Environmental Programs Division Office 405 - 521-3050

Programmatic/Individual Categorical Exclusion

X	PCE		ICE

Date	**April 22, 2022**	Project Number	**J3-2852(004)CI**
County	**Grant**	State Job Piece No:	**JP 32852(04)**
NEPA Project Manager	**Frank Guerrero**	Phone Number	**405-522-6547**
ODOT Field District	**4**	Bridge NBI No. *(For County & State Projects)* & Location No. *(County Projects Only)*	**NBI 13474 & 27N3010E0250008**
Project Description from JPINFO	**BRIDGE & APPROACHES ON NS 301 OVER UNNAMED CREEK 2.0 MILES NORTH & 2.9 MILES WEST OF SALT FORK**		

This project is included in: *(Check all applicable ones)*		**State 8 Year Construction Program**
	X	**County 5 Year Construction Program**
		State Transportation Improvement Program
This project has federal funds: *(Check applicable one.)*	**X**	**Currently has Federal Funds**
		Potential for Future Federal Funds
This project is in the Metropolitan Transportation Improvement Program (If applicable) *(Check applicable one)*		**Yes**
	X	**Not Applicable**

The Oklahoma Department of Transportation (ODOT) has completed the environmental analysis and review of the referenced project. ODOT has determined that this project does not individually or cumulatively have a significant impact of the environment as defined by the National Environmental Policy Act (NEPA) or involve unusual circumstances as defined in 23 CFR 771.117(b) and is therefore excluded from the requirements to prepare an Environmental Assessment or Environmental Impact Assessment.

Existing Conditions:
The existing bridge (NBI 13474, Str. 27N3010E0250008) on NS 301 over an unnamed creek is a 23-foot-wide span bridge with a 33-foot-wide approach roadway. The bridge has a sufficiency rating of 38.5 and is rated as structurally deficient. The bridge is currently load posted at 12 tons. The existing asphalt roadway is 18 feet wide with two 9-foot-wide driving lanes and no shoulders. Existing average annual daily traffic (AADT) is 220 vehicles per day (vpd) with a 20-year future projected AADT of 327 vpd.
Purpose & Need
To correct a structurally deficient bridge.
Alternatives considered & Proposed Improvement

The proposed project on NS-301 over an unnamed creek will replace the existing bridge (NBI 13474, Str. 27N3010E0250008) with a 26-foot-wide bridge on existing alignment. The existing NS 301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with 3-foot-wide outside sod shoulders. Additional right-of-way will be required. The roadway will be closed to traffic during construction and traffic will be detoured to adjacent county roads.
Did the project have public involvement *(Check the applicable items and include public involvement summary and supporting documents in the appendix)*

X	Property Owner Notification			Road Closure Letter			Public/Stakeholder Meeting
	Legal Notice/Website Posting			Small City Letter			None

All documentation, analyses, and agency coordination regarding this Categorical Exclusion are attached to this document and maintained in the project file at the Oklahoma Department of Transportation, Environmental Programs Division.

Criteria Identified in Section IV.A.1.b. of the 2019 FHWA/ODOT Programmatic Agreement for Processing Categorical Exclusions that would require Individual Review and Approval by FHWA:
Check Yes or No below. If the answer to any of the questions below is Yes, an Individual CE will be required.

	Description/Question	**Yes**	**No**
i.	Does the project result in capacity expansion of a roadway by addition of through lanes?		**X**
ii.	Does the project involve any permanent changes limits of access control or to the operation of an Interstate highway, associated interchanges or ramps or requires an Access Justification Report (AJR)?		**X**
iii.	Is the project not included in or is inconsistent with the statewide transportation improvement program, and in applicable urbanized areas, the transportation improvement program?		**X**
iv.	Does the project involve acquisition of more than minor right-of-way not adjacent to the existing facility?		**X**
v.	Does the project involve residential or commercial relocation?		**X**
vi.	Does the project include acquisition of land for hardship or protective purposes, or early acquisition pursuant to Federal acquisition project (23 U.S.C. § 108(d))		**X**
vii.	Does the project have potential for disproportionately high and adverse impact on minority or low-income populations, based on known demographics in the project vicinity, extent of R/W, relocations, and other identified impacts?		**X**
viii.	Does the project involve property in which another Federal Agency or Federally Recognized Tribe has ownership, oversight or any other encumbrance?		**X**
ix.	Does the project involve a determination of adverse effect by Oklahoma State Preservation Office (SHPO) or a designated Tribal Historic Preservation Office (THPO) in accordance with Section 106?		**X**
x.	Does the project involve a Programmatic Section 4(f) or de minimis finding which has not been previously approved by FHWA?		**X**
xi.	Requires the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act of 1965 (54 U.S.C. § 200305), the Federal Aid in Sport Fish Restoration Act (16 U.S.C. 777-777k, 64 Stat. 430), the Federal Aid in Wildlife Restoration Act (16 U.S.C. 669-669i; 50 Stat. 917), or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property		**X**
xii.	Does the project involve any impact on Noise Abatement Criteria (NAC) Category A, B, C or D receptors?		**X**
xiii.	Does the project involve a finding of "may effect, likely to adversely affect" determination		**X**

Criteria Identified in Section IV.A.1.b. of the 2019 FHWA/ODOT Programmatic Agreement for Processing Categorical Exclusions that would require Individual Review and Approval by FHWA: **Check Yes or No below. If the answer to any of the questions below is Yes, an Individual CE will be required.**			
Description/Question		**Yes**	**No**
	under Section 7 of the Endangered Species Act or the Bald and Gold Eagle Protection Act and can be processed as under programmatic agreement?		
	a. Does the project involve a Section 7 Formal Consultation Process prior to start of construction?		**X**
xiv.	Does the project require an Individual Section 404 Permit (This is generally for major River Crossings, waters or wetlands impact greater than 3.0 AC, Projects with Formal Consultation, structures on new alignment or others as determined by USACE.)?		**X**
xv.	Does the project involve construction across or adjacent to a river designated as a component in the National System of Wild and Scenic Rivers?		**X**
xvi.	Does the project require a Coast Guard Permit?		**X**
xvii.	Does the project involve an adverse impact on prime farmland where Natural Resources Conservation Agency (NRCS) has required consideration of alternatives and measures to avoid and minimize impacts?		**X**
xviii.	Does the project involve increase to the base 100 Year floodplain in a regulatory floodway (Zone A-E in a FEMA Map) that will require a flood map revision as determined by the appropriate state or local authority?		**X**
xix.	Does the project not conform to the State Implementation Plan which is approved or promulgated by the U.S. Environmental Protection Agency in air quality non-attainment areas		**X**
xx.	Does the project involve any known Superfund site?		**X**
xxi.	If the project involves road or bridge closure or ramp closure, do any of the following conditions apply? (Check the boxes ONLY if the project involves road closure)		
	a. No Access will be provided to local traffic or posted		**X**
	b. Through traffic dependent businesses will be affected		**X**
	c. The detour or closure will substantially alter the environmental consequences of the action, such as by creating unsafe conditions on the detour route or requiring additional work or expansion to detour routes to carry the additional traffic.		**X**
	d. There is a public controversy associated with the detour or closure		**X**
	e. The detour closure will interfere with special events or activities		**X**
xxii.	Does the project have substantial public or agency controversy on environmental grounds?		**X**

Explanation for Individual CE (If any of the answers above are YES):	
Item for which the answer is YES	
Explanation that CE Classification is appropriate	
Item for which the answer is YES	
Explanation that CE Classification is appropriate	

Pre-Construction Commitments:

All operators, employees, and contractors will be made aware of all environmental commitments, including the following Plan Notes.

The action may involve work in potentially jurisdictional waters and potentially jurisdictional wetlands. For Local Government Projects, a copy of the 404 permit obtained by the County should be submitted by Local Government Division to Environmental Programs Division for the Project File.

The roadway will be closed to traffic during construction. The County will be responsible for notifying all local residential and commercial property owners, schools, and emergency services providers prior to construction. The County will be responsible for posting the detour routes. The Contractor will provide access to local property owners at all times during construction.

Right-of-Way and Utility Commitments

The following Construction Commitments requiring avoidance, restrictions or minimization of natural and human resources during Right-of-Way clearance and Utility relocation activities will be discussed with the Right-of-Way and Utility Owners at the start of Right-of-Way and Utility Process.

Construction Commitments

The following plan notes requiring avoidance, restrictions or minimization of natural and human resources in the project and off-site project areas will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2.

Non-Compliance: Failure to implement the commitments specified in the Plan Notes can result in non-compliance issues on the project. Work activities may be suspended on the project, for an undetermined duration, while working with regulators to bring the project back into compliance. The contractor will not be compensated for time lost.

Water Quality Conservation: Appropriate Best Management Practices to minimize impacts from storm water discharges and sedimentation in streams, as established by the Oklahoma Department of Environmental Quality, shall be conscientiously implemented throughout the proposed construction periods, in order to minimize any potential impacts to any listed species. The effectiveness of erosion controls shall be maintained for the duration of construction activities. Hazardous materials, chemicals, fuels, lubricating oils, and other such substances shall be stored at least 100 feet outside of the ordinary high water mark (OHWM). Refueling of construction equipment shall also be conducted at least 100 feet from the OHWMs. Sediment and erosion controls shall be installed around staging areas to prohibit discharge of materials from these sites. Construction waste materials and debris shall be stockpiled at least 25 feet outside of the OHWMs, and these materials shall be removed and disposed of properly following completion of the project. Preventative measure must be taken to prohibit the discharge of contaminants into any surface waters.

Whooping Crane Plan Note: If Whooping Cranes are seen at or within one mile of the proposed work site, the Resident Engineer shall immediately contact the ODOT Biologist. If there is a confirmed sighting and/or Whooping Cranes are observed within one mile of the proposed work site, all construction activities shall cease until it is determined that Whooping Cranes have left the project vicinity without being harassed.

Owl Note: Owls are migratory birds, protected by the federal Migratory Bird Treaty Act. This species commonly uses bridges and culverts for nesting. The nesting season for Owls extends from December 15 to July 15. Owl use of the bridge (NBI:13474) has been observed. Any activities which would destroy active nests or harm eggs or birds would violate the Migratory Bird Treaty Act. If owls are observed using the bridge, contact the ODOT Biologist immediately.

Migratory Bird Note: Migratory birds are protected by the federal Migratory Bird Treaty Act. Many birds commonly use bridges and culverts for nesting. The nesting season for most migratory bird species extends from March 1 to August 31. Migratory bird nesting use of the bridge (NBI:13474) was observed. Painting, repair, retrofit, rehabilitation or demolition of the existing bridge shall be conducted between September 1, and February 28, when migratory bird nests are not occupied. If painting, repair, retrofit, rehabilitation or demolition cannot be completed between September 1 and February 28, the bridge shall be protected from new nest establishment prior to March 1, by means that do not result in bird death or injury. Options include the exclusion of adult birds from suitable nest sites on or within a structure by the placement of weather-resistant polypropylene netting with 0.25-inch or smaller openings, prior to March 1. Methods other than netting must be pre-approved by the ODOT Biologist.

Although no nests were observed on all other structures, the birds may occupy the structures in the future. The Resident Engineer shall contact the ODOT Biologist if any bird use of these structure is observed. If birds are observed then painting, repair, retrofit, rehabilitation or demolition of the existing bridge and culvert shall be conducted between September 1, and February 28 (when migratory bird nests are not occupied).

Species (choose those that apply)	**Seasonal Restriction Period**
Migratory Birds: Swallows and Phoebes (NESTS PRESENT)	March 1 – August 31
Migratory Birds: Owls	December 15 – July 15

The Environmental Programs Division shall provide **the final plan sheet with the mitigation notes** to the Designer for inclusion in Final Plans and keep a copy for the project records. The mitigation measures above should be discussed at all Pre-work conferences per Policy Directive C-201-2.

All documentation, analyses, and agency coordination regarding this Categorical Exclusion are contained in a Supporting Appendix maintained in the project file at the Oklahoma Department of Transportation, Environmental Programs Division.

Development of the project including coordination and assessment of potential social, economic and environmental impacts has been considered in accordance with DOT ORDER 5610.1C, and CEQ REGULATIONS 40 CFR 1500 - 1508 as amended, 23 CFR 771.117 and the 2019 FHWA/ODOT Programmatic Agreement for processing of categorical exclusions. Implementation of this action as a "Categorical Exclusion" will satisfy the requirements of the National Environmental Policy Act.

Preparer/Reviewer Signatures

	4/22/2022
Environmental Consultant Project Manager (If Applicable)	Date
Garver	
Environmental Consultant ~~Firm~~ Name (If Applicable)	Date
County Commissioner or City Manager (For Local Government Projects)	Date
Frank Guerrero Digitally signed by Frank Guerrero Date: 2022.04.26 12:38:14 -05'00'	
ODOT Environmental Project Manager	Date
Amber McIntyre Digitally signed by Amber McIntyre Date: 2022.04.26 19:02:46 -05'00'	
ODOT Environmental Programs Interim Assistant Division Manager	Date
Joe Brutsché Digitally signed by Joe Brutsché Date: 2022.04.26 12:53:11 -05'00'	
ODOT Environmental Programs Interim Division Manager	Date

CONCLUSION:

ODOT has reviewed the conditions identified in Section IV.A.1.b of Federal Highway Administration 2019 (FHWA)/ODOT Programmatic Agreement for Processing Categorical Exclusions (CE) and determined that an Individual CE must be submitted to FHWA for approval.		**YES**
	X	**NO**

For Individual CEs requiring FHWA Approval:
Concurrence that this project qualifies for a Categorical Exclusion:

Environmental Programs Manager, FHWA	Date

Attachments:

1. Location Map & NEPA on Hold Memo
2. Current Plans and Study Footprint
3. Early Coordination
4. Tribal and Federal Properties
5. Studies and Coordination
6. Public Involvement
7. Other Section – Initiation and Inspection Reports/NEPA Submittal Checklist, NEPA Oracle Status Report, QA/QC Checklist

Distribution List (Check Applicable Ones)

	Project Management Division (All State Projects)
	Roadway Design Division (All State projects with the exception of projects from Traffic Division and Special Projects)
	Bridge Division (All State Bridge Projects)
	Traffic Division (For projects from Traffic Division)
X	Local Government Division (County, City, TAP or Special Projects)
X	Field Division Engineer (All Projects)
X	Right-of-Way Division (All Projects)
	Noise Specialist (For projects with noise studies)

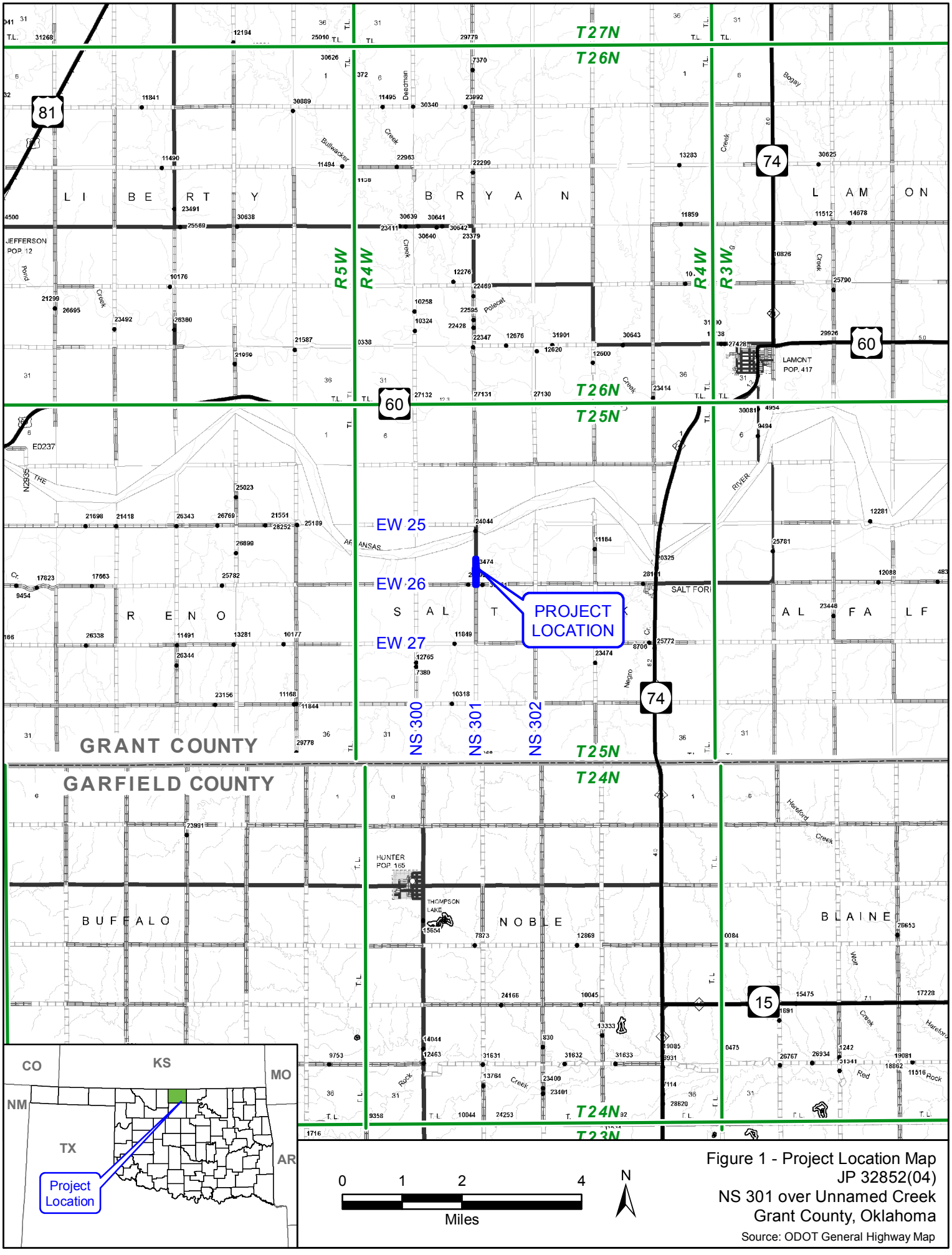


Figure 1 - Project Location Map
JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma
Source: ODOT General Highway Map

OKLAHOMA Transportation

Environmental Programs Division Office 405 521-3050

DATE: **March 23, 2021**

TO: **Melissa Davis, Local Government Division**

FROM: **Frank Guerrero, Environmental Programs Division**

SUBJECT: **Notification of NEPA on Hold**

County	**Grant**	State Job Piece No:	**32852(04)**
NEPA Project Manager	**Frank Guerrero**	Phone Number	**405-522-6547**
ODOT Field Division	**4**	Bridge NBI No. *(For County & State Projects)* & Location No. *(County Projects Only)*	**NBI 13474 27N3010E0250008**
Project Description from JPINFO (*Type of Construction & Project Extent)*	**Bridge and Approaches on NS 301 over Unnamed Creek, 0.2 Miles North and 2.9 Miles West of Salt Fork**		
Let Date (from Oracle)	**Unknown**		

Preliminary environmental studies have been completed for the above referenced project with the exception of the studies which require 30% plans before they can be completed.
Check applicable items

_X__ The NEPA process is on hold until the availability of 30% plans to complete some of the studies. Additional 6 months will be required to complete these studies.

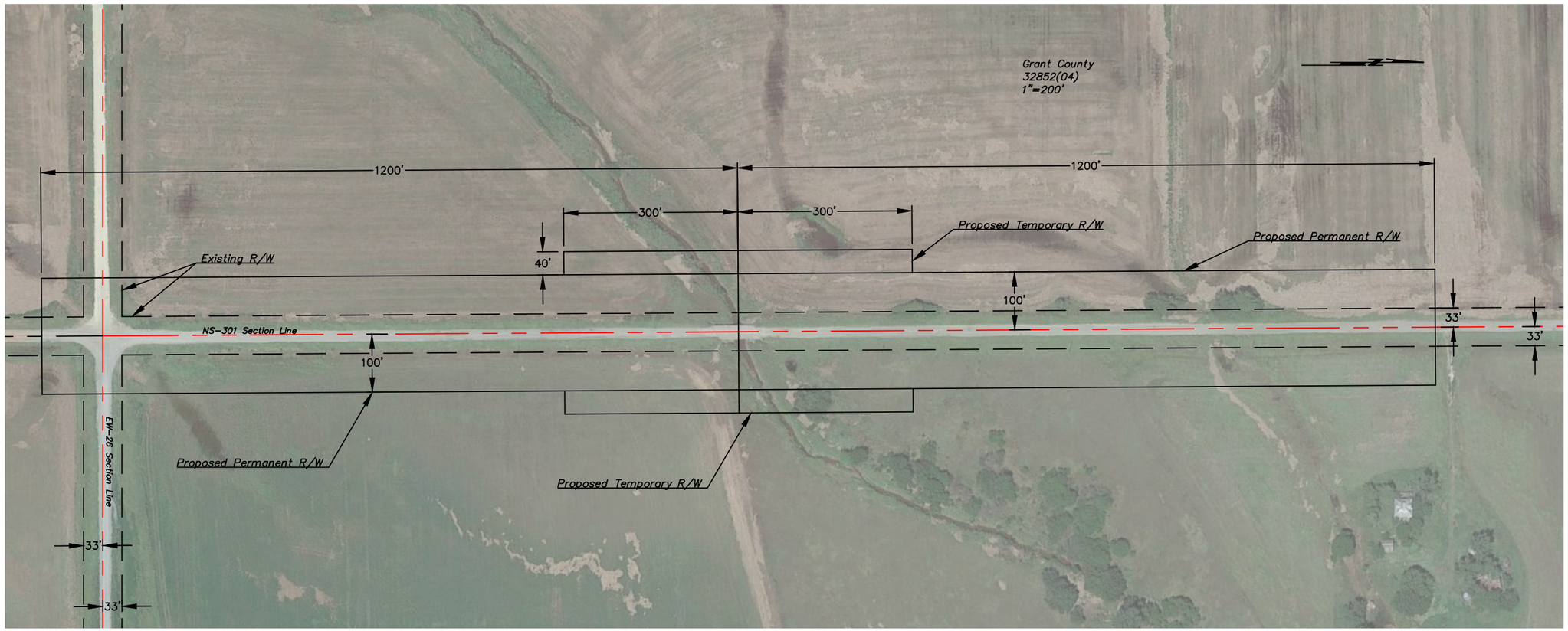
____ The NEPA process is on hold until the availability of 65% plans showing proposed final right-of-way. NEPA Document will be completed within 60 days of receipt of plans if the plans fall within the study footprint. Otherwise, additional time will be required to update the studies. Also, additional 60 days will be required if the plans show any potential Relocations.

Prepared by: Kirsten McCullough, Garver
Memo reviewed by the ODOT Environmental Project Manager Frank Guerrero Digitally signed by Frank Guerrero Date: 2021.03.24 13:48:05 -05'00'

Copy to: Director of Engineering – Tim Tegeler (For State Projects Only)
Engineering Manager, Roadway Design (State Projects only)
Engineering Manager, Bridge Design (State Projects only)
Field Division Engineer (State Projects Only)
Right-of-Way Division (All projects)
Local Government Division Engineer – Shelly Williams (Local Government Projects Only)
NEPA Consultant (if applicable)

RIGHT-OF-WAY PLANS OR FINAL PLANS AND

NEPA STUDY FOOTPRINT OR STUDY PLANS


Grant County
32852(04)
1"=200'
1200'
1200'
300'
300'
Proposed Temporary R/W
Proposed Permanent R/W
Existing R/W
40'
100'
33'
33'
NS-301 Section Line
100'
Proposed Permanent R/W
Proposed Temporary R/W
EW-26 Section Line
33'
33'

CRAIG FREDRICK – COUNTY COMMISSIONER
DISTRICT NO. 2

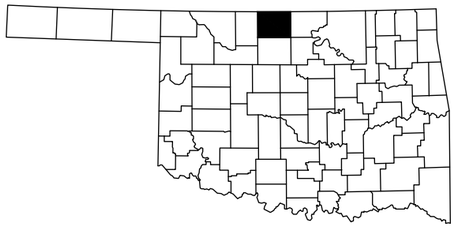
TYLER D. SCHRODER, P.E. 25837
CIRCUIT ENGINEERING DISTRICT 8
2901 N. VAN BUREN
ENID, OK. 73703

MELISSA DAVIS
LOCAL GOVERNMENT COORDINATION DIVISION
OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	XXX	1	18

DESIGN DATA

ADT 2022=220
ADT 2042=327
DESIGN SPEED=55 M.P.H.
TERRAIN– FLAT



SURVEY DATA

1. HORIZONTAL CONTROL
   A. HORIZONTAL CONTROL FOR THIS SURVEY IS THE ESTABLISHED SECTION CORNERS ALONG THE CONSTRUCTION REFERENCE LINE & SECTION LINE
2. VERTICAL CONTROL
   A. LEVEL DATUM IS MEAN SEA LEVEL (U.S.C. & G.S.)

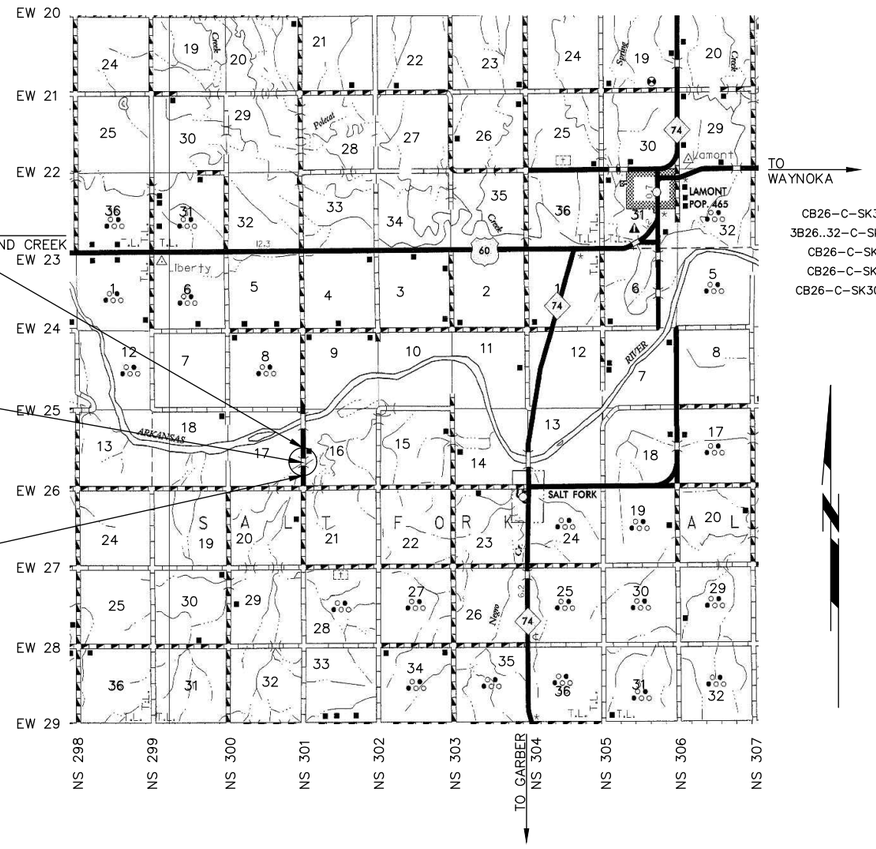
STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED

COUNTY BRIDGE

FEDERAL AID PROJECT NO. XXXXXX
BRIDGE AND APPROACH PLANS
GRANT COUNTY
UNNAMED CREEK
STATE JOB NO. 32852(04)
(OLD NBI NO. 13474)(NEW NBI NO. XXXX)
LOCATION NO. 27N3010E0250008
LAT. 36° 38' 23" N LONG. 97° 38' 31" W

INDEX OF SHEETS



STA. 117+50.00 END CONSTRUCTION
F.A. PROJ. NO.

END BRIDGE STA. 110+38.69
BRIDGE LENGTH 107'–7 5/16"
BEGIN BRIDGE STA. 111+46.30

STA. 104+00.00 BEGIN CONSTRUCTION
F.A. PROJ. NO.

THE FOLLOWING STANDARDS SHALL BE USED:

2019 ROADWAY	2009 TRAFFIC		2009 MAINTENANCE
SSS–1–1	DU1–1–00	TCS6–1–02	GRAU1–1–00
TSD–2–0	TCS1–1–01	TCS7–1–02	GRH1–1–00
TSC2–3–2	TCS2–1–00	TCS8–1–00	GRH2–1–00
	TCS4–1–01	TCS9–1–01	GRH3–1–00
	TCS5–1–00		

2009 BRIDGE

CB26–C–SK30–ABUT–PC2–02E	CB26–C–SK0..30–PCB–IV–105–01E	CB26–C–SK30–SPR–QUAN–PCB–2–01E	HP1–2–01E
3B26..32–C–SK30–ABUT–MISC–01E	CB26..32–C..I–SK0..30–PCB–DTL–1–01E	CB26..32–C–SK30–WING–PC2–01E	TR3–2–01E
CB26–C–SK30–DKSLB–1–01E	CB26..32–C..I–SK0..30–PCB–DTL–2–01E	CB26–C–SK30–XSECT–PC234–01E	
CB26–C–SK30–DKSLB–2–01E	CB26–C–SK30–LSECT–PCB–01E	CB26–C–SK30–DIA–END–PC234–01E	
CB26–C–SK30–DKSLB–BLIST–01E	CB26–C–SK30–SPR–QUAN–PCB–1–01E	CB26–C–SK0..30–DIA–INT–PCB–01E	
	CB26..32–C..I–SK0..30–GRAU–BC–00E	CB26–C–SK0..30–BRG–PC2–01E	

DATE	
COMM. DIST. 1	
COMM. DIST. 2	
COMM. DIST. 3	
ATTEST	
COUNTY CLERK	

SCALES

PLAN	1"=50'
PROFILE HOR.	1"=50'
VER.	1"=5'
LAYOUT MAP	1"=5,280'

CONVENTIONAL SIGNS

PROPOSED ROAD
RAILROADS
RANGE & TOWNSHIP
SECTION LINES
QUARTER SECTION LINES
FENCES
GROUND LINE
EXISTING ROADS
BASE LINE
GRADE LINES
TELEPHONE & TELEGRAPH
POWER LINES
OIL WELLS
BUILDINGS
DRAINAGE STRUCTURES–IN PLACE
DRAINAGE STRUCTURES–NEW
Press. R/W
RIGHT–OF–WAY LINES–EXISTING
R/W
RIGHT–OF–WAY LINES–NEW
RIGHT–OF–WAY MARKERS–IN PLACE
RIGHT–OF–WAY MARKERS–REMOVE & RESET
RIGHT–OF–WAY MARKERS–NEW
CONTROLLED ACCESS
RIGHT–OF–WAY FENCE

PROJECT LENGTHS BASED ON CRL

ROADWAY LENGTH	1,242.39 FT.	0.235 MI.
BRIDGE LENGTH	107.61 FT.	0.020 MI.
PROJECT LENGTH	1,350.00 FT.	0.255 MI.
EXCEPTIONS	NONE	
EQUATIONS	NONE	

"2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION–ENGLISH GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, DECEMBER 18, 2019."

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

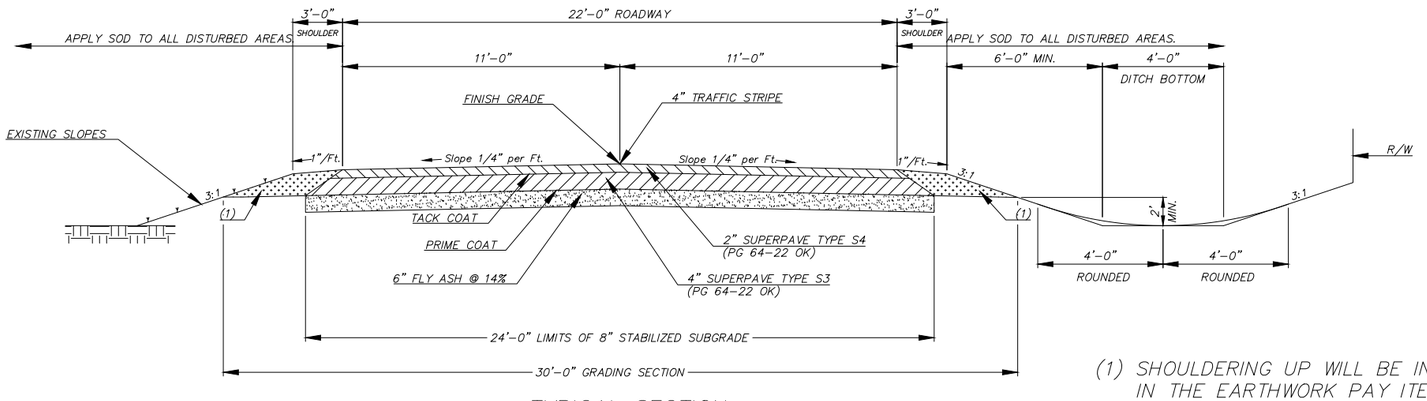
65% PLANS
3/9/22

TYLER D. SCHRODER
REGISTERED PROFESSIONAL ENGINEER NO. 25837
J/P NO. 32852(04)

8

CIRCUIT ENGINEERING DIST. 8
2901 N. VAN BUREN
ENID, OK 73703
(580) 237–4810

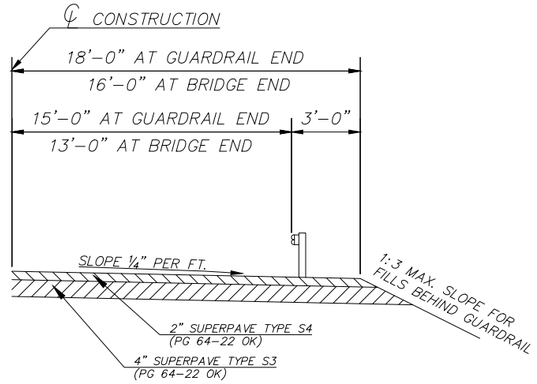
OKLAHOMA DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED	DATE APPROVED
BY	BY
CHIEF ENGINEER	DIVISION ADMINISTRATION



TYPICAL SECTION

(1) SHOULDERING UP WILL BE INCLUDED IN THE EARTHWORK PAY ITEM.

SUMMARY OF MAINLINE SURFACING QUANTITIES		
STATION EXTENT	LENGTH	T.B.S.C.
	FT.	TONS
104+00.00 TO 110+37.38	637.38	0.00
111+47.61 TO 117+50.00	602.39	0.00
SHEET TOTALS	1,239.77	0.00



SHOULDER WIDENING FOR GUARDRAIL

GUARDRAIL SCHEDULE				
SHEET	STATION TO STATION	ANCHOR UNITS		LENGTH OF RAIL
		TYPE A	TYPE D-BF	
		EA.	EA.	L.F.
R003	109+13.44 TO 110+13.44 LT.	1.00	1.00	100.00
R003	109+27.98 TO 110+27.98 RT.	1.00	1.00	100.00
R003	111+57.01 TO 112+57.01 LT.	1.00	1.00	100.00
R003	111+71.54 TO 112+71.54 RT.	1.00	1.00	100.00
SHEET TOTALS		4.00	4.00	400.00

SUMMARY OF EARTHWORK		
*EMBANKMENT +20%	0.00	CY.
UNCL. EXCAVATION (RDY)	0.00	CY.
EXCESS MATERIAL FROM BR. UNCL. EXCAVATION	0.00	CY.
UNCLASSIFIED BORROW	0.00	CY.

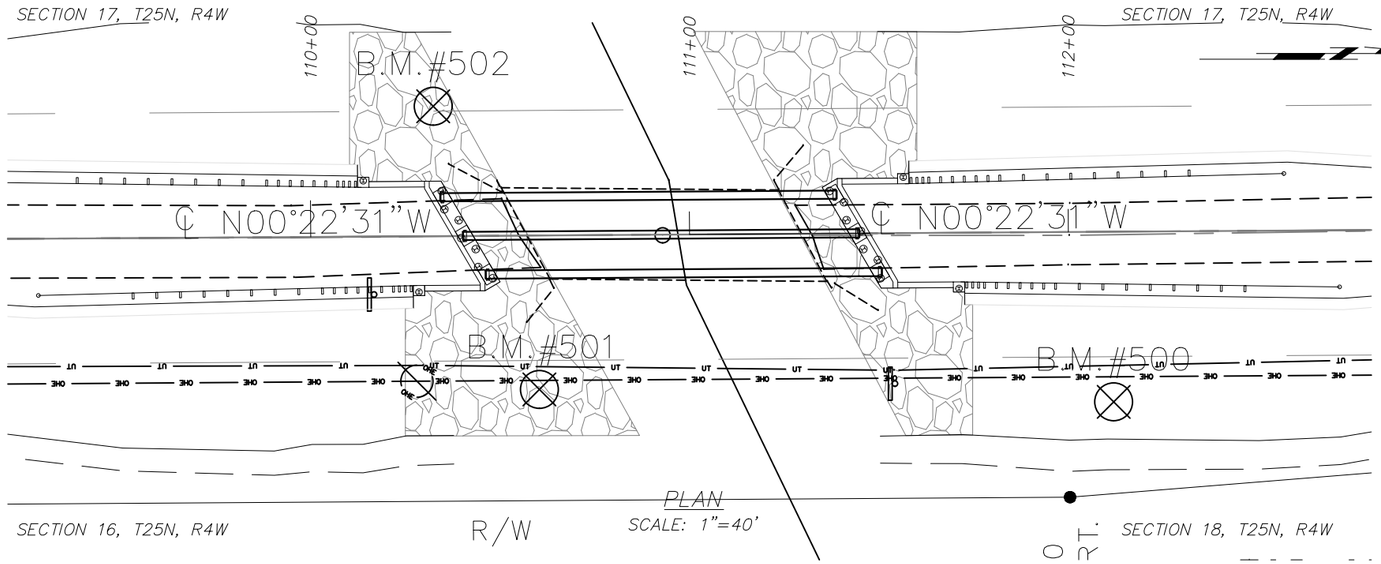
*INCLUDES 135.00 C.Y. OF EMBANKMENT FOR FIELD ENTRANCES AND DRIVES.

Surfac

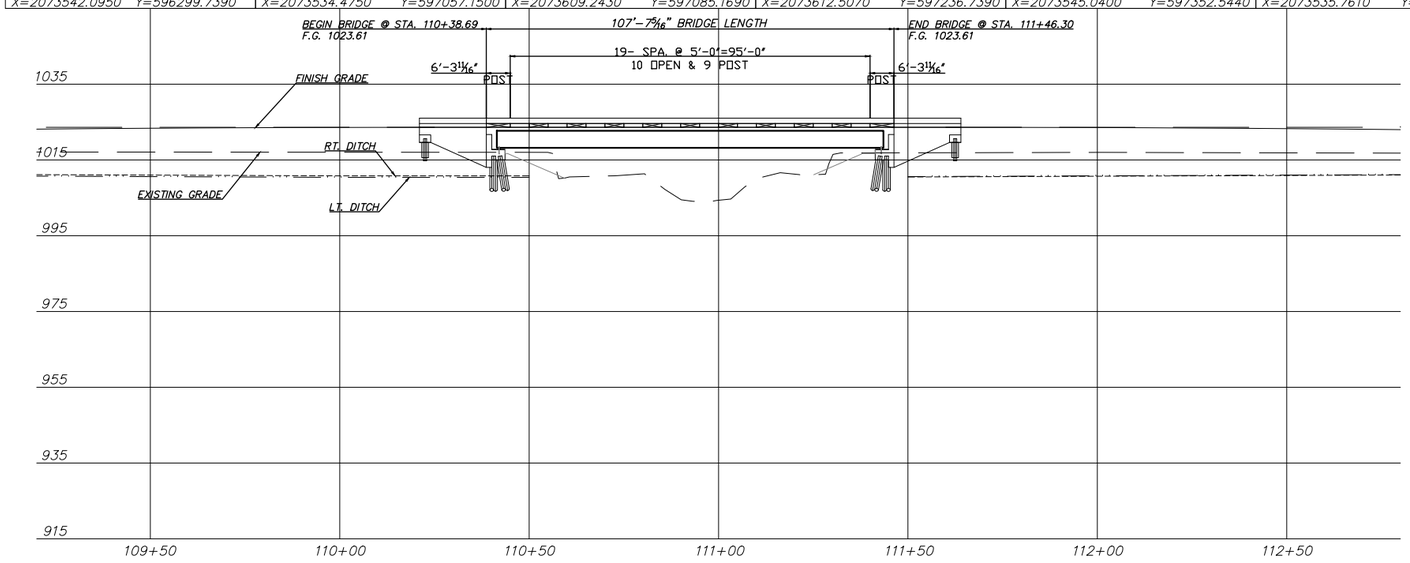
GRANT COUNTY UNNAMED CREEK

TYPICALS & SCHEDULES

J/P NO. 32852(04) SHEET NO. 0002



CONTROL POINT NO. 1	BENCHMARK NO. 502	BENCHMARK NO. 501	BENCHMARK NO. 500	CONTROL POINT NO. 2	CONTROL POINT NO. 3
1/2" IRON PIN 31.62 FT. LT.	1/2" IRON PIN 34.28 FT. LT.	1/2" IRON PIN 34.28 FT. LT.	1/2" IRON PIN 44.93 FT. RT.	1/2" IRON PIN 21.78 FT. LT.	1/2" IRON PIN 24.83 FT. LT.
STA. 102+75.15 ELEV. 1012.81	STA. 110+32.56 ELEV. 1010.51	STA. 110+32.56 ELEV. 1012.16	STA. 112+11.66 ELEV. 1012.16	STA. 113+27.90 ELEV. 1014.22	STA. 122+77.50 ELEV. 1014.13
X=2073542.0950 Y=596299.7390	X=2073534.4750 Y=597057.1500	X=2073609.2430 Y=597085.1690	X=2073612.5070 Y=597236.7390	X=2073545.0400 Y=597352.5440	X=2073535.7610 Y=598302.1060



NOTE:
SEE SHEET NO. B00X – B00X
FOR BORING INFORMATION

ELEVATION
SCALE: 1"=40'

B–1 PENETROMETER TEST	B–2 PENETROMETER TEST
50/0.25", 50/0.13", –	50/0.63", 50/0.25", –
50/0.25", 50/0.25", –	50/1.88", 50/1.75", –
50/3.25", 50/2.38", –	50/1.0", 50/0.5", –
50/2.25", 50/0.88", –	50/0.5", 50/0.13", –
50/0.5", 50/0.38", –	50/0.63", 50/0.25", –
50/0.25", 50/0.88", –	50/0.63", 50/0.25", –

PAY QUANTITIES

ITEM		DESCRIPTION	UNIT	ABUTMENT	SUPER STRUCTURE	TOTAL QUANTITY
501(B)	1300	SUBSTRUCTURE EXCAVATION COMMON	C.Y.			
501(G)	1800	CLSM BACKFILL	C.Y.			
503(A)	4240	PRESTRESSED CONCRETE BEAMS (TYPE IV)	L.F.			
504(D)	5410	CONCRETE RAIL (TR3)	L.F.			
506(A)	7200	STRUCTURAL STEEL	LB.			
507(A)	8210	WEATHERING STEEL FIXED BEARING ASSEMBLY	EA.			
507(B)	8310	WEATHERING STEEL EXP. BEARING ASSEMBLY	EA.			
509(A)	0210	CLASS AA CONCRETE	C.Y.			
509(B)	0320	CLASS A CONCRETE	C.Y.			
511(A)	2210	REINFORCING STEEL	LB.			
514(A)	5210	PILES, FURNISHED (HP10X42)	L.F.			
514(A)	5220	PILES, FURNISHED (HP12X53)	L.F.			
514(B)	5310	PILES, DRIVEN (HP10X42)	L.F.			
514(B)	5320	PILES, DRIVEN (HP12X53)	L.F.			
514(L)	6300	PILES SPLICE, H–PILE (NON–BIDDABLE)	EA.			
601(B)	1230	TYPE I–A PLAIN RIPRAP	TON			
601(C)	1310	TYPE I–A FILTER BLANKET	TON			
613(H)	6205	6" PERFORATED PIPE UNDERDRAIN ROUND	L.F.			
613(I)	6310	6" NON–PERFORATED PIPE UNDERDRAIN ROUND	L.F.			
619(D)	6700	REMOVAL OF EXISTING BRIDGE STRUCTURE	L. SUM			

LOADING DATA

ABUTMENT PILES (HP 12X53):

FACTOR PILE REACTION = 83.9 TONS/PILE. ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. STEEL PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL UNTIL THE REQUIRED FACTOR PILE CAPACITY OF 83.9 TONS PER PILE IS OBTAINED.

DESIGN DATA

CONCRETE (CLASS A) F'C=3,000 PSI
CONCRETE (CLASS AA) F'C=4,000 PSI
REINFORCING STEEL (GR 60) FY=60,000 PSI
STRUCTURAL STEEL (GR 50W) FY=50,000 PSI

LOADING: HL–93 20 PSF FUTURE WEARING SURFACE
5 PSF STAY–IN–PLACE FORMS

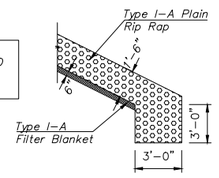
DESIGN SPECIFICATIONS – AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION WITH 2010 INTERIMS, EXCEPT AS MODIFIED BY CURRENT ODOT BRIDGE DIVISION DESIGN POLICIES.
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
LFD OPERATING RATING: HS 43.8

HYDRAULIC DATA

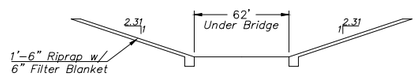
D.A. = 15.02 SQ. MI.
SCS CONTROLLED D.A. = 0.00 SQ. MI.
EFFECTIVE DRAINAGE AREA = 15.02 SQ. MI.
Q25 = 4,970.00 C.F.S.
V25 = 7.42 F.P.S.
Q25 CALC. B.W. 1,017.09 FT.
Q50 = 7,160.00 C.F.S.
V50 = 8.03 F.P.S.
Q50 = CALC. B.W. 1,017.19 FT.
Q100 = 9,070.00 C.F.S.
V100 = 8.73 F.P.S.
Q100 = CALC. B.W. 1,017.34 FT.
QO.T. = 4,970.00 C.F.S.
OVERTOPPING ELEV. (LOW) = 1,016.30 FT.
VO.T. (BRIDGE) = 7.42 F.P.S.
EXTREME HIGH WATER ON RECORD = N/A
MAXIMUM SCOUR DEPTH = 14.74 FT.

CONTRACTOR NOTE:
EXTEND RIP RAP TO THE SECOND GUARDRAIL POST.

NOTE:
"TOEING–IN" APPLIES TO THE ENTIRE LENGTH OF THE BASE OF RIPRAP.



DETAIL OF TYPE I–A PLAIN RIPRAP



TYPICAL CHANNEL SECTION AT BRIDGE

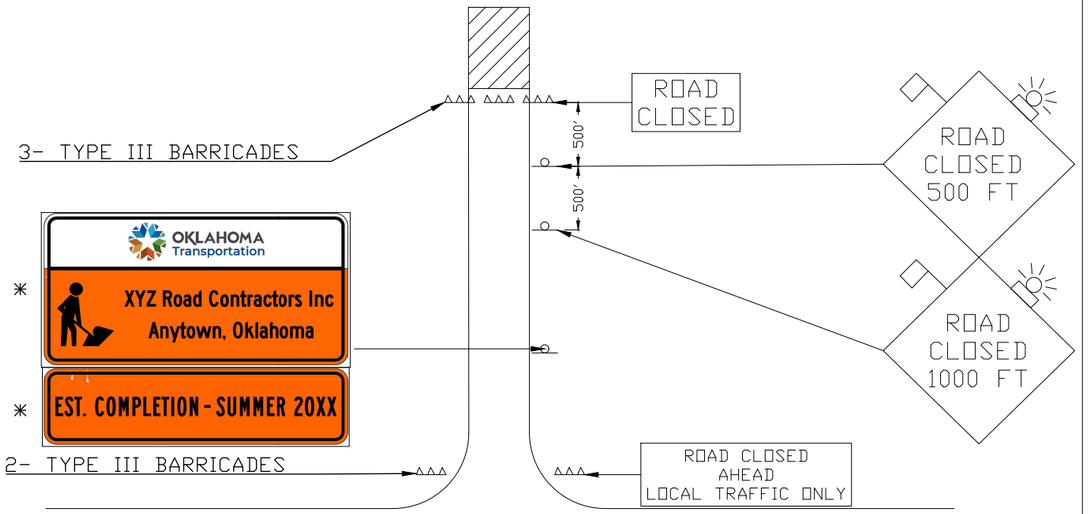
GRANT COUNTY UNNAMED CREEK

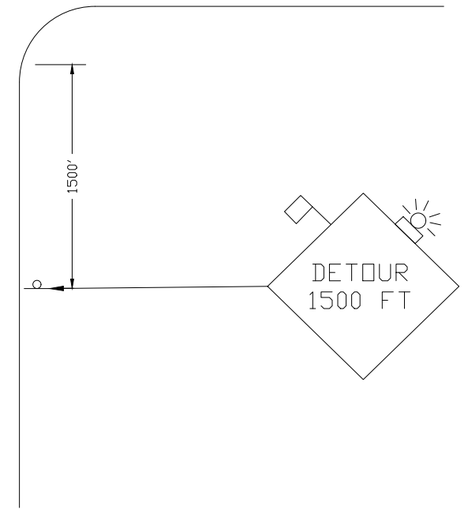
GENERAL PLAN & ELEVATION
CL STA. 110+92.50
105' SLAB SPAN, SKEW 30°
W/26'–0" CL. ROADWAY W/TR3 CONC. TRAFFIC RAILS

J/P NO. 32852(04) SHEET NO. B001

SUMMARY OF CONSTRUCTION SIGNS 6.26 TO 15.99 S.F.						
DESCIPTION	TYPE	DIM.	SIZE (S.F.)	NO.	DAYS	S.D.
ROAD CLOSED	R11-2	48X30	10.00	6.00	120.00	720.00
ROAD CLOSED X MILES AHEAD LOCAL TRAFFIC ONLY	R11-3A	60X30	12.50	4.00	120.00	480.00
ROAD CLOSED 1000 FT	W20-3	36X36	9.00	2.00	120.00	240.00
ROAD CLOSED 500 FT	W20-3	36X36	9.00	2.00	120.00	240.00
DETOUR 1500 FT	W20-2	36X36	9.00	2.00	120.00	240.00
EST. COMPLETION - SUMMER 20XX		72X18	9.00	2.00	120.00	240.00
SIGNS TO BE USED AT THE DISCRETION OF THE ENGINEER		36X36	9.00	2.00	120.00	240.00
					SHEET TOTALS	2,400.00

SUMMARY OF CONSTRUCTION SIGNS 16.00 TO 32.99 S.F.					
DESCIPTION	DIM.	SIZE (S.F.)	NO.	DAYS	S.D.
OKLAHOMA, XYZ ROAD CONTRACTORS INC.	72X36	18.00	2.00	120.00	240.00
				SHEET TOTALS	240.00





KEY:
- SIGN
- WORK AREA
- TYPE III BARRICADES

TYPICAL APPLICATION
COUNTY ROAD (NO DETOUR IS ESTABLISHED)

NOTES:
WHEN A DETOUR ROUTE IS ESTABLISHED IN CONJUNCTION WITH THE CONSTRUCTION, THE DETOUR ROUTE SHALL BE SHOWN IN THE PLANS. EITHER THE CONTRACTOR OR THE COUNTY WILL BE RESPONSIBLE FOR THE DTOUR SIGNING AND THIS RESPONSIBILITY SHALL BE STATED IN THE PLANS.

THE CONSTRUCTION SIGNING SHOWN ON THIS PLAN SHEET AND FROM THE OPPOSITE DIRECTION (NOT SHOWN) SHALL ALWAYS BE THE RESPONSIBILITY OF THE CONTRACTOR.

* TO BE FILLED IN WITH THE CORRECT CONTRACTORS INFORMATION AND THE CORRECT COMPLETION DATE.

ALL BARRICADES SHALL BE LIGHTED.

GRANT COUNTY UNNAMED CREEK

COUNTY ROAD CLOSURE

J/P NO. 32852(04) SHEET NO. T001

EARLY COORDINATION LETTERS AND RESPONSES

GRANT COUNTY BOARD OF COMMISSIONERS

112 E. Guthrie – Room 104 – Courthouse
Medford, Oklahoma 73759
Courthouse Phone 580-395-2214 – Courthouse FAX 580-395-2603
Dessie Scott, Executive Assistant

Max L. Hess
District 1 Commissioner
Shop phone 580-594-2925
Shop fax 580-594-2926
Cell phone 580-541-4740

Cindy R. Bobbitt
District 2 Commissioner
Shop phone 580-395-2859
Shop fax 580-395-2972
Cell phone 580-541-8950
www.grantcountyok.com

Steve Stinson
District 3 Commissioner
Shop phone 580-532-6499
Shop fax 580-532-6497
Cell phone 580-532-1044

June 29, 2020

Circle #: 385
NBI: 13474
Project; 32852

Clay Muegge
C/O Bonnie Muegge
16489 CR 1060
Lamont, Ok 74643

RE: Bridge located on CR 1010 just north of Cotton Rd

Dear Grant County Landowner

This letter is to notify you that Grant County is beginning the survey of right-of-way phase on the above referenced project. Based on the design plan, it has been determined that the property you may own or have an interest in could be affected by the new right-of-way requirements

As you know, Grant County faces a great challenge to ensure that the county can build and maintain a safe, efficient infrastructure system that allows Oklahoma and Grant County to remain competitive in an increasingly global marketplace.

Soon a representative with Circuit Engineering #8 or Grant County may be contacting you and/or surveying the right-of-way near your property. If you have a tenant that farms/ranches your property, please let them know about this project and the surveying.

As the Grant County District 2 Commissioner I would love the opportunity to explain this project, answer any questions you may have, and discuss any easement issues that may be required across any part of your property.

Should you have any questions, please contact me at 580-541-8950 or by email cindybobbitt8950@gmail.com, a business card is also enclosed.

Respectfully,

Cindy R Bobbitt

Cindy R Bobbitt

Enclosure

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June 29, 2020

Commission of Land Office
Marissa Belknap, Real Estate Division
204 N Robinson, Suite 900
OKC, Ok 73102

Bridge #: 385
NBI: 13474
Project: 32852

RE: Bridge located on CR 1010 just north of Cotton Rd

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Cindy R Bobbitt

Cindy R Bobbitt

Enclosure

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Jerry M. Shaffer
District 3 Commissioner
Shop phone 580-532-6499
Shop fax 580-532-6497
Cell phone 580-554-5400

Landowners: Clay Muggee
State of Oklahoma

Bridge: 385
NBI: 13474
Project:32852

To: Melissa Davis,
From: Grant County District 2

Melissa

The landowners mentioned above, have been notified of the pending bridge project.
If you need anything else, please let us know.

Sincerely,

Cindy Bobbitt
Commissioner
Grant County District 2

CULTURAL RESOURCES STUDIES

OKLAHOMA Transportation **Oklahoma Department of Transportation**
Environmental Programs Division, Office 405.521.3050 / Fax 405.522.5193

DATE: February 24, 2022

TO: Kirsten McCullough, Environmental Project Manager

FROM: Greg Maggard, Cultural Resources Program

SUBJECT: Grant County Project JP 32852(04): Proposed Improvements to the Bridge and Approaches on County Road NS-301 over an Unnamed Creek, 0.2 Miles North and 2.9 Miles West of Salt Fork, Oklahoma.

The Oklahoma Department of Transportation (ODOT) completed Section 106 consultation on behalf of the Federal Highway Administration (FHWA) for proposed road and bridge improvements to County Road NS-301 over an unnamed tributary to the Salt Fork of the Arkansas River in Grant County, Oklahoma. The project begins approximately 400 feet north of the NS-301/EW-260 junction and extends south approximately 1,348 feet. The proposed improvements include widening and resurfacing of the current roadway, adding shoulders, and replacing the existing bridge; 3.5 acres were surveyed. ODOT determined the proposed project will have **no effect on historic properties**.

As a result of the cultural resources survey, no archaeological sites or buildings were identified. One structure, the existing bridge on NS-301 (ODOT Structure No. 27N3010E0250008 [NBI No. 13474]) was documented.

The existing NS-301 bridge over an unnamed tributary of the Salt Fork of the Arkansas River (ODOT Structure No. 27N3010E0250008 [NBI No. 13474]) is a timber stringer/multi-beam or girder bridge constructed in 1955 and reconstructed in 1998. The bridge was documented on an Oklahoma Historic Bridge Inventory Form and is recommended **not eligible** for National Register of Historic Places (NRHP) listing under Criterion A, B, C, or D.

Consultation with the State Historic Preservation Office (File #0644-22) and the State Archaeologist (OAS FY22-0616) resulted in concurrence with our assessment and determination.

ODOT-CRP also consulted with the following tribes: Cheyenne & Arapaho Tribes, Osage Nation, United Keetoowah Band of Cherokee Indians, and the Wichita & Affiliated Tribes.

GJM

Oklahoma Historical Society *Founded May 27, 1893*
State Historic Preservation Office
Oklahoma History Center • 800 Nazih Zuhdi Drive • Oklahoma City, OK 73105-7917
(405) 521-6249 • Fax (405) 522-0816 • www.okhistory.org/shpo/shpom.htm

January 19, 2022

Mr. Scott Sundermeyer, Director
ODOT Cultural Resources Program
3200 Marshall Avenue, Room 110
Norman, OK 73019

RE: File #0644-22; Grant County Road NS-301 Improvements & Bridge Replacement Project: JP #32852(04)

Dear Mr. Sundermeyer:

We have received and reviewed the documentation concerning the referenced project in Grant County. Additionally, we have examined the information contained in the Oklahoma Landmarks Inventory (OLI) files and other materials on historic resources available in our office. We concur with your opinion that there are no historic properties affected by the referenced project.

Thank you for the opportunity to comment on this project. We look forward to working with you in the future.

If you have any questions, please contact Kristina Wyckoff, Historical Archaeologist, at 405/521-6381.

Should further correspondence pertaining to this project be necessary, please reference the above underlined file number. Thank you.

Sincerely,

Lynda Ozan
Deputy State Historic
Preservation Officer

LO:jr

Oklahoma Archeological Survey

THE UNIVERSITY OF OKLAHOMA

January 6, 2022

Scott Sundermeyer, Director
ODOT Cultural Resources Program
3200 Marshall Ave, Room 110
Norman, OK 73019

Re: OAS FY22-0616 ODOT *Proposed Improvements to the Bridge and Approaches on County Road NS-301 Over an Unnamed Creek.* Report by Mitchell Miranda & Kory Van Hemert (Cox McLain Environmental).
ODOT J/P: 32852(04)
Legal Description: Sections 16-17, T25N, R4W, Grant County, Oklahoma.

Dear Mr. Sundermeyer,

This agency received the submitted ODOT cultural resources survey report of investigations regarding the above-referenced undertaking for review and comment. From the information provided, we understand that Cox McLain staff surveyed the 3.5-acre study area, which encompasses the Area of Potential Effect (APE) on October 12, 2021. No archaeological sites were identified in the proposed project area. ODOT recommends the project as proposed will have *No Effect on Historic Properties.*

I concur with the findings and recommendations as they pertain to prehistoric archaeological resources and defer opinion on overall project effects to the State Historic Preservation Office.

This review has been conducted in cooperation with the State Historic Preservation Office, Oklahoma Historical Society. You must also have a letter from that office to document your consultation pursuant to Section 106 of the National Historic Preservation Act.

Sincerely,

Kary L. Stackelbeck, Ph.D.
State Archaeologist

cc: SHPO

OKLAHOMA Transportation

ODOT CULTURAL RESOURCES PROGRAM
3200 Marshall Ave, Room 110
Norman 73019
www.odotculturalresources.info

January 4, 2022

Ms. Lynda Ozan
Deputy State Historic Preservation Officer
State Historic Preservation Office
Oklahoma Historical Society
800 Nazih Zuhdi Drive
Oklahoma City, Oklahoma 73105-7917

Dear Ms. Ozan:

Re: Grant County FHWA Project JP 32852(04): Proposed Improvements to the Bridge and Approaches on County Road NS-301 over an Unnamed Creek, 0.2 Miles North and 2.9 Miles West of Salt Fork, Oklahoma; submittal for comment under Section 106 of the National Historic Preservation Act.

Attached is a cultural resources survey report for the referenced project prepared by Cox McLain Environmental Consulting, Inc.

The proposed undertaking involves improvements to the crossing of NS-301 over an unnamed tributary to the Salt Fork Arkansas River in Grant County, Oklahoma. The proposed project is located 0.2 Miles North and 2.9 Miles West of Salt Fork, Oklahoma, beginning approximately 400 feet north of the NS-301/EW-260 junction and extending south approximately 1,348 feet. The proposed improvements include widening and resurfacing of the current roadway, add shoulders, and replace the existing bridge. The existing facility consists of two 9-foot wide paved driving lanes with no shoulders. The proposed facility will consist of two 11-foot paved driving lanes with 3-foot sod shoulders. The existing bridge (ODOT Structure #27N3010E0250008 [NBI 13474]) will be replaced on existing alignment with a new 28-foot-wide concrete span structure.

The area of potential effect (APE) as defined by 36 CFR 800.16(d) is the NEPA study area, which is described in the report. In total, the APE for the currently proposed project encompasses approximately 3.5 acres.

As a result of the cultural resources study, no archaeological sites or buildings were identified.

The NS-301 bridge over an unnamed tributary of the Salt Fork of the Arkansas River (ODOT Structure No. 27N3010E0250008 [NBI No. 13474]) is a timber stringer/multi-beam or girder bridge constructed in 1955 and reconstructed in 1998. The bridge was documented on an Oklahoma Historic Bridge Inventory Form and is recommended **not eligible** for National Register of Historic Places (NRHP) listing under Criterion A, B, C, or D.

Pursuant to 36 CFR 800.4(d)(1), and based upon the results of this study, it is our opinion that the project, as proposed, will have **no effect** on historic properties. We respectfully request your concurrence or comments to our opinion.

If you have any questions regarding this project, please contact the Cultural Resources Program project reviewer, Dr. Greg Maggard, at 405-301-9056 (gmaggard@odot.org) or Mr. Scott Sundermeyer at 405-325-7201 (ssundermeyer@odot.org).

Sincerely,

Scott Sundermeyer
Director, ODOT Cultural Resources Program

cc: State Archaeologist

OKLAHOMA DEPARTMENT OF TRANSPORTATION

CULTURAL RESOURCES SURVEY REPORT

Grant 32852(04): Proposed Improvements to the Bridge and Approaches on County Road NS-301 over an Unnamed Creek, 0.2 Miles North and 2.9 Miles West of Salt Fork, Oklahoma.

Prepared by:
Mitchell Miranda, PhD, RPA and Kory Van Hemert, MSc of Cox|McLain Environmental Consulting, Inc.

Principal Investigator(s):
Joshua Boyd (Archeology)

December 13, 2021

Lead Federal Agency: Federal Highway Administration

OKLAHOMA

County:	Grant
J/P#:	32852(04)
Surveyed by:	Mitchell Miranda, Jeremiah Perkins, and Robert Nold
Survey Date:	10/12/2021
Prime Consultant:	Cox|McLain Environmental Consulting, Inc.

MANAGEMENT SUMMARY:
Grant County, in cooperation with ODOT, proposes a bridge replacement and approach improvements on County Road (CR) NS-301 over an unnamed tributary to the Salt Fork Arkansas River in Grant County, Oklahoma. The existing bridge (ODOT Structure #27N3010E0250008 [NBI 13474]) on NS-301 over an unnamed tributary of the Salt Fork of the Arkansas River is rated as structurally deficient and is currently load posted at 12 tons. The existing asphalt roadway is 18 feet wide with two 9-foot-wide driving lanes and no shoulders. Existing average annual daily traffic (AADT) is 50 vehicles per day (vpd) with a 20-year future projected AADT of 75 vpd. The purpose of this project is to correct a structurally deficient bridge.

The project proposes to replace the existing bridge (ODOT Structure #27N3010E0250008 [NBI 13474]) with a 28-foot-wide bridge on existing alignment. The existing NS-301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with 3-foot-wide outside sod shoulders on existing alignment. In addition, a roadway-sized drainage structure located approximately 0.15 mile north of the existing bridge will also be replaced.

The project is located along the east-west dividing line of the southern ½ of Sections 16 and 17, Township 25N, Range 4W.

The study area is approximately 1,348 feet (411 meters) long, beginning approximately 400 feet (121 meters) north of the junction of CR EW-260 and CR NS-301. The study area has variable widths, ranging from 140 to 66 feet (43 meters to 20 meters) from centerline and covers approximately 3.5 acres.

Cultural resources fieldwork was completed in October of 2021. The fieldwork was conducted in accordance with the standards in the ODOT-CRP Procedure Manual (2017) and consisted of one transect on either side of CR NS-301, north and south of the creek. The placement of shovel test units prioritized certain areas, particularly those closest to the tributary. Shovel test units were placed at intervals of 98.4 feet (30 meters) within the study area; no archaeological material was encountered during the survey on or below the ground surface anywhere within the study area.

No bucket auger tests were excavated along CR NS-301 on either side of the tributary due to the lack of potential for the area to contain buried soil horizons.

The existing bridge on NS-301 over an unnamed tributary to the Salt Fork of the Arkansas River (ODOT Structure #27N3010E0250008 [NBI 13474]) is a timber stringer/girder structure constructed in 1955 and reconstructed in 1998. The bridge has been documented on an Oklahoma Historic Bridge Inventory Form and is recommended **not eligible** for NRHP listing under Criterion A, B, C, or D.

CMEC recommends that no further cultural resources work is necessary at this time and that the proposed roadway improvement project be allowed to continue as planned.

1. PROJECT DESCRIPTION:

Grant County, in cooperation with ODOT, proposes a bridge replacement and approach improvements on County Road (CR) NS-301 over an unnamed tributary to the Salt Fork Arkansas River in Grant County, Oklahoma. The existing bridge (ODOT Structure #27N3010E0250008 [NBI 13474]) on NS-301 over an unnamed tributary of the Salt Fork of the Arkansas River is rated as structurally deficient and is currently load posted at 12 tons. The existing asphalt roadway is 18 feet wide with two 9-foot-wide driving lanes and no shoulders. Existing average annual daily traffic (AADT) is 50 vehicles per day (vpd) with a 20-year future projected AADT of 75 vpd. The purpose of this project is to correct a structurally deficient bridge.

The project proposes to replace the existing bridge (ODOT Structure #27N3010E0250008 [NBI 13474]) with a 28-foot-wide bridge on existing alignment. The existing NS-301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with 3-foot-wide outside sod shoulders on existing alignment. In addition, a roadway-sized drainage structure located approximately 0.15 mile north of the existing bridge will also be replaced.

The project is located along the east-west dividing line of the southern ½ of Sections 16 and 17, Township 25N, Range 4W.

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The existing bridge on NS-301 over an unnamed tributary to the Salt Fork of the Arkansas River (ODOT Structure #27N3010E0250008 [NBI 13474]) is a timber stringer/girder structure constructed in 1955 and reconstructed in 1998. The bridge has been documented on an Oklahoma Historic Bridge Inventory Form and is recommended **not eligible** for NRHP listing under Criterion A, B, C, or D.

Legal Location:	Sections 16 and 17 of T25N R4W
U.S.G.S. Quadrangle:	Lamont NW (1969)

2. ENVIRONMENTAL SETTING:

Geomorphic/Physiographic Region:

The study area is located south of the Salt Fork Arkansas River where the Western Sand-Dune Belts converge with the Central Red-Bed Plains (Curtis et al. 2008). The Western Sand-Dune Belts are characterized by hummocky fields of grass-covered dunes, which typically occur along the northern sides of major rivers, being produced from Quaternary alluvium and terrace deposits. The Central Red-Bed Plains geomorphic province consists of Permian red shales and sandstones to form broad, flat plains and gently rolling hills (Woods et al. 2005). The study area lies within the Arkansas River drainage basin (Luza 2008). Water flow is intermittent through channelized streams that dissect the landscape (Woods et al. 2005). Broad, shallow, and low gradient channels with silty bottoms are common; and often go dry during late summer and autumn (Woods et al. 2005).

Geology and Soils:

According to United States Geological Survey (USGS) data, the study area is underlain by Early Permian-age Garber Sandstone, with approximately 85 square feet at the northern terminus underlain by Holocene-age Alluvium. Garber Sandstone consists of mostly orange-brown, fine- to medium-grained quartzose sandstone and conglomerate, grading northward into shale and calcitic siltstone. It has a thickness of approximately 600 feet (180 meters) (Johnson 2008). The alluvium consists of sand, silt, clay, and gravel with a maximum thickness ranging

from 30 to 80 feet (9 to 24 meters) along major streams and from 0 to 60 feet (0 to 18 meters) along minor streams (USGS 2021a).

Soils within the study area are mapped as a McLain-Drummond complex on 0 to 1 percent slopes. According to Natural Resource Conservation Service (NRCS) data, McLain soil series consist of very deep, moderately well drained, slowly permeable soils, with an Ap horizon from 0 to 35 cmbs (centimeters below surface) underlain by a Bt horizon from 35 to 149 cmbs. This overlies a Ck horizon extending from 149 cmbs to upwards of 190 cmbs. The Drummond soil series consists of deep, somewhat poorly drained soil, and has an Ap horizon from 0 to 22 cmbs underlain by a Bty horizon from 22 to 73 cmbs. The two horizons lie above a Bk horizon which extends from 73 to 96 cmbs. These levels overlay a Ck horizon from 96 cmbs to a depth of 157 cmbs. Both the McLain and Drummond soils are formed in material weathered from clayey and loamy alluvium and generally occur within floodplains (Soil Survey Staff 2021).

Vegetation:

The study area is located within the boundary connecting the Bottomland Forest and Tallgrass Prairie ecoregions, south of the Salt Fork Arkansas River (Woods et al. 2005). The Bottomland Forest ecoregion extends along major rivers throughout Oklahoma with large variations in vegetation diversity. Hackberry, sugarberry, red elm, and green ash are the most common botanical variants in the immediate area (Hoagland 2008). The Tallgrass Prairie ecoregion is located largely throughout eastern and northern Oklahoma, and is characterized by varied grasses including big bluestem, little bluestem, switchgrass, and Indiangrass. Additional common species include heath aster, lead plant, Indian plantain, small panic grass, pallid coneflower, ashy sunflower, Missouri goldenrod, and prairie clover (Hoagland 2008).

According to the Multi-Resolution Land Characteristics Consortium (MRLC 2020), the study area is composed of agricultural fields along the western edge of the study area, shrub and scrub expances along both sides of the roadway, and lightly developed land which includes the existing roadway and bridge structure.

An overview of aerial imagery of the study area in Google Earth (detailed below) corroborates the information provided by Woods et al. (2005), Hoagland (2008), and MRLC (2021), as much of the study area consists of open fields.

Surface Visibility:

XXX	0-25%	Brush, riparian vegetation and forest coverage
	25-50%	
XXX	50-75%	Low-grass pastures and fields
	75-100%	Eroded areas along drainages

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3. CULTURAL BACKGROUND:

Background Research:

XXX SHPO NRHP/DOE files.

XXX Bridge Evaluations, including Spans of Time, WPA Study, Program Comment, etc.

XXX Historic maps, aerial photographs, geology maps, etc.

Materials reviewed include the 1872 General Land Office (GLO) Survey Plat; Enid 1:250,000 (1955, 1958), Lamont NW 1:24,000 (1968, 2009, 2013, 2016, and 2018), and Ponca City 1:100,000 (1985) topographic maps; aerial photographs (1981, 1995, 2003, 2008, 2010, 2013, 2015, and 2017); National Register of Historic Places (NRHP) and Determination of Eligibility (DOE) listings; Oklahoma Landmark Inventory (OLI); Oklahoma historic bridge inventories; Google Earth imagery (OHS 2021a, 2021b, 2021c).

The CR NS-301 roadway is not depicted on the 1872 GLO Map and no buildings or other features are illustrated in or around the study area. The over an unnamed tributary of the Salt Fork of the Arkansas River is not mapped, though the Salt Fork Arkansas River is present just north of the study area (approximately 0.44 miles). The earliest topographic map (Enid, 1955) shows a roadway in the current alignment of CR NS-301. There are no buildings illustrated within or around the study area. The Enid 1958 map shows no notable changes. By 1968 (Lamont NW), one structure is present approximately 0.10 mile (168 meters) to the northeast of the project area. No structures are mapped within the project area, and there are no other notable changes. The 1985 Ponca City topographic map is at too coarse of a scale to illustrate fine features such as buildings. Subsequent topographic maps show no changes within or around the study area (BLM 2021, USGS 2021).

The earliest aerial imagery dates to 1981 and shows no buildings in the study area. The same structure illustrated on the 1968 Lamont NW topographic map is visible to the northeast of the project area, as well as an additional three structures. These structures are located within NW 1/4, Section 16, Township 25N, Range 4W, approximately 168 meters northeast of the study area footprint. The aerial imagery shows that the study footprint is flanked by pasture and agricultural land with some riparian vegetation around the tributary (NETR 2021).

The Oklahoma Historical Society (OHS) National Register of Historic Places (NRHP) and Determination of Eligibility (DOE) listings were consulted, and no such designated properties were identified in the study area (OHS 2021a, 2021b). Additionally, the Oklahoma Landmark Inventory (OLI) was consulted, and no previously surveyed resources were identified in the study area (OHS 2021c).

Disturbances to the study area appear to be confined to the construction and maintenance of CR NS-301, with the remainder of the study area utilized as farmland, no major disturbances are noted within.

There are no previously recorded sites within the study footprint or within one mile of the study footprint. There were no previous surveys recorded within the study footprint; however, there were surveys within a one-mile vicinity. These surveys include the following:

- The Monty Kirby WRP linear survey, conducted by Kraft in 2005 (located 0.7 miles northwest of the study area)
- The BRO-27(181)C survey, conducted by Watkins in 1990 (located 0.3 miles north of the study area)
- Salt Fork Survey bridge replacement survey, conducted in 1999 (located 0.3 miles north of the study area)
- NorAM Gas Line 4-1-4 linear survey, conducted in 1994 (located 0.6 miles southeast of the study area)
- Center PT Energy Pipeline 4-1-4 repair survey, conducted in 2003 (located 0.6 miles southeast of the study area)

A review of the Oklahoma SHPO database for NRHP listed properties, DOE, and OLI was conducted. No such properties were identified within the study area.

The potential for archeological sites was considered low based on the map review. CMEC estimated that up to one prehistoric or historic-age archeological site could be recorded, however no sites were identified.

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4. METHODOLOGY:

Field Investigation Methodology: (must outline STP interval used in the project area and on sites)

Cultural resources fieldwork was completed in October 2021. The cultural resources fieldwork was developed in consultation with ODOT-CRP and conformed to the methods outlined in the ODOT-CRP MANUAL (October 2017). Transects were set at a distance not exceeding 30 meters (98.4 feet) apart, on either side of the NS-301 right-of-way.

Shovel test units were excavated at 30-meter (98.4-foot) intervals along each transect as allowed by disturbance

(e.g., extant utility lines, developed areas, construction disturbances). Shovel tests were excavated in arbitrary 10-centimeter (4 inch) levels until culturally sterile sub-soil, B-horizon, dense cobbles, hydric and/or redoximorphic soils, and/or intrusive road gravels were reached.

Excavated matrix was screened through 0.25-inch (0.64-centimeter) hardware screen and deposits were described using conventional texture classifications with reference to NRCS soil series and Munsell color designations. All observations were recorded on standard CMEC shovel test forms and handheld tablets using the ArcGIS Survey 123 (version 3.12.277) and the ArcGIS Collector (version 20.2.2) applications. All shovel test units were backfilled after recordation. Photographs were taken of the project area. Each photograph was recorded in digital format, and a photographic log was kept for all photographs. These logs include sequential identification listing the name of the photographer, date, subject, camera orientation, photographic details, and other notes. All field photographs were captured with the subject in focus and with a camera capable of photographic resolution of a minimum of 10 megapixels.

The bridge in the study area (ODOT Structure No. 27N3010E0250008 [NBI 13474]) was documented on the ODOT Oklahoma Historic Bridge Inventory Form according to the standards laid out in *Cultural Resource Studies: A Manual for Cultural Resources Staff and Department Consultants* (ODOT 2017).

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5. RESULTS OF INVESTIGATION:

_____ No archeological sites or buildings recorded in study area.

XXX Resources recorded in study area assessed as **not eligible** for the NRHP. Forms being submitted for agency review.

_____ Oklahoma Archeological Site Survey Form(s) for State Archeologist files.

_____ Historic Preservation Resource Identification Form(s) for SHPO files.

XXX Oklahoma Bridge Survey and Inventory Form.

_____ **NRHP-eligible properties** recorded in study area.

Forms being submitted for agency review.

_____ Oklahoma Archeological Site Survey Form(s) for State Archeologist files.

_____ Historic Preservation Resource Identification Form(s) for SHPO files.

_____ Oklahoma Bridge Survey and Inventory Form.

_____ Archeological sites requiring further assessment (i.e. evaluative testing)

COMMENTS AND DESCRIPTION OF FINDINGS:

No archaeological resources were documented in any surficial or subsurface context within the study area. Other than the subject bridge, no buildings or structures were located within the study area.

Archeological Survey Results

Broad, flat plains and alluvial terraces, with chest-high brush and grasses growing near the steep creek banks characterize the study area. The unnamed tributary of the Salt Fork of the Arkansas River, which bisects the study

area, was partially inundated with no modern or historic refuse visible in the vicinity. The study area was mainly composed of tall grass and shrubs along both sides of NS-301, with the western edge being bordered by a cotton field. A utility line and buried utility cable run parallel to the eastern side of the road, approximately 6.7 feet (2 meters) from the pavement.

Ground surface visibility varied from 0 to 25 percent along the eastern transect of the study area; from grass and shrub density. The western transect displayed surface visibility between 50 and 75 percent due to the proximity of the transect to the neighboring agricultural field.

Soil profiles encountered include dark brown to very dark brown (7.5YR 3/2 to 10YR 2/2) silt and clay loam (topsoil, A horizon) over reddish brown to dark reddish brown (5YR 4/4 to 5YR 3/2) clay loam. Topsoil extended to an average depth of 30 cmbs, which corresponds with the McLain and Drummond series A-Horizons of 33/23 cmbs. Most tests reached an average termination depth of between 50 and 60 cmbs, with some tests reaching a depth of 80 cmbs. Observed soils do exhibit features of the McLain-Drummond complex silt loam series.

Shovel tests were conducted in two transects; one on each side of NE-301, with no inaccessible testing areas. Additionally, shovel tests were excavated along the deep cut creek and in proximity to the timber string/multi-beam or girder bridge, and displayed profiles indistinguishable from other tests within the study area.

Shovel test units were terminated at culturally sterile subsoil, dense gravel, and compact soils.

In summary, no archeological resources were documented within the study area, whether on the ground surface or within any of the shovel test units excavated within the study area.

Built Environment Survey Results

The Built Environment survey includes one resource. The NS 301 bridge over an unnamed tributary of the Salt Fork of the Arkansas River (ODOT Structure No. 27N3010E0250008 [NBI No. 13474]) is a timber stringer/multi-beam or girder bridge constructed in 1955 and reconstructed in 1998. The bridge has not been previously assessed and was documented on an Oklahoma Historic Bridge Inventory Form.

NBI 13474 has three spans composed of longitudinal wood beams on wood piles with a wood deck covered in asphalt, and wooden abutments and wingwalls. The piles are clad in wooden planks. The bridge is between parcels of pastures with grassy vegetation along the creek. According to *A Context for Common Historic Bridge Types* this type possesses low significance, with a level of significance depending on the structure's date of construction, integrity, and potential for association with parks and/or Depression-era federal work programs (Parsons Brinckerhoff and Engineering and Industrial Heritage 2005). Parsons Brinckerhoff states only pre-twentieth century examples would possess significance and NBI 13474, built in 1955, does not qualify as a sufficient early example or have any relation to parks or Depression-era federal work programs.

The crossing did not provide a particularly difficult engineering challenge and the bridge is not an example of an innovative fabricating technique or a local interpretation of a standard design. Timber stringers often lose integrity due to maintenance. NBI 13474 has undergone the addition of steel reinforcements to the substructure and the abutments (as part of the 1998 reconstruction), as well as the likely replacement of an undetermined number of wooden elements. The bridge is not the work of a master or an important representative of any type, period, or method of construction, and it does not possess high artistic value. Based on this information, the bridge is recommended **not eligible** for NRHP listing under Criterion A, B, C, or D.

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6. RECOMMENDATIONS:

_____ **Plan Notes** requiring avoidance of cultural resources in off-project areas

XXX **Approval Recommended** with the proposed project as planned with no additional research. If subsurface archaeological materials are exposed during construction, the Contractor and Resident Engineer shall notify the Department Archaeologist in accordance with Section

202.04(a), Standard Specifications for Highway Construction.

_____ **Approval NOT Recommended,** until one or more of the following measures are completed.

_____ **Additional consultation with SHPO** regarding NRHP-eligible Properties

_____ **Revise design** to avoid/protect resources

_____ **NRHP Eligibility Archaeological Test Excavations**

_____ **Implementation of MOA** with SHPO regarding Mitigation of Adverse Effects to Historic Properties

SUMMARY AND COMMENTS REGARDING RECOMMENDATIONS:

The study area was subjected to an archeological survey that included the excavation of shovel test units. No archeological sites were documented, and no archeological materials were observed anywhere within the study area.

The existing bridge on NS-301 over an unnamed tributary to the Salt Fork of the Arkansas River (ODOT Structure #27N3010E0250008 [NBI 13474]) is a timber stringer/girder structure constructed in 1955 and reconstructed in 1998. The bridge has been documented on an Oklahoma Historic Bridge Inventory Form and is recommended **not eligible** for NRHP listing under Criterion A, B, C, or D.

Other than the subject bridge, no buildings or structures were identified in the study area.

CMEC recommends that no further cultural resources work is necessary at this time and that the proposed roadway improvement project be allowed to continue as planned.

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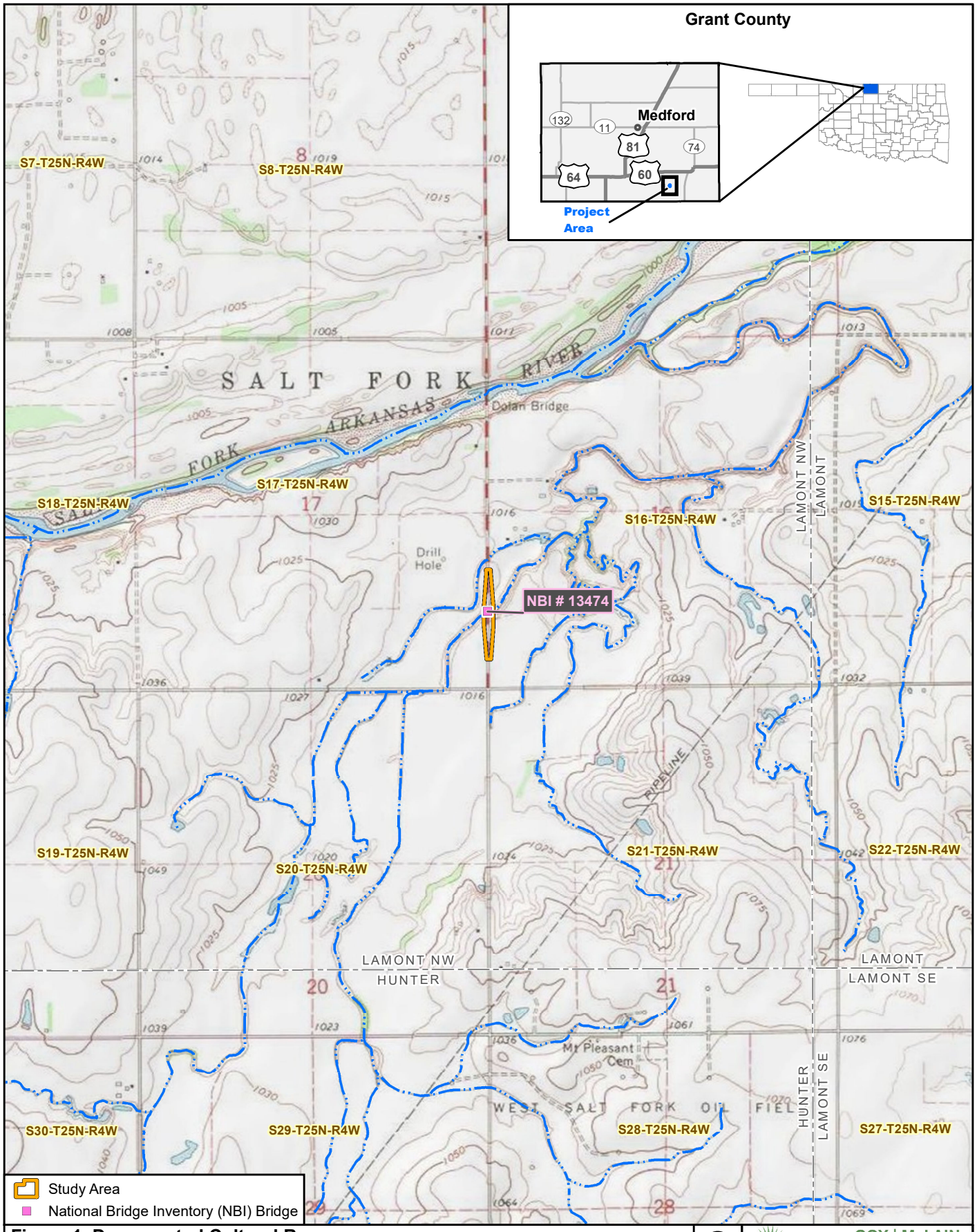

Figure 1. Documented Cultural Resources

JP 32852(04)
NS 301
Grant County, Oklahoma

Data Sources: BLM (2021), ODOT (2021)
Topographic Source: USGS Hunter, Lamont, Lamont NW, Lamont SE 7.5' Quadrangles (1968)

COX | McLAIN Environmental Consulting

0 2,000 Feet
0 600 Meters

1 inch = 2,000 feet
Scale: 1:24,000
Date: 11/5/2021

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OKLAHOMA Transportation

Government Affairs
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

February 8, 2022

To: ODOT Cultural Resources Program

From: Rhonda S. Fair, Director – Tribal Coordination

Re: Summary of tribal consultation for Grant County JP# 32852(04) - Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork

---

A file search conducted on 10/16/2020 and found no known potentially sensitive areas in the project area or its vicinity.

The following tribes were consulted on 10/16/2020 and 1/4/2022:

- Cheyenne & Arapaho Tribes
- Osage Nation
- United Keetoowah Band of Cherokee Indians
- Wichita & Affiliated Tribes

The following comments were received:

- Osage Nation: No known Osage resources within the project area (12/13/2020).
- United Keetoowah Band of Cherokee Indians: Concur with finding of no adverse effect (1/10/2022).
- Wichita & Affiliated Tribes: No known properties of cultural or sacred significance to the Wichita and Affiliated Tribes in the immediate area, no effect on historic properties (1/20/22).

OKLAHOMA Transportation

Tribal Coordination
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

October 16, 2020

Cheyenne & Arapaho Tribes
Attn: Governor Reggie Wassana
P.O. Box 38
Concho, OK 73022

Dear Governor Wassana:

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating Section 106 consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following Federal-Aid undertaking:

County	Grant	**Job Piece #**	32852(04)	**Anticipated Let Date**	2023
Project description	Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork				
Location	Sec 16 & 17 T25N R4W. See enclosed map.				
Additional information	This project is on a new alignment: ☐ yes ☒no This project will require new or temporary right of way: ☒ yes ☐no This project involves ground disturbance: ☒ yes ☐no				

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4. The survey will be performed in consultation with the Oklahoma State Historic Preservation Office and other consulting parties as appropriate. You will be provided a copy of the cultural resources report upon its completion.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.517-5670 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director - Tribal Coordination

cc: Max Bear, THPO

OKLAHOMA Transportation

Tribal Coordination
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

January 4, 2022

Cheyenne & Arapaho Tribes
Attn: Governor Reggie Wassana
P.O. Box 38
Concho, OK 73022

Dear Governor Wassana:

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is conducting Section 106 consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following Federal-Aid undertaking.

County	Grant	**Job Piece #**	32852(04)	**Anticipated Let Date**	2023
Project description	Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork				

In accordance with 36 CFR Part 800.4, the area of potential effect (APE) was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This cultural resources study did not identify any archaeological sites or buildings in the APE. The NS-301 bridge over an unnamed tributary of the Salt Fork of the Arkansas River is recommended as not eligible for the National Register of Historic Places. Ongoing tribal consultation has not identified any areas of concern. Pursuant to 36 CFR 800.4(d)(1), and based upon the results of this study, our opinion is that the project, as proposed, will have no effect on historic properties.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.517.5670 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director - Tribal Coordination

cc: Max Bear, THPO

OKLAHOMA Transportation

Tribal Coordination
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

October 16, 2020

Osage Nation
Attn: Principal Chief Geoffrey Standing Bear
627 Grandview
Pawhuska, OK 74056

Dear Principal Chief Standing Bear:

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating Section 106 consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following Federal-Aid undertaking:

County	Grant	**Job Piece #**	32852(04)	**Anticipated Let Date**	2023
Project description	Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork				
Location	Sec 16 & 17 T25N R4W. See enclosed map.				
Additional information	This project is on a new alignment: ☐ yes ☒no This project will require new or temporary right of way: ☒ yes ☐no This project involves ground disturbance: ☒ yes ☐no				

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4. The survey will be performed in consultation with the Oklahoma State Historic Preservation Office and other consulting parties as appropriate. You will be provided a copy of the cultural resources report upon its completion.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.517-5670 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director - Tribal Coordination

cc: Tribal Historic Preservation Office

Rhonda Fair

From: Johnnie Jacobs <johnnie.jacobs.ctr@osagenation-nsn.gov>
Sent: Sunday, December 13, 2020 8:08 PM
To: Rhonda Fair
Subject: [EXTERNAL] ODOT, 32852(04), Bridge Replacement and Approach Improvements on County Rd. NS-301, Grant County, Oklahoma

Date: December 13, 2020 **File: 2021-**

RE: ODOT, 32852(04), Bridge Replacement and Approach Improvements on County Rd. NS-301, Grant County, Oklahoma

Oklahoma Department of Transportation
Rhonda Fair
200 NE 21st Street, Room 3A8
Oklahoma City, OK 73105-3204

Dear Dr. Fair,

The Osage Nation Historic Preservation Office has received notification and accompanying information for the proposed project **ODOT, 32852(04), Bridge Replacement and Approach Improvements on County Rd. NS-301, Grant County, Oklahoma.** There are no known Osage resources within the project area. This office looks forward to reviewing the final report.

The Osage Nation requests that the report include a project site plan map indicating the locations of screened shovel tests labeled by their field identification numbers and a table listing shovel test locations, width (cm), actual depth (cm) of each level, soils of each level, and results. Shovel test minimum width is 30 cm. Shovel test minimum depth is to 50 cm or sterile soil, whichever is encountered first. If terminated before sterile soil is reached, please provide an explanation either in the text or in the shovel test log.

Should you have any questions or need any additional information, please feel free to contact me at the email listed above. Thank you for consulting with the Osage Nation on this matter.

Thank you,

Miss Johnnie Jacobs
Historic Preservation Specialist
Osage Nation Historic Preservation Office
627 Grandview Avenue
Pawhuska, OK 74056

OKLAHOMA Transportation

Tribal Coordination
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

January 4, 2022

Osage Nation
Attn: Principal Chief Geoffrey Standing Bear
627 Grandview
Pawhuska, OK 74056

Dear Principal Chief Standing Bear:

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is conducting Section 106 consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following Federal-Aid undertaking.

County	Grant	**Job Piece #**	32852(04)	**Anticipated Let Date**	2023
Project description	Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork				

In accordance with 36 CFR Part 800.4, the area of potential effect (APE) was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This cultural resources study did not identify any archaeological sites or buildings in the APE. The NS-301 bridge over an unnamed tributary of the Salt Fork of the Arkansas River is recommended as not eligible for the National Register of Historic Places. Ongoing tribal consultation has not identified any areas of concern. Pursuant to 36 CFR 800.4(d)(1), and based upon the results of this study, our opinion is that the project, as proposed, will have no effect on historic properties.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.517.5670 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director - Tribal Coordination

cc: Dr. Andrea Hunter, THPO

OKLAHOMA Transportation

Tribal Coordination
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

October 16, 2020

United Keetoowah Band of Cherokee
Attn: Chief Joe Bunch
P.O. Box 746
Tahlequah, OK 74464

Dear Chief Bunch:

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating Section 106 consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following Federal-Aid undertaking:

County	Grant	**Job Piece #**	32852(04)	**Anticipated Let Date**	2023
Project description	Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork				
Location	Sec 16 & 17 T25N R4W. See enclosed map.				
Additional information	This project is on a new alignment: ☐ yes ☒no This project will require new or temporary right of way: ☒ yes ☐no This project involves ground disturbance: ☒ yes ☐no				

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4. The survey will be performed in consultation with the Oklahoma State Historic Preservation Office and other consulting parties as appropriate. You will be provided a copy of the cultural resources report upon its completion.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.517-5670 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director - Tribal Coordination

cc: Erica Gorsuch

OKLAHOMA Transportation

Tribal Coordination
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

January 4, 2022

United Keetoowah Band of Cherokee
Attn: Chief Joe Bunch
P.O. Box 746
Tahlequah, OK 74464

Dear Chief Bunch:

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is conducting Section 106 consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following Federal-Aid undertaking.

County	Grant	**Job Piece #**	32852(04)	**Anticipated Let Date**	2023
Project description	Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork				

In accordance with 36 CFR Part 800.4, the area of potential effect (APE) was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This cultural resources study did not identify any archaeological sites or buildings in the APE. The NS-301 bridge over an unnamed tributary of the Salt Fork of the Arkansas River is recommended as not eligible for the National Register of Historic Places. Ongoing tribal consultation has not identified any areas of concern. Pursuant to 36 CFR 800.4(d)(1), and based upon the results of this study, our opinion is that the project, as proposed, will have no effect on historic properties.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.517.5670 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director - Tribal Coordination

cc: Acee Watt

United Keetoowah Band
Of Cherokee Indians in Oklahoma
Office of Historic Preservation
P.O. Box 746 • Tahlequah, OK 74465
18263 W Keetoowah Circle • Tahlequah, OK 74464
Phone: (918) 871-2852 • Fax: (918) 414-4000
www.ukb-nsn.gov

01/10/2022

RE: Grant County OK / ODOT JP# 32852(04) cultural resources report

To Whom It May Concern:

Thank you for consulting with the United Keetoowah Band of Cherokee Indians in Oklahoma (UKB). This response is regarding the request from your office for a review of the project listed above. We have reviewed the information provided in your letter of January 4, 2022. We find after review of the information we concur with your "findings of no adverse effects".

There remains the possibility that unrecorded cultural resources, including archaeological artifact or human remains, may be encountered during construction, demolition, or earthmoving activities of this project. Should this occur, we require that you contact our office immediately so we may offer appropriate comments under 36 CFR 800.13.

As the project moves forward we request the following conditions be followed:
Condition 1: Inadvertent Discoveries - In the event that human remains, burials, funerary items, sacred objects, or objects of cultural patrimony are found during project implementation, the proponent or his/her authorized agent shall cease work immediately within 200 ft of the find. They shall take steps to protect the find from further damage or disruption. They shall contact the Section 106 Coordinator, Acee Watt to report the find. The Section 106 Coordinator shall contact the appropriate law enforcement authority if human remains are found. No further work shall be allowed on the project until the Section 106 Coordinator has approved a plan for managing or preserving the remains or items.

Condition 2: Post Review Discoveries - In the event that pre-contact artifacts (i.e., arrowheads, spear points, mortars, pestles, other ground stone tools, knives, scrapers, pottery or flakes from the manufacture of tools, fire pits, culturally modified trees, etc.) or historic period artifacts or features (i.e., fragments of old plates or ceramic vessels, weathered glass, dumps of old cans, cabins, root cellars, etc.) are found during project implementation, the proponent or his/her authorized agent shall cease work immediately within 200 ft of the find. They then shall contact the Section 106 Coordinator Acee Watt to report the find. No further work shall be allowed on the project until the Section 106 has approved a work plan for managing or preserving the artifacts or features.

United Keetoowah Band
Of Cherokee Indians in Oklahoma
Office of Historic Preservation
P.O. Box 746 • Tahlequah, OK 74465
18263 W Keetoowah Circle • Tahlequah, OK 74464
Phone: (918) 871-2852 • Fax: (918) 414-4000
www.ukb-nsn.gov

Condition 3: Activities that have the potential to disturb cultural resources outside the areas specified in the accompanying document(s) are not approved and will not proceed until cultural resources review of potential adverse effects in the new area has been completed.

Please note that these comments are based on information available to us at the time of the project review. We reserve the right to revise our comments as information becomes available. If you have any questions or concerns, please contact our Section 106 Coordinator, Acee Watt at (918) 871-2852 or by email awatt@ukb-nsn.gov.

Best Regards,

Acee Watt

Acee Watt
Section 106 Coordinator
Office of Historic Preservation
United Keetoowah Band of Cherokee
918-871-2852
awatt@ukb-nsn.gov

OKLAHOMA Transportation

Tribal Coordination
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

October 16, 2020

Wichita & Affiliated Tribes
Attn: President Terri Parton
P.O. Box 729
Anadarko, OK 73005

Dear President Parton:

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating Section 106 consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following Federal-Aid undertaking:

County	Grant	**Job Piece #**	32852(04)	**Anticipated Let Date**	2023
Project description	Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork				
Location	Sec 16 & 17 T25N R4W. See enclosed map.				
Additional information	This project is on a new alignment: ☐ yes ☒no This project will require new or temporary right of way: ☒ yes ☐no This project involves ground disturbance: ☒ yes ☐no				

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4. The survey will be performed in consultation with the Oklahoma State Historic Preservation Office and other consulting parties as appropriate. You will be provided a copy of the cultural resources report upon its completion.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.517-5670 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director - Tribal Coordination

cc: Jacey Lamar, THPO

OKLAHOMA Transportation

Tribal Coordination
200 N.E. 21st Street
Oklahoma City, OK 73105
www.odot.org

January 4, 2022

Wichita & Affiliated Tribes
Attn: President Terri Parton
P.O. Box 729
Anadarko, OK 73005

Dear President Parton:

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is conducting Section 106 consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following Federal-Aid undertaking.

County	Grant	**Job Piece #**	32852(04)	**Anticipated Let Date**	2023
Project description	Bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork				

In accordance with 36 CFR Part 800.4, the area of potential effect (APE) was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This cultural resources study did not identify any archaeological sites or buildings in the APE. The NS-301 bridge over an unnamed tributary of the Salt Fork of the Arkansas River is recommended as not eligible for the National Register of Historic Places. Ongoing tribal consultation has not identified any areas of concern. Pursuant to 36 CFR 800.4(d)(1), and based upon the results of this study, our opinion is that the project, as proposed, will have no effect on historic properties.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.517.5670 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director - Tribal Coordination

cc: Gary McAdams, THPO

Wichita and Affiliated Tribes
Wichita Waco Keechi Tawakoni

Terri Parton President
Jarod Prince Vice President
Myles Stephenson Jr Secretary
Claudia Spybuck Treasurer

Committee Members
Shirley Davila
Gage Broadingham
Tiffany Lonewolf

20 January 2022 - Thursday

Dr. Rhonda S Fair, PhD, Director\Tribal Coordinator
Oklahoma Department of Transportation - Tribal Coordination
200 Northeast 21st Street
Oklahoma City, Oklahoma 73105

Dear Dr. Fair:

Wichita and Affiliated Tribes is requesting consulting party status on any proposed projects that the **Federal Highway Administration** undertakes in the states of Oklahoma, Kansas, Texas, Missouri, Arkansas, Colorado and New Mexico.

Please accept the digital communication regarding **J\P # 32852(04)** Site, we understand the **Oklahoma Department of Transportation** is proposing bridge replacement and approach improvements on County Road NS-301 over an unnamed creek, 0.2 miles north and 2.9 miles west of Salt Fork in Grant County, Oklahoma with anticipated date as **2023**.

In accordance with the National Historic Preservation Act, (NHPA) [16 U.S C. 470 §§ 470-470w-6] 1966, undertakings subject to the review process are referred to in Section 101 (d) (6) (A), which clarifies that historic properties may have religious and cultural significance to Indian tribes. Additionally, Section 106 of NHPA requires Federal agencies to consider the effects of their actions on historic properties (36 CFR Part 800) as does the National Environmental Policy Act (43 U.S.C. 4321 and 4331-35 and 40 CFR 1501.7(a) of 1969).

Upon our review, we know of no known properties of cultural or sacred significance to the Wichita and Affiliated Tribes in this immediate area and is not likely to have **No Effect on HP** in the DE\VE-APE. However, as the project moves forward we request the following conditions be followed:

- Inadvertent Discoveries: In the event that human remains, burials, funerary items, sacred objects of cultural patrimony are found during project implementation, the proponent or his\her authorized agent shall cease work immediately. They shall take steps to protect the find from further damage or disruption. They shall contact the THPO, Gary McAdams at (405) 247-2425 Extension 169 to report the find. No further work shall be allowed on the project until the THPO has approved a plan for managing or preserving the remains or items.
- Post Review Discoveries: In the event that pre-contact artifacts (i.e., arrowheads, spear points, mortars, pestles, other ground stone tools, knives, scrapers, pottery or flakes from the manufacture of tools, fire pits, culturally modified trees, etc.) or historic period artifacts or features (i.e., fragments of old plates or ceramic vessels, weathered glass, dumps of old cans, cabins, root cellars, etc.) are found during project implementation, the proponent or his\her authorized agent shall cease work immediately. They then shall contact the THPO, Gary McAdams at (405) 247-2425 Extension 169 to report the find. No further work shall be allowed on the project until the THPO has approved a work plan in the new area has been completed.
- Activities that have the potential to disturb cultural resources outside the areas specified in the accompanying document(s) are not approved and will not proceed until cultural resources review of potential adverse effects in the new area has been completed.

PLEASE NOTE, these comments were based on the information provide to us, therefore, we also reserve the right to revise our comments as updates pertaining to this project is made available. Should you have any inquiries, please contact Gary McAdams, THPO at 405.247.2425 Ext. 169 or via email at gary.mcadams@wichitatribe.com and\or Mr. Gerald Collins III, EPA Director at 405.247.2425 Ext. 141 or via email at gerald.collins3@wichitatribe.com

Sincerely,
Mary M Botone
Mary M BoTone
THPO Administrative Assistant

PO Box 729
Anadarko, Oklahoma 73005

Phone *405.247.8667*
Fax *405.247.2167*

BIOLOGICAL STUDIES

Grant JP 32852(04)

BIOLOGICAL STUDIES TRACKING FORM

NEPA Project Manager	Kirsten McCullough / Frank Guerrero
State or Local Government Project	LG
USFWS TAILS #	**02EKOK00-2021-SLI-0394**
Original IPaC List	11/30/2021
Email used to request IpaC official species list	Biologist@GarverUSA.com
Last Updated Species List Date	2/18/2021
ROW	2021
Let Date	2023
90 Day Prior to Let IpaC List	Click here to enter a date.
Duration expected	Click here to enter text.
Original Biological Assessment and Waters and Wetlands Report Prepared By:	Garver
Most Recent Field Date:	12/3/2021
Original Report Date:	1/4/2021
USFWS Consultation Submittal:	2/18/2021
USFWS Concurrence:	2/22/2021
Original Tracking Form Prepared by:	Elizabeth Nichols
Original Tracking Form date:	2/22/2021
Update Reason	Click here to enter text.
Updated By Whom:	Click here to enter text.
Amended USFWS Consultation Submittal:	Click here to enter a date.
Amended USFWS Concurrence:	Click here to enter a date.
Tracking Form Updated By Whom:	Click here to enter text.
Tracking Form Updated Date:	Click here to enter a date.
ADD MORE LINES AS NEEDED FOR EACH TIME PROJECT IS UPDATED	

Form Date: February 2021

Project Name from Oracle

Bridge and Approaches on NS 301 Over Unnamed Creek, 2.0 Miles North and 2.9 Miles West of Salt Fork

Project Description

Bridge and Approaches or bridge widening/structure extension

Check if any of the following is expected as part of the proposed action

- Work within the OHWM is expected ☒
- Project is OFF-SET alignment ☐
- Project is NEW alignment ☐
- Project involves **NO OFF EXISTING PAVEMENT** work ☐
- Project requires new ROW (permanent &/or temporary) ☒

2. FEDERALLY LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Species	Listing Status	IPaC Check if Yes	Effect Determination for IPaC listed species
Red-cockaded Woodpecker	Endangered	☐	Choose an item.
Whooping Crane	Endangered	☒	May Affect, Not likely to adversely affect
Gray Bat	Endangered	☐	Choose an item.
Indiana Bat	Endangered	☐	Choose an item.
Ozark Big-eared Bat	Endangered	☐	Choose an item.
Neosho Mucket	Endangered	☐	Choose an item.
Ouachita Rock Pocketbook	Endangered	☐	Choose an item.
Scaleshell Mussel	Endangered	☐	Choose an item.
Winged Mapleleaf	Endangered	☐	Choose an item.
Harperella	Endangered	☐	Choose an item.
American Burying Beetle	Threatened	☐	Choose an item.
Eastern Black Rail	Threatened	☒	No Effect
Piping Plover	Threatened	☒	No Effect
Red Knot	Threatened	☐	Choose an item.
Northern Long-eared Bat	Threatened	☐	Choose an item
Arkansas River Shiner	Threatened	☐	Choose an item.
Leopard Darter	Threatened	☐	Choose an item.
Neosho Madtom	Threatened	☐	Choose an item.
Ozark Cavefish	Threatened	☐	Choose an item.
American Alligator	Threatened	☐	Choose an item.
Rabbitsfoot Mussel	Threatened	☐	Choose an item.
Rattlesnake-master Borer Moth	Candidate	☐	Choose an item.
Whooping Crane Critical Habitat	Designated	☐	Choose an item.
Arkansas River Shiner Critical Habitat	Designated	☐	Choose an item.
Leopard Darter Critical Habitat	Designated	☐	Choose an item.
Neosho Mucket Critical Habitat	Designated	☐	Choose an item.
Rabbitsfoot Critical Habitat	Designated	☐	Choose an item.

	NEPA Footprint	Construction Footprint
Number of acres within the NEPA Study Footprint & Construction Footprint (if known)	12.1	Click here to enter text.

Bald Eagle Assessment	Not expected to impact
Migratory Bird Assessment of Transportation Structures	Migratory birds found nesting on transportation structures
Assessment	nesting habitat for migratory birds will be impacted
Birds of Conservation Concern	No BCC listed
Interior Least Tern (MBTA)	not expected to impact

Species (choose those that apply)	Seasonal Restriction Period
Migratory Birds: Swallows and Phoebes (NESTS PRESENT)	March 1 – August 31
Migratory Birds: Owls	December 15 – July 15

Conservation Commitments

ODOT Commitment: All operators, employees, and contractors will be made aware of all environmental commitments, including the following Plan Notes.

Species Plan Notes

Non-Compliance: Failure to implement the commitments specified in the Plan Notes can result in non-compliance issues on the project. Work activities may be suspended on the project, for an undetermined duration, while working with regulators to bring the project back into compliance. The contractor will not be compensated for time lost.

Water Quality Conservation: Appropriate Best Management Practices to minimize impacts from storm water discharges and sedimentation in streams, as established by the Oklahoma Department of Environmental Quality, shall be conscientiously implemented throughout the proposed construction periods, in order to minimize any potential impacts to any listed species. The effectiveness of erosion controls shall be maintained for the duration of construction activities. Hazardous materials, chemicals, fuels, lubricating oils, and other such substances shall be stored at least 100 feet outside of the ordinary high water mark (OHWM). Refueling of construction equipment shall also be conducted at least 100 feet from the OHWMs. Sediment and erosion controls shall be installed around staging areas to prohibit discharge of materials from these sites. Construction waste materials and debris shall be stockpiled at least 25 feet outside of the OHWMs, and these materials shall be removed and disposed of properly following completion of the project. Preventative measure must be taken to prohibit the discharge of contaminants into any surface waters.

Whooping Crane Plan Note: If Whooping Cranes are seen at or within one mile of the proposed work site, the Resident Engineer shall immediately contact the ODOT Biologist. If there is a confirmed sighting and/or Whooping Cranes are observed within one mile of the proposed work site, all construction activities shall cease until it is determined that Whooping Cranes have left the project vicinity without being harassed.

Owl Note: Owls are migratory birds, protected by the federal Migratory Bird Treaty Act. This species commonly uses bridges and culverts for nesting. The nesting season for Owls extends from December 15 to July 15. Owl use of the bridge (NBI:13474) has been observed. Any activities which would destroy active nests or harm eggs or birds would violate the Migratory Bird Treaty Act. If owls are observed using the bridge, contact the ODOT Biologist immediately.

Migratory Bird Note: Migratory birds are protected by the federal Migratory Bird Treaty Act. Many birds commonly use bridges and culverts for nesting. The nesting season for most migratory bird species extends from March 1 to August 31. Migratory bird nesting use of the bridge (NBI:13474) was observed. Painting, repair, retrofit, rehabilitation or demolition of the existing bridge shall be conducted between September 1, and February 28, when migratory bird nests are not occupied. If painting, repair, retrofit, rehabilitation or demolition cannot be completed between September 1 and February 28, the bridge shall be protected from new nest establishment prior to March 1, by means that do not result in bird death or injury. Options include the exclusion of adult birds from suitable nest sites on or within a structure by the placement of weather-resistant polypropylene netting with 0.25-inch or smaller openings, prior to March 1. Methods other than netting must be pre-approved by the ODOT Biologist.

Although no nests were observed on all other structures, the birds may occupy the structures in the future. The Resident Engineer shall contact the ODOT Biologist if any bird use of these structure is observed. If birds are observed then painting, repair, retrofit, rehabilitation or demolition of the existing bridge and culvert shall be conducted between September 1, and February 28 (when migratory bird nests are not occupied).

Waters and Wetlands Delineation Status

Original delineation

Wetlands and Ponds

Total Number of Sites	Water Body Type	Potential Jurisdiction Status	Acres within the NEPA Footprint
1	Herbaceous Wetland	Likely Jurisdictional	0.01

Streams and Drainages

Total Number of sites	Water body name	USGS Designation	Potential Jurisdictional Status	Acres within the NEPA Footprint	Liner Feet within the NEPA Footprint
2	Tributaries to Salt Fork of Arkansas River	mapped intermittent	Likely Jurisdictional	0.27	576

Nichols, Elizabeth

From: Kreisler, Skye E <skye_kreisler@fws.gov>
Sent: Monday, February 22, 2021 1:55 PM
To: Nichols, Elizabeth
Cc: Amber McIntyre
Subject: Re: 02EKOK00-2021-SLI-0394_20210218_ODOT Grant JP 32852(04) Consultation Review Package Submittal

Consultation Code: 02EKOK00-2021-SLI-0394

Hello Liz,

The Service has reviewed the consultation package for Oklahoma Department of Transportation's project: **Grant JP 32852(04)** (project) - Bridge and approaches on NS 301 over unnamed Creek, 2.0 miles North and 2.9 miles West of Salt Fork.

Based on the information submitted, the proposed project is located within the range of the federally-listed **whooping crane** (*Grus americana*). You have determined that the project may affect, but is not likely to adversely affect, this species with the implementation of proposed conservation measures; the Service agrees with that determination. This concludes the section 7(a)(2) consultation pursuant to the Endangered Species Act of 1973 (Act; 87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) pertaining to the whooping crane. You have further determined that the project will have no effect to the **red knot** (*Calidris canutus rufa*) and/or **piping plover** (*Charadrius melodus*).

The online project review concurrence letter signed by the Field Supervisor is now valid, and this project may proceed accordingly. The Service asks that, within 90 days prior to construction, a new species list be obtained to see if any changes have occurred. If changes have occurred, please check with the Field Office to determine if further consultation is needed. If you have any questions, please contact the Oklahoma Ecological Services Field Office.

Sincerely,

Skye Kreisler
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Oklahoma Ecological Services Field Office
9014 E 21st Street
Tulsa, OK 74129

(571) 242-7104 Mobile

From: Nichols, Elizabeth <elizabeth.nichols@ou.edu>
Sent: Thursday, February 18, 2021 4:12:02 PM
To: OK Project Review, FWS <OKProjectReview@fws.gov>
Cc: Amber McIntyre <amcintyre@odot.org>

Subject: [EXTERNAL] 02EKOK00-2021-SLI-0394_20210218_ODOT Grant JP 32852(04) Consultation Review Package Submittal

Elizabeth Nichols
Assistant Manager, Natural Resources Program
Oklahoma Department of Transportation
Oklahoma Biological Survey
111 E. Chesapeake
Norman, OK 73019
405.325.6802 (office)
elizabeth.nichols@ou.edu

August 2015

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Division of Ecological Services
9014 East 21st Street
Tulsa, Oklahoma 74129
918/581-7458 / (FAX) 918/581-7467

2/18/2021

Online Project Review Concurrence Letter

To: Elizabeth Nichols
ODOT Natural Resources Program at OU
111 E. Chesapeake
Norman, OK 73019
405-325-6802, enichols@odot.org

Project Name: Grant JP 32852(04) Bridge and Approaches on NS 301 Over Unnamed Creek, 2.0 Miles North and 2.9 Miles West of Salt Fork

Consultation Code: 02EKOK00-2021-SLI-0394

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Oklahoma Ecological Services Field Office (ESFO) online project review process. By providing this letter in conjunction with your complete project review package, you are certifying that you have accurately completed the online project review process for the referenced project in accordance with all instructions provided, using the best available information to reach your conclusions. Concurrence with "not likely to adversely affect" determinations does not provide any exemption for violations of section 9 of the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA) or "take" of federally-listed species. The Federal action agency is ultimately responsible for ensuring compliance with the ESA and any take that occurs due to your proposed action would be considered a violation under section 9 of the ESA.

This letter and the enclosed project review package complete the review of your project in accordance with the ESA. This letter also provides information for your project review under the National Environmental Policy Act (National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C.4321-4347, 83 Stat. 852), as amended.

A copy of this letter and the project review package must be emailed to **okprojectreview@fws.gov** for this certification to be valid. This letter and the project review package will be maintained in Service records. **Please allow the Oklahoma ESFO 45 days to review your information. If the Oklahoma ESFO determines that the package is not complete, or that additional coordination is necessary, we will contact your office. If, after 45 days from the date of your email submittal of your project review package, the Oklahoma ESFO has not contacted your office, consider your section 7 consultation complete.**

The proposed action consists of:

The proposed project will replace the existing bridge with a 28-foot-wide triple span bridge on existing alignment. The existing NS 301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with 3-foot-wide outside sod shoulders on existing alignment. In addition, a drainage structure located approximately 0.15 mile north of the existing bridge will be replaced. The roadway will be closed to traffic during construction and traffic will be detoured to adjacent county roads.

Project start and completion dates:

2023 let

Federal agency or federal program providing a permit, funding, grant, authorization, loan, etc. associated with the proposed project and how that agency is associated with your project:

FHWA

Federal Agency/Program Point of contact (Name, phone, and email address):

The ODOT, acting as the duly authorized agent for the Federal Highway Administration, is initiating Section 7 consultation for the above mentioned project as a component of the agency's implementation of the procedural provisions of the National Environmental Policy

The species conclusions table in the enclosed project review package summarizes your ESA conclusions. These conclusions resulted in "not likely to adversely affect/modify" determinations for listed species and critical habitat in relation to potential effects of your proposed project. We certify that the use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with determinations of "not likely to adversely affect" for listed species and critical habitat reached by proper use of this process. For projects where this particular determination is reached, additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages efforts to avoid or minimize adverse impacts to them from project effects. Some federal agencies have standing policies that grant limited protections to candidate species. Conservation of candidate species now may preclude future needs to federally list them as endangered or threatened, at which point their legal protection would become required. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of listed species or critical habitat becomes available, this determination may be reconsidered. You should re-visit the Service's Information, Planning, and Conservation (IPaC) website at http://ecos/fws.gov/ipac/ within 90 days of project initiation to ensure species information is correct. If new species or critical habitat is identified, this letter is no longer valid and a new project package should be submitted to the Oklahoma ESFO.

Information about the online project review process including instructions and use, species information, and other information regarding project reviews within Oklahoma is available at our website: <http://www.fws.gov/southwest/es/oklahoma/ >. If you have any questions, please call 918-581-7458 or send an email message to OKProjectReview@fws.gov.

Sincerely,
/s/ Jonna Polk
Field Supervisor
Oklahoma Ecological Services Field Office

Enclosures:

1) ENTIRE PROJECT REVIEW
   - ☑ PACKAGE: Species Conclusion Table
   - ☑ IPaC Species List and Action Area map
   - ☑ This letter (Online Concurrence Letter)
   - ☑ (Optional) Additional maps
2) Other relevant project data/documents

ENDANGERED, THREATENED AND CANDIDATE SPECIES, DESIGNATED CRITICAL HABITAT, BALD EAGLE AND MIGRATORY BIRD ASSESSMENTS

For

USFWS TAILS #		**02EKOK00-2021-SLI-0394**			
Email used to request IPaC official species list		Biologist@GarverUSA.com			
County	Grant	JP Number	32852(04)	Project Number	J3-2852(004)CI
Road Number	NS 301	Water Body Name		Unnamed Tributaries to the Salt Fork Arkansas River	
ROW Date	2021	Let Date	2023	Project Length	0.45 mile
Project General Location		Proposed Project Begins at the NS 301/EW 260 Intersection and Extends North Approximately 0.45 Mile			
Project Description & Statement From Oracle		Bridge and Approaches on NS 301 Over Unnamed Creek, 2.0 Miles North and 2.9 Miles West of Salt Fork			

Prepared for:
Oklahoma Department of Transportation
Environmental Programs Division
200 NE 21st Street
Oklahoma City, OK 73105

Prepared by:

Biologist Name	Megan Philips-Schaap
Company/Agency Name	Garver
Address	6450 S. Lewis
City, State Zip	Tulsa, OK 74136

Report Date:	January 4, 2021
Field Survey Date	December 3, 2020
Field Survey Biologist(s)	Megan Philips-Schaap

1. PROJECT OVERVIEW

1.1 Federal Nexus

This biological assessment, prepared by the above named Company/Agency for the Oklahoma Department of Transportation (ODOT), addresses the above named project in compliance with Section 7(c) of the Endangered Species Act (ESA) of 1973, as amended. Section 7 of the ESA requires that, through consultation with the U.S. Fish and Wildlife Service (Service), federal actions do not jeopardize the continued existence of any threatened, endangered, or proposed species or result in the destruction or adverse modification of critical habitat. This assessment evaluates the potential effects of the proposed transportation project on species that are federally listed under the ESA. Specific project design elements are identified that avoid or minimize adverse effects of the proposed project on listed species and designated critical habitat.

1.2. Project Description

Bridge and Approaches or bridge widening/structure extension

Description of the **existing** bridge/roadway facility and reason for proposed project

The existing bridge (NBI 13474, Str. 27N3010E0250008) on NS 301 over an unnamed creek is a 24-foot-wide timber span bridge with a 23-foot-wide clear roadway. The bridge has a sufficiency rating of 38.5 and is rated as structurally deficient. The bridge is currently load posted at 12 tons. The existing asphalt roadway is 18 feet wide with two 9-foot-wide driving lanes and no shoulders. Existing average annual daily traffic (AADT) is 50 vehicles per day (vpd) with a 20-year future projected AADT of 75 vpd. The purpose of this project is to correct a structurally deficient bridge.

Description of **proposed** improvements

The proposed project will replace the existing bridge with a 28-foot-wide triple span bridge on existing alignment. The existing NS 301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with 3-foot-wide outside sod shoulders on existing alignment. In addition, a drainage structure located approximately 0.15 mile north of the existing bridge will be replaced. The roadway will be closed to traffic during construction and traffic will be detoured to adjacent county roads.

Check if any of the following is expected s part of the proposed action

Work within OHWM is expected			☒
Project is OFF-SET alignment	☐	or NEW alignment	☐
Project involves **NO OFF EXISTING PAVEMENT** work			☐
Project requires new ROW (permanent &/or temporary)			☒

1.3. Project Area and Setting

Project Location		Environmental Study Footprint		Ecoregion & Game Type	
Section Range & Township	Lat/Long NAD 83)	Dimensions	Acreage	Level IV Ecoregion (Woods et al. 2005)	Game Type (Duck and Fletcher 1943)
S16, S17, S20 and S21, T25N, R4W	Center of Bridge: 36.639781, -97.641906 South End: 36.636505, -97.641904 North End: 36.643098, -97.641912	Beginning at the NS 301 and EW 260 intersection and extending north approximately 0.45 mile along NS 301 with widths varying from 100 feet to 140 feet from the center of the roadway.	12.1	Prairie Tableland (27d) of the Central Great Plains	Tallgrass Prairie

Action Area:
The Action Area for JP 32852(04) is the NEPA footprint plus a 0.25-mile buffer for the migratory birds.

2. FEDERALLY LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Species Range and Occurrence Evaluation (Check √ all that apply)

Species	IPaC[1]	Watershed[2]	Water Body[3]	Records[4]
	Check if Yes	Check if YES	Check if Yes	Check if Yes
Red-cockaded Woodpecker	☐			☐
Whooping Crane	☒	☐		☐
Gray Bat	☐	☐		☐
Indiana Bat	☐			☐
Ozark Big-eared Bat	☐			☐
Neosho Mucket	☐	☐	☐	☐
Ouachita Rock Pocketbook	☐	☐	☐	☐
Scaleshell Mussel	☐	☐	☐	☐
Winged Mapleleaf	☐	☐	☐	☐
American Burying Beetle	☐			☐
Harperella	☐			☐
Piping Plover	☒			☐
Red Knot	☒			☐
Northern Long-eared Bat	☐			☐

Species	IPaC[1]	Watershed[2]	Water Body[3]	Records[4]
	Check if Yes	Check if YES	Check if Yes	Check if Yes
Arkansas River Shiner	☐	☐	☐	☐
Leopard Darter	☐	☐	☐	☐
Neosho Madtom	☐	☐	☐	☐
Ozark Cavefish	☐	☐		☐
American Alligator	☐			☐
Rabbitsfoot Mussel	☐	☐	☐	☐
Rattlesnake-master Borer Moth	☐			☐

[1]Species is on the Proposed Project's IPaC List
[2]Action Area is within a watershed associated with occupied water bodies
[3]Action Area includes an occupied water body
[4]Project site within 5 miles of known records

Designated or Proposed Critical Habitat	Action Area includes Designated Critical Habitat (Check √ if Yes)
Whooping Crane	☐
Arkansas River Shiner	☐
Leopard Darter	☐
Neosho Mucket	☐
Rabbitsfoot	☐

All or part of the action area is within an **American Burying Beetle** Conservation Priority Area ☐

All of part of the action area is within the 10 mile **gray bat** priority area (ODOT will check) ☐
All of part of the action area is within the 2 mile **gray bat** priority area (ODOT will check) ☐

IPaC Special Conditions Identified (wind energy projects or cell towers) for **Piping Plovers** ☐

Action area is within what percentage **Whooping Crane** migratory corridor **95%**

Action area is within 15 miles of Salt Plains NWR, Hackberry Flat, or Foss Reservoir. ☐

Action area is within the historic range of the **Red-cockaded Woodpecker** ☐
Action area is within 10 miles of the McCurtain County Wilderness Area ☐
Action area is within 10 miles of the Pushmataha Wildlife Management Area ☐

3. ENVIRONMENTAL BASELINE

3.1. Ecological Processes and Conditions

Soils (Use Soil Map of Oklahoma by Carter and Gregory 2008)

Soil Class	Central Rolling Red Prairies
Soil Name	Port-Dale-Yahola-Gaddy-Gracemore-McLain-Reinach
Soil Type	Very deep, sandy and loamy and silty soils on nearly level slopes (1%)
Soil Characteristics	Mollisols and Entisols

Climate (Use Woods et al. 2005)

Precipitation	Mean annual inches	27-37
Growing Season	Number of days	190-215
Mean Temperatures	Summer min/max	70°F / 95°F
	Winter min/max	20°F / 44°F

River System

According to the 1968 Lamont NW, Okla. 7.5-minute United States Geological Survey (USGS) topographic quadrangle, five unnamed intermittent tributaries to the Salt Fork Arkansas River occur within the Action Area.

Land Use and Land Ownership

From Woods et al. 2005	Mostly cropland; also, especially on steeper slopes, rangeland. Shelterbelt plantings are common. Main crops include winter wheat, grain sorghum, alfalfa, and in the east where precipitation is the greatest, soybeans. Some cotton is grown on smooth uplands and bottomlands that are suited to mechanization. Oil and gas fields occur.
From Field investigation	The study area primarily contains open grassland, agricultural fields, and roadway. The remainder of the study area is occupied by watercourses, herbaceous riparian habitat, one palustrine emergent (PEM) wetland, and maintained right-of-way (ROW). According to the 1968 Lamont NW, Okla. 7.5-minute USGS topographic quadrangle, two intermittent streams (unnamed tributaries to the Salt Fork Arkansas River) occur within the study area.

Terrestrial and Aquatic Community Descriptions (based on field site visit)

Terrestrial community types within the NEPA Footprint includes herbaceous riparian habitat, PEM wetland, open grassland, agricultural fields, and maintained ROW. Vegetation present within the herbaceous riparian habitats predominately consist of Johnson grass (*Sorghum halepense*), a maple (*Acer* sp.), common sunflower (*Helianthus annuus*), and a dropseed (*Sporobolus* sp.). Vegetation present within the small PEM wetland predominately consist of common spike-rush (*Eleocharis palustris*), a rush (*Juncus* sp.), and a duckweed (*Lemna* sp.). Vegetation present within the open grassland habitat predominately consist of Johnson grass,

common sunflower, annual ragweed (*Ambrosia artemisiifolia*), a bluestem (*Andropogon* sp.), Carolina horse-nettle (*Solanum carolinense*), and an aster (*Symphyotrichum* sp.). Vegetation present within agricultural fields consist of soybean (*Glycine max*). Vegetation present within maintained ROW habitat include Johnson grass and henbit deadnettle (*Lamium amplexicaule*).

According to the closest weather station (Enid, OK, KOKENID50) to the study area, the area received 2.43 inches of rainfall within the two weeks prior to the December 3rd field investigation with 0.73 inches occurring on December 2nd, the day before the start of the field investigation. As previously mentioned, there are two USGS-mapped streams (both unnamed tributaries to the Salt Fork Arkansas River) that occur within the study footprint. The streams flow southwest to northeast. No aquatic organisms were observed.

During the site investigation, two structures (i.e., bridges) were inspected for migratory bird use and were evaluated for their suitability as potential roosting and/or nesting structures. Past use was observed at one bridge (NBI 13474) structure. Section 5.2 *Migratory Bird Assessment* includes a table of structures inspected for migratory bird use.

3.2 Species Habitat Analysis

Pedestrian survey of entire NEPA study footprint (including 300-foot work zone buffer in karst areas) ☒
Bridge/Structure inspected for bat use (Complete the Bridge Inspection Form) ☐

SPECIES	HABITAT	
Whooping Crane	Shallowly-submerged sandbars in large river channels occur within the **0.25 miles of the NEPA Environmental Study Footprint**.	☐
	If within the 75% migration corridor, provide the number of acres of emergent wetlands that occur within the **NEPA Environmental Study Footprint**.	NA
	Croplands suitable for foraging occur within the **0.25 miles of the NEPA Environmental Study Footprint** and is within the 95% migration corridor.	☒
Piping Plover	Sparsely vegetated sandy or gravelly shorelines and islands associated with the major river systems occur within the **0.25 miles of the NEPA Environmental Study Footprint.**	☐
	Salt flats and mudflats associated with reservoirs occur within the **0.25 miles of the NEPA Environmental Study Footprint.**	☐
Red Knot	Mudflats associated with reservoirs occur within the **0.25 miles of the NEPA Environmental Study Footprint.**	☐

4. ANALYSIS OF EFFECTS

4.1 Direct Effects

Species/ Resource	Habitat impacts expected from project activities	Describe specific ACTIONS of the project and the results of those actions on species habitats, including indirect impacts to prey or drinking water, as well as improvements to habitat as a result of specific actions. If habitat within the action area identified above will not be impacted, describe why.
Whooping Crane	☒	Agricultural crop lands that could be used as foraging habitat for whooping cranes are present within the Action Area and the NEPA Footprint. Agricultural fields occur on both sides of NS 301 within the NEPA Footprint and the Action Area and could potentially be used during migration periods for this species. Temporary impacts to the species (due to disturbance) may occur from the associated noise and presence of workers and equipment during construction.

4.2 Indirect Effects

Long-term habitat alterations

Species/ Resource	Identify long-term, permanent changes in habitat
Whooping Crane	No indirect and long-term habitat alterations are expected from the project.

Indirect land use impacts

The proposed project involves replacing the existing bridge, replacing a drainage structure to the north, and improving the approaches. No indirect land use impacts are expected.

4.3 Interrelated and Interdependent Actions and Activities

There are no known interrelated or interdependent actions or activities.

USFWS TAILS Number:	**02EKOK00-2021-SLI-0394**
ODOT Project JP Number:	**32852(04)**

SPECIES / DESIGNATED CRITICAL HABIT	**CONCLUSION**		**ESA SECTION 7**			**NOTES AND DOCUMENTATION Check √ all that apply**			
	Species Habitat present within the action area	Project Activities expected to impact habitat	No Effect	May affect, not likely to adversely affect	May affect, Likely to adversely affect	Field Studies	ONHI database / ABB	USFWS occupied waterbodies & watersheds	Whooping Crane Migration Corridor
Whooping Crane	☒	☒	☐	☒	☐	☒	☒	☐	☒
Piping Plover	☐	☐	☒	☐	☐	☒	☒	☐	☐
Red Knot	☐	☐	☒	☐	☐	☒	☒	☐	☐

CONCLUSIONS

No Effect	Piping Plover, and Red Knot
May affect, not likely to adversely affect	Whooping Crane
May affect, likely to adversely affect	

RECOMMENDED AVOIDANCE AND MINIMIZATION MEASURES

If **Whooping Cranes** are seen at or within one mile of the proposed work site, the Resident Engineer shall immediately contact the ODOT Biologist. The location and time a Whooping Crane was seen shall be recorded and provided to the ODOT Biologist. If there is a confirmed sighting and/or Whooping Cranes are observed within one mile of the proposed work site, all construction activities shall cease until it is determined that Whooping Cranes have left the project vicinity without being harassed. An 8x10 photograph of the Whooping Crane along with a written description of the bird, as well as ODOT contact information, shall be posted at the construction site at all times.

5. BALD EAGLE AND SWALLOW ASSESSMENT

5.1. Bald Eagle Assessment

The Bald Eagle (*Haliaeetus leucocephalus*) is a large predatory bird protected by the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. Activities that would disturb eagles are prohibited under the Bald and Golden Eagle Protection Act. "Disturb" means to agitate an eagle to the degree that causes or is likely to (1) cause injury, (2) interfere with breeding, feeding or sheltering behavior, or (3) nest abandonment.

Potential Bald Eagle Habitat Present	w/in NEPA Footprint	w/in 660 ft Buffer of NEPA Footprint	DO NOT LEAVE BLANK
Presence of Cottonwood, Sycamore, Pecan or Pine	☐	☐	Large open-canopied tree species such as eastern cottonwood, American sycamore, pecan or pine were not observed within the NEPA Footprint or the 660-foot buffer.
Open foraging areas with large trees	☐	☒	Open habitat with large trees occurs mainly northeast of the NEPA Footprint and within the 660-foot buffer. These trees are smaller in size and not considered super canopy trees.
Distance to closest perennial water body	River or Lake	0.40 mi	The Salt Fork Arkansas River, a mapped perennial stream, is located approximately 0.40 mile north of the 660-foot buffer. There is one perennial stream (OW 1) located within the NEPA Footprint.
	Stream or Pond	0 ft	
Potential Bald Eagle Nests Observed	☐	☐	No bald eagle nests were observed within the NEPA Footprint or 660-foot buffer during the field studies.

Potential Bald Eagle Habitat Present	w/in NEPA Footprint	w/in 660 ft Buffer of NEPA Footprint	DO NOT LEAVE BLANK
Bald Eagles Observed in the general vicinity	☐	☐	No bald eagles were observed within the NEPA Footprint or 660-foot buffer during the field studies.
General Description of Bald Eagle Nesting Habitat and Impact Determination, within the NEPA Footprint and within 660-ft of the NEPA Footprint	Large canopy trees were not observed within the NEPA Footprint or within the 660-foot buffer of the NEPA Footprint. Of the trees present, they were smaller in size and were mainly maples (Acer sp.), black locust (Robinia pseudoacacia), eastern red cedar (Juniperus virginiana), and osage orange (Maclura pomifera). Therefore, no nesting habitat for bald eagles was observed and no impact to nesting habitat is to be expected from this project.		
Station #s for Buffered Bald Eagle Habitat	No suitable bald eagle nesting habitat was observed within the NEPA Footprint or the 660-foot buffer.		

5.2 Migratory Bird Assessment

Cliff Swallows (*Petrochelidon pyrrhonota*) and Barn Swallows (*Hirundo rustica*) are small colonial and semi-colonial nesting birds protected by the federal Migratory Bird Treaty Act. Barn Swallows use man-made structures for nesting and live in close association with humans. Both species commonly use bridges and culverts in Oklahoma for nesting. Other migratory birds can also nest on transportation structures.

Identify ALL structures including pipe culverts and whether positive or negative for migratory birds (identify named streams where possible rather than just FS#). Provide shapefiles and map of structures identifying pos/neg swallow structures.	Approx. Number of Cliff Swallow Nests	Approx. Number of Barn Swallow Nests	Approx. Number of Eastern Phoebe Nests
NS 301, Unnamed Creek, NBI 13474*	None	None	Past Use (N=1)
RCB, NS 301, Lat/Long 36.642052, -97.641900	None	None	None
Other MB and Nests Observed	* The second nest observed under the existing bridge is potentially a raptor or owl nest. Whitewash was observed on a bridge beam near the potential nest (see Photograph 11) .		
Based on existing plans, no work on suitable drainage structures will occur	☐		
In order to avoid impacts to migratory birds, if structures are being used by these birds, any activities that may destroy active nests, eggs or birds shall be completed between September 1, and February 28, when nests are not occupied. If seasonal avoidance cannot be accomplished, structures shall be protected from new nest establishment prior to March 1, by means that do not result in death or injury to these birds.			
Owls are migratory birds, protected by the federal Migratory Bird Treaty Act. This species commonly uses bridges and culverts for nesting. The nesting season for Owls extends from December 15 to July 15. Any activities which would destroy active nests or harm eggs or birds would violate the Migratory Bird Treaty Act. If owls are observed using the bridge, contact the ODOT Biologist immediately.			

5.3 Birds of Conservation Concern

Species Identified on IPaC list	Breeding Season
None listed	

6. REFERENCES:

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7. FIGURES

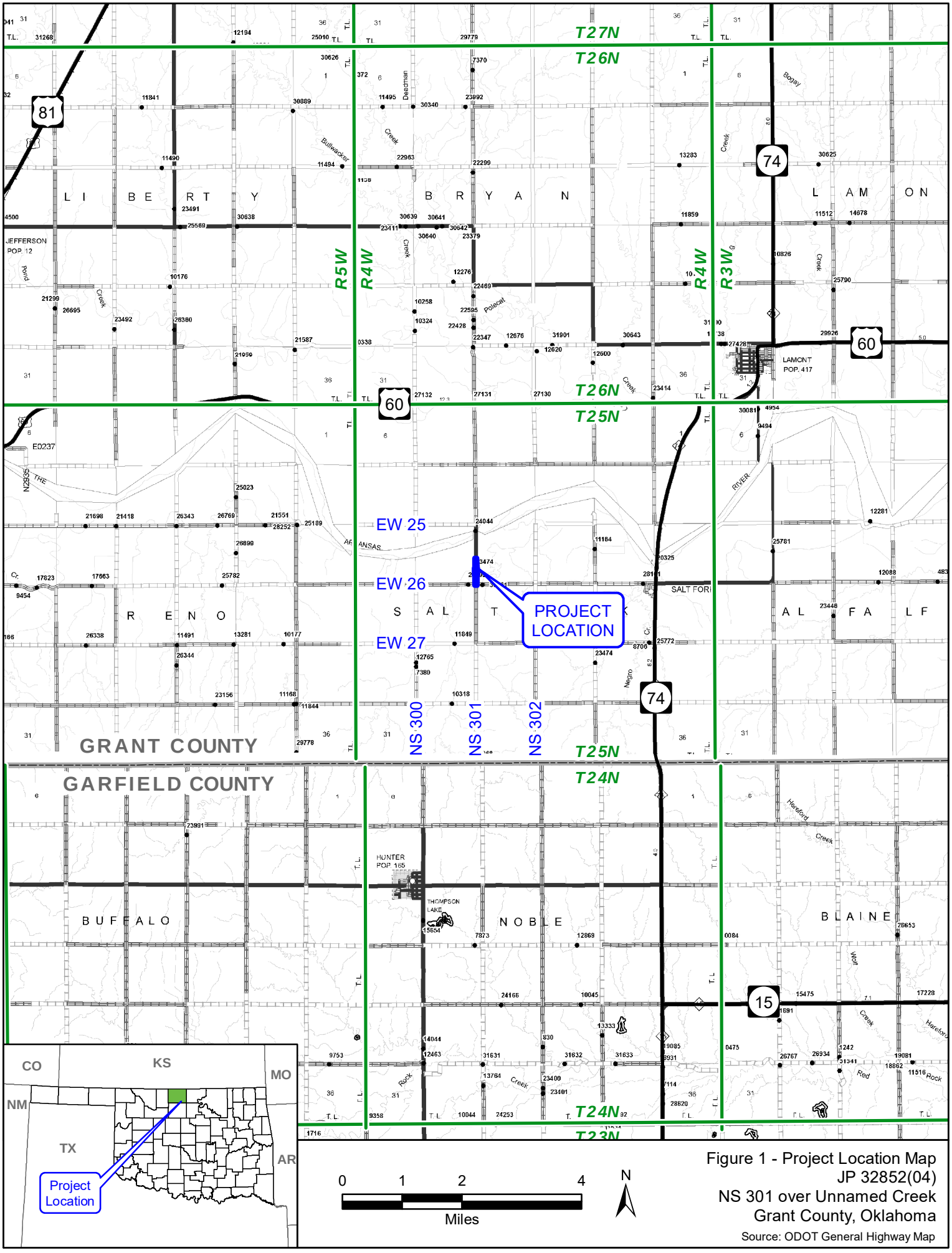


Figure 1 - Project Location Map
JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma
Source: ODOT General Highway Map

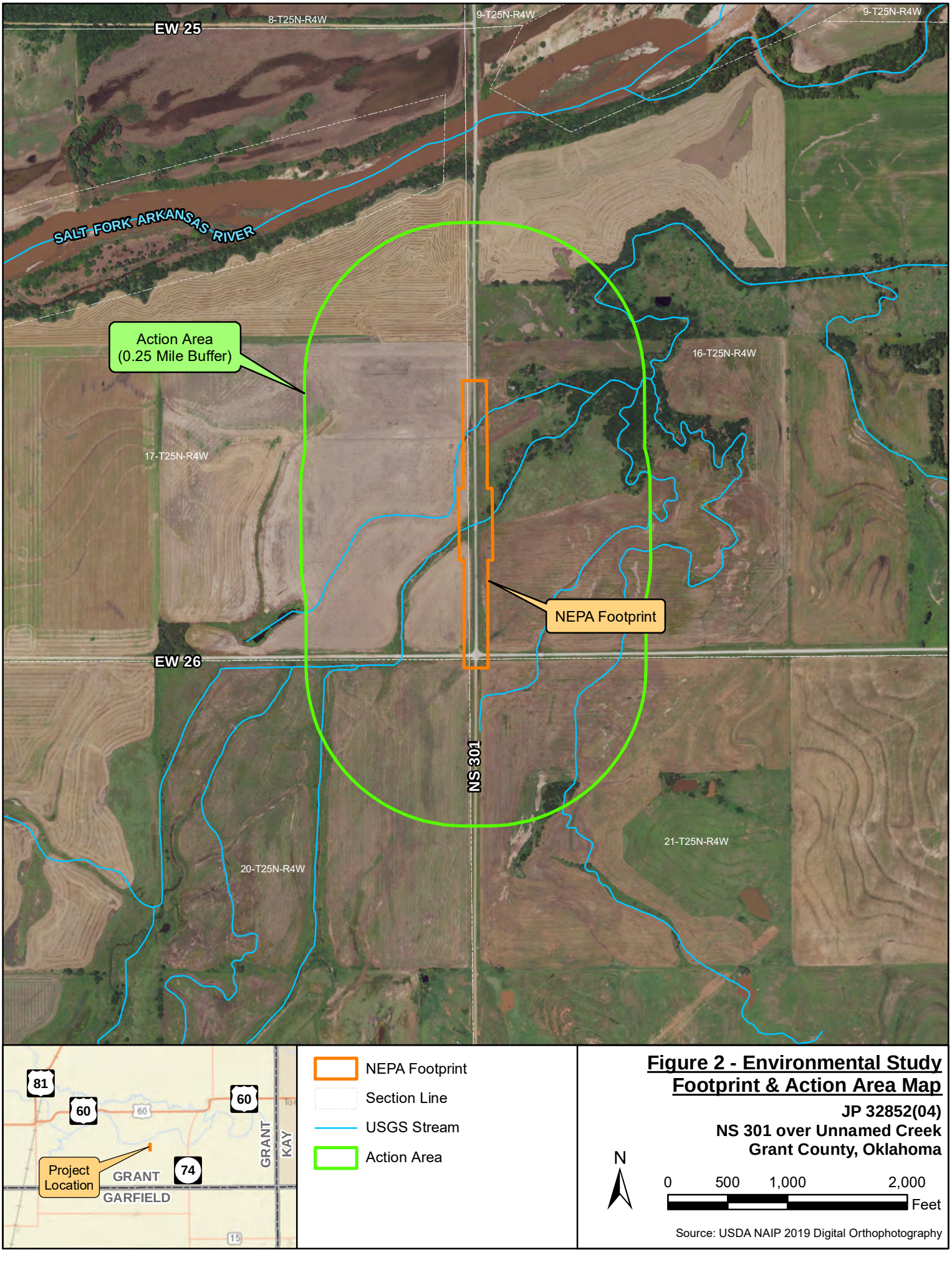


Figure 2 - Environmental Study Footprint & Action Area Map

JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma

Source: USDA NAIP 2019 Digital Orthophotography

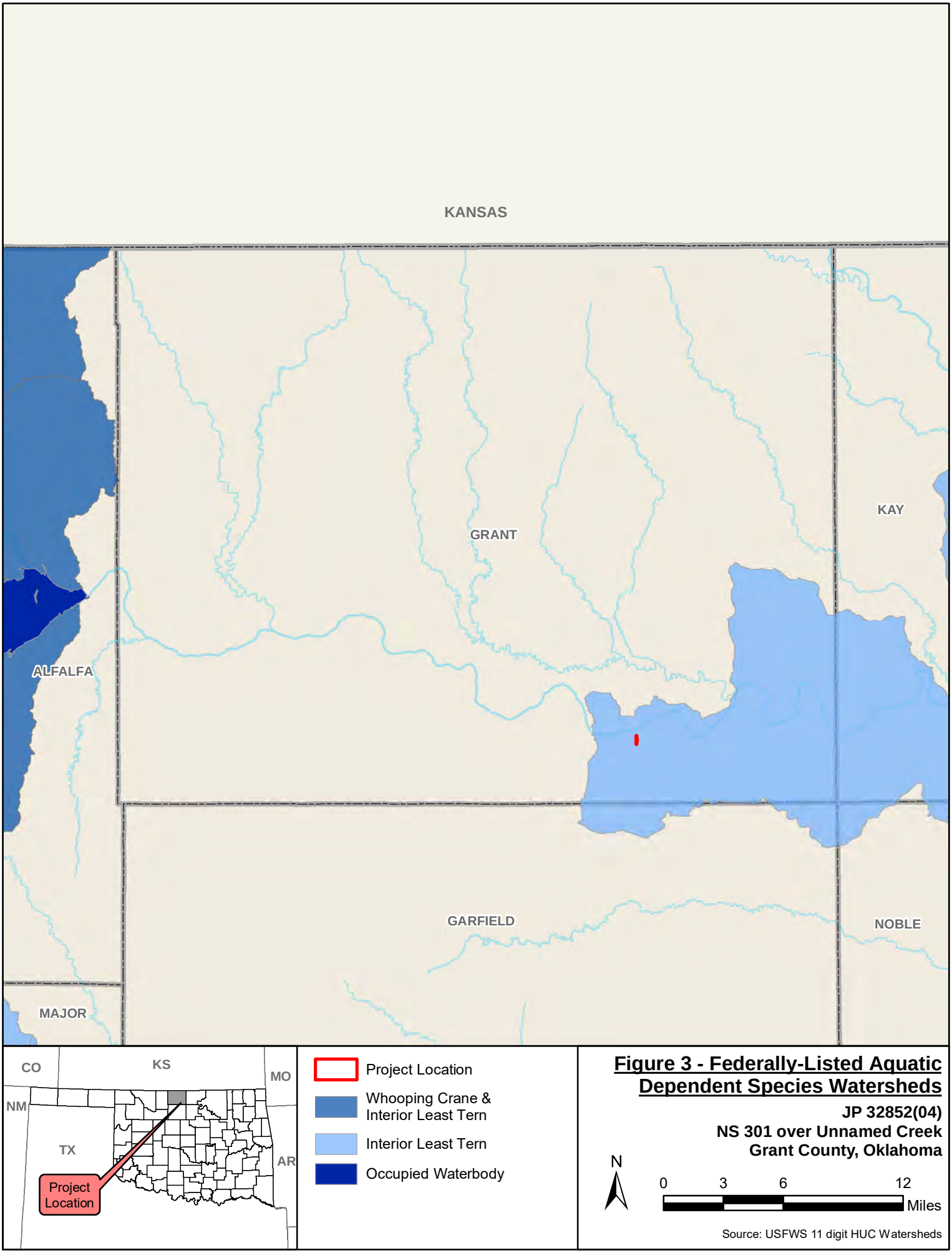
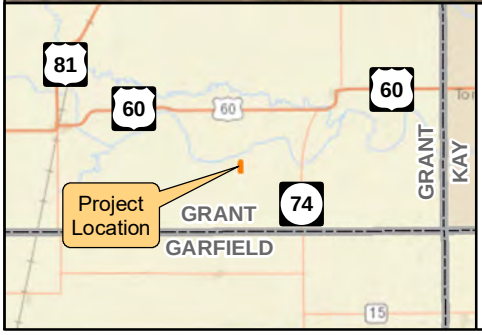


Figure 3 - Federally-Listed Aquatic Dependent Species Watersheds

JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma

Source: USFWS 11 digit HUC Watersheds



NEPA Footprint
Section Line
USGS Stream
Past Use
No Use

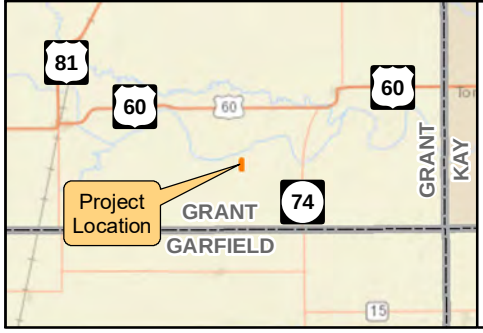
Figure 7 - Bridge & Culvert Structures Location Map

JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma

N

0 150 300 600
Feet

Source: USDA NAIP 2019 Digital Orthophotography



NEPA Footprint

Section Line

USGS Stream

Photo Site (PS)

Figure 8 - Photo Log Location Map

JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma

N

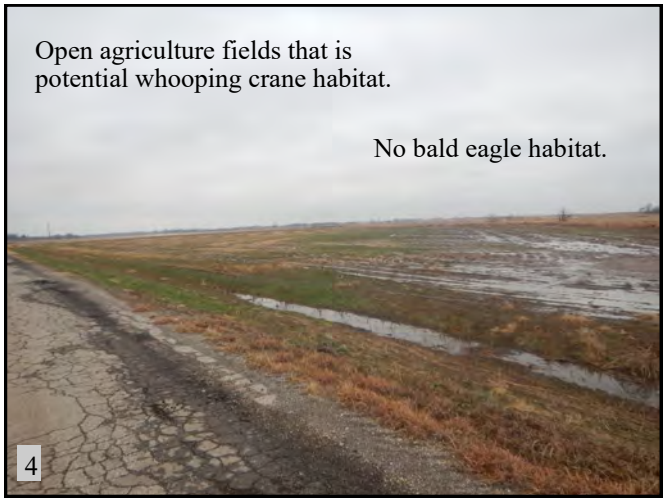
0 150 300 600 Feet

Source: USDA NAIP 2019 Digital Orthophotography

▲(PS 1): View of the NS 301 and EW 260 intersection. View is to the north.

▲(PS 1): View of NS 301 and vegetation within the right -of-way. View is to the north.

▲(PS 2): View of vegetation within the footprint and the 660-foot buffer. View is to the southeast.



▲(PS 2): View of vegetation within the footprint and the 660-foot buffer. View is to the southwest.

▲(PS 2): View of NS 301 and right-of-way vegetation. View is to the north.

▲(PS 3): View of OW 1 towards existing bridge (NBI 13474). View is downstream to the northeast.

Grant County, OK
J/P No. 32852(04)

On-site photographs taken December 3, 2020
Garver Project No. 19T14047

▲(PS 4): View of OW 1. View is upstream to the southwest.

▲(PS 4): View of OW 1 from existing bridge. View is downstream to the northeast.

▲(PS 4): View of wood/cedar end walls of existing bridge. View is to the northeast.

▲(PS 4): View of wood/cedar deck of the existing bridge. Past evidence of eastern phoebe nest observed.

▲(PS 4): View of potential nest under the existing bridge. Located near the north end wall.

▲(PS 4): View of existing bridge (NBI 13474) over OW 1. View is to the southwest.

Grant County, OK
J/P No. 32852(04)

On-site photographs taken December 3, 2020
Garver Project No. 19T14047

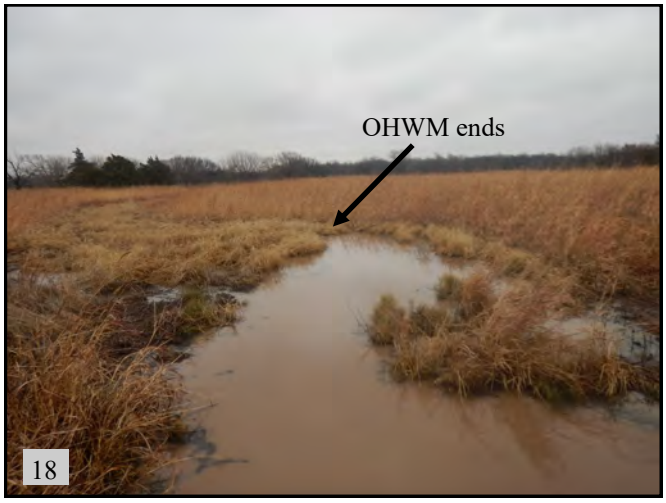
▲(PS 5): View of OW 1 towards the existing bridge. View is upstream to the southwest.

▲(PS 6): View of Wetland 1, a PEM wetland. View is to the west.

▲(PS 6): View of soils collected at DP 1 within Wetland 1.

▲(PS 6): View of wooded habitat located north of OW 1 and east of NS 301. View is to the east.

▲(PS 6): View of soils collected at DP 3, an upland data point.



▲(PS 7): View of OW 2. View is downstream to the northeast.

Grant County, OK
J/P No. 32852(04)

On-site photographs taken December 3, 2020
Garver Project No. 19T14047

▲(PS 7): View of RCB structure at OW 2. View is upstream to the southwest.

▲(PS 7): View of OW 2 on the west side of NS 301. View is upstream to the south.

▲(PS 7): View of RCB structure at OW 2. View is to the east.

▲(PS 8): View of habitat within the 660-foot buffer of the NEPA Footprint. View is to the northwest.

▲(PS 8): View of habitat east of NS 301. View is to the east.

▲(PS 8): View of NS 301 from the north end of the study area. View is to the south.

Grant County, OK
J/P No. 32852(04)

On-site photographs taken December 3, 2020
Garver Project No. 19T14047

United States Department of the Interior

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http://www.fws.gov/southwest/es/Oklahoma/

In Reply Refer To: February 18, 2021
Consultation Code: 02EKOK00-2021-SLI-0394
Event Code: 02EKOK00-2021-E-02376
Project Name: Grant Co. JP 32852(04)

Subject: Updated list of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Non-federal entities conducting activities that may result in take of listed species should consider seeking coverage under section 10 of the ESA, either through development of a Habitat Conservation Plan (HCP) or, by becoming a signatory to the General Conservation Plan (GCP) currently under development for the American burying beetle. Each of these mechanisms provides the means for obtaining a permit and coverage for incidental take of listed species during otherwise lawful activities.

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit through our Project Review step-wise process http://www.fws.gov/southwest/es/oklahoma/OKESFO%20Permit%20Home.htm.

Attachment(s):

- Official Species List

- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Oklahoma Ecological Services Field Office
9014 East 21st Street
Tulsa, OK 74129-1428
(918) 581-7458

Project Summary

Consultation Code: 02EKOK00-2021-SLI-0394
Event Code: 02EKOK00-2021-E-02376
Project Name: Grant Co. JP 32852(04)
Project Type: TRANSPORTATION
Project Description: The existing bridge (NBI 13474) on NS 301 over an unnamed creek is a 24-foot-wide span bridge with a 23-foot-wide approach roadway. The bridge has a sufficiency rating of 38.5 and is rated as structurally deficient. The bridge is currently load posted at 12 tons. The existing asphalt roadway has two 9-foot-wide driving lanes with no shoulders. Existing average annual daily traffic (AADT) is 50 vehicles per day (vpd) with a 20-year future projected AADT of 75 vpd. The purpose of this project is to correct a structurally deficient bridge.

The proposed project will replace the existing bridge (NBI 13474) with a 28-foot-wide triple span PCB bridge using ODOT standards on existing alignment. The existing NS 301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with two 3-foot-wide sod shoulders on existing alignment. In addition, a drainage structure north of the existing bridge will be replaced. The roadway will be closed to traffic during construction and traffic will be detoured to adjacent county roads.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@36.639802536576624,-97.64189639943244,14z

Counties: Grant County, Oklahoma

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Birds

NAME	STATUS
Piping Plover *Charadrius melodus* Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot *Calidris canutus rufa* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Whooping Crane *Grus americana* Population: Wherever found, except where listed as an experimental population There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/758	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?
The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?
To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?
Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects
For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical

Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?
If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report
The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

FRESHWATER FORESTED/SHRUB WETLAND

- PFO1A

FRESHWATER POND

- PUSAh

RIVERINE

- R2UBH
- R4SBC
- R4SBCx
- R5UBF

WATERS AND WETLANDS EVALUATION REPORT

For

County	Grant	JP Number	32852(04)	Project Number	J3-2852(004)CI
Road Number	NS 301	Water Body Name		Unnamed Tributaries to the Salt Fork Arkansas River	
ROW Date	2021	Let Date	2023	Project Length	0.45 mile
Project General Location		Proposed Project Begins at the NS 301/EW 260 Intersection and Extends North Approximately 0.45 Mile			
Project Statement		Bridge and Approaches on NS 301 Over Unnamed Creek, 2.0 Miles North and 2.9 Miles West of Salt Fork			

Prepared for:
Oklahoma Department of Transportation
Environmental Programs Division
200 NE 21st Street
Oklahoma City, OK 73105

Prepared by:

Biologist Name	Megan Philips-Schaap
Company/Agency Name	Garver
Address	6450 S. Lewis
City, State Zip	Tulsa, OK 74136

Report Date:	December 28, 2020
Field Date:	December 3, 2020

PROJECT OVERVIEW

Project Type (Choose one)	**Check √**
Bridge and Approaches or bridge widening/structure extension	√
Grade, Drain, Surface and Bridge	
Grade, Drain and Surface	
Asphalt Overlay Resurfacing	
Widen and Resurface existing lanes	
Pavement Reconstruction or rehabilitation	
Bridge Rehabilitation	
Safety Improvements (Cable Barrier, Guardrail, signage)	
Intersection Modifications	
Safe Routes to School (Describe)	
Enhancements (Describe)	
Other (Describe)	

Description of the **existing** bridge/roadway

The existing bridge (NBI 13474, Str. 27N3010E0250008) on NS 301 over an unnamed creek is a 24-foot-wide span bridge with a 23-foot-wide clear roadway. The bridge has a sufficiency rating of 38.5 and is rated as structurally deficient. The bridge is currently load posted at 12 tons. The existing asphalt roadway is 18 feet wide with two 9-foot-wide driving lanes and no shoulders. Existing average annual daily traffic (AADT) is 50 vehicles per day (vpd) with a 20-year future projected AADT of 75 vpd. The purpose of this project is to correct a structurally deficient bridge.

Description of **proposed** improvements **SPECIFIC TO THIS PROJECT**

The proposed project will replace the existing bridge (NBI 13474, Str. 27N3010E0250008) with a 28-foot-wide bridge on existing alignment. The existing NS 301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with 3-foot-wide outside sod shoulders on existing alignment. In addition, a drainage structure located approximately 0.15 mile north of the existing bridge will be replaced. The roadway will be closed to traffic during construction and traffic will be detoured to adjacent county roads.

Project Environmental Study Footprint

Project Location		Environmental Study Footprint	
Section Range & Township	Lat/Long (NAD 83)	Dimensions	Acreage
S16, S17, S20 and S21, T25N, R4W	Center of Bridge: 36.639781, -97.641906 South End: 36.636505, -97.641904 North End: 36.643098, -97.641912	Beginning at the NS 301 and EW 260 intersection and extending north approximately 0.45 mile along NS 301 with widths varying from 100 feet to 140 feet from the center of the roadway.	12.1

Environmental Study Footprint Soils (NRCS Soil Survey Map)

Map Unit Name	Percent Slope	Drainage Class	Hydric Rating		Description
			YES	NO	
35	0 to 1	Moderately well drained		√	McLain-Drummond complex, rarely flooded

Environmental Study Footprint General Description and Vegetation Present

The study area is located southwest of Lamont in Grant County, Oklahoma. The 0.45-mile long segment of existing alignment begins at the NS 301 and EW 260 intersection and extends north approximately 0.45 mile along NS 301. The study area primarily contains open grassland, agricultural fields, and roadway. The remainder of the study area is occupied by watercourses, herbaceous riparian habitat, one palustrine emergent (PEM) wetland, and maintained right-of-way (ROW). According to the 1968 Lamont NW, Okla. 7.5-minute USGS topographic quadrangle, two intermittent streams (unnamed tributaries to the Salt Fork Arkansas River) occur within the study area. Field work was conducted December 3, 2020. According to the closest weather station (Enid, OK, KOKENID50) to the study area, the area received 2.43 inches of rainfall within the two weeks prior to the December 3rd field investigation with 0.73 inches occurring on December 2nd, the day before the start of the field investigation.

Vegetation present within the herbaceous riparian habitats predominately consist of Johnson grass (*Sorghum halepense*), a maple (*Acer* sp.), common sunflower (*Helianthus annuus*), and a dropseed (*Sporobolus* sp.). Vegetation present within the small PEM wetland predominately consist of common spike-rush (*Eleocharis palustris*), a rush (*Juncus* sp.), and a duckweed (*Lemna* sp.). Vegetation present within the open grassland habitat predominately consist of Johnson grass, common sunflower, annual ragweed (*Ambrosia artemisiifolia*), a bluestem (*Andropogon* sp.), Carolina horse-nettle (*Solanum carolinense*), and an aster (*Symphyotrichum* sp.). Vegetation present within agricultural fields consist of soybean (*Glycine max*). Vegetation present within maintained ROW habitat include Johnson grass and henbit deadnettle (*Lamium amplexicaule*).

WATERS AND WETLANDS EVALUATION

Data Sources Reviewed (list)

USGS 7.5 minute Quad	NWI Map	USACE Wetland Regional Supplement	Additional Resources Reviewed
1968 Lamont NW, Okla.	1981 Lamont NW, Okla.	Great Plains Region	Google Earth; NRCS Web Soil Survey; USDA Plant Database; USGS Water Resources

Wetlands and Ponds Summary Table

Field Sites	Type of Wetland or Pond	Cowardin Classification	Potential Jurisdictional Status	Acres within Environmental Study Footprint
W 1	Emergent	PEM1E	Likely	0.01

Streams and Drainages Summary Table

Field Sites	Stream Name	USGS Mapped Status	Potential Jurisdictional Status	Acres within Environmental Study Footprint	Linear Feet within Environmental Study Footprint
OW 1	Unnamed Tributary to the Salt Fork Arkansas River	Intermittent	Likely	0.11	320
OW 2	Unnamed Tributary to the Salt Fork Arkansas River	Intermittent	Likely	0.16	256

Streams and other linear aquatic features

OW 1 – An unnamed tributary to the Salt Fork Arkansas River, is a USGS-mapped intermittent stream, was observed as perennial during the field investigation. OW 1 is present on both sides of NS 301 where it flows southwest to northeast. An estimated total of 320 linear feet (0.11 acre) of OW 1 occurs within the study footprint. The ordinary high water mark (OHWM) west of the existing bridge was observed to be between 11 and 17 feet wide with an estimated depth of 1 to 1.5 feet. The OHWM east of the bridge was observed to be between 9 and 17 feet wide with an estimated depth of 1 to 1.5 feet. Almost an inch of rainfall (0.76 inch) occurred the day before the field survey, so the water level within the stream was higher than normal. Streambanks are steep and well vegetated (primarily by grasses), and the streambank erosion potential is low. A

wooded riparian zone is not present along OW 1; however, an herbaceous riparian zone approximately 15 feet in width is present along both banks of OW 1. The water within the stream was observed to be hazy brown in color and the stream substrate is predominantly clay. During the field investigation roots/root wads and drift material were observed. No aquatic organisms were observed. Dominant herbaceous riparian plant species observed include a maple, Johnson grass, and common sunflower. This feature is likely subject to regulation by the USACE as it is a USGS-mapped intermittent stream.

OW 2 – An unnamed tributary to the Salt Fork Arkansas River, is a USGS-mapped intermittent stream, was observed as intermittent during the field investigation. OW 2 is present on both sides of NS 301 where it flows southwest to northeast into OW 1. This stream feature meanders throughout agricultural fields and is most likely disturbed from the agriculture activities. An estimated total of 256 linear feet (0.16 acre) of OW 2 occurs within the study footprint. Almost an inch of rainfall (0.76 inch) occurred the day before the field survey, so the stream was flooded making the OHWM difficult to discern. The limits of the water in OW 2 was delineated and the OHWM west of NS 301 was estimated to be between 11 and 70 feet wide with an estimated depth of 6 to 12 inches. The OHWM east of NS 301 was observed to be between 12 and 16 feet wide with an estimated depth of 6 to 10 inches. The OHWM dropped off approximately 50 feet from the east edge of the study boundary, potentially due to agricultural practices in the area. Due to the amount of water within the stream, streambanks were not observed on either side of NS 301, but they are likely short, well vegetated (primarily by grasses), and the streambank erosion potential is low. OW 2 is located in open agricultural habitat, therefore a riparian zone is not present along the banks of OW 2. The water within the stream was observed to be muddy brown in color and the stream substrate is predominantly clay. During the field investigation drift material was observed. No aquatic organisms were observed. Dominant herbaceous riparian plant species observed include Johnson grass, cotton (*Gossypium* sp.), soybean, and henbit deadnettle. This feature is likely subject to regulation by the USACE as it is a USGS-mapped intermittent stream.

Wetlands and ponds

Wetland 1 – This wetland is not a USGS-mapped feature but classified as a PEM1E (Palustrine, Emergent, Persistent, Seasonally Flooded/Saturated Wetland) and is located east of NS 301 and north of OW 1 in the open grassland habitat. Wetland 1 was observed as an emergent wetland with surface water, a high water table, saturated soils, geomorphic position, the FAC-neutral test, and soils that exhibited a 1 cm muck layer. This feature was not illustrated on the 1968 Lamont NW, Okla. NWI map. Vegetation observed includes common spike-rush, duckweed, and a rush. Approximately 0.01 acre occurs within the footprint. This feature is likely subject to regulation by the USACE due to being adjacent to a USGS-mapped stream.

FIGURES

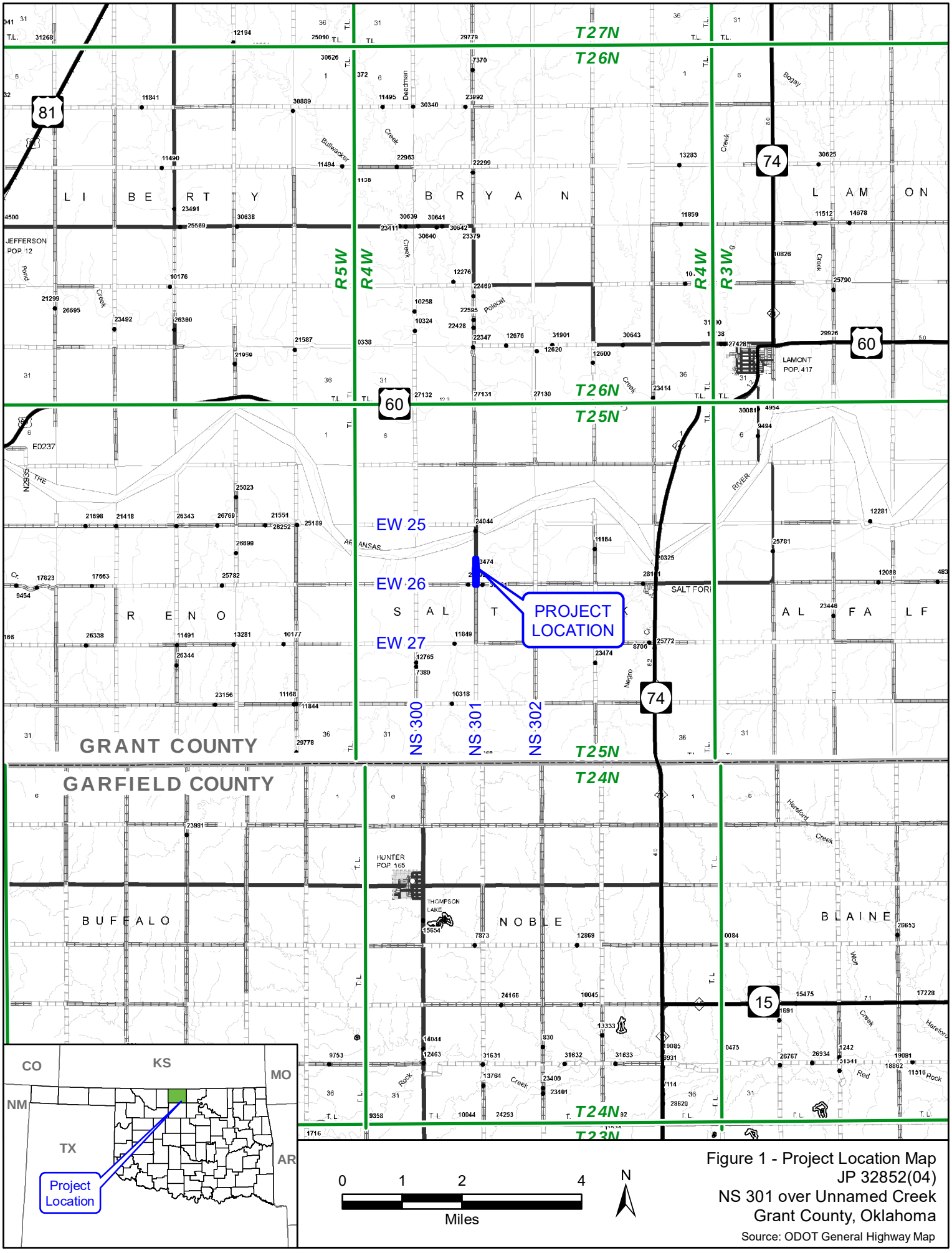


Figure 1 - Project Location Map
JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma
Source: ODOT General Highway Map

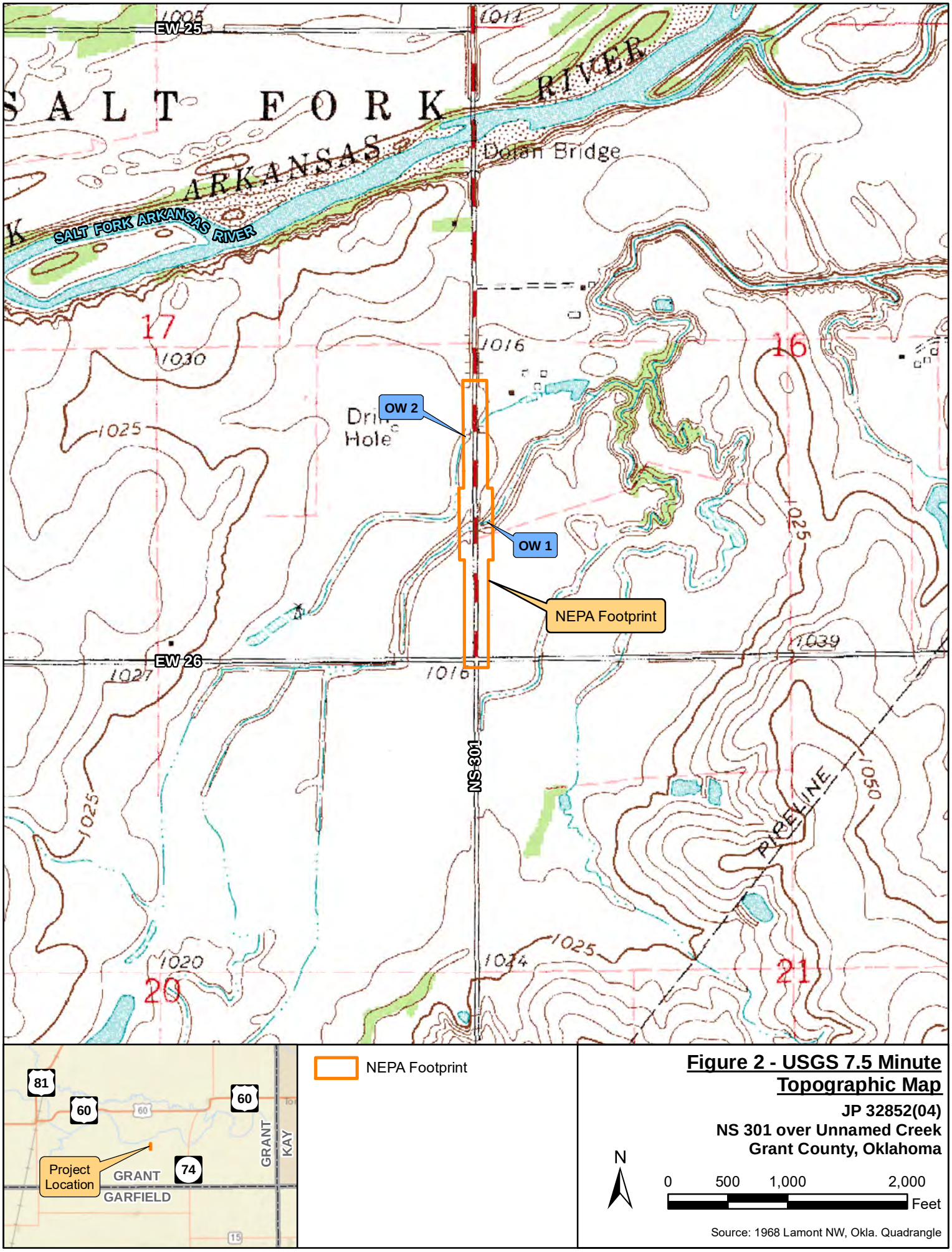


Figure 2 - USGS 7.5 Minute Topographic Map

JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma

Source: 1968 Lamont NW, Okla. Quadrangle

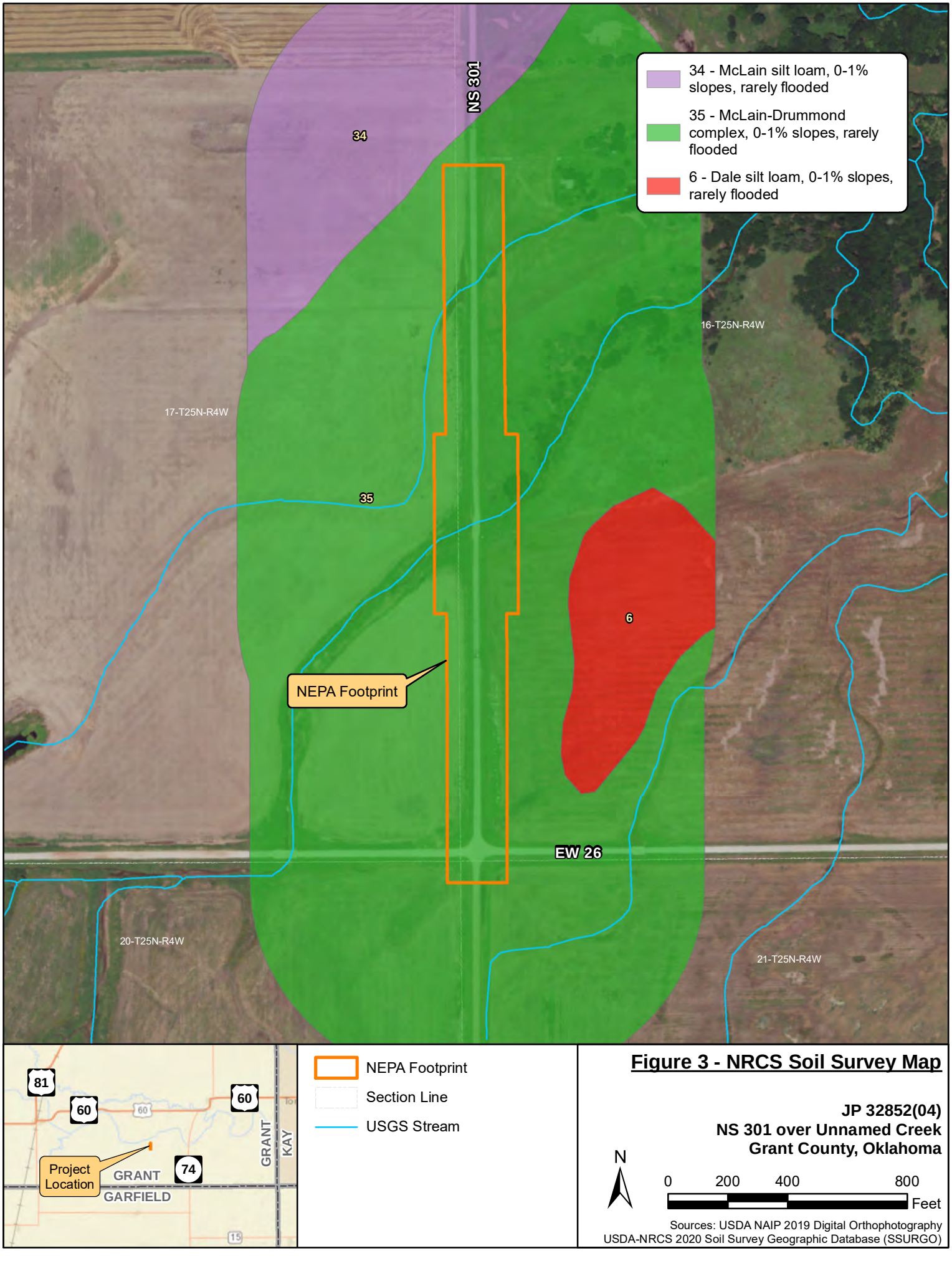


Figure 3 - NRCS Soil Survey Map

JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma

N

0 200 400 800 Feet

Sources: USDA NAIP 2019 Digital Orthophotography
USDA-NRCS 2020 Soil Survey Geographic Database (SSURGO)

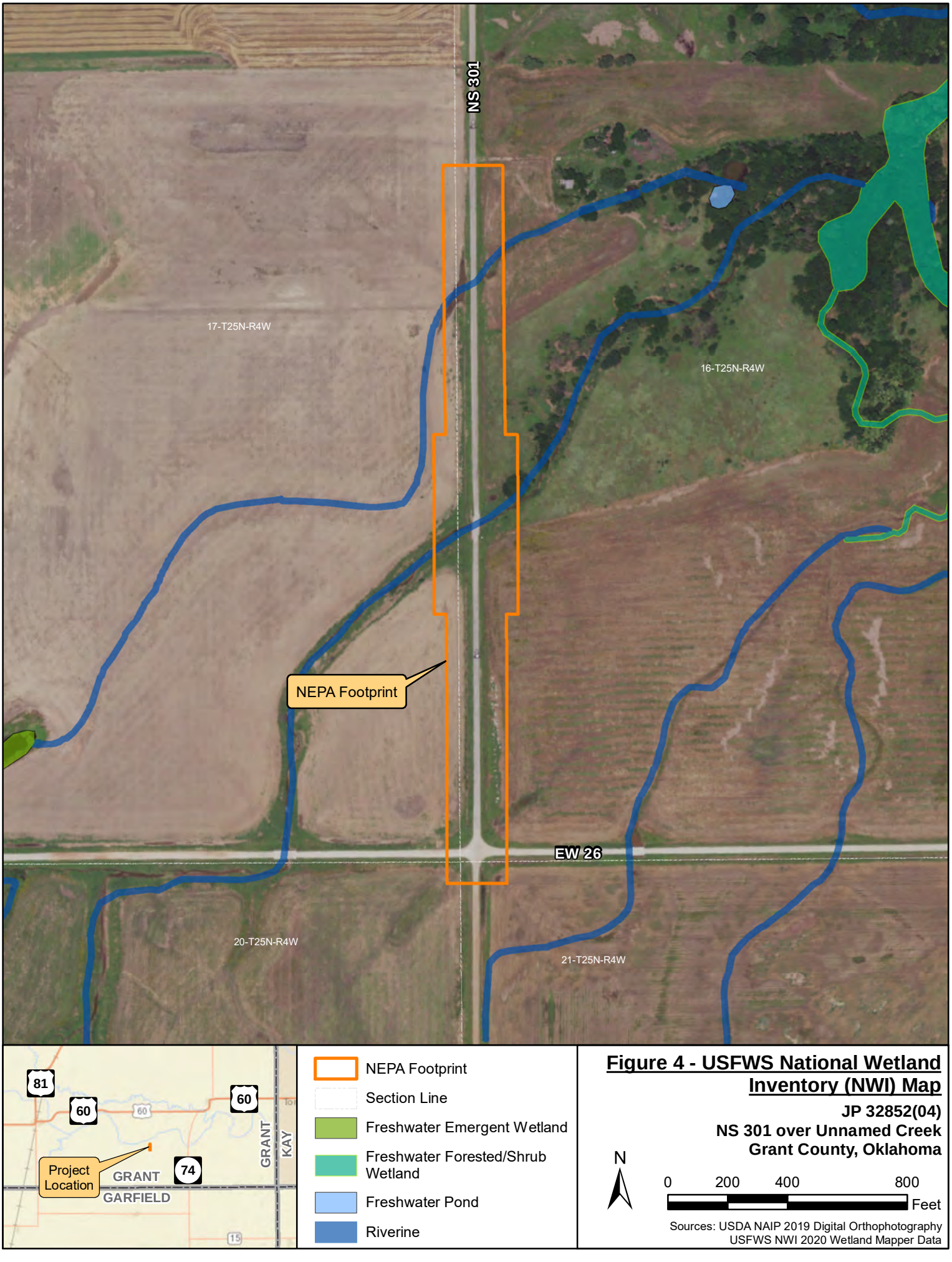
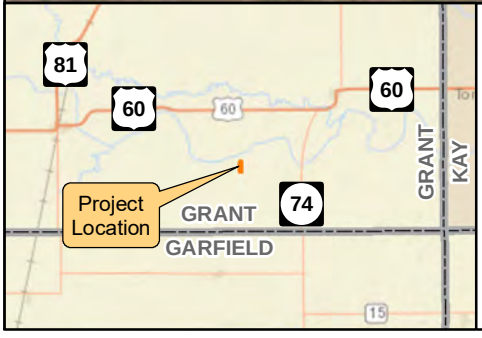


Figure 4 - USFWS National Wetland Inventory (NWI) Map

JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma

Sources: USDA NAIP 2019 Digital Orthophotography
USFWS NWI 2020 Wetland Mapper Data



NEPA Footprint
Section Line
Data Point (DP)
Stream OHWM
PEM Wetland

Figure 5 - Aquatic Resources Site Map

JP 32852(04)
NS 301 over Unnamed Creek
Grant County, Oklahoma

N

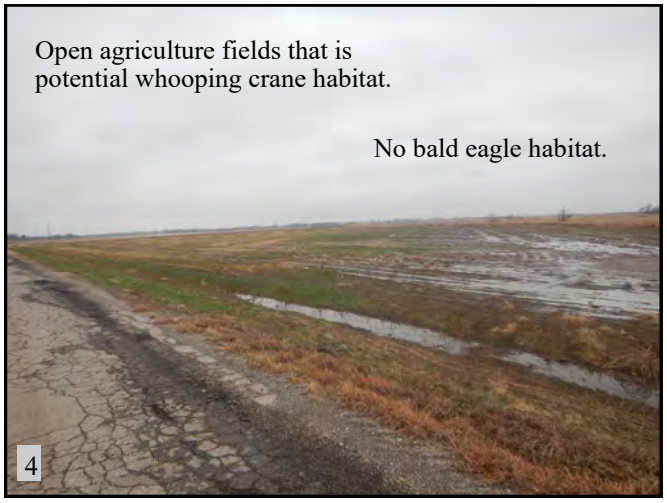
0 150 300 600
Feet

Source: USDA NAIP 2019 Digital Orthophotography

▲(PS 1): View of the NS 301 and EW 260 intersection. View is to the north.

▲(PS 1): View of NS 301 and vegetation within the right -of-way. View is to the north.

▲(PS 2): View of vegetation within the footprint and the 660-foot buffer. View is to the southeast.



▲(PS 2): View of vegetation within the footprint and the 660-foot buffer. View is to the southwest.

▲(PS 2): View of NS 301 and right-of-way vegetation. View is to the north.

▲(PS 3): View of OW 1 towards existing bridge (NBI 13474). View is downstream to the northeast.

Grant County, OK
J/P No. 32852(04)

On-site photographs taken December 3, 2020
Garver Project No. 19T14047

▲(PS 4): View of OW 1. View is upstream to the southwest.

▲(PS 4): View of OW 1 from existing bridge. View is downstream to the northeast.

▲(PS 4): View of wood/cedar end walls of existing bridge. View is to the northeast.

▲(PS 4): View of wood/cedar deck of the existing bridge. Past evidence of eastern phoebe nest observed.

▲(PS 4): View of potential nest under the existing bridge. Located near the north end wall.

▲(PS 4): View of existing bridge (NBI 13474) over OW 1. View is to the southwest.

Grant County, OK
J/P No. 32852(04)

On-site photographs taken December 3, 2020
Garver Project No. 19T14047

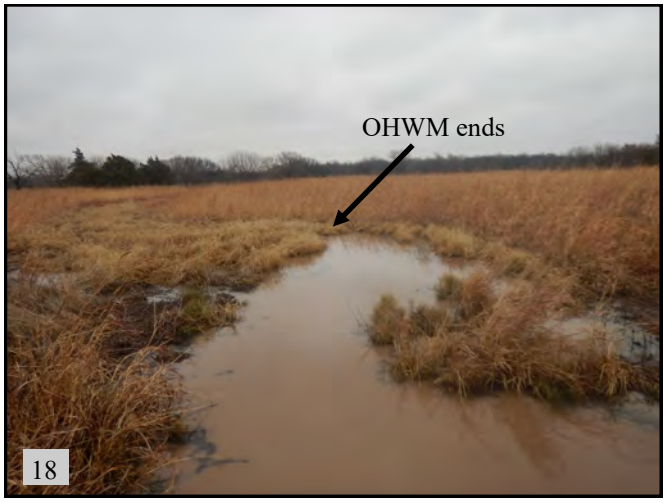
▲(PS 5): View of OW 1 towards the existing bridge. View is upstream to the southwest.

▲(PS 6): View of Wetland 1, a PEM wetland. View is to the west.

▲(PS 6): View of soils collected at DP 1 within Wetland 1.

▲(PS 6): View of wooded habitat located north of OW 1 and east of NS 301. View is to the east.

▲(PS 6): View of soils collected at DP 3, an upland data point.



▲(PS 7): View of OW 2. View is downstream to the northeast.

Grant County, OK
J/P No. 32852(04)

On-site photographs taken December 3, 2020
Garver Project No. 19T14047

▲(PS 7): View of RCB structure at OW 2. View is upstream to the southwest.

▲(PS 7): View of OW 2 on the west side of NS 301. View is upstream to the south.

▲(PS 7): View of RCB structure at OW 2. View is to the east.

▲(PS 8): View of habitat within the 660-foot buffer of the NEPA Footprint. View is to the northwest.

▲(PS 8): View of habitat east of NS 301. View is to the east.

▲(PS 8): View of NS 301 from the north end of the study area. View is to the south.

Grant County, OK
J/P No. 32852(04)

On-site photographs taken December 3, 2020
Garver Project No. 19T14047

Print Form

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: NS 301 over Unnamed Creek City/County: Grant Sampling Date: 12/3/2020

Applicant/Owner: The Oklahoma Department of Transportation (ODOT) State: OK Sampling Point: DP 1

Investigator(s): Megan Philips-Schaap Section, Township, Range: Section 16, T25N-R4W

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 10-15

Subregion (LRR): LRR H - Central Great Plains Lat: 36.640053 Long: -97.641692 Datum: NAD83

Soil Map Unit Name: 35 - McLain-Drummond complex, 0 to 1 percent slopes, rarely flooded NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

This point was determined to be within a wetland due to the presence of all 3 wetland criteria (Wetland 1).
Recent rain event.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. *None observed*			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. *None observed*			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: 5')			
1. *Common spike-rush (Eleocharis palustris)*	45	Yes	OBL
2. *Rush (Juncus sp.)**	10	No	OBL
3. *Duckweed (Lemna sp.)***	10	No	OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	65 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1. *None observed*			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 35

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC−): _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

X 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).
*52 species of Juncus are listed in the USACE 2018 Regional Wetland Plant List. 88% have a FACW (n=21) or OBL (n=25) indicator status.
**9 species of Lemna are listed in the USACE 2018 Regional Wetland Plant List. 100% have an OBL indicator status.

SOIL

Sampling Point: DP 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-2	10YR 2/1	100	-	-	-	-	clay, grainy	muck layer
2-18	7.5 YR 3/2	100	-	-	-	-	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR F**)
- X 1 cm Muck (A9) (**LRR F, G, H**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR I, J**)
- ___ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ___ Dark Surface (S7) (**LRR G**)
- ___ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:

A positive indication of hydric soil was observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes X No ____ Depth (inches): 2

Water Table Present? Yes X No ____ Depth (inches): surface

Saturation Present? (includes capillary fringe) Yes X No ____ Depth (inches): surface

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

A positive indication of wetland hydrology was observed (at least one primary indicator).

Print Form

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: NS 301 over Unnamed Creek City/County: Grant Sampling Date: 12/3/2020

Applicant/Owner: The Oklahoma Department of Transportation (ODOT) State: OK Sampling Point: DP 2

Investigator(s): Megan Philips-Schaap Section, Township, Range: Section 16, T25N-R4W

Landform (hillslope, terrace, etc.): right-of-way Local relief (concave, convex, none): none Slope (%): 0%

Subregion (LRR): LRR H - Central Great Plains Lat: 36.640078 Long: -97.641747 Datum: NAD83

Soil Map Unit Name: 35 - McLain-Drummond complex, 0 to 1 percent slopes, rarely flooded NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	

Remarks:

This point was determined not to be within a wetland due to the lack of all three wetland criteria.
Recent rain event.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: _____)			
1. *None observed*			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. *None observed*			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: 5')			
1. *Johnson grass (Sorghum halepense)*	95	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	95 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1. *None observed*			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 5

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC−): 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC− or drier).

SOIL

Sampling Point: DP 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-16	7.5YR 3/2	100	-	-	-	-	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR F**)
- ___ 1 cm Muck (A9) (**LRR F, G, H**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR I, J**)
- ___ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ___ Dark Surface (S7) (**LRR G**)
- ___ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

No positive indication of hydric soils was observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): >16"

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): >16"

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No positive indication of wetland hydrology was observed.

Print Form

WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: NS 301 over Unnamed Creek City/County: Grant Sampling Date: 12/3/2020

Applicant/Owner: The Oklahoma Department of Transportation (ODOT) State: OK Sampling Point: DP 3

Investigator(s): Megan Philips-Schaap Section, Township, Range: Section 16, T25N-R4W

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 2-5%

Subregion (LRR): LRR H - Central Great Plains Lat: 36.640085 Long: -97.641539 Datum: NAD83

Soil Map Unit Name: 35 - McLain-Drummond complex, 0 to 1 percent slopes, rarely flooded NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes X	No _____	

Remarks:

This point was determined not to be within a wetland due to the lack of hydrophytic vegetation and hydric soils.
Recent rain event.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Maple (Acer sp.)**	45	Yes	FAC
2. *Black locust (Robinia pseudoacacia)*	25	Yes	UPL
3.			
4.			
	70	= Total Cover	
Sapling/Shrub Stratum (Plot size: _____)			
1. *None observed*			
2.			
3.			
4.			
5.			
	_____	= Total Cover	
Herb Stratum (Plot size: 5')			
1. *Perennial rye grass (Lolium perenne)*	5	Yes	FACU
2. *Sedge (Carex sp.)***	5	Yes	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	10	= Total Cover	
Woody Vine Stratum (Plot size: _____)			
1. *None observed*			
2.			
	_____	= Total Cover	

% Bare Ground in Herb Stratum 90

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC−): 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species _____	x 1 =	_____
FACW species _____	x 2 =	_____
FAC species _____	x 3 =	_____
FACU species _____	x 4 =	_____
UPL species _____	x 5 =	_____
Column Totals: _____ (A)		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

No positive indication of hydrophytic vegetation was observed (≥50% of dominant species indexed as FAC− or drier).
*8 species of Acer are listed in the USACE 2018 Regional Wetland Plant List. 75% have a FAC indicator status.
**211 species of Carex are listed in the USACE 2018 Regional Wetland Plant List. 71% have a FACW (n=57) or OBL (n=92) indicator status.

SOIL

Sampling Point: DP 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-16	10YR 3/2	100	-	-	-	-	clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR F**)
- ___ 1 cm Muck (A9) (**LRR F, G, H**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 2.5 cm Mucky Peat or Peat (S2) (**LRR G, H**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR F**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ High Plains Depressions (F16) (**MLRA 72 & 73 of LRR H**)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR I, J**)
- ___ Coast Prairie Redox (A16) (**LRR F, G, H**)
- ___ Dark Surface (S7) (**LRR G**)
- ___ High Plains Depressions (F16) (**LRR H outside of MLRA 72 & 73**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

No positive indication of hydric soils was observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Dry-Season Water Table (C2)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where not tilled**)
- ___ Presence of Reduced Iron (C4)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Sparsely Vegetated Concave Surface (B8)
- X Drainage Patterns (B10)
- ___ Oxidized Rhizospheres on Living Roots (C3) (**where tilled**)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- X Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)
- ___ Frost-Heave Hummocks (D7) (**LRR F**)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): > 16"

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): > 16"

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

A positive indication of wetland hydrology was observed (at least two secondary indicators).

N R C S COORDINATION

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*		Date Of Land Evaluation Request December 15, 2020	
Name of Project JP32852(04)NS301OverUnnamedCreek		Federal Agency Involved Federal Highway Administration	
Proposed Land Use Roadway/Bridge/Right-of-Way		County and State Grant County, Oklahoma	
PART II *(To be completed by NRCS)*		Date Request Received By NRCS 12/15/20	Person Completing Form: CDS
Does the site 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 ☑	Acres Irrigated	Average Farm Size
Major Crop(s)	Farmable Land In Govt. Jurisdiction Acres: %	Amount of Farmland As Defined in FPPA Acres: %	
Name of Land Evaluation System Used	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS 12/16/20	

PART III *(To be completed by Federal Agency)*	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	8.24			
B. Total Acres To Be Converted Indirectly				
C. Total Acres In Site	8.24	0.0	0.0	0.0
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide Important or 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 Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)	0	0	0	0

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	**Maximum Points**	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)				
2. Perimeter In Non-urban Use	(10)				
3. Percent Of Site Being Farmed	(20)				
4. Protection Provided By State and Local Government	(20)				
5. Distance From Urban Built-up Area	(15)				
6. Distance To Urban Support Services	(15)				
7. Size Of Present Farm Unit Compared To Average	(10)				
8. Creation Of Non-farmable Farmland	(10)				
9. Availability Of Farm Support Services	(5)				
10. On-Farm Investments	(20)				
11. Effects Of Conversion On Farm Support Services	(10)				
12. Compatibility With Existing Agricultural Use	(10)				
TOTAL SITE ASSESSMENT POINTS	160	0	0	0	0
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	0	0	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	0	0	0	0
TOTAL POINTS ***(Total of above 2 lines)***	260	0	0	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? YES ☐ NO ☑

Reason For Selection:

Name of Federal agency representative completing this form:	Date:

(See Instructions on reverse side) **Form AD-1006 (03-02)**

A RESPONSE FROM THE NRCS WAS RECIEVED ON 12/16/2020. THE PROJECT DOES NOT CONTAIN PRIME OR UNIQUE FARMLAND. THEREFORE THE FPPA DOES NOT APPLY.

From: Stephens, Karla - NRCS, Medford, OK <karla.stephens@usda.gov>
Sent: Wednesday, December 16, 2020 8:23 AM
To: Philips-Schaap, Megan E.
Cc: McCullough, Kirsten J.
Subject: RE: NRCS Coordination for Farmland Impacts - Grant County JP 32852(04) Bridge & Approaches on NS 301 Over Unnamed Creek
Attachments: Grant County JP 32852(04).pdf

Categories: Filed by Newforma

Karla Stephens, District Conservationist
Serving Alfalfa, Garfield and Grant Counties

Natural Resources Conservation Service
624 N. Highway 81
Medford, OK 73759

(580) 741-4018 Medford
(405) 612-7748 cell
(855) 421-2587 FAX

From: Philips-Schaap, Megan E. <MEPhilips-Schaap@GarverUSA.com>
Sent: Tuesday, December 15, 2020 3:04 PM
To: Stephens, Karla - NRCS, Medford, OK <karla.stephens@usda.gov>
Cc: McCullough, Kirsten J. <KJMcCullough@GarverUSA.com>
Subject: NRCS Coordination for Farmland Impacts - Grant County JP 32852(04) Bridge & Approaches on NS 301 Over Unnamed Creek

Good Afternoon Ms. Stephens,

Please see attached a letter requesting your review and completion of the NRCS portions of the attached AD-1006 form.
Note that the acres to be converted were calculated by using the proposed right-of-way subtracted by the area of existing right-of-way and roadway.

In order to maintain the schedule of the project, please complete and return this form to me within the next 45 days.

Let me know if you have any questions.
Thank You,

Megan Philips-Schaap
Environmental Scientist/Environmental Specialist
Transportation Team

918-250-5922
832-242-4834

6450 South Lewis Ave.
Suite 300
Tulsa, OK 74136

TEL 918.250.5922
FAX 918.858.0107

www.GarverUSA.com

December 15, 2020

Karla Stephens
District Conservationist
USDA Natural Resources Conservation Service
Medford Field Service Center
624 N. Highway 81
Medford, OK 73759

RE: Site Assessment for Farmland Protection Policy Act (FPPA) and Identification of any NRCS Structures or Properties within the Study Area: JP No. 32852(04), Grant County, Oklahoma

Dear Ms. Stephens,

Grant County, in cooperation with the Oklahoma Department of Transportation (ODOT) and Federal Highway Administration (FHWA), is proposing to replace the existing bridge (NBI 13474, Str. 27N3010E0250008) on NS 301 over an unnamed creek in Grant County, Oklahoma. The proposed project begins at the NS 301/EW 260 intersection and extends north approximately 0.45 mile. The existing bridge is a 24-foot-wide span bridge with a 23-foot-wide clear roadway. The existing asphalt roadway is 18 feet wide with two 9-foot-wide driving lanes and no shoulders. The existing structure will be replaced with a 28-foot-wide bridge on existing alignment. The existing NS 301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with two 3-foot-wide sod shoulders on existing alignment. The proposed project will require additional variable right-of-way of approximately 8.24 acres to accommodate the proposed improvements.

Please find attached an electronic copy of USDA Form AD-1006 and the Project Location Map, Footprint, and NRCS Farmland Classification Map for this federal action in Grant County, OK. Federal funding is being used for this bridge and road improvement project.

In accordance with the current 7 CFR Part 658 - Farmland Protection Policy Act, Parts I and III of Form AD-1006 have been completed. Please complete the NRCS portions of this form within the next 45 days and return one copy to the address below or via email (kjmccullough@garverusa.com) to:

Kirsten McCullough
Garver
6450 S. Lewis Ave., Suite 300
Tulsa, OK 74136

In addition, please let us know if the proposed project would impact any NRCS structure or properties such as flood control dams, wetlands, etc. Your assistance is greatly appreciated. If you have any questions, please call me at 918-250-5922 or kjmccullough@garverusa.com.

Sincerely,

Kirsten McCullough, AICP, RPA
Project Manager
Enclosures: Form AD-1006, Project Location Map, NEPA Footprint, NRCS Farmland Classification Map

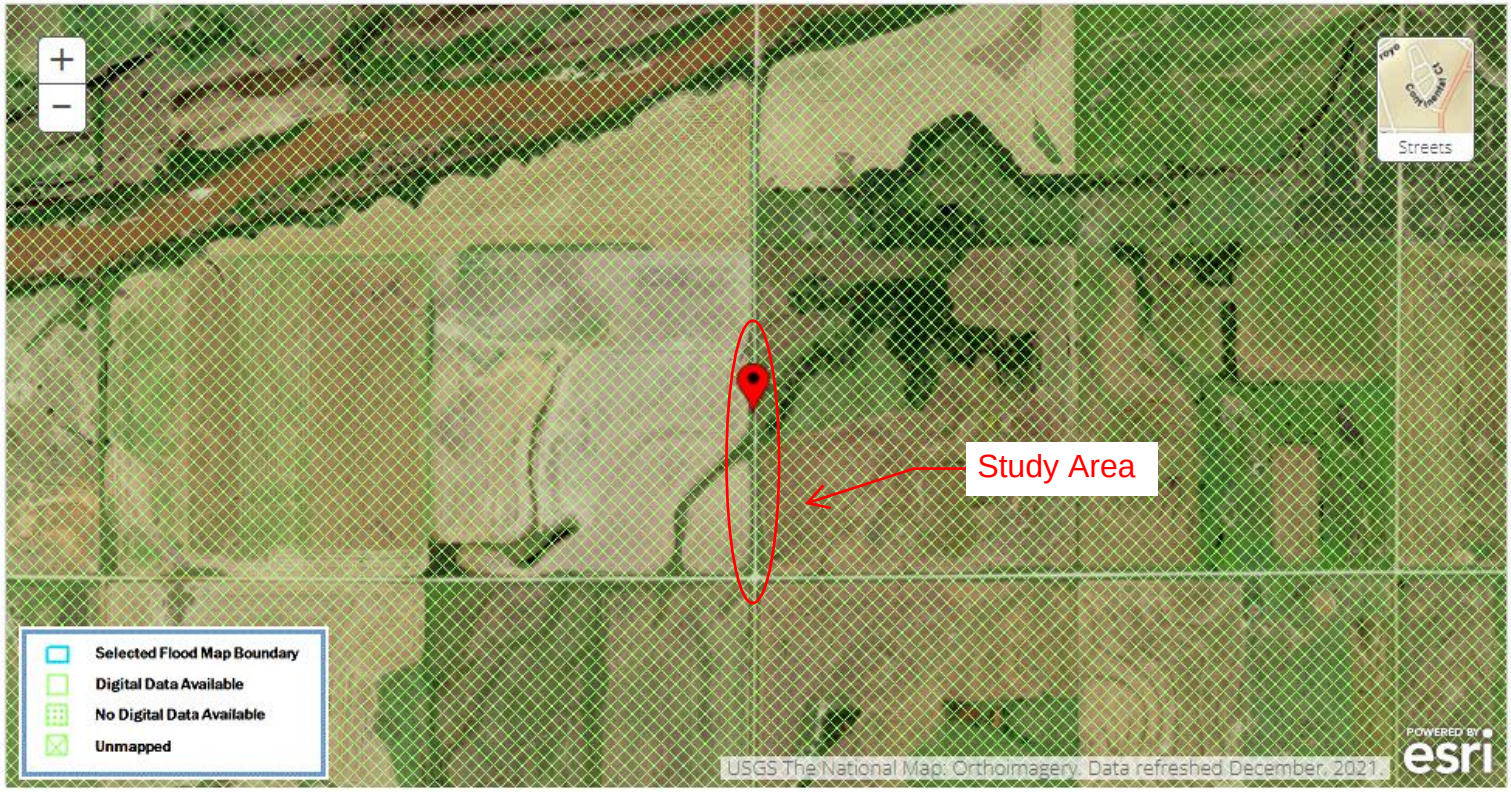
FLOOD PLAIN INFORMATION

Search Results—Products for **GRANT COUNTY UNINCORPORATED AREAS**

Show ALL Products »

FEMA has not completed a study to determine flood hazard for the selected location; therefore, a flood map has not been published at this time. You can contact your community or the FEMA FMIX for more information about flood risk and flood insurance in your community.

You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRMette. If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a map specialist.



HAZARDOUS WASTE STUDIES

OKLAHOMA DEPARTMENT OF TRANSPORTATION
CONSULTANT REPORT REVIEW – HAZARDOUS WASTE

Reviewed By: Evan Mace
Review Date: 1/15/2021
Consultant: Garver
County: Grant
J/P Number: 32852(04)

1. PROJECT DESCRIPTION: BRIGE & APPROACHES ON NS 301 OVER UNNAMED CREEK 2.0 MILES NORTH & 2.9 MILES WEST OF SALT FORK CN 385

2. LEVEL OF INVESTIGATION: ☒Recon ☐Assessment ☐Sampling

3. SUMMARY OF INVESTIGATION

A. Relative risk of contamination in study footprint: ☒Low ☐Moderate ☐High
B. Potential for contamination, if present, to affect project: ☒Low ☐Moderate ☐High
C. Did Consultant recommend additional work? ☒No ☐Yes (describe below):

4. RECOMMENDATIONS*:

☒ Approval to Proceed (No Further Action)
☐ Approval to Proceed, Pending:
- ☐ Avoidance of described site(s)
- ☐ Plan Notes regarding described site(s) (See Section 5)
- ☐ Additional investigation by ODOT

☐ Approval NOT Recommended

* - If different from Consultant, explain in Section 6 General Comments

5. PLAN NOTES: None needed.

6. GENERAL COMMENTS: A recon level assessment was performed by Garver on 1/4/2021 which did not identify any RECs within the project area. ODOT concurs with these findings. There are no hazardous waste concerns associated with this project. No further action is necessary to proceed.

ATTACH EXCERPTS FROM REPORT, AS APPROPRIATE.*

*The full document is on file with ODOT's Environmental Programs Division. Please contact David Edwards at (405) 521-2673 or daedwards@odot.org for more information.

6450 South Lewis
Suite 300
Tulsa, OK 74136

TEL 918.250.5922
FAX 918.858.0107

www.GarverUSA.com

To: The Oklahoma Department of Transportation (ODOT) – Environmental Programs Division

Date: January 4, 2021

From: Megan Philips-Schaap, Environmental Specialist

RE: **Hazardous Waste/LUST Site Review for Grant JP 32852(04) – Bridge and Approaches on NS 301 Over Unnamed Creek, 2.0 Miles North and 2.9 Miles West of Salt Fork**

The existing bridge (NBI 13474, Str. 27N3010E0250008) on NS 301 over an unnamed creek is a 24-foot-wide span bridge with a 23-foot-wide clear roadway. The bridge has a sufficiency rating of 38.5 and is rated as structurally deficient. The bridge is currently load posted at 12 tons. The existing asphalt roadway is 18 feet wide with two 9-foot-wide driving lanes and no shoulders. Existing average annual daily traffic (AADT) is 50 vehicles per day (vpd) with a 20-year future projected AADT of 75 vpd. The purpose of this project is to correct a structurally deficient bridge.

The proposed project will replace the existing bridge (NBI 13474, Str. 27N3010E0250008) with a 28-foot-wide bridge on existing alignment. The existing NS 301 roadway (approximately 1,200-foot approaches both north and south of the existing bridge) will be reconstructed with two 11-foot-wide asphalt driving lanes with 3-foot-wide outside sod shoulders on existing alignment. In addition, a drainage structure located approximately 0.15 mile north of the existing bridge will be replaced. The roadway will be closed to traffic during construction and traffic will be detoured to adjacent county roads.

1.0 Hazardous Waste Sites

An environmental regulatory database report was obtained from GeoSearch in December 2020. This report lists hazardous materials and/or petroleum product facilities or incidents of hazardous waste or petroleum product contamination within specified radii in accordance with ASTM E1527-13 distance parameter guidelines. There were no facilities reported by GeoSearch within the investigative distance parameters, and no additional sites were identified through field reconnaissance. Refer to the GeoSearch report provided at the end of the summary.

2.0 Storage Tanks and Oil Well Sites

Based on a review of the Oklahoma Corporation Commission (OCC) Petroleum Storage Tank Division files, there are no UST, AST, LUST, or LAST sites located within 1/2-mile of the study area.

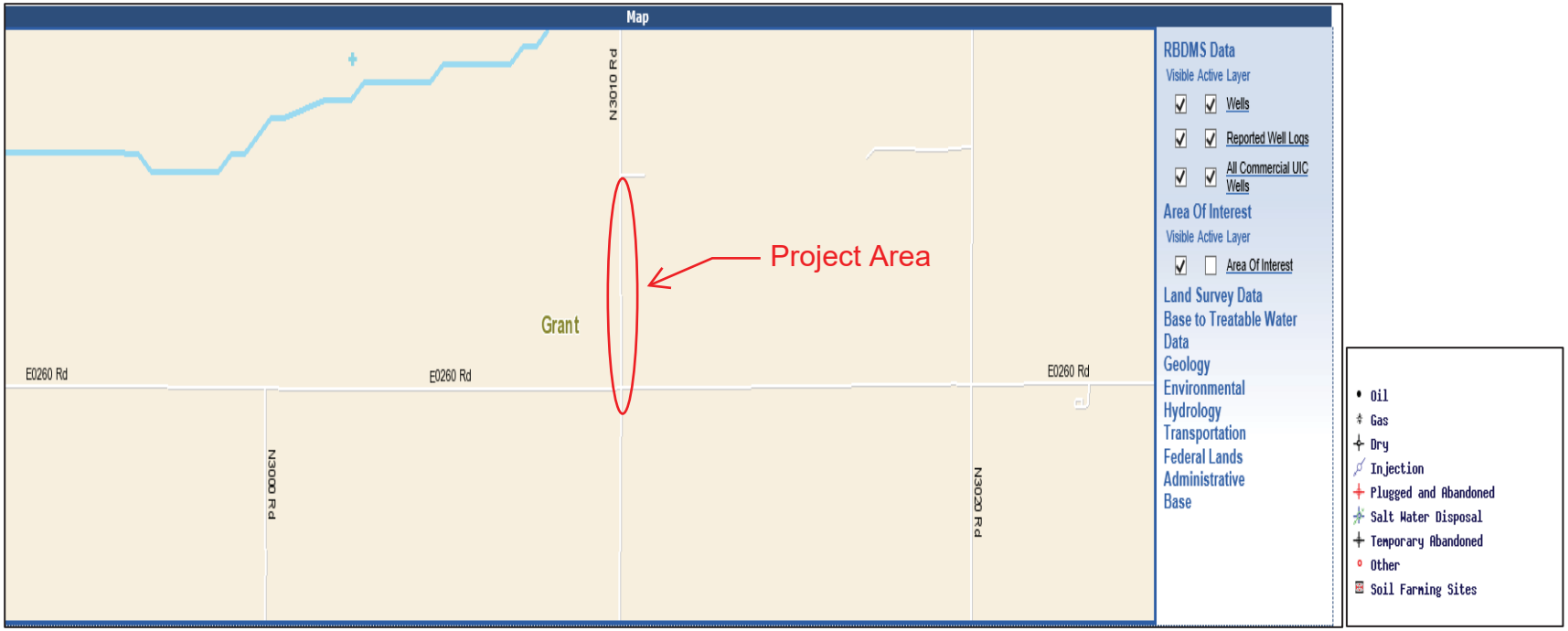
The OCC Oil and Gas Division well database was consulted to estimate the number of oil and gas wells within the study area. According to the OCC database, no wells are within the study area or within 1/8-mile of the study area. Refer to the OCC Oil and Gas Division map included at the end of the summary.

3.0 Current and Abandoned Coal Mines

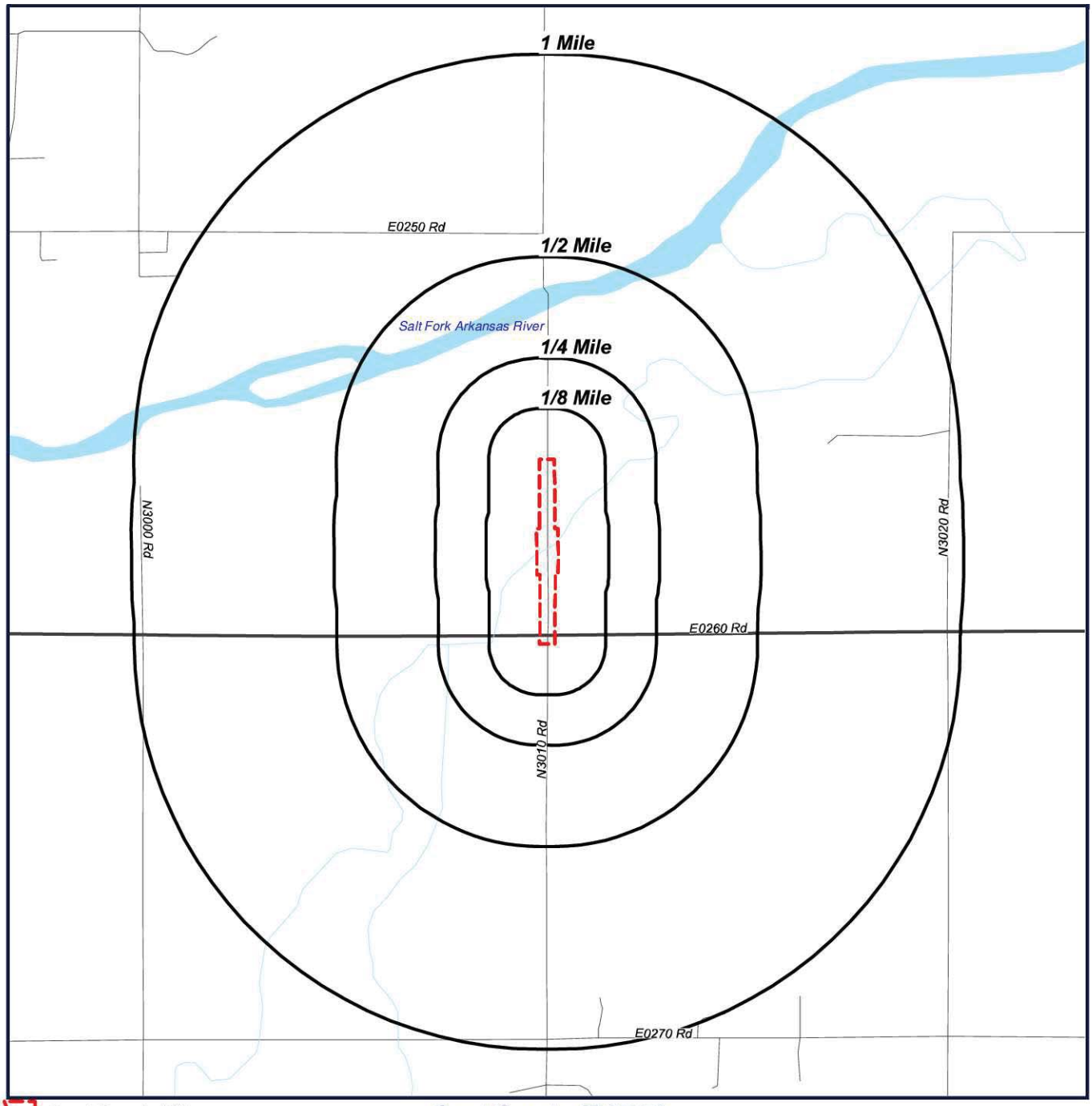
According to information provided by Oklahoma Conservation Commission Abandoned Mine Land (OCC-AML) Division, the study area is outside of the Commercial Coal Belt of the Northeast Oklahoma Shelf. Based on a review of topographical maps and historic aerials in the vicinity of the project, no current or abandoned coal mines are located within the study area.

Oklahoma Corporation Commission

Oil and Gas Info



Radius Map 1



Target Property (TP)

Grant County JP 32852
(04)
NS 301
SW of Lamont, OK,
Oklahoma
74640

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

OTHER

Local Government NEPA Study Checklist (Revised 2-19-16)

Introduction

The purpose of this checklist is to ensure that a consistent level of information is provided to the Environmental Programs Division for the initiation of Environmental Studies required as part of compliance with National Environmental Policy Act (NEPA) for all Federal Highway Funded (FHWA) funded projects being let through ODOT. This is intended to expedite the field review of proposed projects, minimize requests for additional information, and reduce the incidence of repeated field investigations or follow-up interagency consultation. Study requests which do not contain ALL the information or attachments identified on this checklist will be returned, with an explanation of what is needed before environmental studies can begin. **The effective start date for the Environmental Process is when all required information has been received by the Environmental Programs Division and a Scope Clarification Conference between the Designer, the County/City, and Environmental Programs Division has been held. Please submit the completed form with study footprint/plans and other supporting documents to the Assistant Division Engineer, Environmental Programs Division through Local Government Division. THIS INFORMATION NEEDS TO BE SUBMITTED FOR ALL PROJECTS REGARDLESS OF WHETHER NEPA IS BEING DONE IN-HOUSE OR BY A CONSULTANT HIRED BY THE CITY/COUNTY.**

I. **Project Information** The following information must be present:

County(ies):	Grant	State Job Piece No:	32852
Federal Aid Project No:	J3-2852(004)	County Road No. or City Street Name:	NS-301/ CR1010

Project Description from Oracle:		Bridge & Approaches over unnamed creek, 0.2 miles North and 2.9 miles West of Salt Fork.	
Does the Project currently have federal funds? (If the answer is no, do not submit to Environmental Programs Division. Follow the guidelines for non federally funded Local Government Projects)		Yes	
Proposed Let Date for the Project (Mo/Yr)	2022	R/W Plans Anticipated Date (Mo/Yr)	2021
Designer Name and Company	Tyler Schroder / Circuit Engineering District #8	Contact Phone No. and email for Designer	580-237-4810 tschroder@ced8.org

Note: Typical NEPA document take 7 to 9 months for completion regardless of whether the project is in existing right of way or requires additional right-of-way. Additional time will be required for projects with capacity increase or requiring Section 4(f) analysis or Section 6(f) coordination. Specific construction sequence and details will be required for projects in areas with endangered species. While studies will be started with preliminary plans or study footprint, NEPA Document will not be completed until R/W submittal plans are available to verify that the project is still within the study footprint.

II. **Description of Existing facility (Roadway and Bridge)**

Existing Roadway

Existing No. of lanes	2	Existing Roadway surface type	Asphalt	Existing Width of Roadway Driving Lane (ft)	9’
Existing Shoulders/type (Sod, Paved, etc.)	Sod	Existing Shoulder Width	0	Any Existing sidewalks? If so, are they on LT or RT or BOTH SIDES?	No
Traffic: Present ADT (vehicles per day)	50	Future ADT (20 year Projection) vpd	75	Are there existing roadway size drainage structures?	Yes
Existing Bridge (ATTACH A COPY OF THE LATEST BRIDGE INSPECTION REPORT)					
NBI No.:	13474	Location No.:	27N3010E0250008	Name of water body or facility crossed (RR, etc):	unnamed creek
Is the bridge currently open to traffic?	Yes	Is the bridge currently load posted?	Yes		

III. Purpose & Need for the Project

State any problems with the existing roadway or bridge (eg. Structurally deficient, functionally obsolete, poor vertical sight distance, sharp horizontal curves, no/narrow shoulders, inadequate capacity, etc.)	

IV. Proposed Work

Describe the proposed work (Bridge replacement/rehabilitation, Signalization, Adding sidewalks, widening to add lanes/shoulder, etc.)		Triple Span PCB Bridge using ODOT Standards	
Describe the proposed project extent		100’ either side of centerline for 1200' North and South of the bridge	
Proposed Typical			
Proposed No of Lanes	2	Proposed Width of Lanes (ft)	11’
Proposed Driving Surface (eg. Paved, Gravel, etc.	Asphalt		
Proposed Width of Shoulders(ft)	3’	Proposed Shoulder Surface/Type (eg. Sod, Paved, Gravel or Curb & Gutter)	Sod
Proposed Sidewalks (Left, Right or None)	None	Proposed Width of Sidewalk (ft)	

Will any Roadway Size Drainage Structures be Replaced or Extended or Exception?	Yes		
Proposed Bridge			
Proposed Bridge Type (Span, Box, etc.)	Span PCB	Proposed Bridge Width (ft)	28’

V. **Type of Detour** (Check one)

X	Road closed, traffic detoured on existing roads
	Shoofly requiring permanent or temporary new R/W
	Keep existing facility open – offset alignment or constructing half at a time

VI. **Location Map and Footprint/Plans**

Provide the following for all projects	
X	A LOCATION MAP. It can be a Section of the County Map or Plan Cover Sheet, or equivalent showing location of project with respect to identified **county roads, towns, features, and legal locations (township, range, sections). Needs North Arrow, County, and Job Piece Number.**
X	USGS Map of the Project Area (To identify blue lines requiring 404 permits). **Needs North Arrow, County, and Job Piece Number.**
Provide one of the following	
	Set of plans with proposed R/W – Include Title, Typical, Plan & Profile sheets, General Bridge Plan sheet, and Cross Sections. Plans should show existing facility and proposed improvements, **existing and proposed new R/W, and any temporary R/W expected for shoofly detours or channel work.**
X	Preliminary study area based on **reasonable estimate of proposed/anticipated new/temporary R/W** and **the proposed typical section including any sidewalks and bridge width**. The project study footprint should be drawn to scale on an excellent-quality aerial photograph with a minimum 1”=400 ft scale. **Needs North Arrow, County, and Job Piece Number.**

VII. **Ground Disturbance, Right of Way & Relocations/Structure removals (check all applicable ones)**

X	Involves ground disturbance outside of existing pavement.
X	New permanent or temporary R/W is required
	Project will require relocations/demolitions of adjacent buildings (show on attached map or plans)
	Project will require right-of-way from federal government property
	Project will require right-of-way from Tribal or Indian property (If so include signed permission to enter property)

If a project requires any residential or commercial relocations, the City or County will need to provide a Relocation Plan prior to the completion of the Environmental Document.

VIII. **Public Involvement**

For ALL projects with new permanent or temporary R/W,

	Attach a letter from the County Commissioners or the City that all property owners in the study area have been notified of the proposed project and are aware that ODOT specialists will be accessing their property to perform follow up studies. The letter includes list of property owners notified.
X	OR Provide copies of letters sent to property owners within study area. ***NOTE: Additional notification or permission may be required for federal properties. Signed permission to enter property is required for Tribal or Indian properties.***
For capacity expansion projects	
	For capacity expansion projects which would normally require a public meeting or notice, attach a letter indicating the Local Authority has already, or intends to, conduct a public involvement program. Environmental Programs Division will provide the requirements for the public meeting.

IX. Section 4(f) (Recreational) and 6(f) Properties

Section 4(f) of the Department of Transportation Act of 1966 (49 U.S.C. 303) protects resources such as Public Parks, Recreational Land, & Wildlife Refuges & Management Areas. Any acquisition or impact to the Section 4(f) resource would require additional coordination with the owner of the Section 4(f) resource, public notice, and mitigation for the impacts.

Section 6(f) protects properties which had funds provided under the Land and Water Conservation Funds (LWCF) Act. The information on whether a project had LWCF is available from the Department of Tourism. Any acquisition of property from LWCF funded property would require a replacement of in kind property subject to approval by the Department of Tourism and Department of Interior.

X	None known in area
	Yes. If any known public parks, recreation areas, and wildlife/waterfowl refuges are present, show on attached quads or aerials

X. Section 4(f) and Historic Bridges

Section 4(f) of the Department of Transportation Act of 1966 (49 U.S.C. 303) also protects Historic Structures eligible for the National Register Historic Places (NRHP).

- NRHP eligible truss bridges are listed on 2007 Spans of Time (Can be found at http://www.okladot.state.ok.us/hqdiv/p-r-div/spansoftime/pdfs/survey-phase1.pdf).
- NRHP eligible Depression Era Works Programs Bridges are listed in the OKLAHOMA HISTORIC BRIDGE SURVEY: DEPRESSION-ERA WORKS PROGRAM BRIDGES AND ROAD-RELATED RESOURCES dated July 2015 (Can be found at http://www.odotculturalresources.info/depression-era-works-programs.html).
- *Other bridges will need additional studies to determine the eligibility.*

No	Is the existing bridge a truss bridge listed as NRHP eligible on the Spans of Time or Depression Era Works Program Bridges?
No	Does the bridge have a WPA stamp on it?

If the bridge is NRHP eligible and cannot be left in place for either traffic or pedestrian use or as a monument, additional engineering analysis will be required from the Design Engineer to complete the Section 4(f) analysis. In addition, coordination will be required with the Section 106 Consulting parties and public involvement.

XI. Noise (provide the following traffic data for noise studies if the project is on an offset or new alignment or involves capacity expansion)

- Design Traffic Data which includes the current and projected future AADT
- K (DHV/AADT-two way)
- T (% medium trucks of DHV)
- T (% medium trucks of AADT)

- T3 (% heavy trucks of AADT)
- Design speed.

XII. Traffic Impact Studies or Alternative Analysis

- Attach available traffic impact studies for urban capacity expansion projects.
- Attach available alternative analysis for projects on new alignments.

XIII. For urban projects (Check applicable items)

The project is located within the	
	ACOG Metropolitan Area
	INCOG Metropolitan Area
	Lawton Metropolitan Area
	Fort Smith Metropolitan Area
The project is	
	Included in the Long Range Plan for the City or Metropolitan Area
	Included in the Transportation Improvement Plan (TIP) for the Metropolitan Area

Note: If a project is located in a Metropolitan area but is not included in the Long Range Plan or the TIP, environmental studies can be started. However an Environmental Document cannot be completed until the project is included in the TIP.

XIV. For projects with existing or proposed sidewalks (Check applicable items)

	The project is located on the City's Master Plan for Pedestrian trails
	The project has needs for sidewalk (such as school, parks, Transit stops, etc.)

Note: Typically sidewalks are required on both sides of the existing road for Environmental Justice and Americans with Disablities (ADA) compliance. If there is a specific reason why sidewalks are proposed only on one side, please provide a written justification for it.

OKLAHOMA DEPARTMENT OF TRANSPORTATION - Bridge Inspection Report

Suff. Rating: 38.5 SD | Health Index : 63.2

NBI No.: **13474** Structure No.: 27N3010E0250008 Local ID:385

IDENTIFICATION

Description:
24',24',24' TIMBER SPANS, SK60RF

1. State: Oklahoma
2. SHD District: Division 4
3. County Code: GRANT
4. Place Code: Unknown

Admin. Area: Cnty. District 2

5. Inventory Route (Route On Structure) : 1 - 4 - 1 - N3010 - 0
6. Feature Intersected: CREEK
7. Facility Carried: N3010 N3010
9. Location: .2N 2.9W OF SALT FORK
11. Mile Post: 0.200 mi
13. LRS Inv. Route./ Subroute.: -1 -1
16. Latitude: 36 38 23.51
17. Longitude: 097 38 31.01
98. Border Br. Code: Jnknown (P) % Resp. : 0
99. Border Br. #: Unknown

STRUCTURE TYPE AND MATERIALS

43. Main Span Material and Design Type
Wood or Timber Stringer/Girder
44. Approach Span Material and Design Type
Not Applicable (P) Not Applicable (P)
45. No. of Spans Main Unit: 3
46. No. of Approach Spans: 0
107. Deck Type: 8 Wood or Timber
108A. Wearing Surface: 6 Bituminous
108B. Membrane: 0 None
108C. Deck Protection: None

AGE AND SERVICE

27. Year Built: 1955
106. Year Reconstructed: 1998
28A. Lanes on: 2
28B. Lanes Under: 0
19. Detour Length: 6.0 mi
29. ADT: 50
30. Year of ADT: 2013
109. Truck ADT %: 15
42A. Type of Service on: 1 Highway
42B. Type of Service under: 5 Waterway

GEOMETRIC DATA

10. Inv. Rte. Min. Vert. Clr.: 328.1 ft
32. Approach Roadway Width (W/ Shoulders): 33.0 ft
Deck Area: 1,786.8 sq. ft
33. Median: 0 No median
34. Skew: 30
35. Structure Flared: 0 No flare
47. Inv. Rte. Total Horiz. Clr.: 23.0 ft
48. Length Maximum Span: 24.0 ft
49. Structure Length: 74.3 ft
50A. Curb/Sdwlk Wdth L: 0.0 ft
50B. Curb/Sidewalk Width R: 0.0 ft
51. Width Curb to Curb: 23.0 ft
52. Width Out to Out: 24.0 ft
53. Minimum Vertical Clearance Over Bridge: 328.1 ft
54A/54B. Min. Vert. Underclearance : N Feature not hwy or RR 0.0 ft

	N/E			S/W		
Meas.	-1	-1	-1	-1	-1	-1
Post.	DO NOT U	DO NOT U	DO NOT U	DO NOT U	DO NOT U	-1

55A/55B. Minimum Lateral Undrclearance R: N Feature not hwy or RR 0.0 ft
56. Minimum Lateral Undrclearance L: 0.0 ft

INSPECTION

Type	Insp Req.	Insp Done	Freq:	Insp. Date:	Next Insp.:
NBI:		Y	24	7/21/2014	7/21/2016
FC Freq.:	N	N	NA	NA	NA
UW Freq.:	N	N	NA	NA	NA
OS Freq.:	N	N	NA	NA	NA

CLASSIFICATION

12. Base Hwy Network : Not on Base Network
20. Toll Facility: 3 On free road
21. Custodian: 02County Hwy Agency
22. Owner: 02 County Hwy Agency
26. Functional Class: 07 Rural Mjr Collecto
37. Historical Sig.: 5 Not eligible for NRHP
100. Defense Highway: 0 Not a STRAHNET h
101. Parallel Structure: No || bridge exists
102. Dir. of Traffic: 2 2-way traffic
103. Temp. Structure: Not Applicable (P)
104. Highway System: 0 Not on NHS
105. Fed. Land Hwy 0 N/A (NBI)
110. National Truck Network: 0 Not part of nat
112. NBIS Length: Long Enough

CONDITION

58. Deck: 6 Satisfactory
59. Super.: 6 Satisfactory
60. Sub.: 4 Poor
62. Culvert: N N/A (NBI)
61. Channel/Channel Protection: 7 Minor Damage

Flowline Notes:

7/26/00 - Flowline = 12.2' * 8/22/02 - Flowline = sats channel profile * 10/22/04 - Flowline = 12.0' * 8/24/06 - FL TO DECK TOP = 12'6" *10* *12* east side, 7/21/2014 - 13' TOD,

LOAD RATING AND POSTING

31. Design Load: 0 Unknown
41. Posting status: P Posted for load
63. Op. Rating Method: 2 AS Allow. Stress-To
Alt. Op. Rating Meth.: 2 AS Allow. Stress-T

64. Operating Rating (H / HS / 3-3):	12.0	21.0	-1.1
66. Inventory Rating (H / HS / 3-3) :	8.0	14.0	-1.1

65. Inv. Rating Method: 2 AS Allow. Stress-To
Alt. Inv. Rating Meth.: 2 AS Allow. Stress-Tc
70. Posting: 0 >39.9% below
Date Rated : 7/20/1998

PROPOSED IMPROVEMENTS

94. Bridge Cost: $271,000
75. Type of Work: 31 Repl-Load Capacity
95. Roadway Cost: $149,000
76. Lgth. of Improvment: 174.4 ft
96. Total Cost: $433,000
114. Future ADT: 80
97. Year of Cost Est.: 2009
115. Year of Future ADT: 2033

NAVIGATION DATA

38. Navigation Control: Permit Not Required
39. Vertical Clearance: 0.0 ft
40. Horizontal Clearance: 0.0 ft
111. Pier Protection: 1 Not Required
116. Lift Bridge Vert. Clear.: 0.0 ft

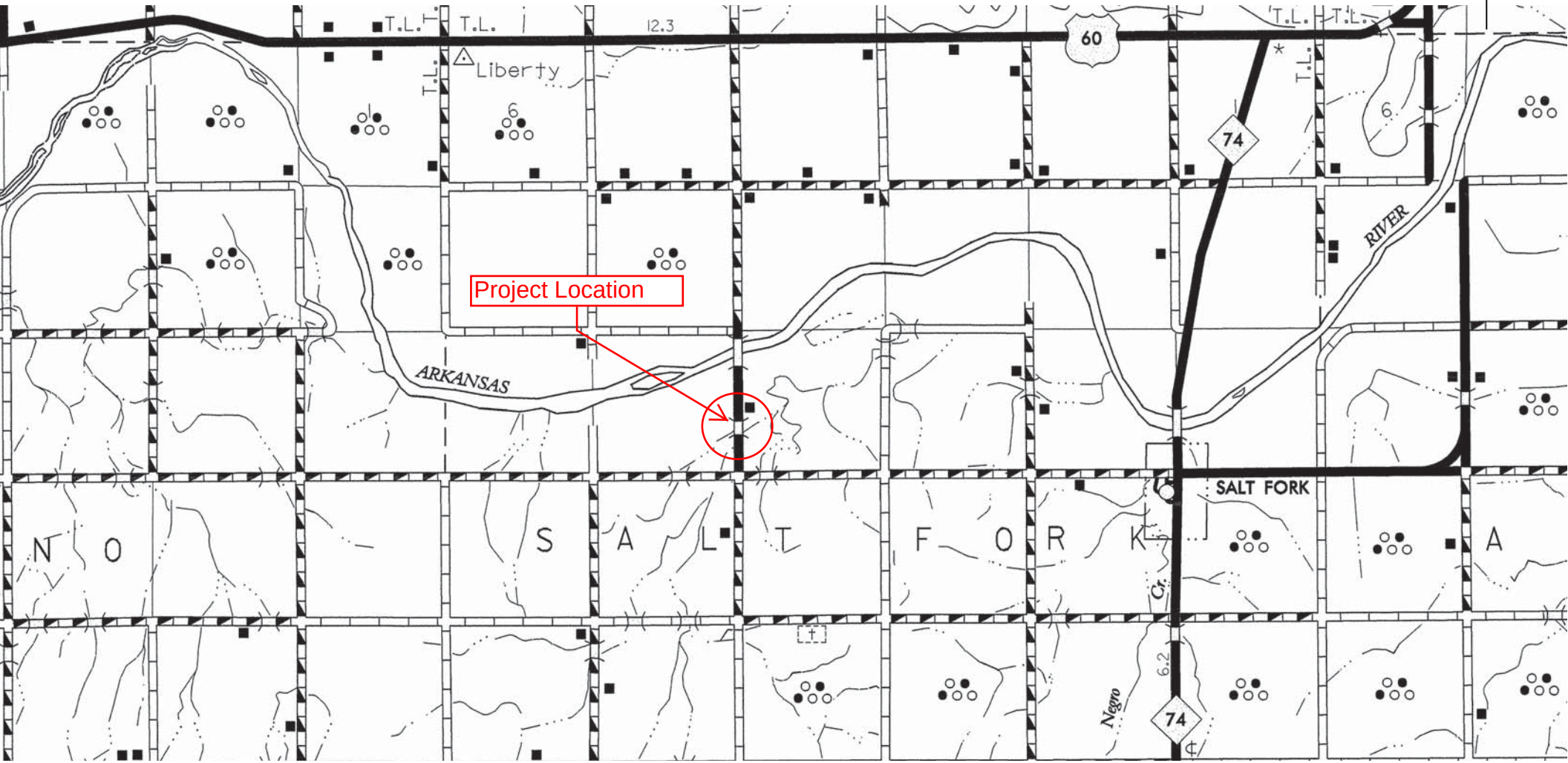
APPRAISAL

36A. Bridge Rail: 0 Substandard
36C. Approach Rail: 0 Substandard
36B. Transition: 0 Substandard
36D. Approach Rail Ends: 0 Substandard
67. Str. Evaluation: 4 Minimum Tolerable
68. Deck Geometry: 5 Above Tolerable
69. Underclearance, Vertical and Horizontal: N Not applicable (NBI)
71. Waterway Adequacy: 6 Equal Minimum
72. Approach Alignment: 8 Equal Desirable Crit
113. Scour Critical: 8 Stable Above Footing

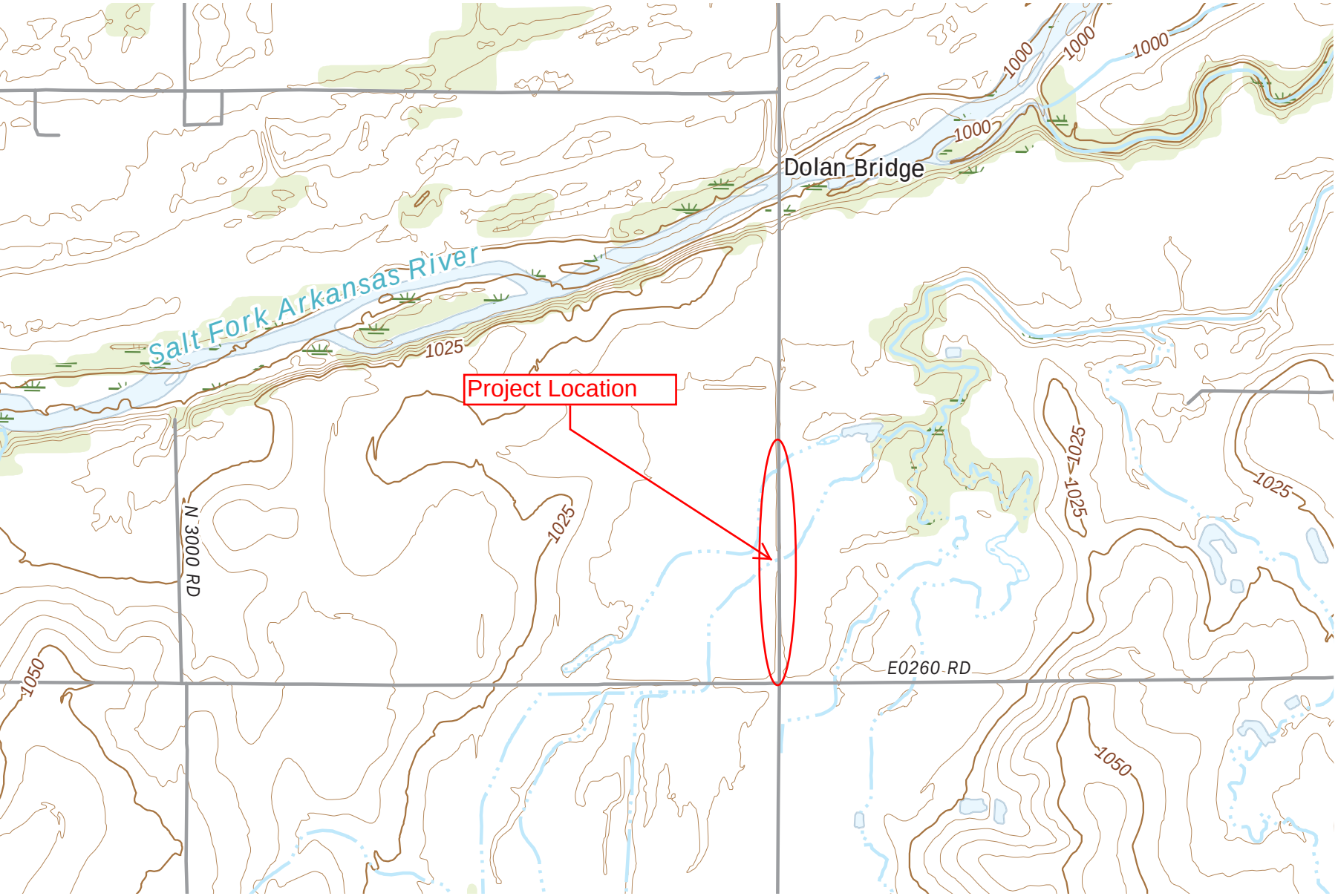
200c. Temperature: 92
200d. Weather: CLEAR
201. Structural Steel ASTM Desig.: -1 -1
202. Waterproof Membrane : -1
Date Installed : 1/1/1901
203. Type Exp. Dev. : _
_
204. Type of Handrail: N/A
205. Material and Quantity : -1.0
208. Type of Abutment : Timber Bulkhead
Type of Foundation : Timber Piling
209. Type of Pier / Found.: Bent Yes
Timber Piling
210. Foundation Elev. -1.0 -1.0
-1.0 -1.0 -1.0
211. Wear. Surf. Prot. System : _
Date Installed : 1/1/1901
213. Utilities Attached : -1
-1 -1 -1
-1 -1 -1

214a. Posted Weight Limit: 121212
b. Posted Speed Limit : NR
c. Narrow/One Lane Bridge sign : N
d. Vertical Clearance Sign: NO
Advanced Warning Sign : NO
e. Navigation Lights : NO
Working/Not Working : NO
215. Overpass : D - ACCO Off System
221. Substructure Cond. (U/W) : _
222. Fill over RCB: -1
223. Appr. Slab/Rdwy Cond.: Poor
224. Critical Feature Type: -1
225. Paint Type : Red Lead Ready
Overcoat : 0
226. Date Painted: 5501
227. Paint Coloring: Silver
233. Deck Forming:
236. Deck Cleaning : -1
238. School Bus Rte: Not on Desired or Current
240. Appr. Roadway Type: Asphalt/Bituminous

243. Girder Spacing/Number : 21.0 / 14
244. Span Lengths :
24 -1 -1
24 -1 -1
24 -1
245. Girder Depth : 16.000
246. Type of Overlay : Chipseal
246. Overlay Thickness : 2.5
246. Overlay Date : 8/5/2014
246. Overlay Depth Changed > 1"? No
247. Protective Systems : 1: _
2: _ 3: _
4: _ 5: _
248. No. of Field Splices w/ Corrosion : -1
249. Scour Crit. POA exists?: No
250. Culvert Headwall Dist.: -1.0
254. Thru Truss Type : _
256. Chan. Profile Up/Down Stream?:
257a. OkiePROS Auto. Truck Routing NA
258. Plans w/ found. are in file at ODOT
259. Scour Eval. is in file at ODOT
263. Interchange at Intersection
264. Interstate Milepoint -1.00



Grant County
32852(04)



Grant County
32852(04)

OKLAHOMA Transportation

OKLAHOMA DEPARTMENT OF TRANSPORTATION

PROJECT STATUS SYSTEM

Logout Project

Edit PROJECT Cancel

Job Piece: 3285204

Status Report: AP Project: VE Project: Calculated Status: Not Active - No status

Production Targets	Planned Finish	Actual Finish	Status	Cond
Reconnaissance Data				
Project Initiation				
Design Resource				
EC Solicitation				
EC Contract	EC No			
Survey			SWO	
Hydraulics				
Preliminary Field Review				
RW & Utility Meeting				
Plans Submitted to R/W				
NEPA Document				
R/W Phase				
Legal Entry				
Prepare Traffic Plans				
Final Field Review				
Utility Out				
404 Permit				
Plans Complete				
Ready to Let				

Edit Resource and Comments

Project Information

JP No.	Proj. ID	County	Div.	Maint.	HWY	Work Desc
3285204	J3-2852(004)CI	27 GRANT	4	4	COBRGE	11 BRIDGE & APPROACHES

Project Legislative Districts

Ctrl.	Start	End	Lgth	Cong	Senate	House
999	0.197	0.223	0.026	3	19	038

Project Location

Location
BRIGE & APPROACHES ON NS 301 OVER UNNAMED CREEK 2.0 MILES NORTH & 2.9 MILES WEST OF SALT FORK CN 385 D2

Project Status

Status	8Year CWP	NHS Sys.	FHWA Oversight	Comm Appr.	Fhwa Auth	Auth FFY	Let Date	FFY	Award Date	RW JP No.	RW Let
Programmed	No	No		11/2016	-		10/2022	2023	NoDate	-	-

STIP & NEPA Information

STIP FY	STIP Page	Pub Date	ODOT Appr.	TIP FY	TIP Page	MPO Appr.	NEPA Type	NEPA Appr	NEPA Re-Eval
		-	-			-	-	-	//

Project Budget

Award Exist	Advanced	Federal	State	Other	Total
N	0.00	600,000.00	0.00	200,000.00	800,000.00

ODOT/FHWA Resources Assigned

PMD	Field	FHWA	NEPA	Survey	Materials	Roadway	Bridge	Traffic	RW	Rail	Nepa Consultant
-	-	-	Guerrero	-	-	-	-	-	-	-	Garver LLC

Comments

no data found

Bridge Information Proposed Bridge

NBI#	Status	Co	Ctl	Milept	Sd
13474	County Bridge	27	000	00200	
1-1					

Utility Information (from the Estimated Comp Date out of Utility Relocation system)

no data found

334462 en

OKLAHOMA Transportation

OKLAHOMA DEPARTMENT OF TRANSPORTATION

PROJECT STATUS SYSTEM

Edit Original NEPA Document

Cancel | Save NEPA Document

Job Piece 3285204

Initial

Initiation Report from PMD	
Footprint Review Prior to Start of Studies	
Consultant Notice To Proceed	
Property Owner Notification	
BLM Notification	
BIA Notification	
Consultant CR/Tribal Initiation	

Studies

Farmland NRCS Requested	12/15/2020
Farmland NRCS Complete	12/16/2020
CR Studies Requested	11/10/2021
CR Studies Due	
CR Studies Recd	03/01/2021
Biological Studies Requested	01/04/2021
Biological Studies Due	
Biological Studies Recd	02/22/2021
Meeting with 404 Permit Coordinator for Delineation	
Haz Waste Studies Requested	01/04/2021
Haz Waste Studies Due	
Haz Waste Studies Recd	01/15/2021
Noise Studies Requested	
Noise Studies Due	
Noise Studies Recd	
Relo Studies Requested	
Relo Studies Due	
Relo Studies Recd	

NEPA Document Preparation

NEPA On Hold Memo Sent Date	
R/W Submittal Plans Recd	
Draft Document Target Date	
Draft Document Actual Date	

CE Review

Draft CE Review by ODOT	
Comments To Consultant	
Revised CE from Consultant	
CE to FHWA (if applicable)	
Date of FHWA / ODOT Approval of CE	
CE Distribution	

EA Review

Draft EA Review by ODOT	
Draft EA Review by FHWA	
Comments to Consultant	
Revised EA from Consultant	
Draft EA to FHWA	
Draft EA Approval by FHWA	
Final EA from Consultant	
Final EA Reviewed	
Final EA to FHWA	
FONSI from FHWA	
FONSI Distribution	

NEPA Document Navigation

- Recon
- Section 4F
- Public Involvement
- Re-Evaluation

CE Document Checklist (Updated 01/31/2022)

Should be included in the Other Section of all projects

JP No:	32852(04)	Prepared by	Megan Philips-Schaap
County:	Grant	Checked by	Kirsten McCullough
Date Checked:	3/25/2022		
No	Description		Checked?
1	**Project Information**		
1.1	Correct Project No? (Check against Oracle info)		Y
1.2	Correct NBI No.? - Check against initiation report, Oracle, and plans		Y
1.3	Location No. for County projects only?		Y
1.4	Correct Field District and County?		Y
1.5	Correct Project Description? (Check against Oracle info and make sure it matches project extent on the plans. If it doesn't match, get the PM to fix the Oracle)		Y
1.6	Construction Program/STIP/TIP Checked?		Y
2	**Existing Conditions**		
2.1	If it is a roadway project, is the roadway described first, then mention any bridges mentioned within the project extent		Y
2.2	Are the existing bridge type (span or box), width for span bridges (or length for box) and structural conditions for each bridge correct ? Check against Bridge Report.		Y
2.3	Correct approach roadway width?		Y
2.4	Any roadway geometric deficiencies?		Y
2.5	Traffic data from plans - existing and pojected?		Y
3	**Purpose & Need**		
3.1	Why is the project needed (NEVER what is proposed – REPLACE BRIDGE or WIDEN ROADWAY or ADD SHOUDERS is NOT the Purpose & Need)		Y

4	**Alternatives & Proposed improvement**	
4.1	Proposed roadway and bridge width	Y
4.2	Existing or offset alignment – reason for offset	Y
4.3	Replacement, Rehab, Removal or new bridge where there was none. Removal of bridge or wideing of bridge.	Y
4.4	Road open to traffic during construction (If there is a shoofly, it is considered open to traffic. Closed to traffic is only if there is a posted detour on a different route)	Y
4.5	Mention if everthing is within existing R/W	N/A
4	**Public Involvement**	
4.1	Check appropriate public involvement box. Include Road Closure letter, Early Coordination letters, Public Notices and Public/Stakeholder Meeting material in the appropriate Appendixes	Y
5	**CE Questions & Studies**	
5.1	Is the NEPA on Hold Memo included?	Y
5.2	Are the R/W submittal or Final Plans with DATE STAMP included in the Plans & Footprint Section?	Y
5.3	Did the preparer verify that the plans were within study limits?	Y
5.4	Is the offset alignment far enough away so that R/W not immediately adjacent to existing R/W is needed?	N/A
5.5	Are the following early coordination letters and responses included in Early oordination setion? (1) Property owner letter with list of property owners or letter from County Commissioner with list of property owners, (2) BLM Letter and for state projects, (3) BIA Letters, (4) Small City Letter, (5) Department of Mines	Y
5.6	Were there Tribal or Federal properties identified (from plans and recon data)? If there are tribal, include all the tribal consent letters, signed permission letters and any other related permission information. If there are federal properties identified, include complete coordination information. If there are federal properties identified as a 4(f) property, this information will be included in the 4(f) appendix instead. If there are BIA properties, the project is in Osage Nation or there are federal properites, it will be an ICE.	N/A
5.7	Are the studies arranged in the same order as the CE Questions?	Y

5.8	CR Report complete & arranged in the chronological order from latest to oldest- includes letter to and from SHPO & OAS, CR report, Initial letters to and responses from Tribes, Final letters to and responses from Tribes? Do the CR Notes match the report? Are the notes checked in	Y
5.9	Have the 4(f) properties been identified (from Recon, county map, and plans)? If there are 4(f) properties, is the complete Section 4(f) coordination included in the Section 4(f) section?	N/A
5.10	Was Section 6(f) properties verified with Dept. of Tourism for any parks?	N/A
5.11	Is a noise study needed (offset alignments, capacity increase, or major vertical grade change)? If yes, is it included in the Noise Section and any commitments listed in the CE	N/A
5.12	Is the biological studies included and any notes for species included in the commitments.	Y
5.13	Was there a Preliminary 404 Review done by the 404 permit coordinator for any projects which had > 0.1 streams or > 0.5 AC of wetlands in the initial study? Is the 404 permit box checked (should be yes for all projects involving a bridge crossing a blue line).	N/A
5.14	Does the project involve navigable waters (check USACE Section 10 waters and then verify wih Coastguard) and requires Coastguard coordination? If so, it it listed in the Commitment?	N/A
5.15	Does the project involve one of the scenic rivers or streams (Check Oklahoma Scenic Rivers website)? If so, include coordination with Scenic Rivers in the "Other Section"	N/A
5.16	Was there coordination done with NRCS for projects involving new R/W and not in an urban area? Letter to NRCS, AD-1066 Form completed partially (if no response from NRCS) or completely (if NRCS completed their portion), and statement of nor response from NRCS if applicable	Y
5.17	Is the project location circled on the FEMA map or printout from FEMA site saying no map is available included? If the project is in zone A-E, is the coordination with the Designer to determine the need for map revision included?	Y
5.18	Is the haz waste note mentioned and included at the end of the CE if applicable? If the haz waste specialist required plans to complete studies, were the plans provided and a revised memo obtained?	N/A

5.19	Were the plans checked for road closure? Include sheets (Round Robin) which say road will not be closed for bridge joint, paint, etc. projects, letters sent and any responses. If there is road closure, were letters sent out and all the comments addressed by Field Division?	N/A
5.20	Does the "Other Section" include (1) initiation report for state projects or NEPA Checklist for Local Govt. projects, (2) Any additional project coordination, (3) bridge reports, (4) Project Oracle information sheet with NEPA document information, (4) Completed CE Review Checklist	Y