below OHW: yd³  Surface area: ft²
January 18, 2018

Regulatory Division

LETTER OF PERMISSION NO. MVM 2016-00335

Mr. John Fleming
Division Head, Environmental Division
Arkansas Department of Transportation
P.O. Box 2261
Little Rock, Arkansas  72203

Dear Mr. Fleming:

Under provisions of Section 404 of the Clean Water Act and in accordance with the enclosed conditions, maps and drawings, Sheets 1 through 14, dated January 2018, you are hereby given authorization for the discharge of approximately 10,000 cubic yards of permanent fill into waters of the United States associated with upgrading U.S. Highway 412. The project includes upgrading a 14.4-mile-long segment of highway between Walnut Ridge and Paragould. Approximately 12.0 miles will be on existing alignment and 2.4 miles will be on new location to avoid the Community of Light. Proposed improvements include constructing four 12-foot-wide travel lanes with 8-foot-wide shoulders and an 11-foot-wide painted median. The existing structures over Fry Ditch, Kellow Ditch, Lateral Ditch No. 3, Flat Road Slough, Head Slough, Caney Slough, Overcup Slough and four unnamed streams will be replaced with concrete box culverts or the box culverts will be extended. Widening the roadway embankment will occur on both, the north and south sides of existing U.S. Highway 412. The project will impact a total of 2,095 linear feet of stream and 1.21 acres of wetlands. The project will require the acquisition of approximately 144 acres of additional right-of-way and relocate one residence. The project will impact corkwood (Leitneria floridana), a state plant of conservation concern, within the wetland in Section 30, T. 17 N., R. 4 E. There is also a state rare sedge, opaque prairie sedge (Carex opaca), that has been recorded from the roadside in Section 36, T. 17 N., R. 1 E. Mitigation will be accomplished with credits from the Glaise Creek Mitigation Bank located near Worden. The project is located in section 36, T. 17 N., R. 1 E., in sections 31, 32, 33, 34, 35 and 36, T. 17 N., R. 2 E., in sections 31, 32, 33, 34, 35 and 36, T. 17 N., R. 3 E., and in sections 31 and 32, T. 17 N., R. 4 E., Lawrence and Greene Counties, Arkansas.

This Department of the Army (DA) Letter of Permission (LOP) is issued in accordance with the procedure developed for highway projects in Arkansas, dated February 2, 2001 (LOP ID No. 09417).
The work authorized by this LOP shall comply with the enclosed General and Special Conditions and drawings. It is your responsibility and extremely important that you understand and comply with all of the conditions and special provisions of the LOP and that you make any of your employees or contractors involved in this operation continuously aware of the LOP conditions and provisions. Please pay particular attention to Special Conditions 1-20 which include specific requirements pertaining to, but not limited to, erosion control measures, guidelines for temporary fills, and compensatory mitigation. You also should be aware that the proposed work should be completed by the date authorized on the enclosed LOP conditions, General Condition No. 1.

If changes are proposed in the design or location of the project, you are required by law to submit revised plans to this office for approval before construction of the change begins. The authorization of this work by a DA LOP does not relieve you of complying with other applicable local, state, and Federal laws.

This letter contains an initial proffered permit for your project. If you object to the permit decision, you may request an administrative appeal under Corps regulations at 33 Code of Federal Regulations (CFR) Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this permit decision, you must submit a completed RFA form to the Southwestern Division Office at the address on the enclosed appeal form.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP.

It is not necessary to submit an RFA form to the Division Office if you do not object to the permit decision.

Your cooperation in the Regulatory Program is appreciated. If you have any questions concerning this LOP, please call Mr. Johnny McLean at (501) 324-5296 and refer to Action ID No. MVM 2016-00335, U.S. Highway 412 widening between Walnut Ridge and Paragould (ArDOT Job No. CA1003).
This permit is issued pursuant to the direction from Colonel Robert G. Dixon, District Engineer.

Sincerely,

Sarah Chitwood
Chief, Regulatory Evaluation Branch

Enclosures

Copy Furnished:
ADEQ, Lazendra Hairston, w/cy enclosures
Memphis District, Roger Allan w/cy enclosures
USF&WS, Lindsey Lewis w/cy enclosures
### Table 1
Wetlands Identified Within the Survey Corridor of the Highway 412 Widening Project
Lawrence and Greene Counties, Arkansas

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Classification&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Acres in Proposed ROW&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Acres within Construction Limits (Permanent Impacts)</th>
<th>Likely Jurisdictional</th>
<th>Quadrangle Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>WET 1</td>
<td>PFO1</td>
<td>0.22</td>
<td>0.16</td>
<td>Yes</td>
<td>Walnut Ridge SE</td>
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<td>WET 2</td>
<td>PFO1</td>
<td>0.10</td>
<td>0.07</td>
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<td>WET 3</td>
<td>PFO1</td>
<td>0.67</td>
<td>0.40</td>
<td>Yes</td>
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<td>WET 4</td>
<td>PFO1</td>
<td>0.34</td>
<td>0.14</td>
<td>Yes</td>
<td>Walnut Ridge SE/ Walcott</td>
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<tr>
<td>WET 5a</td>
<td>PEM</td>
<td>0.19</td>
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<td>Yes</td>
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<tr>
<td>WET 5b</td>
<td>PSS1</td>
<td>0.32</td>
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<td>WET 6</td>
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<td>0.33</td>
<td>0.00</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>PEM (1)</strong></td>
<td><strong>0.19</strong></td>
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<td><strong>PSS1 (1)</strong></td>
<td><strong>0.32</strong></td>
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<td><strong>PFO1 (5)</strong></td>
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<td><strong>Total (7)</strong></td>
<td><strong>2.17</strong></td>
<td><strong>1.21</strong></td>
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</tr>
</tbody>
</table>

<sup>1</sup> Atkins field classifications are based upon Cowardin et al. (1979): PEM = Palustrine emergent; PSS1 = Palustrine scrub-shrub broad-leaved deciduous; and PFO1 = Palustrine forested broad-leaved deciduous.

<sup>2</sup> Acreage of feature within proposed right-of-way.

### Table 2
Ponds Identified Within the Survey Corridor of the Highway 412 Widening Project
Lawrence and Greene Counties, Arkansas

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Classification&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Acres in Proposed ROW</th>
<th>Acres within Construction Limits (Permanent Impacts)</th>
<th>Likely Jurisdictional</th>
<th>Quadrangle Name</th>
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</thead>
<tbody>
<tr>
<td>POND 1</td>
<td>PUB</td>
<td>0.22</td>
<td>0.21</td>
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<td>Walnut Ridge SE</td>
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<td>POND 2</td>
<td>PUB</td>
<td>1.85</td>
<td>0.21</td>
<td>No</td>
<td>Walcott</td>
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<td><strong>TOTAL</strong></td>
<td><strong>PUB (2)</strong></td>
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<td><strong>0.42</strong></td>
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### Table 3
**Jurisdictional Streams Identified Within the Survey Corridor of the Highway 412 Widening Project**  
**Lawrence and Greene Counties, Arkansas**

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Stream Name</th>
<th>Class</th>
<th>Length Within Construction Limits (feet)</th>
<th>Linear Feet Permanently Impacted</th>
<th>Quadrangle Name</th>
<th>OHWM Width/Depth (feet)</th>
<th>OHWM Elevation (mean sea level)</th>
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<tbody>
<tr>
<td>S1</td>
<td>Fry Ditch</td>
<td>Intermittent</td>
<td>220.54</td>
<td>152.68</td>
<td>Walnut Ridge</td>
<td>10/1</td>
<td>257.17</td>
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<td>S2</td>
<td>Kellow Ditch</td>
<td>Intermittent</td>
<td>212.13</td>
<td>148.24</td>
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<td>13/2</td>
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<td>S3</td>
<td>Float Road Ditch</td>
<td>Intermittent</td>
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<td>Negro Head</td>
<td>Intermittent</td>
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<td>Lateral No. 3</td>
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<td>S8</td>
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<td>No. 26 Ditch</td>
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<td>257.54</td>
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<td>Caney Slough</td>
<td>Intermittent</td>
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<td>175.30</td>
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<td><strong>4,283.82</strong></td>
<td><strong>2,094.74</strong></td>
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</tbody>
</table>

1 No new construction is shown in the plan for those features with no impacts.
CONDITIONS FOR LETTER OF PERMISSION NO. MVM 2016-00335

Project Location: The project is located on U.S. Highway 412 between Walnut Ridge and Paragould in section 36, T. 17 N., R. 1 E., in sections 31, 32, 33, 34, 35 and 36, T. 17 N., R. 2 E., in sections 31, 32, 33, 34, 35 and 36, T. 17 N., R. 3 E., and in sections 31 and 32, T. 17 N., R. 4 E., Lawrence and Greene Counties, Arkansas.

LOP Conditions:

General Conditions:

1. The time limit for completing the issuance of the work authorized under this LOP is December 31, 2021. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

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   b. Minimize the potential for toxic spills and leaching into wetlands and other waters.

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if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

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1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

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   a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

   b. This permit does not grant any property rights or exclusive privileges.
c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:

   a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

   b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

   c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

   d. Design or construction deficiencies associated with the permitted work.

   e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

   a. You fail to comply with the terms and conditions of this permit.

   b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

   c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 Code of Federal Regulations (CFR) 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this
office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.
January 18, 2018

Regulatory Division

LETTER OF PERMISSION NO. MVM 2016-00335

Mr. John Fleming
Division Head, Environmental Division
Arkansas Department of Transportation
P.O. Box 2261
Little Rock, Arkansas 72203

Dear Mr. Fleming:

Under provisions of Section 404 of the Clean Water Act and in accordance with the enclosed conditions, maps and drawings, Sheets 1 through 14, dated January 2018, you are hereby given authorization for the discharge of approximately 10,000 cubic yards of permanent fill into waters of the United States associated with upgrading U.S. Highway 412. The project includes upgrading a 14.4-mile-long segment of highway between Walnut Ridge and Paragould. Approximately 12.0 miles will be on existing alignment and 2.4 miles will be on new location to avoid the Community of Light. Proposed improvements include constructing four 12-foot-wide travel lanes with 8-foot-wide shoulders and an 11-foot-wide painted median. The existing structures over Fry Ditch, Kellow Ditch, Lateral Ditch No. 3, Flat Road Slough, Head Slough, Caney Slough, Overcup Slough and four unnamed streams will be replaced with concrete box culverts or the box culverts will be extended. Widening the roadway embankment will occur on both, the north and south sides of existing U.S. Highway 412. The project will impact a total of 2,095 linear feet of stream and 1.21 acres of wetlands. The project will require the acquisition of approximately 144 acres of additional right-of-way and relocate one residence. The project will impact corkwood (*Leitneria floridana*), a state plant of conservation concern, within the wetland in Section 30, T. 17 N., R. 4 E. There is also a state rare sedge, opaque prairie sedge (*Carex opaca*), that has been recorded from the roadside in Section 36, T. 17 N., R. 1 E. Mitigation will be accomplished with credits from the Glaise Creek Mitigation Bank located near Worden. The project is located in section 36, T. 17 N., R. 1 E., in sections 31, 32, 33, 34, 35 and 36, T. 17 N., R. 2 E., in sections 31, 32, 33, 34, 35 and 36, T. 17 N., R. 3 E., and in sections 31 and 32, T. 17 N., R. 4 E., Lawrence and Greene Counties, Arkansas.

This Department of the Army (DA) Letter of Permission (LOP) is issued in accordance with the procedure developed for highway projects in Arkansas, dated February 2, 2001 (LOP ID No. 09417).
The work authorized by this LOP shall comply with the enclosed General and Special Conditions and drawings. It is your responsibility and extremely important that you understand and comply with all of the conditions and special provisions of the LOP and that you make any of your employees or contractors involved in this operation continuously aware of the LOP conditions and provisions. **Please pay particular attention to Special Conditions 1-20 which include specific requirements pertaining to, but not limited to, erosion control measures, guidelines for temporary fills, and compensatory mitigation.** You also should be aware that the proposed work should be completed by the date authorized on the enclosed LOP conditions, General Condition No. 1.

If changes are proposed in the design or location of the project, you are required by law to submit revised plans to this office for approval before construction of the change begins. The authorization of this work by a DA LOP does not relieve you of complying with other applicable local, state, and Federal laws.

This letter contains an initial proffered permit for your project. If you object to the permit decision, you may request an administrative appeal under Corps regulations at 33 Code of Federal Regulations (CFR) Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this permit decision, you must submit a completed RFA form to the Southwestern Division Office at the address on the enclosed appeal form.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP.

It is not necessary to submit an RFA form to the Division Office if you do not object to the permit decision.

Your cooperation in the Regulatory Program is appreciated. If you have any questions concerning this LOP, please call Mr. Johnny McLean at (501) 324-5296 and refer to Action ID No. MVM 2016-00335, U.S. Highway 412 widening between Walnut Ridge and Paragould (ArDOT Job No. CA1003).
This permit is issued pursuant to the direction from Colonel Robert G. Dixon, District Engineer.

Sincerely,

Sarah Chitwood
Chief, Regulatory Evaluation Branch

Enclosures

Copy Furnished:
ADEQ, Lazendra Hairston, w/cy enclosures
Memphis District, Roger Allan w/cy enclosures
USF&WS, Lindsey Lewis w/cy enclosures
### Table 1
**Wetlands Identified Within the Survey Corridor of the Highway 412 Widening Project**
**Lawrence and Greene Counties, Arkansas**

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Classification</th>
<th>Acres in Proposed ROW(^2)</th>
<th>Acres within Construction Limits (Permanent Impacts)</th>
<th>Likely Jurisdictional</th>
<th>Quadrangle Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>WET 1</td>
<td>PFO1</td>
<td>0.22</td>
<td>0.16</td>
<td>Yes</td>
<td>Walnut Ridge SE</td>
</tr>
<tr>
<td>WET 2</td>
<td>PFO1</td>
<td>0.10</td>
<td>0.07</td>
<td>Yes</td>
<td>Walnut Ridge SE</td>
</tr>
<tr>
<td>WET 3</td>
<td>PFO1</td>
<td>0.67</td>
<td>0.40</td>
<td>Yes</td>
<td>Walnut Ridge SE</td>
</tr>
<tr>
<td>WET 4</td>
<td>PFO1</td>
<td>0.34</td>
<td>0.14</td>
<td>Yes</td>
<td>Walnut Ridge SE/ Walcott</td>
</tr>
<tr>
<td>WET 5a</td>
<td>PEM</td>
<td>0.19</td>
<td>0.19</td>
<td>Yes</td>
<td>Walcott</td>
</tr>
<tr>
<td>WET 5b</td>
<td>PSS1</td>
<td>0.32</td>
<td>0.25</td>
<td>Yes</td>
<td>Walcott</td>
</tr>
<tr>
<td>WET 6</td>
<td>PFO1</td>
<td>0.33</td>
<td>0.00</td>
<td>Yes</td>
<td>Walcott</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>PEM (1)</strong></td>
<td><strong>0.19</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>PSS1 (1)</strong></td>
<td><strong>0.32</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>PFO1 (5)</strong></td>
<td><strong>1.66</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total (7)</strong></td>
<td><strong>2.17</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Atkins field classifications are based upon Cowardin et al. (1979): PEM = Palustrine emergent; PSS1 = Palustrine scrub-shrub broad-leaved deciduous; and PFO1 = Palustrine forested broad-leaved deciduous.
2. Acreage of feature within proposed right-of-way.

### Table 2
**Ponds Identified Within the Survey Corridor of the Highway 412 Widening Project**
**Lawrence and Greene Counties, Arkansas**

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Classification</th>
<th>Acres in Proposed ROW</th>
<th>Acres within Construction Limits (Permanent Impacts)</th>
<th>Likely Jurisdictional</th>
<th>Quadrangle Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>POND 1</td>
<td>PUB</td>
<td>0.22</td>
<td>0.21</td>
<td>Yes</td>
<td>Walnut Ridge SE</td>
</tr>
<tr>
<td>POND 2</td>
<td>PUB</td>
<td>1.85</td>
<td>0.21</td>
<td>Yes</td>
<td>Walcott</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>2.07</strong></td>
<td><strong>0.42</strong></td>
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<td></td>
</tr>
</tbody>
</table>
### Table 3
Jurisdictional Streams Identified Within the Survey Corridor of the Highway 412 Widening Project
Lawrence and Greene Counties, Arkansas

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Stream Name</th>
<th>Class</th>
<th>Length Within Construction Limits (feet)</th>
<th>Linear Feet Permanently Impacted</th>
<th>Quadrangle Name</th>
<th>OHWM Width/Depth (feet)</th>
<th>OHWM Elevation (mean sea level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>Fry Ditch</td>
<td>Intermittent</td>
<td>220.64</td>
<td>152.68</td>
<td>Walnut Ridge</td>
<td>10/1</td>
<td>257.17</td>
</tr>
<tr>
<td>S2</td>
<td>Kellow Ditch</td>
<td>Intermittent</td>
<td>212.13</td>
<td>148.24</td>
<td>Walnut Ridge</td>
<td>13/2</td>
<td>259.11</td>
</tr>
<tr>
<td>S3</td>
<td>Float Road Ditch</td>
<td>Intermittent</td>
<td>191.74</td>
<td>147.77</td>
<td>Walnut Ridge SE</td>
<td>15/2</td>
<td>251.54</td>
</tr>
<tr>
<td>S4</td>
<td>Unnamed</td>
<td>Intermittent</td>
<td>379.09</td>
<td>0.00</td>
<td>Walnut Ridge SE</td>
<td>8/1</td>
<td>256.00</td>
</tr>
<tr>
<td>S5</td>
<td>Negro Head</td>
<td>Intermittent</td>
<td>336.14</td>
<td>132.57</td>
<td>Walnut Ridge SE</td>
<td>15/2</td>
<td>256.03</td>
</tr>
<tr>
<td>S6</td>
<td>Lateral No. 3</td>
<td>Intermittent</td>
<td>324.38</td>
<td>222.12</td>
<td>Walnut Ridge SE</td>
<td>15/2</td>
<td>257.03</td>
</tr>
<tr>
<td>S7</td>
<td>Unnamed</td>
<td>Intermittent</td>
<td>734.85</td>
<td>734.85</td>
<td>Walnut Ridge SE</td>
<td>6/1</td>
<td>259.06</td>
</tr>
<tr>
<td>S8</td>
<td>Unnamed</td>
<td>Ephemeral</td>
<td>176.37</td>
<td>0.00</td>
<td>Waicott</td>
<td>8/1</td>
<td>259.86</td>
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<tr>
<td>S9</td>
<td>Unnamed</td>
<td>Intermittent</td>
<td>1,295.72</td>
<td>192.71</td>
<td>Waicott</td>
<td>6/1</td>
<td>260.64</td>
</tr>
<tr>
<td>S10</td>
<td>No. 26 Ditch</td>
<td>Intermittent</td>
<td>328.57</td>
<td>188.50</td>
<td>Waicott</td>
<td>15/1</td>
<td>257.54</td>
</tr>
<tr>
<td>S11</td>
<td>Caney Slough</td>
<td>Intermittent</td>
<td>260.66</td>
<td>175.30</td>
<td>Waicott</td>
<td>12/1</td>
<td>261.39</td>
</tr>
<tr>
<td>Totals</td>
<td></td>
<td>Intermittent</td>
<td>4,283.82</td>
<td>2,094.74</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 No new construction is shown in the plan for those features with no impacts.
CONDITIONS FOR LETTER OF PERMISSION NO. MVM 2016-00335

Project Location: The project is located on U.S. Highway 412 between Walnut Ridge and Paragould in section 36, T. 17 N., R. 1 E., in sections 31, 32, 33, 34, 35 and 36, T. 17 N., R. 2 E., in sections 31, 32, 33, 34, 35 and 36, T. 17 N., R. 3 E., and in sections 31 and 32, T. 17 N., R. 4 E., Lawrence and Greene Counties, Arkansas.

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   b. This permit does not grant any property rights or exclusive privileges.
c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:

   a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

   b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

   c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

   d. Design or construction deficiencies associated with the permitted work.

   e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

   a. You fail to comply with the terms and conditions of this permit.

   b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

   c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 Code of Federal Regulations (CFR) 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this
office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.