

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

Scott E. Bennett
Director
Telephone (501) 569-2000
Voice/TTY 711



P.O. Box 2261
Little Rock, Arkansas 72203-2261
Telefax (501) 569-2400
www.arkansashighways.com

October 7, 2016

Ms. M. Elaine Edwards
Chief, Regulatory Division
Little Rock District Corps of Engineers
P.O. Box 867
Little Rock, AR 72203-0867

RE: AHTD Job Number BR0405
Wildcat Creek Str. & Apprs.
Benton County

Dear Ms. Edwards:

Enclosed are the categorical exclusion, supporting illustrations, and proposed construction plans for the referenced AHTD project. This project appears to meet the requirements for the Nationwide Permit 14 for Linear Transportation Projects. Construction of this project will replace the existing County Road 1785 bridge and approaches over Wildcat Creek.

The current bridge is 167 ft in length with a 31.1 ft deck width with I-beams spans supported by single column bents. Two bents are located within the channel of Wildcat Creek. This bridge has been deemed structurally deficient due to deterioration of the deck. The new bridge will be constructed on existing alignment and will consist of one 178 ft continuous composite W-beam unit on spread footings at west abutment, drilled shaft-supported single hammer-head column at each intermediate bent, and trestle pile bent using steel H piles at the east abutment. Two piers will be constructed within the stream channel and will require the placement of fill below the plane of ordinary high water (OHW = elevation 1029.0 ft. msl). The existing piers within the channel of Wildcat Creek will be removed entirely prior to construction. One temporary work road (~400 yd³ below OHW) will be constructed just downstream and adjacent to the bridge. Total impacts to waters of the United States are estimated at less than 0.1 acre.


The proposed project will not impact state or federal lands, national or state wild or scenic rivers, or extraordinary resource water bodies. The project lies within FEMA Special Flood Hazard Zone A with a 1% chance of annual flooding. AHTD design standards must comply with FEMA approved local floodplain ordinances.

The project lies within the known range of the federally protected candidate Arkansas darter (*Etheostoma cragini*), threatened piping plover (*Charadrius melodus*), threatened Ozark cavefish (*Amblyopsis rosae*), threatened northern long-eared bat (*Myotis septentrionalis*), endangered Neosho mucket (*Lampsilis rafinesqueana*), endangered gray bat (*Myotis grisescens*), endangered

Indiana bat (*Myotis sodalis*), and endangered Ozark big-eared bat (*Corynorhinus townsendii ingens*). With distance to known hibernacula, limited vegetation clearing, and standard sediment control BMPs requirements for SWPPP approval “no effects” to threatened or endangered species are anticipated. The USFWS concurred with that determination on 8 August 2016.

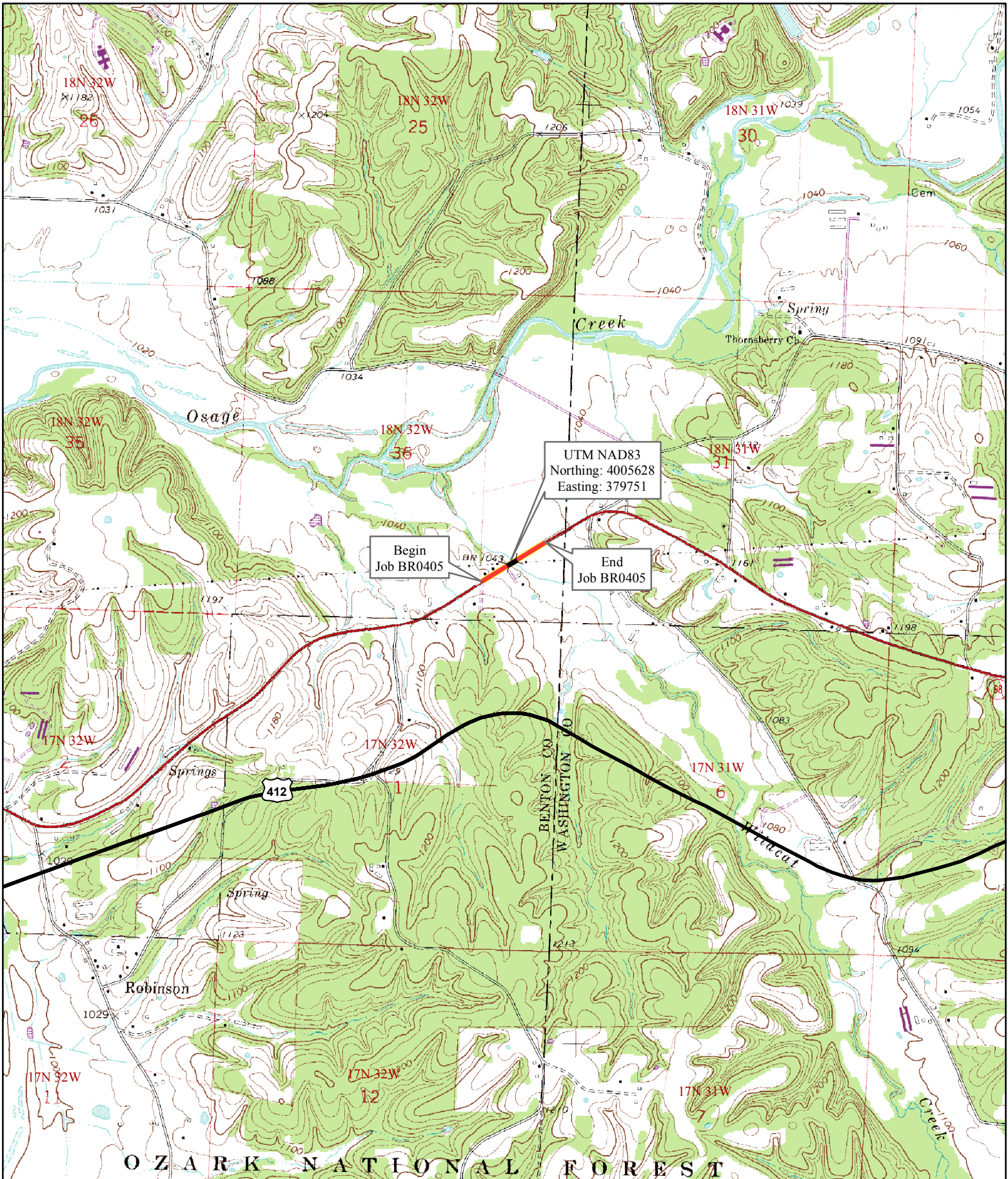
Please review this project for concurrence that construction can proceed under terms of a Nationwide Permit 14 for Linear Transportation projects as defined in the Federal Register 77 (34): 10184-10290. If additional information is required, please contact Ben Thesing or Josh Seagraves of my staff at (501) 569-2522.

Sincerely,


for John Fleming
Division Head
Environmental Division

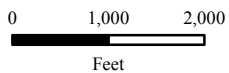
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Enclosures
Supporting Illustrations
Proposed Construction Plans



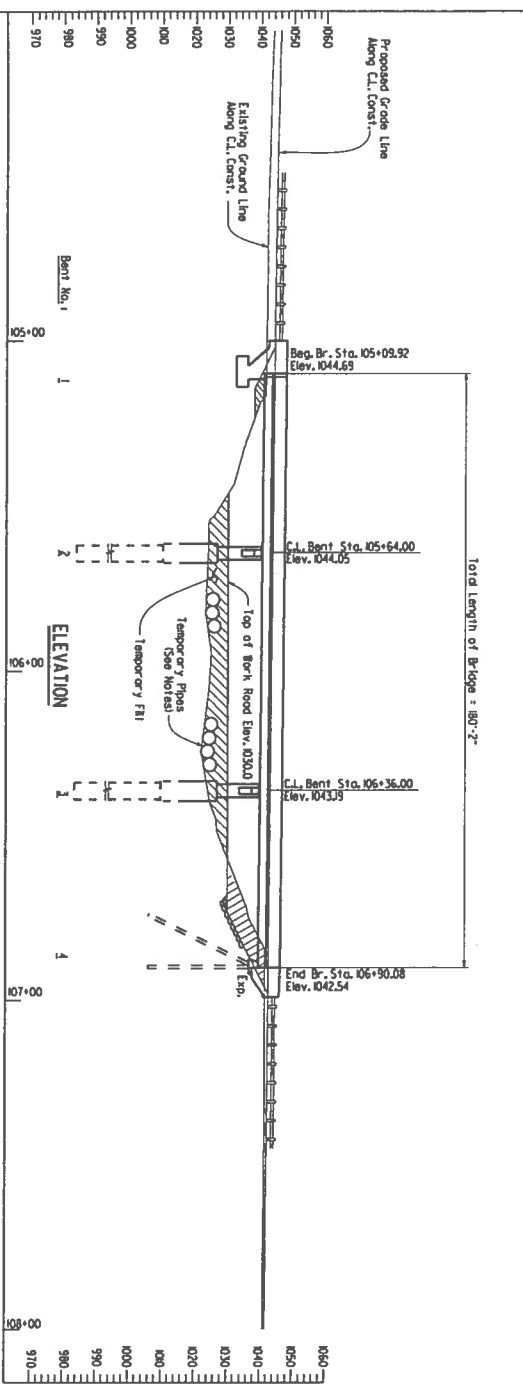
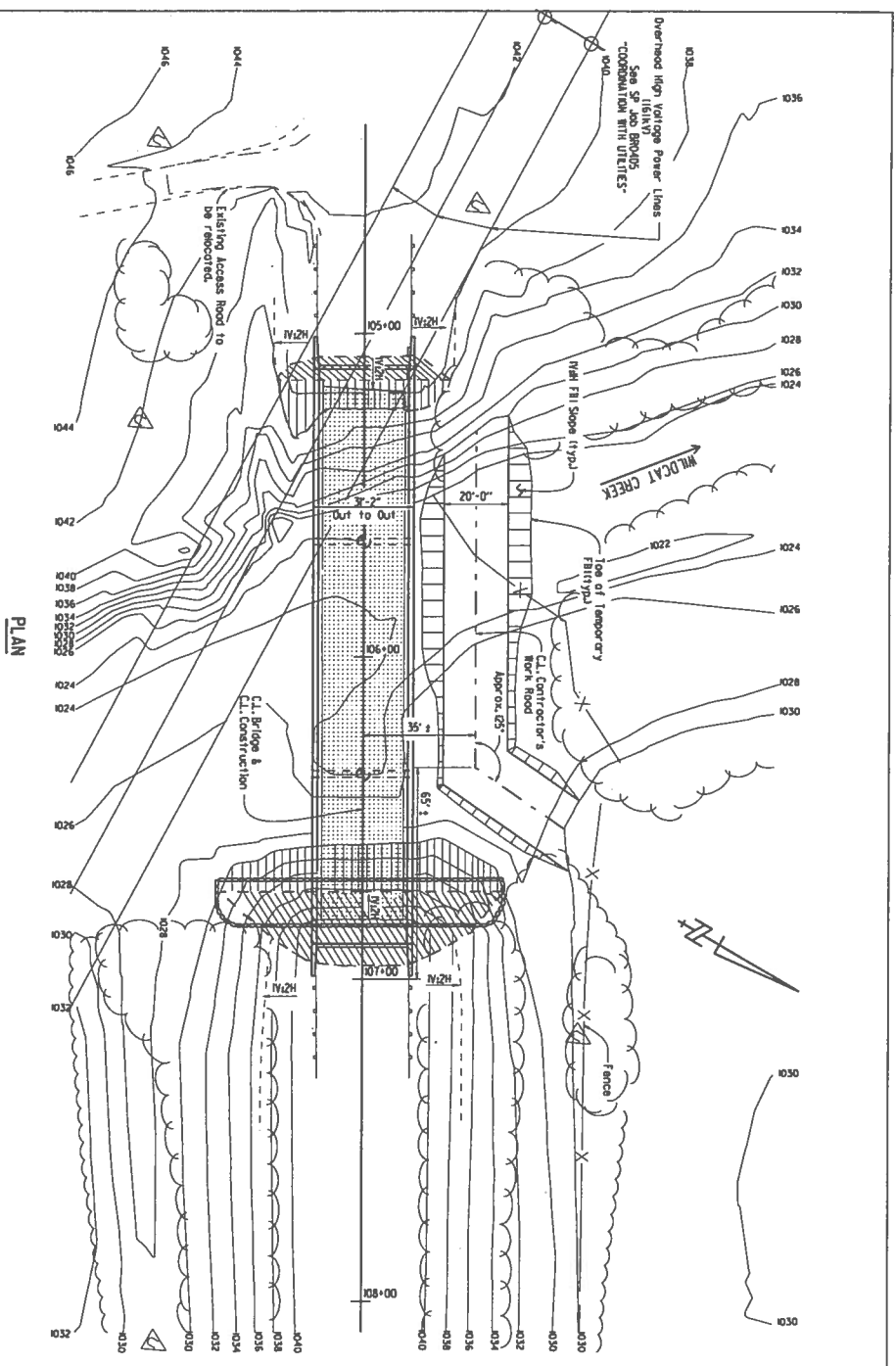
Job BR0405.
 Wildcat Creek Str. & Apprs.
 Benton County.

	Bridge
	Project Location



AHTD - Environmental GIS - Strawn
 October 7, 2016

Robinson 1983 USGS Topographic Map



Notes: The temporary fill to construct the work road shown has been permitted to facilitate construction of the project. The Contractor shall determine and provide temporary culverts of size and number that will be sufficient to maintain low stream flows and assist passage of aquatic wildlife.

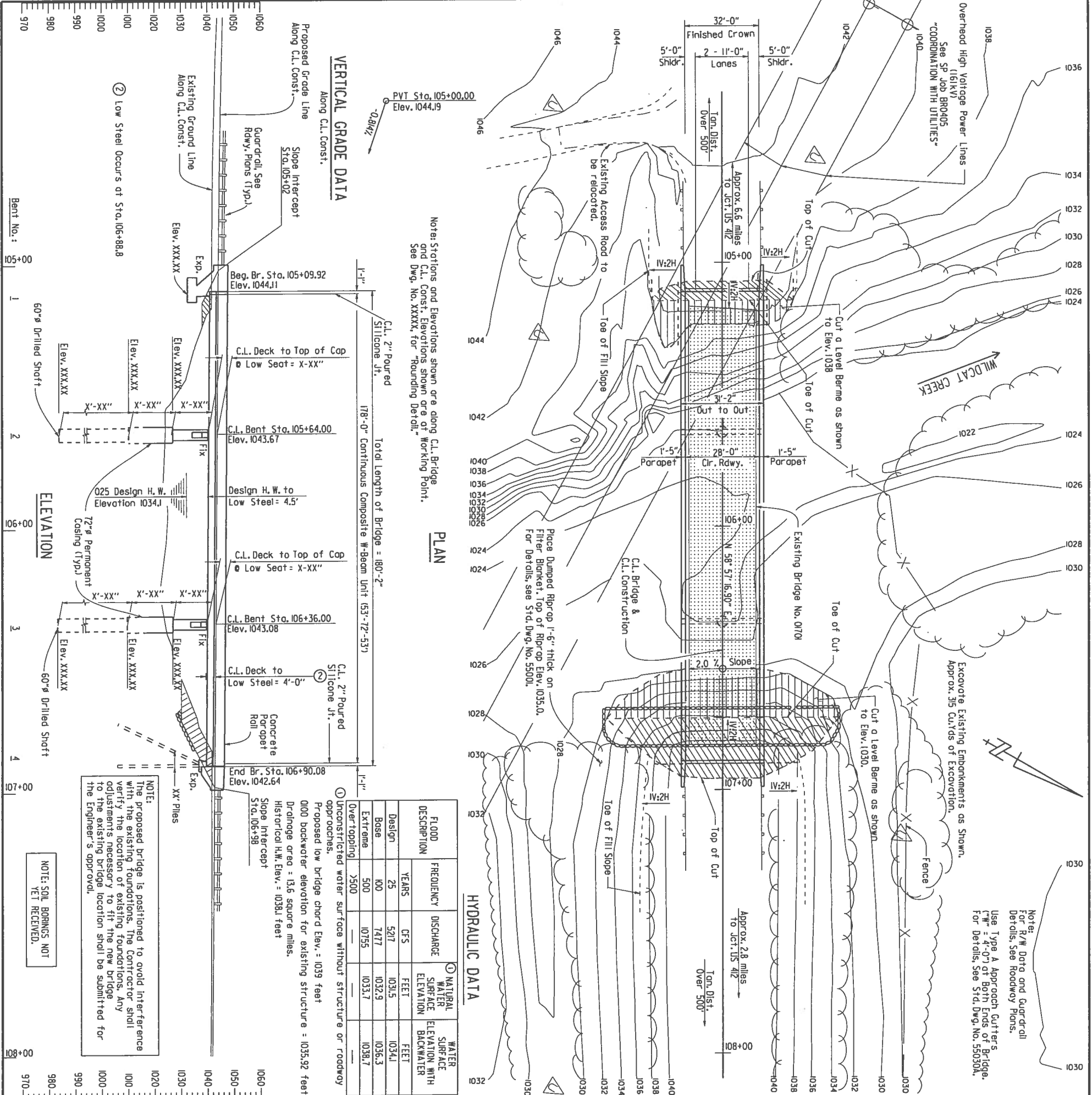
The Contractor may submit an alternative work road plan for approval by the Engineer showing details of and describing the proposed modifications. A primary objective of any proposed modifications should be to minimize the reduction of waterway opening in the floodplain. The top of the alternative work road shall not exceed the elevation shown. A determination will be made by the Engineer within ten (10) business days concerning the necessity or practicability of the request.

A modification of the Section 404 Permit and additional review time by the Corps of Engineers may be required if the alternative work road increases the volume of temporary fill that has been permitted for the project. The contract time will not be extended for the time required to consider or approve any alternate work road submissions.

Any additional work or expenses incurred preparing, submitting, or completing the alternate work road plan shall be of no additional cost to the Department. See SP Job 080378 "Construction in Special Flood Hazard Area" and Subsection 110.06(c) in the Standard Specifications for additional information. The Contractor is responsible for maintenance of the work roads during the contract period.

APPROXIMATE QUANTITIES (Below Elevation 1029.0)	
Work Road Fill Area	3840 sq. ft.
Work Road Fill Volume	400 cu. yds.

**CONCEPTUAL WORK PLAN
FOR TEMPORARY FILL
BRIDGE OVER WILDCAT CREEK
JOB BROAD05**



GENERAL NOTES

BENCH MARK: Vertical Control Data is shown on the Survey Control Data Sheets.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 edition) with applicable Supplemental Specifications and Special Provisions. Unless otherwise noted in the plans, Section and Subsection refer to the Standard Specifications.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Sixth Edition (2012), with 2013 Interim Revisions.

LIVE LOADING: HL-93

SEISMIC ZONE: I

MATERIALS AND STRENGTHS:
 Class 5 Concrete (Substructure)
 Class 3 Concrete (Superstructure)
 Reinforcing Steel Grade 60, AASHTO M 31 or M 322, Type A1
 Structural Steel AASHTO M 210, Gr. 50W
 Structural Steel AASHTO M 210, Gr. 50
 FY = 35,000 PSI

BORING LOGS: Boring logs may be obtained from the Construction Contract Procurement Section of the Program Management Division.

STEEL PILING: Piles for Bent 4 shall be HP 12x53 (Grade 50) and shall be driven with an approved air, steam, or diesel hammer to an ultimate bearing capacity of XXXX tons per pile and driven into material designated as XXXX on the boring legend. Minimum penetration shall be 10' below natural ground for all piles. Piling in Bent 4 shall be driven after embankment to bottom of cap is in place. Lengths of piling shown are assumed for estimating quantities and for use in determining payment for cut-off and dunnage in accordance with Section 805. Actual lengths are to be determined in the field, on all steel piling, the Contractor shall use approved steel H-pile driving points.

DRAWING SYSTEM: The drawing system approved and ultimate bearing capacity determination for piling shall be based on the requirements of Subsection 805.09(b) "Method B Wave Equation Analysis (WEAP)". It is estimated that a minimum rated hammer energy of XXXX foot-pound per blow will be required to obtain the ultimate bearing capacity for all piles.

FOUNDINGS: Footings or Bent 1 shall be set a minimum XXXX into material designated as XXXX on the boring legend. Foundations for footings shall be prepared in accordance with Subsection 801.04, rock excavations shall be made to neat lines of the concrete footings. Core shall be exercised to avoid spotting of rock faces by excessive blasting. Concrete in footings shall be poured directly against excavated surfaces of rock. Excavations shall be backfilled and compacted to the level of surrounding ground in accordance with Subsection 801.06.

DRILLED SHAFTS: Drilled shafts in Bents 2 and 3 shall be constructed in accordance with SP Job BR0405 "Drilled Shaft Foundations". Drilled shafts shall be socketed a minimum of XX feet into material designated as XXXX on the boring legend. No adjustments in plan tip elevation shall be made without prior approval from the Engineer. Methods of construction of the drilled shafts shall be in accordance with SP Job BR0405 "Drilled Shaft Foundations". The Contractor must obtain approval from the Engineer for any deviation from this requirement.

CROSS-SHAPE SONIC LOGGING: Nondestructive testing shall be performed on each drilled shaft in accordance with Special Provision Job No. BR0405 "Nondestructive Testing of Drilled Shafts".

BRIDGE DECK: The concrete bridge deck shall be given a the finish as specified for final finishing in Subsection 802.19 for Class 5 Third Bridge Roadway Surface Finish.

PROTECTIVE SURFACE TREATMENT: Class 2 Protective Surface Treatment shall be applied to the roadway surface and to the roadway face and top of the concrete parapet rail.

DETAIL DRAWINGS

DRAWING NOS.
 Bent 1 XXXXX - XXXXX
 Intermediate Bents XXXXX - XXXXX
 Bent 4 XXXXX - XXXXX
 Elongometric Bearings XXXXX - XXXXX
 178'-0" Continuous Composite W-Beam Unit 55007
 Standard General Notes for Steel Bridge Structures 55007
 Standard Details for Bridge Structure 55020
 Steel Piling 55020
 Type A Approach Gutters 55030A

EXISTING BRIDGE: Existing Bridge No. 01701 is 31.8' wide and 167' long and consists of (3)-55'-1-Beam Spans supported by single column intermediate bents. Bent 1 is on a spread footing. Bent 4 is a steel H-pile trestle bent.

REMOVAL AND SALVAGE: Existing Bridge No. 01701 shall be removed in accordance with Section 205. All material from the existing bridge shall become property of the Contractor.

MAINTENANCE OF TRAFFIC: The road will be closed during the construction of this project.



LAYOUT OF BRIDGE OVER WILDCAT CREEK
 WILDCAT CREEK STR. & APPRS. (S)
 BENTON COUNTY
 COUNTY ROAD NO. 1785
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

SHEET 1 OF 2
 DRAWN BY: MAH
 CHECKED BY: VMT
 DESIGNED BY: VGT
 BRIDGE NO. XXXXX

DATE: 2/18/16
 DATE: 7/25/16
 DATE: 7/16
 SCALE: 1" = 20'-0"
 FILENAME: bbr0405.Lldgn
 DRAWING NO. XXXXX

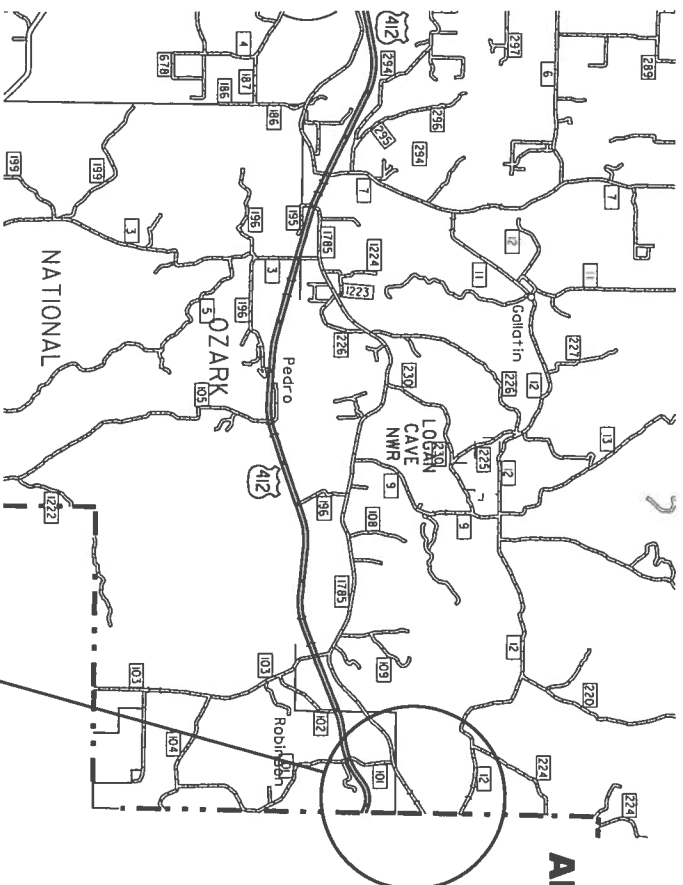
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
 CONSTRUCTION PLANS FOR PROPOSED COUNTY ROAD

**WILDCAT CREEK
 STR. & APPRS. (S)**
 COUNTY ROAD 1785
 BENTON COUNTY
 FED. AID PROJECT STPB-0004(??)

JOB BR0405

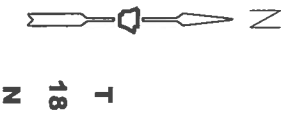
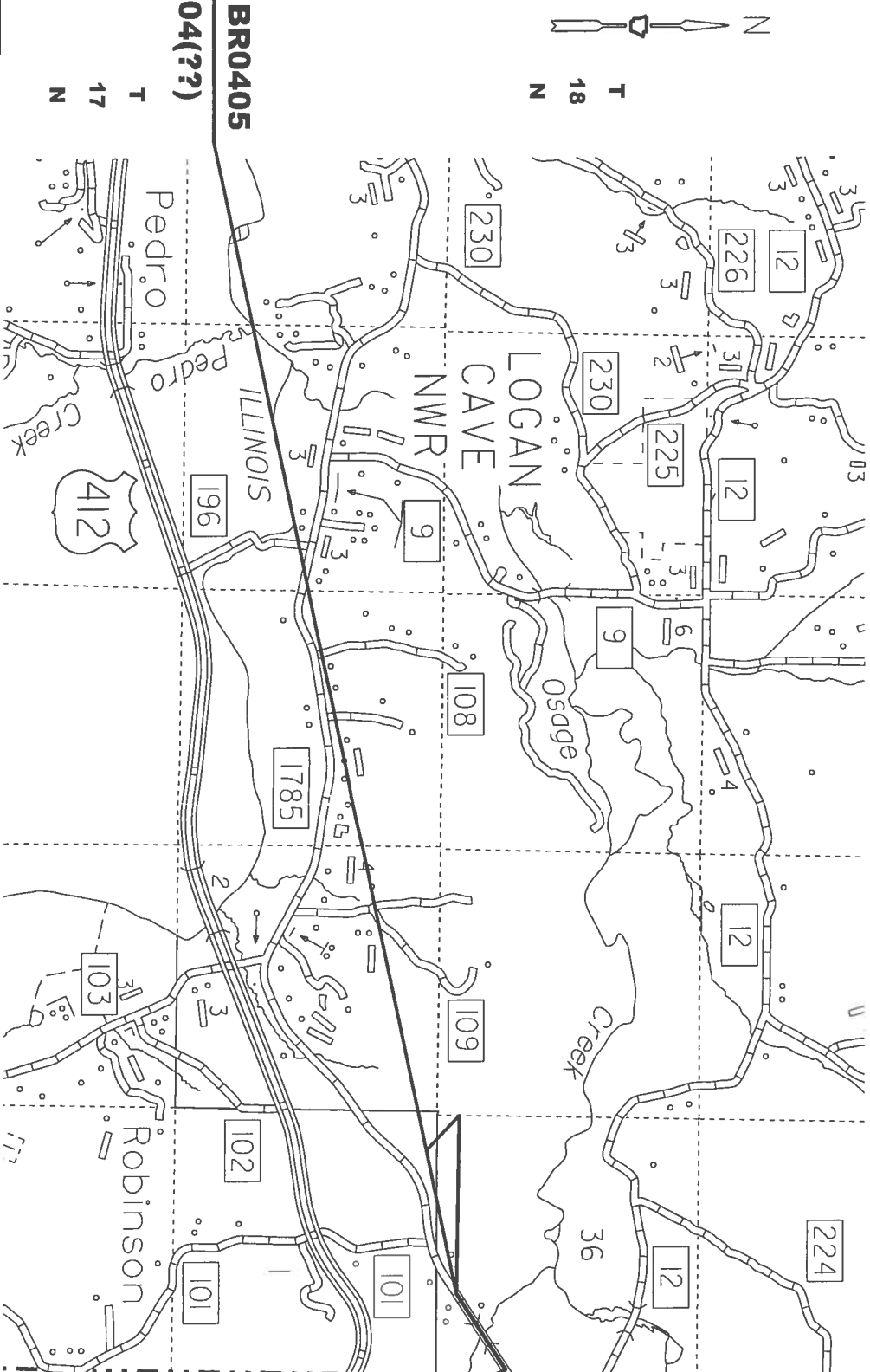


R 32 W

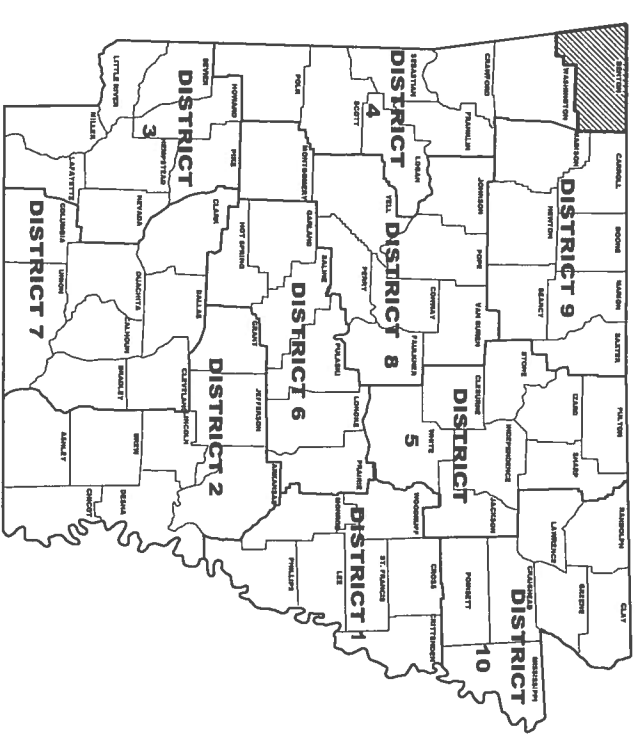


VICINITY MAP

PROJECT LOCATION



ARKANSAS HIGHWAY DIST. 9



DESIGN TRAFFIC DATA

DESIGN YEAR	2035
2015 ADT	??
2035 ADT	??
2035 DHV	?
DIRECTIONAL DISTRIBUTION	0.60
TRUCKS	??%
DESIGN SPEED	?? MPH

STA. 112+00.00 END JOB BR0405
 FED. AID PROJECT STPB-0004(??)

APPROVED



DEPUTY DIRECTOR
 AND CHIEF ENGINEER

STA. 100+00.00 BEGIN JOB BR0405
 FED. AID PROJECT STPB-0004(??)

BEGIN	MID-POINT	END
LATITUDE N36°11'13.8"	N36°11'16.8"	N36°11'20.2"
LONGITUDE W94°20'20.4"	W94°20'14.5"	W94°20'07.8"

GROSS LENGTH OF PROJECT	1200.00 FEET OR 0.227 MILES
NET " " ROADWAY	777.00
NET " " BRIDGE	77.00
NET " " PROJECT	1200.00

DATE REVISION	DATE FILED	DATE REVISED	DATE FILED	FED. NO. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	STPB-0004(??)	1	59

4 WILDCAT CREEK STR. & APPRS. (S)

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

Scott E. Bennett
Director
Telephone (501) 569-2000
Voice/TTY 711



P.O. Box 2261
Little Rock, Arkansas 72203-2261
Telefax (501) 569-2400
www.arkansashighways.com

September 7, 2016

Mr. Angel Correa
Division Administrator
Federal Highway Administration
700 West Capitol, Room 3130
Little Rock, Arkansas 72201-3298

Re: Job Number BR0405
FAP Number STPB-0004(58)
Bridge Number 01701
Wildcat Creek Str. & Apprs. (S)
Benton County
Tier 3 Categorical Exclusion

Dear Mr. Correa:

The Environmental Division has reviewed the referenced project and it falls within the definition of the Tier 3 Categorical Exclusion as defined by the AHTD/FHWA Memorandum of Agreement on the processing of Categorical Exclusions. The following information is included for your review and, if acceptable, approval as the environmental documentation for this project.

The purpose of this project is to replace the bridge over Wildcat Creek on County Road 1785 in Benton County. The total project length is 0.14 mile. A project location map is enclosed.

The existing roadway consists of two 12-foot wide paved travel lanes with 5-foot wide shoulders. Existing right of way width averages 100 feet. The existing bridge (#01701) is 167' x 26' with I-beam spans supported by single column bents. This bridge is structurally deficient and has a sufficiency rating of 45.1.

Proposed improvements include a new bridge with a 180' x 28' concrete deck with a continuous composite W-beam unit. The new roadway will have two 11-foot wide paved travel lanes with 5-foot shoulders. The proposed average right of way width will be 97 feet. Approximately 0.09 acre of additional right of way will be required for this project.

Design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2016	350	3	40 mph
2036	500	3	40 mph

There are no relocations, or environmental justice issues associated with this project. Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits. No impacts to cultural resources are anticipated; concurrence from the State Historic Preservation Officer is enclosed. Approximately 0.03 acres of Prime Farmland will be converted to highway right of way. Form NRCS-CPA-106 is enclosed.

Benton County participates in the National Flood Insurance Program. All of the floodplain encroachments within this county road construction project will be designed to comply with the county's local flood damage prevention ordinance. The project lies within 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. 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.

Noise predictions have been made for this project utilizing the Federal Highway Administration's TNM 2.5 (Traffic Noise Model) procedures. These procedures indicate that noise levels are below the FHWA noise criteria beyond the project's proposed right-of-way limits for current (2016) and future (2036) planning periods. No sensitive receptors are currently impacted and no project related noise impacts are anticipated. Any excessive project noise, due to construction operations, should be of short duration and have a minimum adverse effect on land uses or activities associated with this project area. In compliance with Federal guidelines, local authorities will not require notification.

The County Road 1785 Bridge over Wildcat Creek will be replaced on existing location. Two piers within the plane of ordinary high water (elevation 1029.0 ft. msl) will be

replaced with reinforced concrete single column piers on drilled shafts. A temporary work road will be constructed adjacent to the bridge requiring the placement of 400 cubic yards of temporary fill below ordinary high water. Total impacts to waters of the United States are estimated at less than 0.1 acre. No wetlands will be impacted as a result of this project. Construction of the proposed project should be allowed under the terms of Nationwide Permit 14 as defined in Federal Register 77(34):10184-10290.

Records check of the Information for Planning and Conservation (IPaC) indicated the project lies within the known range of the federally protected candidate Arkansas darter (*Etheostoma cragini*), threatened piping plover (*Charadrius melodus*), threatened Ozark cavefish (*Amblyopsis rosae*), threatened northern long-eared bat (*Myotis septentrionalis*), endangered Neosho mucket (*Lampsilis rafinesqueana*), endangered gray bat (*Myotis grisescens*), endangered Indiana bat (*Myotis sodalis*), and endangered Ozark big-eared bat (*Corynorhinus townsendii ingens*). Arkansas Natural Heritage Commission (ANHC) database shows no records of any federally listed species within the vicinity of the project. Visual inspection of entire bridge and piers during site visits showed no signs of bat occupancy or other habitats suitable for the listed species. Coordination with the US Fish and Wildlife enclosed.

If you have any questions, please contact the Environmental Division at 569-2281.

APPROVED

Environmental Specialist
Federal Highway Administration
Date: 10/3/2016

Sincerely,



John Fleming
Division Head
Environmental Division

Enclosures

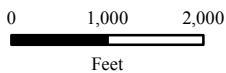
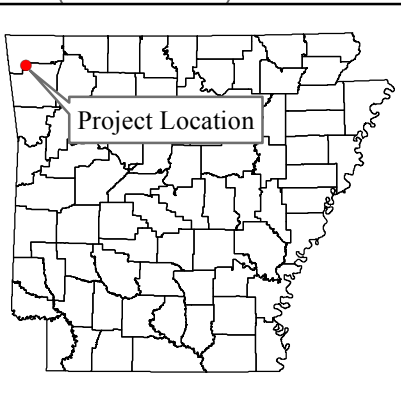
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c: Program Management
Right of Way
State Aid
District 9
Master File



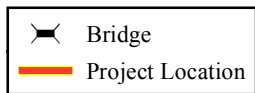
Begin
Job BR0405

End
Job BR0405



AHTD - Environmental GIS - Strawn
August 17, 2016

Job BR0405
Wildcat Creek Str. & Apprs.
Benton County



ARKANSAS STATE HIGHWAY
AND
TRANSPORTATION DEPARTMENT

94488.01
FHWA

Scott E. Bennett
Director
Telephone (501) 569-2000
Voice/TTY 711



P.O. Box 2261
Little Rock, Arkansas 72203-2261
Telefax (501) 569-2400
www.arkansashighways.com

July 28, 2016

Mr. Robert Scoggin
Arkansas Historic Preservation Program
323 Center Street, Suite 1500
Little Rock, Arkansas 72201

AHPP

AUG 01 2016

RECEIVED
AHTD

AUG 04 2016

RE: AHTD Job No. BR0405
Wildcat Creek Str. & Apprs. (S)
Benton County

ENVIRONMENTAL
DIVISION

Dear Mr. Scoggin:

A Project Identification Form for the referenced project is enclosed. Please review for concurrence with the findings of my staff. If you have any questions or require additional information, please contact Jason Eads of my staff at (501) 569-2181.

Sincerely,

John Fleming
John Fleming
Division Head
Environmental Division

JF:DW:JE:ym

Enclosure
PIF

Date **AUG 02 2016**
No known historic properties will be
affected by this undertaking. This
effect determination could change
should new information come to light.
Francis McSwain
Francis McSwain, Esq., State
Historic Preservation Officer

**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency) BR0405	3. Date of Land Evaluation Request 8/29/16	4. Sheet 1 of _____
--	--	---------------------

1. Name of Project Wildcat Creek – Str. & Apprs.	5. Federal Agency Involved FHWA
--	---------------------------------

2. Type of Project Bridge Replacement	6. County and State Benton AR.
---------------------------------------	--------------------------------

PART II (To be completed by NRCS)	1. Date Request Received by NRCS	2. Person Completing Form
--	----------------------------------	---------------------------

3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES NO	4. Acres Irrigated Average Farm Size
---	--

5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: %	7. Amount of Farmland As Defined in FPPA Acres: %
------------------	---	--

8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
--	---	---

PART III (To be completed by Federal Agency)	Alternative Corridor For Segment			
	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor				

PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	.03			
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				

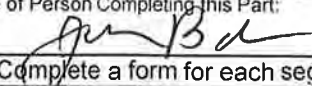
PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points				
1. Area in Nonurban Use	15	15			
2. Perimeter in Nonurban Use	10	10			
3. Percent Of Corridor Being Farmed	20	15			
4. Protection Provided By State And Local Government	20	0			
5. Size of Present Farm Unit Compared To Average	10	0			
6. Creation Of Nonfarmable Farmland	25	0			
7. Availability Of Farm Support Services	5	5			
8. On-Farm Investments	20	0			
9. Effects Of Conversion On Farm Support Services	25	0			
10. Compatibility With Existing Agricultural Use	10	0			
TOTAL CORRIDOR ASSESSMENT POINTS	160	45			

PART VII (To be completed by Federal Agency)				
Relative Value Of Farmland (From Part V)	100	100		
Total Corridor Assessment (From Part VI above or a local site assessment)	160	45		
TOTAL POINTS (Total of above 2 lines)	260	145		

1. Corridor Selected: <input type="checkbox"/> New <input checked="" type="checkbox"/> Existing	2. Total Acres of Farmlands to be Converted by Project: .03 acres of Prime Farmland	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>
---	--	-----------------------	--

5. Reason For Selection:

Signature of Person Completing this Part:  DATE 9/7/16

NOTE: Complete a form for each segment with more than one Alternate Corridor

From: [Thesing, Ben](#)
To: [Seagraves, Josh](#)
Subject: FW: Bridge Replacement Old Hwy 68 Wildcat Creek - BR0405
Date: Wednesday, August 31, 2016 9:14:27 AM

From: Lewis, Lindsey [mailto:lindsey_lewis@fws.gov]
Sent: Monday, July 27, 2015 12:55 PM
To: Thesing, Benjamin D.
Subject: Re: Bridge Replacement Old Hwy 68 Wildcat Creek - BR0405

Ben,

The Service does not have any information indicating that there are any federally listed species in the affected area of this action. Additionally, the Service concurs with your assessment and determination of "no effect" as it relates to 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
(501) 513-4480 - fax
Lindsey_Lewis@fws.gov
<http://www.fws.gov/arkansas-es/>

On Fri, Jul 24, 2015 at 8:27 AM, Thesing, Benjamin D. <Benjamin.Thesing@ahtd.ar.gov> wrote:
Lindsey,

Would you mind taking a look at this bridge replacement project? It is on County Road 1785 crossing Wildcat Creek in Benton County (36.187991, -94.337543). Included is a title sheet with location information. Currently the plan is the replace the bridge on location; therefore, no new right over way, tree clearing, or associated impacts with new location projects. Wildcat is a tributary to Osage Creek and further down to Illinois River.

Heritage records for candidate Arkansas Darter (*Etheostoma cragini*) are about 2.6 miles to the west off of Osage Creek. Also, I see Neosho mucket (*Lampsilis rafinesqueana*) records on the Illinois River about 3.8 miles to the west. Lastly, I see one heritage record of the least darter (*Etheostoma microperca*) from 1938 at the bridge location.

With the replace of the bridge proposed to be on current location requiring no row expansion, standard sediment control BMPs requirements for SWPPP approval, and lastly distance of

project from any protected species; we have come to the determination that this project will have "no effect" on listed species and seek concurrence from the service.

If you have any questions or comments please let me know.

Cheers,

Ben

Ben Thesing
Environmental Analyst I
Arkansas State Highway & Transportation Dept.
PO BOX 2261, Little Rock, AR 72203
P: 501-569-2520 F: 501-569-2009

AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

AHTD Job Number BR0405 FAP Number STPB-0004(58)

Job Title Wildcat Creek Str. & Apprs.

Environmental Impacts	None	Minor	Significant	Comments
Air Quality	X			
Construction Impacts		X		Temporary
Cultural Resources	X			
Economic	X			
Endangered Species	X			USFWS concurrence received 7/27/2015
Energy Resources	X			
Environmental Justice/Title VI	X			
Fish and Wildlife		X		Temporary during construction
Floodplains		X		Within FEMA 100 year floodplain
Forest Service Property	X			
Hazardous Materials/Landfills	X			
Land Use Impacts	X			
Migratory Birds		X		Bird SP
Navigation/Coast Guard	X			
Noise Levels	X			
Prime Farmland		X		.03 acres
Protected Waters	X			
Public Recreation Lands	X			
Public Water Supply/WHPA	X			
Relocates	X			
Section 4(f)/6(f)	X			
Social	X			
Underground Storage Tanks	X			
Visual Impacts	X			
Stream Impacts		X		NWP14
Water Quality		X		Temporary during construction
Wetlands	X			
Wildlife Refuges	X			

Section 401 Water Quality Certification Required? No

Short-term Activity Authorization Required? Yes

Section 404 Permit Required? Yes Type NWP14

Remarks: USFWS concurred that the project will have no effect on listed species.

Signature of Evaluator  Date 9/7/16

Date Submitted 08-03-2016

Date Returned _____

STATE AID DESIGN REQUEST

Job Number BR0405 FAP Number STPB-0004(58) County Benton

Job Name Wildcat Creek Strs. & Apprs. (S)

Design Engineer Jonathan Clements Environmental Staff _____

Brief Project Description Replace bridge and approaches.

A. Existing Conditions:

1. Roadway Width: Metric _____ English 34'

2. Shoulder Width: Metric _____ English 5' Each Side

3. Number of Lanes and Width: Metric _____ English 2-12'

4. Existing Right-of-Way: Metric _____ English N/A

B. Proposed Improvements:

1. Roadway Width: Metric _____ English 32'

2. Shoulder Width: Metric _____ English 5' Each Side

3. Number of Lanes and Width: Metric _____ English 2 - 11'

4. Average Right-of-Way: Metric _____ English 47' Lt./50' Rt.

If bridge(s) will be replaced by culverts give dimensions:

C. Construction Information:

If detour: Where: N/A Length: English

D. Design Data:

2016 ADT: 350 2036 ADT: 500 Trucks: 3 %

Design Speed: 40 m.p.h.

E. Approximate total length of project: _____ kilometer(s) 0.14 mile(s)

F. Justification for proposed improvements: Deficiencies in Drainage Structure

G. Total Relocatees: 0 Residences: _____ Businesses: _____

H. Have you coordinated with any of the following: (Provide name and date.)

County Officials County Judge

State Agency NO

Federal Agency NO

BRIDGE INFORMATION – PRELIMINARY

Job Number: BR0405 FAP Number: STPB-0004(58) County: Benton
 Job Name: Wildcat Creek Str. & Apprs. (S)
 Design Engineer: Jeff Covay Environmental Staff: John Baber/Ben Thesing

A. Description of Existing Bridge:

1. Bridge Number 01701 over Wildcat Creek
2. Location: Rte.: County Road 1785 Section: 00 Log Mile: 6.610
3. Length: 167'-0" ft Br. Rdwy. Width: 26'-0" ft Deck Width (Out-to-Out): 31'-10" ft
4. Type Construction: I-beams spans supported by single column bents
5. Deficiencies: Deck (Cond. Rating 3); Structurally Deficient
6. HBRRP Eligibility: Qualif. Code: SD Sufficiency Rating: 45.1
7. Are any Condition Component Ratings at 3 or less: Yes (Deck Condition = 3)

B. Proposed Improvements:

1. Length: 180'-2" ft Br. Rdwy. Width: 28'-0" ft Deck Width (Out-to-Out): 31'-2" ft
2. Travel Lanes: Two 11'-0" lanes
3. Shoulder Width: 5'-0" on each side of roadway
4. Sidewalks? No Location: _____ Width: _____ ft

C. Construction Information:

1. Location in relation to existing bridge: The replacement bridge will be at the same location
2. Superstructure Type: One 178'-0" continuous composite W-beam unit
3. Span Lengths: 53'-72'-53'
4. Substructure Type: Spread footings @ west abutment, drilled shaft-supported single hammer-head column @ each intermediate bent, and trestle pile bent using steel H piles @ the east abutment
5. Ordinary High Water Elev. (OHW): Elev. 1029 No. of Bents inside OHW Contours: 2
6. Concrete Vol. below OHW: TBD yd³ Vol. Bent Excavation: TBD yd³ Vol. Backfill 0 yd³
7. Is Channel Excavation below OHW Required? No Surface Area: 0 ft² Volume: 0 yd³
8. Is Fill below OHW Req'd.? No Surface Area: 0 ft² Volume: 0 yd³
9. Is Riprap below OHW Required? No Volume: 0 yd³

D. Work Road Information:

1. Is Work Road(s) required? Yes Location: TBD Top Width: TBD ft
2. Is Fill below OHW required? Yes Surface Area: TBD ft² Volume TBD yd³
3. Are Pipes required to meet Backwater Criteria? TBD Waterway Opening: TBD ft²

E. Detour Information:

1. Is a detour bridge required? No Location in relation to Existing Br.: _____
2. Length: _____ ft Br. Rdwy. Width: _____ ft Deck Elevation: _____
3. Volume of Fill below OHW: _____ yd³ Surface Area: _____ ft²

F. Coordination with Outside Agencies (e.g., FHWA, City, County, C of E, USCG):

Has Bridge Division coordinated with any outside agencies? No

Agency	Person Contacted	Date