

Oklahoma Department of Transportation

Environmental Programs Division

Office 521-3050 Fax 522-5193

Programmatic/Individual Categorical Exclusion

X PCE I ICE	X	PCE		ICE
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.		1		
Date	24 March 2016	Proj	ect Number	J2-9849(004)
County	Kingfisher	State	e Job Piece No:	29849(04)
NEPA Project Manager	T. Vermillion	Pho	ne Number	405-521-2676
ODOT Field Division	IV	State	ge NBI No. (For County & Projects) & Location No. unty Projects Only)	Bridge A: 16167 Bridge B: 16159
Project Description from	Bridge and Approach	es: U	8 81: Northbound and southl	oound Bridges over the
JPINFO	Union Pacific Railroa	d 5.3	miles north of SH 33.	_
This project is included in	: (Check all applicable	X	State 8 Year Construction	Program
ones)			County 5 Year Constructio	n Program
			State Transportation Impro	ovement Program
This project is in	the Metropolitan		YES	
Transportation Improve applicable) (Check applica		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 (Describe existing bridge width, approach roadway width, etc., traffic (current and projected), Existing Problems such as sufficiency rating):

The existing southbound (Bridge A NBI #16167) and northbound (Bridge B NBI #16159) bridges on US 81 over the UP railroad are both 30 ft. wide with approach roadway widths of 38 ft. The current Average Annual Daily Traffic (AADT) is 7,200 vehicles per day (vpd) with a 20 year future AADT of 10,100 vpd. The sufficiency ratings of Bridge A and B are 72 and they are not deficient but are fracture critical.

Purpose & Need (Why the project is needed such as structural deficiency or bridge does not meet current state/federal standards for width or vertical clearance or the roadway has sharp horizontal curves or sight distance problems or narrow shoulders which do not meet current standards):

The purpose and need is to correct two bridges that are at risk of becoming structurally deficient.

Alternatives considered & Proposed Improvement (Provide reason why an offset alignment to one side is

	ected vs the other side, Proposed consti ad will be open to traffic during constru		ge widths, AND mention whether the
Th 38 ft.	e proposed project consists of replace ft. clear roadway width and approace outside shoulders and 2 ft. inside shoen by utilizing cross-overs. All work were the contraction of the cont	ing both bridges on current ali h roadways consisting of 2-12 foulders. The bridges will be con	t. wide driving lanes with paved 10 structed while leaving the highway
Die	d the project have public involvement d supporting documents in the appendix	t (Check the applicable items and	
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 III.b.3. of the 2011 FHWA/ODOT Programmatic Agreement for	or Proc	essing
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	d CE w	vill be
required.		
Description/Question	Yes	No
Item(a)		
Does the project involve residential or commercial relocation?		X
2. Does the project involve acquisition of right-of-way not adjacent to the existing facility?		X
3. Does the project involve property in which another Federal Agency or Federally Recognized Tribe has ownership, oversight or any other encumbrance?		X
Item(b)		
Does the project involve a determination of adverse effect by Oklahoma State Preservation Office (SHPO) or a designated Tribal Historic Preservation (THPO) in accordance with Section 106? An exception to this would apply if adverse effects are addressed programmatically as part of a previously executed general Section 106 Programmatic Agreement with SHPO, FHWA and others, and a project-specific MOA will not be required.		X
Item (c)		
Does the project involve a Programmatic Section 4(f) or <i>de minimis</i> finding which has not been previously approved by FHWA?		X
Item (d)		
Does the project involve a Section 6(f) property?		X
Item (e)		
Does the project involve any impact on Noise Abatement Criteria (NAC) Category A, B, C or D receptors?		X
Item (f)		
1. Does the project involve a finding of "may effect, likely to adversely affect" to a federally listed endangered or threatened species or its critical habitat determined during the Section 7 Informal Consultation Process? The exception to this is the American Burying Beetle or any other species which has been addressed under a separate formal programmatic agreement.		X
2. Does the project involve a Section 7 Formal Consultation Process?		
Item (g)		
Does the project require an Individual Section 404 Permit (This is for major River Crossings, waters or wetlands impact greater than 0.5 AC, Projects with Formal Consultation, or others as determined by USACE)?		X

Criteria Identified in Section III.b.3. of the 2011 FHWA/ODOT Programmatic Agreement for	r Proce	ssing
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 Individua	I CE w	ill be
required.		
Description/Question	Yes	No
Item (h)		
Does the project require a Coast Guard Permit?		**
Does the project require a coast Guara remit.		X
There (i)	-	
Item (i) Does the project involve construction across or adjacent to a river designated as a component in		
Does the project involve construction across of adjacent to a river designated as a component in		\mathbf{X}
the National System of Wild and Scenic Rivers?		
Item (j)		
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		\mathbf{X}
and minimize impacts?		
Item (k)		
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	ĺ	\mathbf{X}
		11
state or local authority?		
Item (l)		
Does the project involve any known Superfund site?		\mathbf{X}
Item (m)		And 100 (100 (100 (100 (100 (100 (100 (100
Does the project involve any permanent changes to the operation of an Interstate highway,		\mathbf{X}
associated interchanges or ramps?		
Item (n)		
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,		X
relocations, and other identified impacts?		
Item (o)		
Does the project have any substantial or public controversy on environmental grounds?		X
2000 tal. prg.		Z
Item (p)		
If the project involves road closure or ramp closure, do any of the following conditions apply? (Ch	eck the	boxes
ONLY if the project involves road closure)		
i. No Access will be provided to local traffic or posted		
the first term of the first te		
iii. The detour closure will interfere with special events or activities		
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
iv. The detour or closure will substantially after the environmental consequences of the action, such as by creating unsafe conditions on the detour route or requiring additional		
action, such as by creating unsafe conditions on the detour route of requiring additional traffic		
work or expansion to detour routes to carry the additional traffic.		
v. There is a public controversy associated with the detour or closure		
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		
TAINMING OF CAMPACTURE OF CAMP		
Item for which the answer is YES		

Explanation that CE Classification is appropriate Commitments (Check Applicable ones) Plan notes requiring avoidance of cultural resources in off-project areas will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2D(2). Properties eligible for the National Register of Historic Places (NRHP) have been identified within the project area. Plans need to be submitted to Environmental Programs Division by the Designer for further coordination with the State Historic Preservation Office (SHPO) prior to the bid solicitation process or construction. Properties eligible for the National Register of Historic Places (NRHP) have been identified within the project area. The State Historic Preservation Office (SHPO)'s approval is based on the project as currently proposed. The following Plan notes will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2D(2). Properties eligible for the National Register of Historic Places (NRHP) have been identified within the project area. The State Historic Preservation Office (SHPO)'s approval is based on the project as currently proposed. If there are any changes to the project plans, further coordination with the SHPO will be required through the Environmental Programs Division prior to the bid solicitation process or field changes during construction. (Only for Special Projects) Properties eligible for the National Register of Historic Places (NRHP) have been identified within the project area. Further coordination with the State Historic Preservation Office (SHPO) is required by the ODOT Project Management's Special Projects Branch prior to the bid solicitation process or construction. The SHPO letter which cites the information needed to proceed is included in the Appendix. The file number from the SHPO letter should be referenced in all correspondence with SHPO. Copies of such coordination should be provided to the Environmental Programs Division for the project record. (Only for Special Projects) Properties eligible for the National Register of Historic Places (NRHP) have been identified within the project area. The State Historic Preservation Office (SHPO)'s approval is based on the project as currently proposed. The following Plan notes will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2D(2). If there are any changes to the project plans, further coordination with the SHPO will be required by the ODOT Project Management's Special Projects Branch prior to the bid solicitation process or field changes during construction. Please reference the SHPO letter which cites the conditions of approval and reference the file number from SHPO letter in all correspondence. Copies of such coordination should be provided to the Environmental Programs Division for the project record. The project occurs in an area where the American burying beetle (ABB) occurs. Special Provision 656-4 for ABB will be added to the final project plans/contract per policy Directive C-201-2D(2). Survey for the following species need to be completed prior to constructions and plan notes will be provided after the completion of the survey (List species survey requirements below) Plan notes requiring construction season restrictions for the following species will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2D(2). (List species or notes below) Plan notes requiring avoidance and minimization of impacts for the following species will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2D(2). (List species helow)

Commitments (Check Applicable ones)

The following Plan notes requiring construction season restrictions for the migratory birds will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2D(2). (*List notes below*)

Swallows:

Cliff Swallows and Barn Swallows are small colonial nesting birds protected by the federal Migratory Bird Treaty Act. These species commonly use bridges and culverts for nesting. The nesting season for the swallows runs from April 1 to August 31. Swallow use of bridge NBI No. 16159 and 16167 has been observed during the initial surveys conducted as part of the biological studies in 2014. Swallow use of the remaining bridges and culverts was not observed during the initial survey. Swallows may occupy these structures in the future nesting seasons. Any activities which would destroy active nests or harm eggs or birds would violate the Migratory Bird Treaty Act. The Resident Engineer will evaluate the contractor's proposed work methods and conclude whether the proposed work would harm the nesting birds before work near the structure is authorized. If the proposed work will harm the nesting birds, the bridge may be netted prior to April 1 or the work delayed until the nesting season is complete. Methods other than netting must be pre-approved by the ODOT Biologist.

The action may involve work in potentially jurisdictional waters and potentially jurisdictional wetlands. For State Projects, the 404 permit application form needs to be submitted by the Designer through Project Management Division to Environmental Programs Division at the time of Right-of-Way submittal for evaluation and determination of the appropriate Clean Water Act Section 404 permit application for the project. For Local Government Projects or Special Projects, a copy of the 404 permit obtained by the County/City should be submitted by Local Government Division or Special Projects to Environmental Programs Division for the Project File.

The action involves work in Critical Resource Waters and requires Pre Construction Notification (PCN) to USACE regardless of the area of impact. For Local Government Projects or Special Projects, a copy of the PCN by the County should be submitted by Local Government Division or Special Projects Branch to Environmental Programs Division for the Project File.

The action will require a FEMA Map revision.

X Plan notes requiring avoidance of potential hazardous materials remains areas will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2D(2).

The Department's Hazardous Coordinator has determined that a Preliminary Site Investigation (PSI) is required for this project. Construction Plans need to be submitted by the Designer to Environmental Programs Division at the time of Right-of-Way submittal for the PSI.

The following plan note regarding Road Closure will be added to the plans (*Add plan notes restricting road closure*).

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

(Only for Local Government Projects) The Local Government Project Manager shall coordinate any required species surveys with Environmental Programs Division prior to letting the project. Note the seasonal restrictions for surveys in the biological studies summary.

The following Airport/Airfield located within 4 miles of this project. This action may require notifying the Federal Aviation Administration (FAA) of proposed construction via FAA Form 7460-1 prior to construction. (*List the name of the Airport below*)

Other (List Commitment below)

Co	mmitments (Check Applicable ones)	
	Other (List Commitment below)	

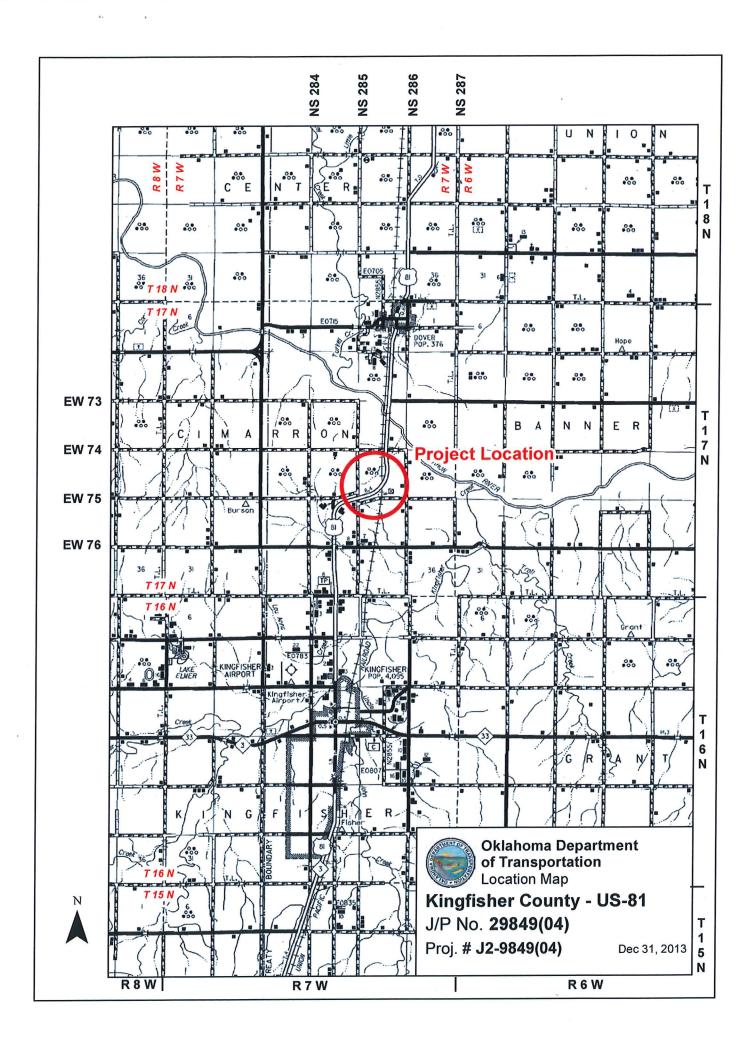
The mitigation measures above should be discussed at all Pre-work conferences per Policy Directive C-201-2E(1). The Designer shall provide a **copy of the final plans with the mitigation notes** to Environmental Programs Division for the project Records.

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 2011 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.

	Environmental Consultant Project Manager (If Applicable)	Date		T.
	Environmental Consultant Project Manager (11 Applicable)	Butt	THE RESERVE OF THE PARTY OF THE	
	Environmental Consultant Firm Name (If Applicable)	Date		
	Environmental Conductant 2 222 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
	County Commissioner or City Manager	Date	The Mary	
	(For Local Government Projects)			
-1		24 MARCH	7111	6
1	m Velme	THE RESIDENCE OF THE PROPERTY	201	
)	ODØT Environmental Project Manager	Date		day
	\bigcap	3 3016		
	Assistant Environmental Programs Division Engineer	Date		
DIA PER	Assistant Environmental Flograms Division Engineer			pour sub
	$\sim \times \sim \sim$	3/30/11	0	
	Environmental Programs Division Engineer	Date		
CON	CLUSION:	I was a second		
COI	Shorier			
ODO	T has reviewed the conditions identified in Section 1	IIIb.3 of Federal Highway		
Admi	nistration (FHWA)/ODOT Programmatic Agreement	for Processing Categorical	Y.	ES
Exclu	sions (CE) and determined that an Individual CE must	be submitted to FHWA for	X	
appro		·	N N	0
	dividual CEs requiring FHWA Approval:			
Concu	rence that this project qualifies for a Categorical Exclusion:	9		
		*		
	D '	Date		
A 44 a a 1	Environmental Programs Manager, FHWA	·		
Attac	nments: Location Map	Plans and Footprint		
	Memos with Plan Notes	Studies		
	NEPA On Hold Memo if applicable	NEPA Status Report		
D' / 'I	tion List (Charle Applicable Ones)			
	ution List (Check Applicable Ones) Project Management Division (All State Projects)			я
X	Roadway Design Division (All State projects with the exc	cention of projects from Traffic	Division	and
X	Special Projects)	seption of projects from Training		
X	Bridge Division (All State Bridge Projects)			
Λ	Traffic Division (For projects from Traffic Division)	4		
-	Local Government Division (County or City Projects)		9	
	Special Projects (Special Projects Only)			
	Safe Routes to School Coordinator (SRTS Projects Only)			
X	Date Routes to Delited Cooldinator (Six S 115) 22th Chil)			
Y	Field Division Engineer (All Projects)			
X	Field Division Engineer (All Projects) Right-of-Way Division (All Projects)			
X X X	Field Division Engineer (All Projects)	n FHWA's Directory)		

Copy to: Reading File

Preparer/Reviewer Signatures





Oklahoma Department of Transportation

Environmental Programs Division

Office 521-3050 Fax 522-5193

DATE:

March 30, 2016

TO:

Roadway Design Division, Project Management Division, Bridge Division

FROM:

Environmental Programs Division

SUBJECT:

US-89 over UPRR, 5.3 miles north of SH-33, Kingfisher County. Project No. J2-

9849(004); JP No. 29849(04).

A leaking underground storage tank (LUST) site is located on the southeast side of US-89, north of EW-75 Road and west of the railroad tracks. Please have the LUST site location added to the plan and profile sheets by placing a box in the appropriate location with the Oklahoma Corporation Commission (OCC) facility number, case number, and denoting it as a LUST site.

Please have the following added to the "Environmental Mitigation Notes" of the project plans per Policy Directive C-201-2D(2):

"Station

OCC Facility No./Case No.

Facility

122+50 to 124+50 Rt 25'

37-01865/064-0997

ODOT

Petroleum contamination may exist at or near the referenced Leaking Underground Storage Tank (LUST) site. Based on the available information, contamination is not expected to affect construction activities, but is still possible. In the event contaminated soil or groundwater is encountered, the contractor shall adhere to ODOT's Hazardous Materials Specification 107.15 and notify the Resident Engineer, who may then contact the Environmental Programs Division at (405) 521-3050 for assistance."

This mitigation measure should be discussed at all pre-work conferences per Policy Directive C-201-2-E(1). If you have any questions, please contact David Edwards at (405) 521-2673.

DAE

Xc:

NEPA Project Manager Division 2 Engineer

Right-of-Way & Utilities Division



Oklahoma Department of Transportation

Environmental Programs Division

Office 521-3050 Fax 522-5193

DATE:

January 4, 2016

TO:

Daniel Nguyen, Project Management Division

FROM:

Tim Vermillion, Environmental Programs Division

SUBJECT: Notification of NEPA on Hold

County	Kingfisher	State Job Piece No:	29849(04)
NEPA Project Manager	T. Vermillion	Phone Number	405-521-2676
ODOT Field Division	4	Bridge NBI No. (For County & State Projects) & Location No. (County Projects Only)	16167, 16159
Project Description from JPINFO (Type of Construction & Project Extent)		APPROACHES: US 81: NB & SB I	BRIDGES OVER
Let Date	2023		

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

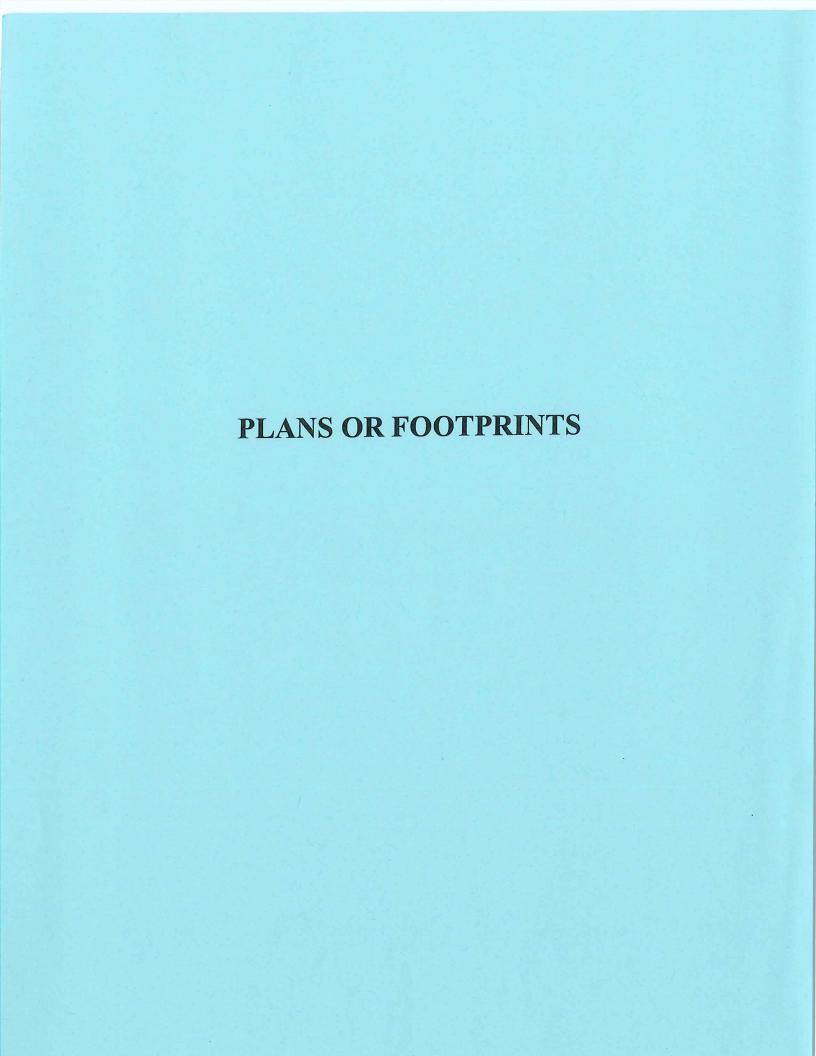
The NEPA process is on hold until the availability of 30% plans to complete some of the studies. Additional 2 to 6 months will be required to complete these studies.

X___The NEPA process is on hold until the availability of 60% plans (R/W Submittal) 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.

Copy to:

Director of Engineering – Tim Tegeler Engineering Manager, Roadway Design Engineering Manager, Bridge Design

Field Division Engineer Right-of-Way Division



STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED

 $U.S.\ HIGHWAY$ Federal aid project no. xxx.xxx(xxx) bridge & approaches

FOR SURVEY CONTROL DATA, SEE SURVEY DATA SHEETS.

17/4

KINGFISHER

U.S. HIGHWAY 81

PLAN, AND REPELE (14, 2)
TYPICAL, GRADING ALONG RAUROAD (12)
HYRIZONTAL CLEAGANNE PERPENDICULR TO RAUROAD
GERERAL LOLA NA DE ERENYTON - SRIGGE "Y" (17, 2)
TYPICAL CAGOSS SECTION - BRIDGE "Y"
GERERAL LOLA NA UND ELENTION - BRIDGE "Y"
TYPICAL CAGOSS SECTION - BRIDGE "W"
STOWNEY DATA SHEETS (1-13)
GROSS SECTION S (1-27)
GROSS SECTIONS (1-27)

TITLE SHEET
TYPICAL SECTIONS (1-2)
GENERAL NOTES (BRIDGE)
UNION PACIFIC RALROAD COMPANY NOTES

INDEX OF SHEETS

SHEET NO.

CONTROL SECTION NO. 81-37-04
STATE JOB NO. 29849(04)
BRIDGE "A" LOCATION NO. 3704-05438X
EXISTING NBIS NO. 16159. NEW NBI NO. XXXXX 17

STA, 157+05.16
END INCIDENTAL
CONST.
STA, 148+00.00
END PROJECT 90° 200 12 EW 75 BRIDGE "A" BEGIN STA, 129+96.07 END STA, 135+08.71 C/L STA, 132+52.00 LENGTH = 512.64

XXXXXXX

TRAFFIC

THE FOLLOWING STANDARDS WILL BE REQUIRED FOR THIS PROJECT:

, , , R-6-W R-7-W ø -- EW77 ---EW 76 EW 78 STA, 121+00.00 BEGIN PROJECT CONTROL SUB-SECTION NO. 17,40 T-16-N T-17-N 3RIDGE "B" 3EGIN STA, 129+25.95 END STA, 133+98.48 C/L STA, 131+62.00 LENGTH = 472.53' STA, 102+14.28 BEGIN INCIDENTAL CONST.

CONVENTIONAL SYMBOLS

1" = 5280"

1* = 50* 1* = 50 1° ± 5'

Z VER. PROFILE HOR. LAYDUT MAP

SCALES

20 YR FLEX ESALS = 8.6 M

DESIGN DATA

ADT 2015
ADT 2035
K (DHV/ADT)
D
T (% AADT)
T (% ADT)
V

PROPOSED R/W 3-4-2016

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

Macarthur Associated Consultants
TOTAL CONSULTAN

KENNETH R. GILLESPIE, P.E. OKLA. REG. NO. 20104 ROADWAY

MacArthur Associated Consultan

GREGORY LYNN FITTER 15070

GREGORY LYNN FITTER, P.E. DKLA, REG. NO, 15070 BRIDGE "A" AND BRIDGE "8"

OKLAHOMA DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION DATE APPROVED DATE APPROVED ξ

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DIVISION ADMINISTRAT

SWO 4987(1)

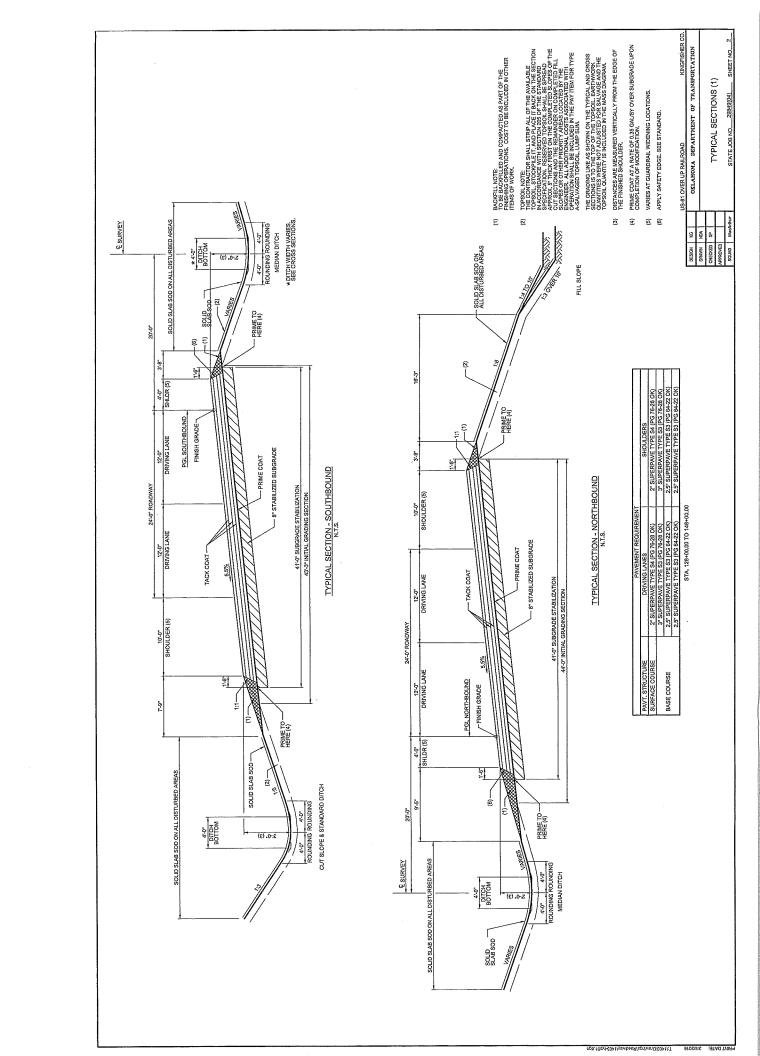
LOCATION MAP

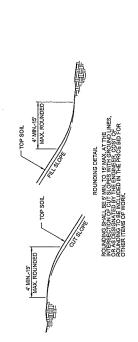
2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - ENGLISH GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, JANUARY 04, 2010.

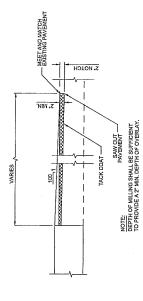
PROJECT LENGTH BASED ON C.R.L. STATIONING ROADWAY LENGTH_ BRIDGE LENGTH__ PROJECT LENGTH_

_2207.42 FT. .492.58 FT. __2700.00 FT.

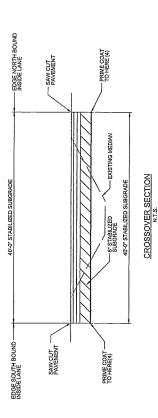
0.418 MI. 0.093 MI. 0.511 MI.







PROFILE OF ASPHALT OVERLAY TRANSITION N.T.S.



STA, 102+13,41 TO STA, 106+75,12 STA, 152+83.09 TO STA, 157+56,61

	PRIME COAT	SOUR SLAB SOB AT ALL DISTURBED AREAS	-
3,-3,-	GUARDRAIL 4" S4(PG 64-22 OK)	Ę	DENING
2, 2,			GUARDRAIL WIDENING N.T.S.
4' OR 10' SHOULDER	2%		705

(1) BACKFILL NOTE: TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS, COST TO BE INCLUDED IN OTHER

	ITEMS OF WORK,	
(2)	TOPSOIL NOTE:	
	THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE (T BACK ON THE SECTION	
	IN ACCORDANCE WITH SECTION 205 OF THE STANDARD	
	SPECIFICATION. RESERVED TOPSOIL SHALL BE SPREAD	
	APPROX.5" THICK FIRST ON THE COMPLETED SLOPES OF THE	
	SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE	
	ENGINEER, ALL ADDITIONAL COSTS ASSOCIATED WITH	
	OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR TYPE	
	A-SALVAGED TOPSOIL 11MAD SINA	

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS OT THE TOP OF LEASTHWORK QUARTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS DIAGRAM.

(3) DISTANCES ARE MEASURED VERTICALLY FROM THE EDGE OF THE FINISHED SHOULDER.

(4) PRIME COAT AT A RATE OF 0.35 GALISY OVER SUBGRADE UPON COMPLETION OF MODIFICATION. (5) VARIES AT GUARDRAIL WIDENING LOCATIONS.

			US-81 OVER UP RAILROAD
DESIGN	КО		OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	NDA		
снескер	ďS		C/ SNOTECHS IN DIRECT
APPROVED			1 1 1 CAL GEO 1 CHG (Z)
SOUAD	MucArthur	uthur	STATE IOR NO 29949(04) SHEETING 3

GENERAL NOTES (BRIDGE)

COMPLY WITH THE REQUIREMENTS OF THE 2009 OKLAHOMA STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

SUPERSTRUCTURE CHAMFER REQUIREMENT

ALL EXPOSED EDGES SHALL HAVE A ¾ CHAWFER UNLESS OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER.

PIER AND ABUTMENT CHAMFER REQUIREMENT

ALL EXPOSED CONCRETE EDGES (EXCLUDING PEDESTAL EDGES WHICH SHALL HAVE ½" CHAMFER) SHALL HAVE 1½" CHAMFER UNLESS OTHERWISE NOTED. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER.

CONCRETE PLACEMENT

ALL CONCRETE SHALL BE PLACED IN THE DRY.

CONCRETE

CONCRETE FOR ABUTMENT SEATS, WING WALLS, AND PIERS SHALL BE CLASS A, Fc \approx 3,000 PSI MINIMUM STRENGTH AT 28 DAYS.

CONCRETE FOR SUPERSTRUCTURE, APPROACH SLABS, AND PARAPET SHALL BE CLASS AA, Fc = 4,000 PSI MINIMUM STRENGTH AT 28 DAYS.

WHEN VIBRATING CONCRETE CONTAINING EPOXY COATED REINFORCING STEEL, THE VIBRATOR SHALL BE EQUIPPED WITH A SHEATH DESIGNED TO PREVENT DAMAGE TO THE EPOXY COATING.

REINFORCING STEEL

UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, ALL REINFORCING STEEL, SHALL CONFORM TO AASHTO M31 (ASTM A615), GRADE 60.

STRUCTURAL STEEL

PROVIDE STRUCTURAL STEEL FOR DAPHRAGM SHAPES AND PLATES IN ACCORDANCE WITH AASHTO MZ70 MZ70 MZ70 STADE GOW (WEATHERING STEEL, CHARPY V-NOTCH TESTING NOT REJUIRED). USE BOLTS CONFORMING TO AASHTO MIGH (ASTM A225). PROVIDE ALL BOLTS, NUTS, WASHERS AND WELDING WITH WEATHERNE OF HARACTERISTICS.

PROVIDE STRUCTURAL STEEL FOR ANCHOEN PLATER AND BULL UP DOWNLAT ANGLES IN ACCORDANGEWITH ANCHOR BULL STRUCTURED. FOR ANCHOEN BOLL'S, FOR ANCHOEN BULL STRUCTURED. USE ANCHOEN BOLL'S, FOR ANCHOEN BULL'S ANCHOEN BULL'S ANCHOEN BOLL'S, FOR ANCHOEN BULL'S ANCHO

PENETRATING WATER REPELLENT SURFACE TREATMENT

APPLY WATER REPELLENT TREATMENT TO THE BRIDGE IN A MANNER CONSISTENT WITH THE DETAILS SHOWN IN THE PLANS.

DECK SLAB

INTERPERIOR OF AN BENEGORIO, PORTHER OF THE ENGE SLAB AND SER HAITED WITH CONSTRUCTION CONTURANCE PERSONAL REPRESENDED. AND THE DIRECTION OF TRAFFICA SO INFECTED BY THE ENGINEER. DESCRIPTION CONTURNAL REPRESENDEDLARY OF THE DIRECTION OF TRAFFICA SO INFECTED BY THE ENGINEER. DESCRIPTION OF THE DIRECTION OF THE WINNER CONTINUE THE PERSONAL SERVICE OR WITH BENES OF THE REPRESENTE SOON. ALL CONSTRUCTION JOINTS WITHIN THE DESCRIPTION SHALL BE SEALED USING HIGH MICHEGIAL WITHIN SKY INCHESS OF SANY COOKSTRUCTION CONSTRUCTION.

STRY-MA-LOCE STEEL DESC FORMS MAY BE USED IF THE MANINUM DECK SAS AT PHOROGENS OF PE TO STRYAMA-LOCE STEEL DESCRIPTION OF THE STREET DESCRIPTION OF THE STREET CORRELATION. ADDITIONAL WIGHOUT OF THE STREET CORRELATION ADDITIONAL WIGHOUT OF THE SERVE SHAME STREET WAS ADDITIONAL WIGHOUT OF THE SERVE FORM AND FILLERS SHALL NOT SECRED S PSF. NO WIGH LONG TO THE TOP FLAVED OF STRUGS WITH DECK FORM AND FILLERS SHALL NOT SECRED S PSF. NO WIGH SHALL SEE SHEET NOT. A PREFORMED STRUGGNOON OF ANY OTHER FILLER MUST REAL SEE SHEET STATAMA-LOCE PROJECTION OF ANY OTHER FILLER WILLIAMS SHAWN BE USED IF THE FOLLOWING. POONDETING STRYAMA-LOCE PRESTRESSED CONCRETE DECK FORMS MAY BE USED IF THE FOLLOWING.

- 1. SHOP DRAWINGS AND STRUCTURAL CALCULATIONS FOR THE FORMS ARE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
- 2. A NEW STRUCTURAL DESIGN, STRUCTURAL CALCULATIONS, AND A NEW REINFORMING SCHEDULE FOR THE DECK SLAB IS SUBMITTED TO THE BROGE EIGNBEER FOR APPROVAL.
- ALL SHOP DRAWINGS, NEW DECK SLAB REINFORCING SCHEDULES AND ALL STRUCTIVEL DESIGNS. AND CALCULATIONS SHALL BE PREFAMED MIO SEALED BY A PROFESSIONAL BIGINER REGISTERED IN THE STATE OF OKLAHOMA.

ALL COST ASSOCIATED WITH THE USE OF STAY-IN-PLACE FORMS INCLUDING THE COST OF PROFESSIONAL SERVICES MATERIALS, LABOR, EQUIPMENT WAND INCIDENTALS SHALLEE AT THE CONITRACTOR'S EXPENSE; SECTION 920 OF THE STANDARD SPECIFICATIONS FOR MORE INFORMATION.

APPROACH SLABS

CLASS AA CONCRETTE SHALL BE USED IN APPROACH SLABS. THE QUANTITY GIVEN IS BASED ON THE ACTUAL SOUGHER WRIDS OF THE APPROACH SLABS. ALL COSTS OF CONCRETE, ENFORCANGE STEEL, JOINT SEXLANT EXCANATION, LABOR. EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED SHALL BE INCLUDED IN THE PRICE BIO PER SQUARE YEARD OF "APPROACH SQUA".

DRIVEN PILES

(A) DRIVING EQUIPMENT: USE A PILE DRIVING HAMMER OF THE SIZE AND TYPE CAPABLE OF CONSISTENT. V BLIVENDEN OF HE FEFFORTE BENEFOR SUFFICIENT TO DRIVE THE HEST TO THE RECURSED THE LELAYTION AND TO ACHIEVE THE FACTORED PILE OF ACAITY WITHOUT EXCEEDING THE RECURSED THE ELAYACITY WITHOUT EXCEEDING THE LIMITATIONS SET ON THE ALLOWAGLE DRIVING STRESSES IN ACCORDANCE WITH SECTION SIGNEY.

(B) MATERIAL: ALL DRIVEN PILES SHALL BE AASHTO M2770 GRADE 50.

ABUTMENT PILING CAPACITY

BRIDGE "A"; ABUTMENT NO. 1 = X TONS/PILE ABUTMENT NO. 2 = X TONS/PILE

THE FACTORED REACTIONS OF EACH HP 12X53 PILE FOR BRIDGE "A" AND "B" ARE AS FOLLOWS;

BRIDGE "B": ABUTMENT NO. 1 = X TONS/PILE ABUTMENT NO. 2 = X TONS/PILE

THE FOLLOWING FORMULA (GATES EQUATION) SHALL BE USED TO DETERMINE THE AXIAL LOAD RESISTANCE OF THE DRIVEN FOUNDATION PILES:

AXIAL LOAD RESISTANCE = \$ [(0.875 '/E log₁₀ (10N)) - 50] (TONS)

WHERE: \$\phi \text{RESISTANCE FACTOR OF 0.4}

E « ENERGY PRODUCED BY THE HAMMER PER BLOW IN FOOT-POUNDS, FOR GRAVITY AND SNOGLEACHING DISESEL HAMBERS, THE YALUE IS BASED ON THE ACTUAL RAM STROKE GOSSERVED IN THE FIELD AN MEASURED IN FEET MULTIPLIED BY THE RAM WEIGHT IN POUNDS.

N = AVERAGE NUMBER OF HAMMER BLOWS PER INCH OF PILE PENETRATION FOR THE LAST 10 TO 20 BLOWS DELIVERED TO THE PILE HEAD.

THE ABOVE FORMULA IS ONLY APPLICABLE WHEN:

THE PILE DRIVING HAMMER HAS A FREEFALL (GRAVITY AND SINGLE ACTING HAMMERS ONLY). THE HEAD OF THE PILE IS NOT ROROMDED, CRUSHED OR OTHERWISE DAMAGED. THE PERETATION IS QUICK AND UNIFORM. THERE IS NO APPRECIABLE REBOUND OF HAMMER, AND A FOLLOWER IS NOT USED.

THE NUMBER OF BLOWS PER INCH OF PILE PENETRATION MAY BE MEASURED EITHER DURING INITIAL DIRIVING SPENDO, DRIVING OF PRE-PENDON, WHAT WARM HAMMER OPERATED AF FULL ENERGY AFTER A PILE SET PERIOD, AS DETERMINED BY THE ENGINEER.

STAINLESS STEEL FIXED BEARING ASSEMBLIES

REVISIONS

REV. NO. DESCRIPTION

STAINLESS STEEL EXPANSION BEARING ASSEMBLIES

PROVIDE AND INSTALL EXPANSION BEARING ASSEMBLES OF THE SIZE, SHAPE, AND LOCATION AS DETAILED IN THAT STAND AND THAT STAND AND

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

•				US 81 OVER UNION PACIFIC RAILROAD KINGFISHER COUNTY
	DESIGN	Q.P		OKLAHOMA DEPARTMENT OF TRANSPORTATION
	-			
	DRAWN	þ		
	CHECKED GLF	GLF		GENERAL NOTES (RRIDGE)
	APPROVED			
	20100		1	CITATION CONTROL CITATION

NOTIFICATION OF WORK

WINGHING DAYS ADVANCE NOTICE. IN WHITHING, BEFORE ANY WORK IS STAFFED ON THE SITE. TO ANYOD HAZARDAS. THE WIND MACHES AS ALIROAD COMPANY MAY HAVE A REPRESENTATIVE PRESENT, FOR DESIGNED INCESSARY, FOR THE PURPOSE OF INSPECTION AND THE ISSUANCE OF ANY APPROPRIATE STRENGTHOS, FOR PRINCIPLOSE OF PRINCIPLOSE OF PRINCIPLOSE OF PRINCIPLOSE REPURCHMENT OVER THE UNIVERSITY OF SALIKADO, OF PRINCIPLOSE OF PRINCIPLOSE OF SALIKADO, OF PRINCIPLOSE OF PURPOSE THE USES BROSS REPURCHED THE UNIVERSITY OF SALIKADO TO SALIKADO TO SALIKADO TO SALIKADO. THE CONTRACTOR IS REQUIRED TO GIVE THE UNION PACIFIC RAILROAD COMPANY AT LEAST 10

THE CONTRACTOR SHALL NOTIFY:

MANAGER OF TRACK MAINTENANCE UNION PACIFIC RAILROAD COMPANY 220 S. MILES EL RENO, OK 73036 PHONE: 405-274-4426 MR. HANS WAMMEL

MF, CLAY, ARDANAMAN MANAGER, INDISTRY R PUBLIC PROJECTS UNION PACIFIC RALLISOAD COMPANY E. RENO, OKLAHOMA 78036 PHONE SIGNARYA CARROMANAGUP, COM

FLAGGING AND INSURANCE:

E LAGGING AND INSTRUNCES SHALL BE PROVIDED AS BEFORFEED IN SECTION HOT OF THE STANDARD SPECIFICATIONS AND IN THE SPECIAL PROVISIONS FOR REALIROAD FLAGGING (SEE PROPOSAL FOR SPECIAL PROVISIONS) AND WHAT IS STATED IN THE UNION PACIFIC RAILROAD COMPANY'S RIGHT OF ENTIRE ASREBMENT. UNION PACIFIC RAILROAD COMPANY, AT HER DESCRETION, SHALL PROVIDE FLAGGING FOR THE RAILROAD DURING CONSTRUCTION OPERATIONS.

THE CONTRACTOR IS REQUIRED TO REIMBURSE UNION PACIFIC RAILROAD COMPANY FOR FLAGGING SERVICES PROVIDED.

THE CONTRACTOR SHALL ALSO FURNISH SKITSKATORY EVIDENCE TO THE STATE OF DIKLAHDIAN THAT THEY HAVE ROYDED BUSINGANCE OF THE KINDS AND ANDURTS AS SPECIFED IN THE SPECIAL PROVISIONS FOR SPECIAL BOAD INSURANCE AND IN THE UNION PACIFIC COMPANYS RIGHT OF ENTRY. AGREEMENT.

THE CONTRACTOR WILL BE REQUIRED TO ENTER INTO A RIGHT OF ENTRY AGREEMENT WITH THE . WIND PACIFIC RALLROAD COMPANY BEFORE THEY WILL BE ALLOWED ON THE RAILROAD'S. RIGHT CS-WAY.

PRE-WORK MEETING:

THEN TO WORKING ON THE UNION PACIFIC PALE/DAD COMPANYS RIGHT-OF-WAY OR IN THE VICINITY OF THEIR TRACKS, YOU MUST CONTACT THE LOCAL MANAGER OF TRACK INNIVERNOE FROM THE UNION PACIFIC ROLLEADS COMPANY TO COORDINATE YOUR WORK. IT IS JUTILE THAT YOU HAVE CONTACT WITH THE WINNIVER PROLED, COMPANY TO CONTACT WITH THE WINNIVER PROPERTY. TO GETTING ON THE PALLEADS PROPERTY.

COORDINATION WITH RAILROAD:

THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS IN A MANNER WHICH WILL NOT THE CONTRACTOR SHALL CONDUCT CONSTRUCTION ACTIVITY WITHIN 25 (TWENTY-FIVE) FEET OF ACTIVITE TRACKS WILL REQUIRE A FLAGMAN TO BE PROVIDED BY THE UNION PACIFIC FALLROAD COMPANY AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE UNION PACIFIC RAILROAD COMPANY MANAGER OF TRACK MAINTENANCE, A MINIMUM OF 30 (THIRTY) CALENDAR DAYS IN ADVANCE OF WHEN FLAGGING IS REQUIRED.

SPECIAL PERMISSION MUST BE OBJAINED FROM THE UNION PACIFIC RALLROAD COMPANY BEFORE MOVING ANY EQUIPMENT OR OTHER OBJECT WHICH COULD MAKE THE TRACK IMPASSABLE IF IT FELL WITHIN THE AREA SHOWN ON THE CONSTRUCTION CLEARANCE DIAGRAM.

RAILROAD FLAGGERS, PROTECTIVE SERVICES, AND PROTECTIVE DEVICES WILL BE REQUIRED, BUT LIMITED TO, EVENTS WHEN:

- THE CONTRACTOR WORK ACTIVITIES ARE WITHIN 25 (TWENTY-FIVE) FEET OF THE TRACK, MEASURED FROM THE TRACK CENTERLINE.
- ACTIVITIES ARE OVER OR UNDER THE TRACK.
- · CRANES OR SIMILAR EQUIPMENT WILL NOT BE POSITIONED WHERE THEY COULD FOUL THE TRACK IF THEY TIPPED OVER OR EXPERIENCED SOME OTHER CATASTROPHIC EVENT.
- IN THE OPINION OF THE UNION PACIFIC RAILROAD COMPANY REPRESENTATIVE;
- IT IS NECESSARY TO SAFEGUARD THE UNION PACIFIC RAILROAD COMPANY PROPERTY, EMPLOYEES, TRAINS, ENGINES, AND FACILITIES.
- WHEN ANY EXCANATION IS PERFORMED BELOW THE BOTTOM OF THE ELEVATIONS AND TRACK OR OTHER UNION PAGIFIC RAULROAD COMFANY FACILITIES MAY BE SUBJECT TO MOVEMENT OR SETTLEMENT.
- WHEN WORK IN ANY WAY INTERFERES WITH SAFE OPERATION OF TRAINS AND TIMETABLE SPEEDS.
- WHEN ANY HAZARD IS PRESENTED TO RAILROAD TRACK, SIGNALS, COMMUNICATIONS, ELECTROAL, GO OTHER PACILITIES EITHER DUE TO PERSON, MATERIAL, EQUIPMENT, OR BLASTING IN THE AREA.

PROTECTION OF RAILROAD UNDER BRIDGE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PAILROAD TRACK BED DURING ALL CONSTRUCTION OPERATIONS, PROID TO ANY WORK BEING STARTED, A PROPOSED METHOD OF PREVENTING GEBRIS PROM FALLING ON THE RALLAGAD TRACK BED SHALL BE SUBMITTED TO THE PAILROAD REPRESENTATIVE FOR HIS APPROVAL.

THE CONTRACTOR SHALL NOT BE PERMITTED TO LEAVE ANY WORKER SCAFFOLDING IN PLACE IN WORKING POSITION. AT THE RUM OF EACH WORKCAY, THE SCAFCLDING SHALL BE REMOVED AND SET A SAFF ED SISTANCE FROM ANY OPERATING PAULROAD LINE, SCAFFOLDING SHALL AT ALL TIMES MAINTAIN THE MINIMUM CLEARANCE AS SHOWN ON THE THALEWORK DIAGRAM. ON THIS SHEET.

DEMOLITION OF STRUCTURES OVER RAILROAD:

ALL DEMOLITION PLANS FOR REMOVAL OF STRUCTURES OVER RALROAD LINES SHALL BE REVIEWED AND APPROVED BY THE UNION PACIFIC RALROAD COMPANY BEFORE ANY REMOVAL MAY BEGIN.

DEMOLITION OF STRUCTURES WILL BE PERFORMED IN ACCORDANCE WITH THE FALL ROAD'S "INSTRUCTURES OVER REPEARATION OF DEMOLITION PLANS FOR STRUCTURES OVER THE UNION PACHED BALLROAD."

REVISIONS REV. NO. DESCRIPTION

UNION PACIFIC RAILROAD COMPANY STANDARD REQUIREMENTS:

- 1) THE ELEVATION OF THE EXISTING TOP-OF-RAIL SYALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RALLROAD PRIOR TO CONSTRUCTION.

 2) ALL SHORING SYSTEMS THAT IMPACT THE PALLROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD SHORING SHAPPORTS THE PAILROAD SHEEKEN THE RAILROAD SHORING SHAPPORTS THE DELIBELIES FOR TRANDARY SHORING.
 - ALL DEMOLITIONS WITHIN THE PAILROAD'S RIGHT-OF-WAY ANDIOR DEMOLITION THAT MAY IMPROOF THE RALIKADOS TRAKES BRO DEFEATIONS SHALL BE IN COMPLIANCE WITH THE PAILROAD'S DEMOLITION GUIDELINES. ଚ
- 4) ERECTION OVER THE RALLEGAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTORY OF THE RALLEGAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTORY OT THE RALLEGAD'S PEGULINANE, ENVERING THE TRACK CENTERLINE TRACK THE PART HE RALLEGAD'S REQUIREMENTS.

 RALLEGAD REQUIREMENTS OF STALL OWNER WITHIN SEPET OF TRACK CENTERLINE WHEN TRAUM PASSES THE WORK SITE AND ALL PRESONNEL MUST CLEAR THE AREA WITHIN EXPERCE OLD FLALL COLOUR ELL COLUMBENT.

 SE FIET OF THE TRACK CENTERLINE NA POLICIE ALL CHARLEGAD SHALL BE VERFIED BEFORE PROJECT CLOSNIG.

 PRISENDENT CLEARANCES SHALL BE VERFIED BEFORE PROJECT CLOSNIG.

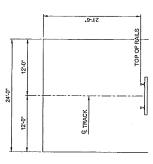
EROSION CONTROL AND DRAINAGE:

THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDMENT CONTING. AND WARE THE METHOD PROPROVED BY THE PARLACED. THE CONTRACTOR WILL INSTALL MAINTAIN, AND REMOYE LAERGOIN CONTING, MESSARES DEBINED NECESSARY WITHIN THE SALLROAD RIGHT OF

THE PROPOSED GRADGE SEPARATION PROJECT SHALL NOT INCREASE THE CUMNITY AND/OR CHARGACTERSTICS OF THE FLOW IN THE RAULROAD'S DICHES AND/OR DAILWAGE STRUCTIVES. THE CONTRACTOR WILL MAINTAIN THE FRUITS/AD DIRAWAGE AT ALL TIMES WHEN WORKING WITHIN THE RAILROAD RIGHT OF WAY.

RAIL TRAFFIC:

THE UNION PACIFIC RAILROAD COMPANY HAS 12 TRAINS PER DAY AT 48 MPH, ON THE ENID SUBDIVISION. RAIL TRAFFIC IS FOR INFORMATION PURPOSES ONLY. ACTUAL RAIL TRAFFIC MAY VARY.



UPRR FALSEWORK CLEARANCE DIAGRAM

CLEARANCE OF FALSEWORK RECUIRED BY R. R. FOR OPERATION DURING CONSTRUCTION. HORIZONE'S LAMBINGS SHOWN ARE MISSURED AT HORIZONE'S TOGET R. R. TRACK VERTICAL DIMEISSIONS SHOWN IS PERPENDICULAR TO PLANE OF TOP OF RAILS.

PRELIMINARY PLANS THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.
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			US 81 OVER UNION PACIFIC RAILROAD KINGFISHER COUNTY
DESIGN	-		OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN			
CHECKED			INION PACIFIC PAIL BOAT COMPANY NOTES
APPROVED			
SOUND MacArthur	MacAn	thur	STATE JOB NO. 29849(04) SHEET NO. 5

REVISIONS
REV.NO. DESCRIPTION DATE

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	QUANTITY																									
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IDGE "A"	NOTES	(BR-1)	(BR-1)	(BR-1, BR-2)	(BR-1)	(BR-1)	(BR-1)	(BR-1)	(BR-1, BR-3)	(BR-1, BR-4)	(BR-1)	(BR-1)	(BR-1)	(BR-1)	(BR-1)			(BR-5)	(BR-1)	(BR-6)	(BR-6)	(BR-1)	(BR-1, BR-7)	(BR-1, BR-8)	(8R-9)	(BR-10)
SUMMARY OF PAY QUANTITIES - BRIDGE "A"	DESCRIPTION	SUBSTRUCTURE EXCAVATION COMMON	CLSM BACKFILL	APPROACH SLAB	SAW-CUT GROOVING	SEALED EXPANSION JOINT	42" F-SHAPED PARAPET	STRUCTURAL STEEL	STAINLESS STEEL FIXED BEARING ASSEMBLY	STAINLESS STEEL EXPANSION BEARING ASSEMBLY	CLASS AA CONORETE	CLASS A CONCRETE	SLOPE WALL (5")	REINFORCING STEEL	EPOXY COATED REINFORCING STEEL	PILES, FURNISHED (HP 12X53)	PILES, DRIVEN (HP 12X53)	PILE SPLICE, H-PILE (NON-BIDDABLE)	WATER REPELLENT (VISUALLY INSPECTED)	DRILLED SHAFTS, 72" DIAMETER	CROSSHOLE SONIC LOGGING	SEALER CRACK PREPARATION	SEALER RESIN	8" PERFORATED PIPE UNDERDRAIN ROUND	6" NON-PERF, PIPE UNDERDRAIN RND.	REMOVAL OF EXISTING BRIDGE STRUCTURE
	ITEM NO.	1307	6309	1304	1305	6250	6190	1322	6170	6174	1326	1328	6138	1332	6010	6011	6294	6220	515(A) 6013	516(A) 6098	6200	6550	6560	6204	6207	1397
	ITEN	501(B)	501(G)	504(A)	504(B)	504(C)	504(E)	506(A)	507(A)	507(B)	509(A)	509(B)	510(C)	511(A)	511(B)	514(A)	501(B)	514(L)	515(A)	516(A)	516(C)	523(A)	523(B)	613(H)	613(1)	619(D) 1397

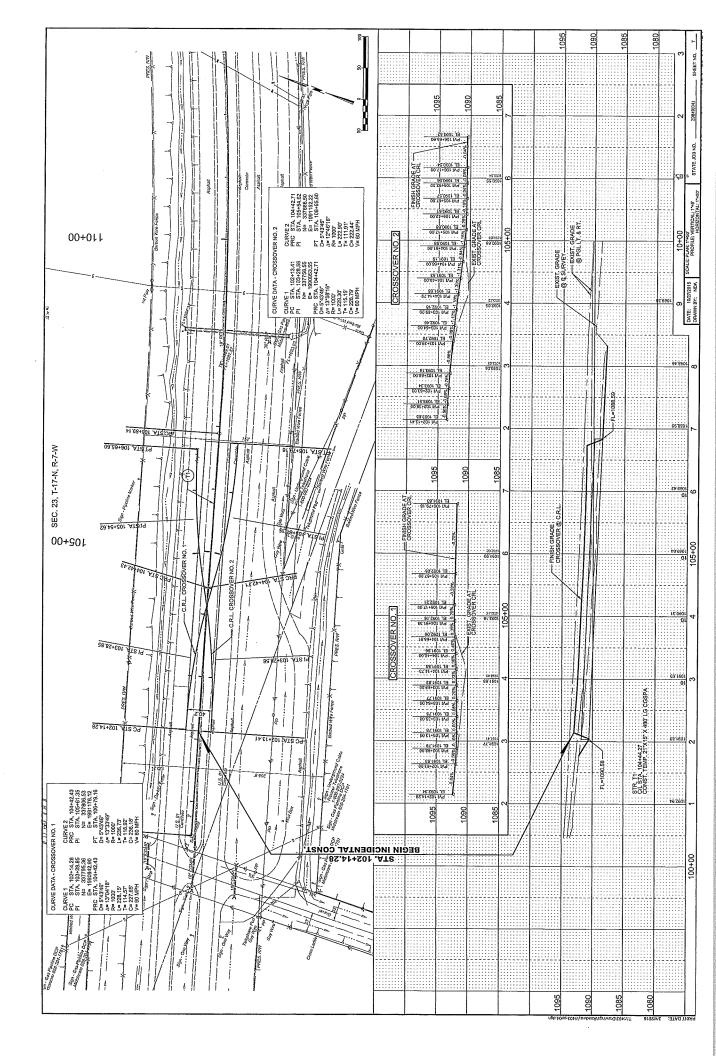
PAY QUANTITY NOTES

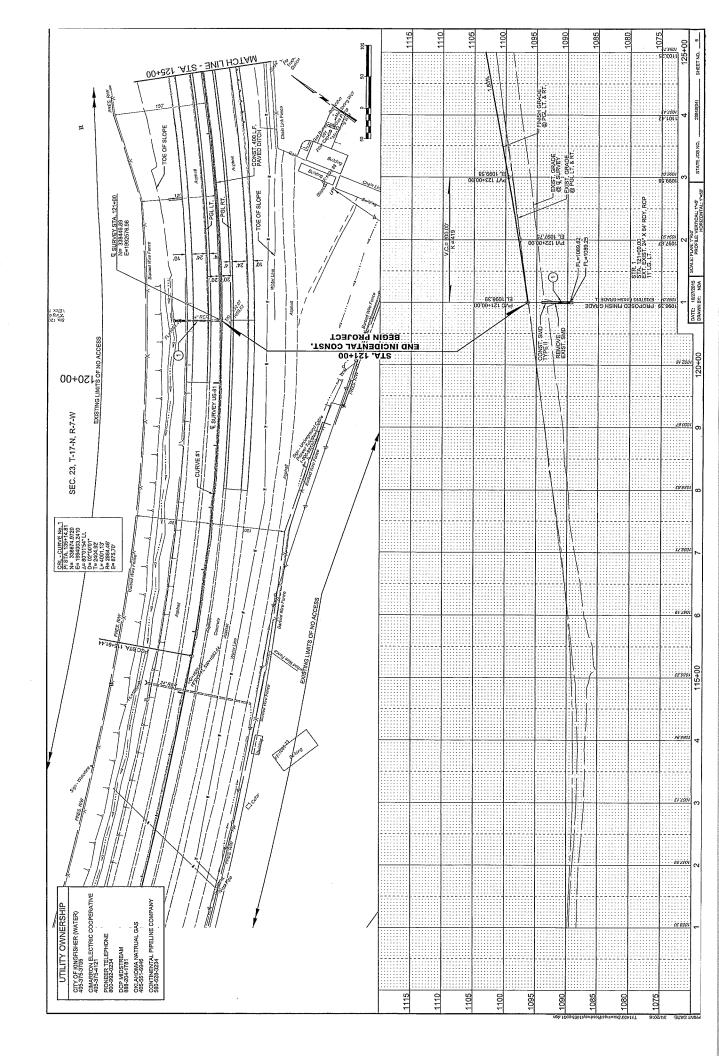
- (BR-1) PAYMENT FOR THESE ITEMS WILL BE BASED ON PLAN QUANTITY. SEE THE 2009 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (PLAN QUANTITIES 109.01(b)).
- (BR2) THE APPROACH SLABS CONTAIN AN ESTIMATED TOTAL OF 0 CY OF CLASS AA CONCRETE
 AND LLSS OF EPOXY COATED REINPOROUS STEEL. CHES RRIDGE W. AND AN ESTIMATED
 TOTAL OF 0 CY OF CLASS AA CONCRETE AND 0 LISS OF EPOXY COATED REINFORKUS STEEL
 FOR BRIDGE "1. THE DEPAYMENT IN INCLUSES THE COST OF CONCRETE, REINFORCING
 STEEL (INCLUDING FSE BARS), BACKER ROD, POLYSTYRENE, AND RAPID CURE JOINT
 SEALANT IN THE CONTRACT UNIT PRICE OF <u>APPROACH SLAB</u>.
- (BR-2) THE FIXED BEARING ASSENBLIES CONTAIN AN ESTIMATED TOTAL OF 0.LBS OF STAINLESS STEEL FOR EACH BRIDGE, THE DEPARATION INCLUDES THE COSTS OF ELASTOWRENC PADS, ANCHOR PALTES, BULL-LUP CONTACT ANGLES, AND ANCHOR BOLTS, NUTS AND WASHERS IN THE CONTRACT UNIT PRICE OF <u>STAINLESS STEEL FIXED BEARING ASSENBLY.</u>
 - (BR-4) THE EXPANSION BEARING ASSEMBLIES CONTAIN AN ESTIMATED TOTAL OF 0.168 OF STANLESS STEEL FOR EXCHAINIONE. THE OPEN TON HE COSTS TO A STANLESS STEEL FOR EXPONENCE AND ANOINE PAIRES, BUILTUP CONTAIN AND ANOINE BUILTUP TRICE OF STANLESS STEEL EXPANSION. BEARING SSENELL,
- (BR-5) THIS IS A NON-BIDDABLE PAY ITEM. PRICE FOR THIS ITEM SHALL BE ESTABLISHED IN THE PROPOSAL IN ACCORDANCE WITH SECTION 514.08 OF THE STANDARD SPECIFICATIONS.
- (8R-6) REFER ODOT SPECIAL PROVISION 516-3 OF THE ODOT STANDARD SPECIFICATIONS.
- (BR-7) QUANTITY SHOWN FOR SEALER RESIN IS ESTIMATED AT 0.011 GALLON PER FOOT OF CONSTRUCTION JOINT,

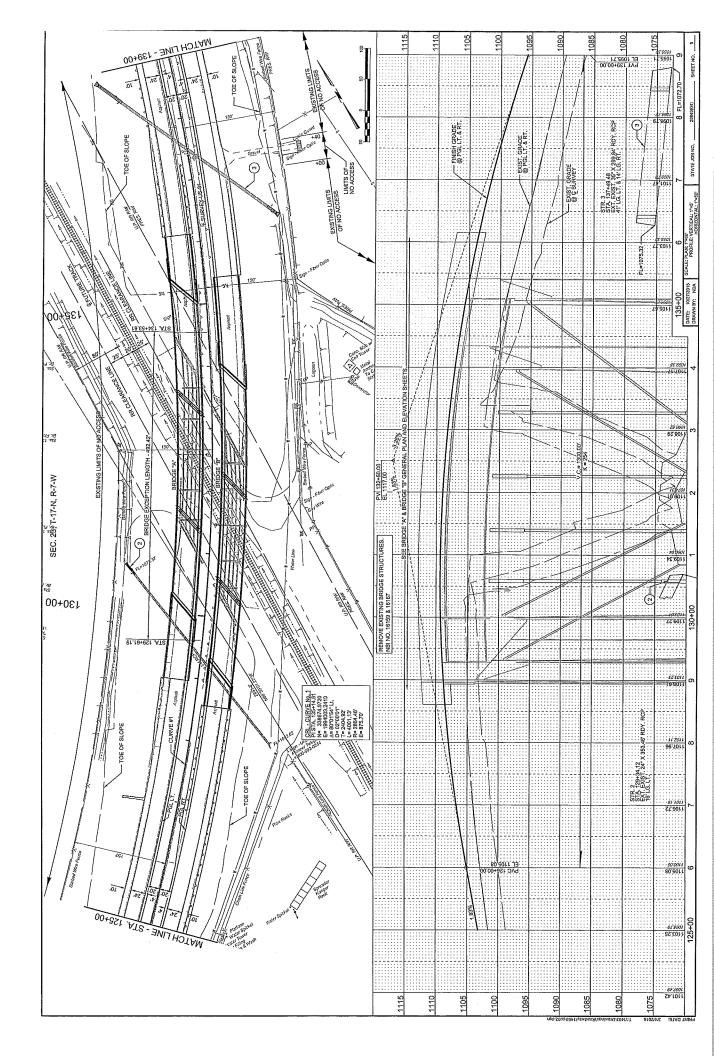
- | SUMMARY OF PAY QUANTITIES BRIDGE "B"
 | SUBSTRUCTURE EXCAVATION COMMON | GRA-1) | CY | CO | |
 | SOI(9) 1807 | GLSM BACKFILL | GRA-1) | CY | CO |
 | SOI(9) 1807 | GLSM BACKFILL | GRA-1) | CY | CO |
 | SOI(9) 1807 | GLSM BACKFILL | GRA-1) | CY | CO |
 | SOI(9) 1807 | GLSM BACKFILL | GRA-1) | CY | CO |
 | SOI(9) 1808 | SAM-LOT GROOMON | GRA-1 | SY | CO |
 | SOI(9) 1809 | SAM-LOT GROOMON | GRA-1 | CF | CO |
 | SOI(9) 1809 | STALLE EXPANSION JOINT | GRA-1 | CF | CO |
 | SOI(9) 1809 | STALLE EXPANSION BEARING ASSEMBLY | GRA-1, BR-1 | CF | CO |
 | SOI(9) 1726 | STANLESS STEEL EXPANSION BEARING ASSEMBLY | GRA-1, BR-1 | CY | CO |
 | SOI(9) 1726 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1726 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1726 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1726 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1726 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1727 | CLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1728 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1729 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
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 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF | CO |
 | SOI(9) 1720 | GLASS A CONCRETE | GRA-1 | CF
- (BR-8) ITEM INCLUDES PIPE UNDERDRAIN COVER MATERIAL IN THE QUANTITY OF 0 CY FOR ABUTHALIST ALL COST OF PRE UNDERDRAIN COVER METERALL, BOTHER AND CONTREI, AND EQUIPMENT AND EQUIPMENT AND EQUIPMENT AND EQUIPMENT AND EXCURPED FOR INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BIO FER IN INRA ROOF OF PREFECTIVED PIPE, UNDERDRAIN ROLLING. INSTALLATION SHALL BE AS SHOWN ON THE PANS AND ON STANDARD PIDA.
 - (BR-9) TEM INCLUDES TRENCH EXCANATION IN THE CUANTITY OF 0 OY FOR ABUTMENTS. ITEM ALSO INCLUDES STANDARD BEDDING MATERIAL IN THE CUANTITY OF 0 OY FOR ABUTMENTS. ALL COSTS OF TRENCH EXCANATION STRANDARS BEDDING MATERIAL. INCLUDED IN THE CUANTITY OF 0 OW TRENCH EXCANATION SHALL BE INCLUDED IN THE OWN PROTEINED FOR INCLUDED IN THE OWN PROTEINED FOR THE PLANS AND OW STANDARD PUCK.
- (BR-10) ITEM REMOVAL OF EXSTING BRIDGE STRUCTURE CONSISTS OF THE REMOVAL AND INDEPOSAL OF THE SUPERSTRUCTURE (6. STEEL, BEAM SPINS WITH 30 FT CLEAR ROADWAY) AND SUBSTRUCTURE IN ACCORDANCE WITH SECTION 6130.B.(2).
- (BR-11) TEBI REMOVAL OF ENSTING BRIDGE STRUCTURE CONSISTS OF THE REMOVAL AND DISCOBALCH THE SUPERSTANCIOURGE (C STREEL BEAM RANNS WITH 30 FT CLEAR ROADWAY) AND SUBSTRUCTURE IN ACCORDANCE WITH SECTION 679.04.8.(2).

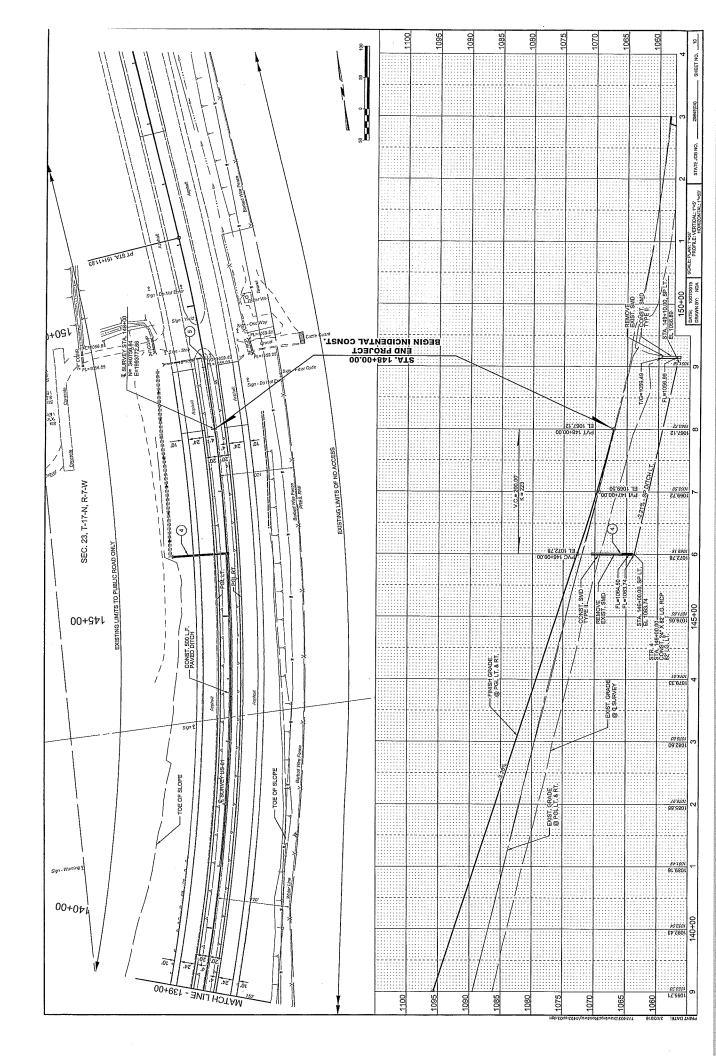
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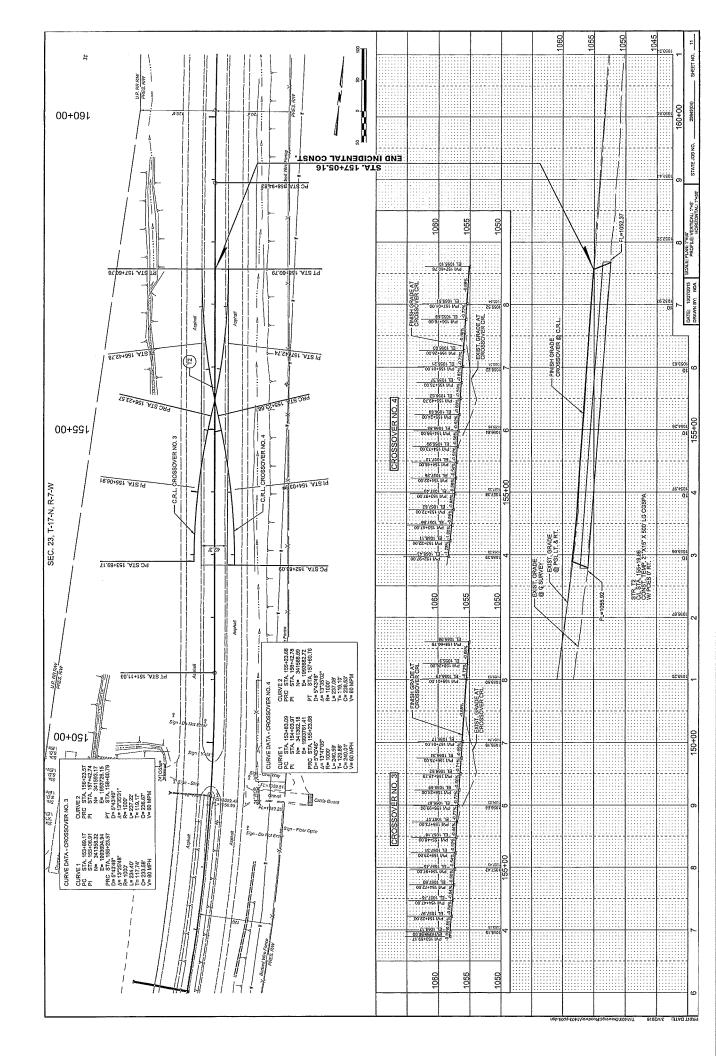
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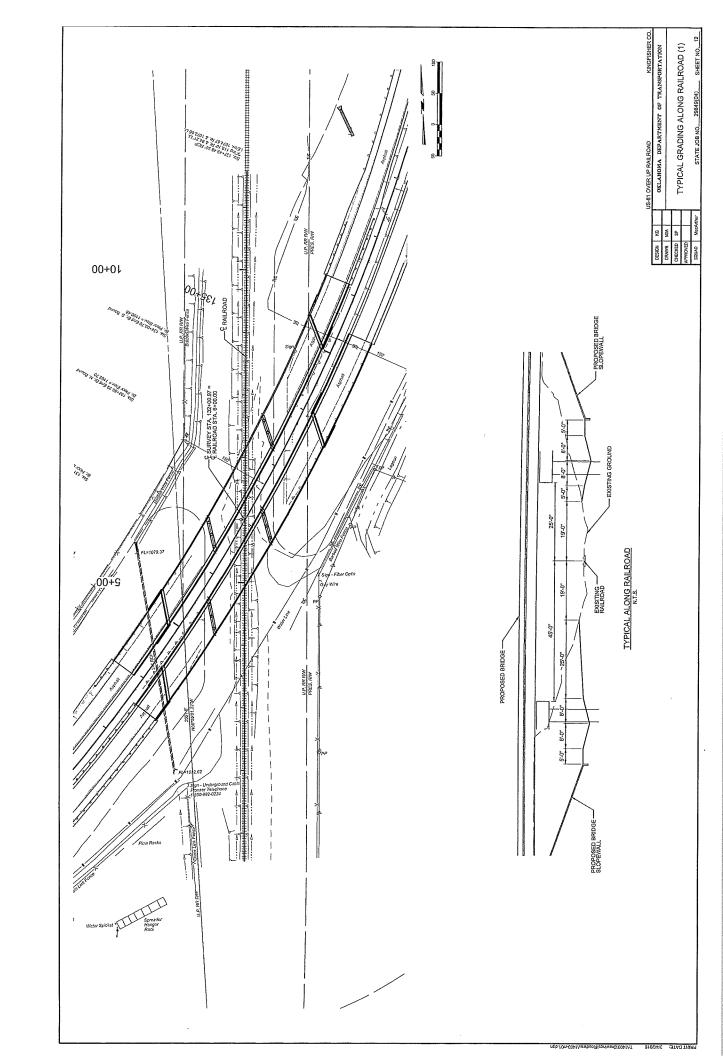


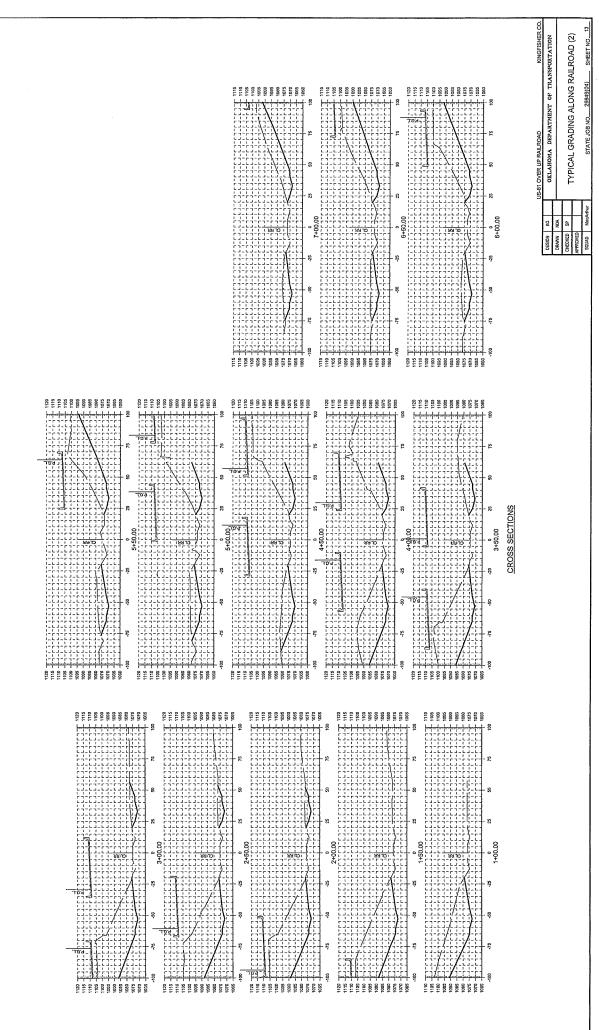




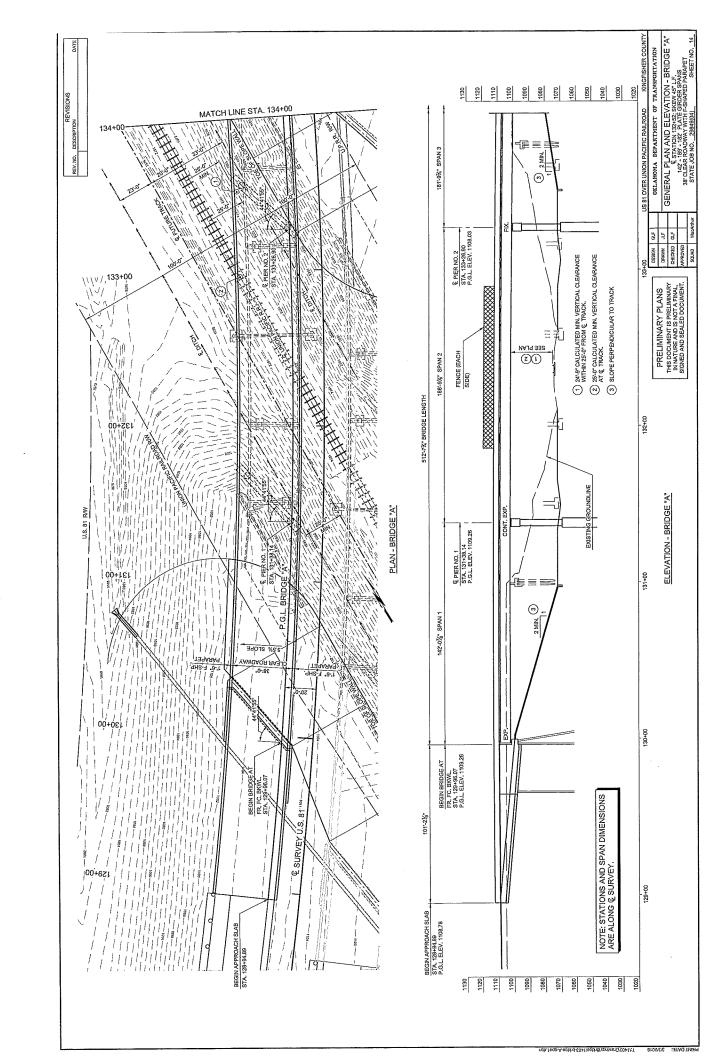


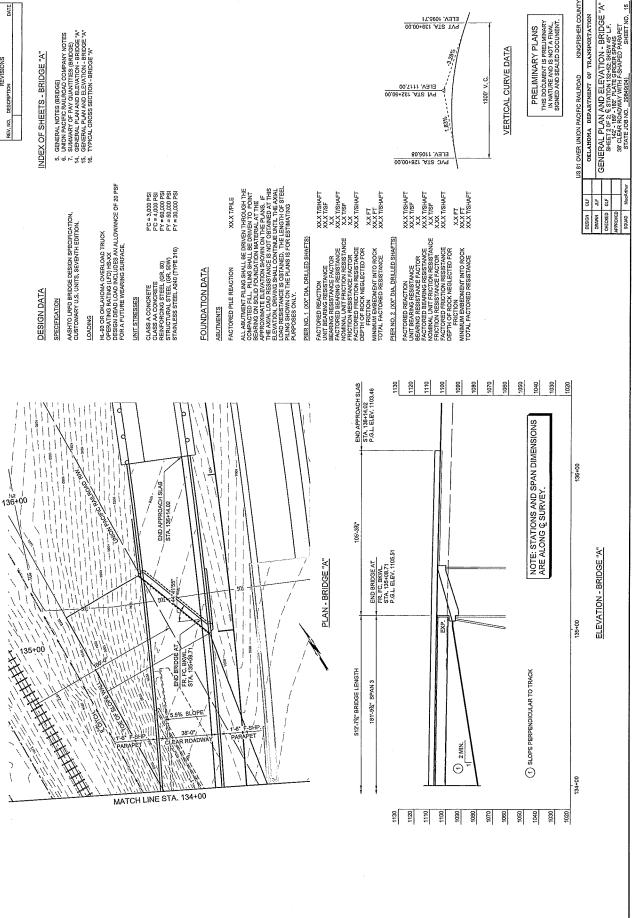






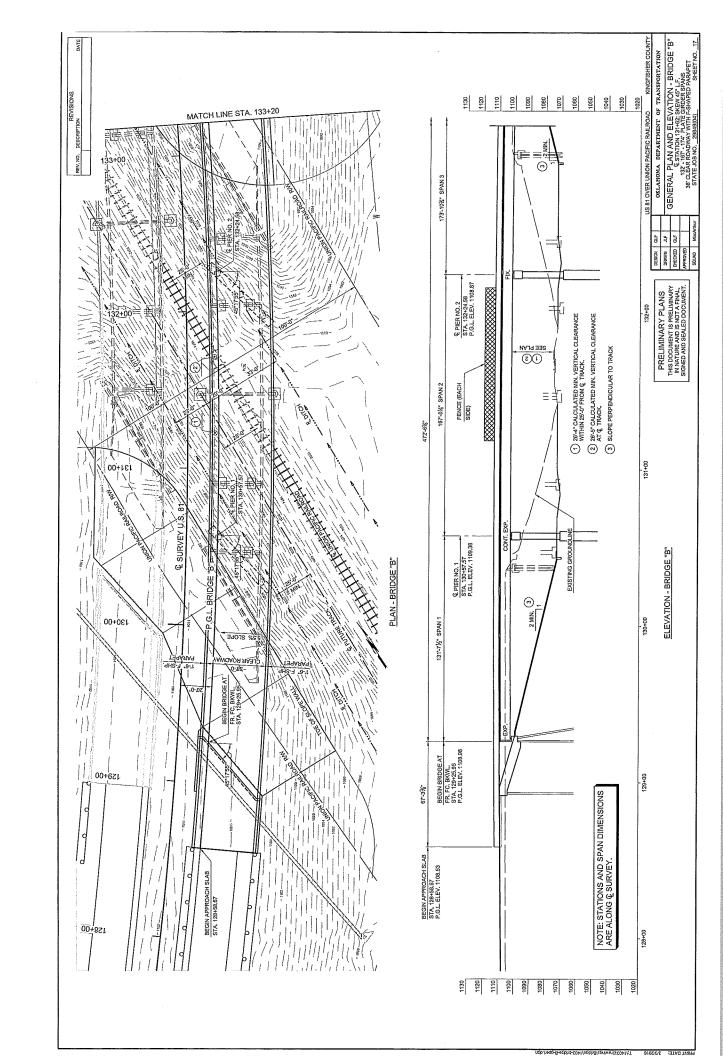
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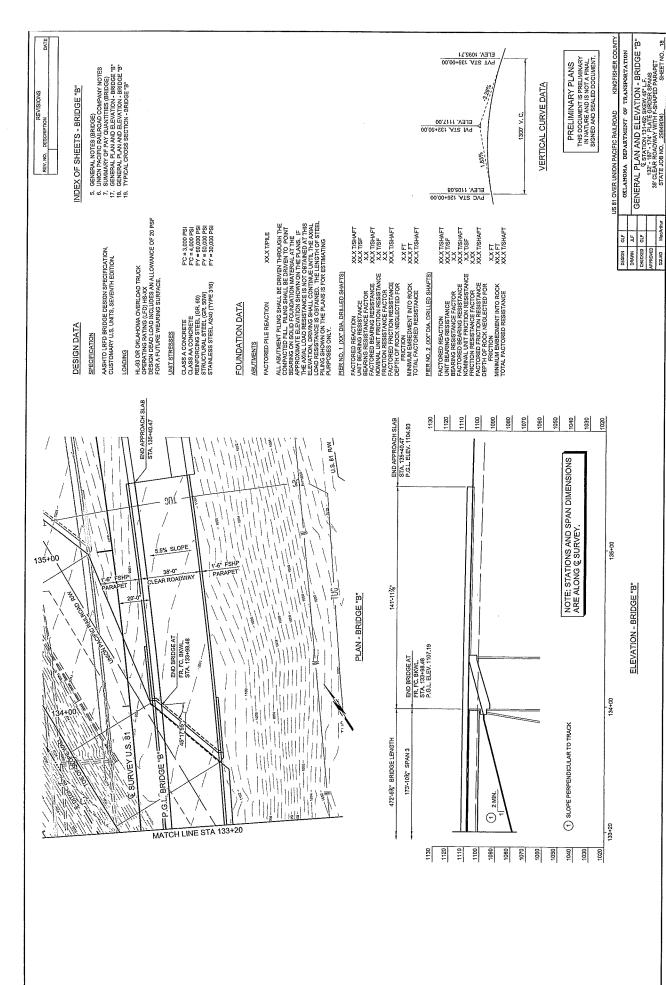




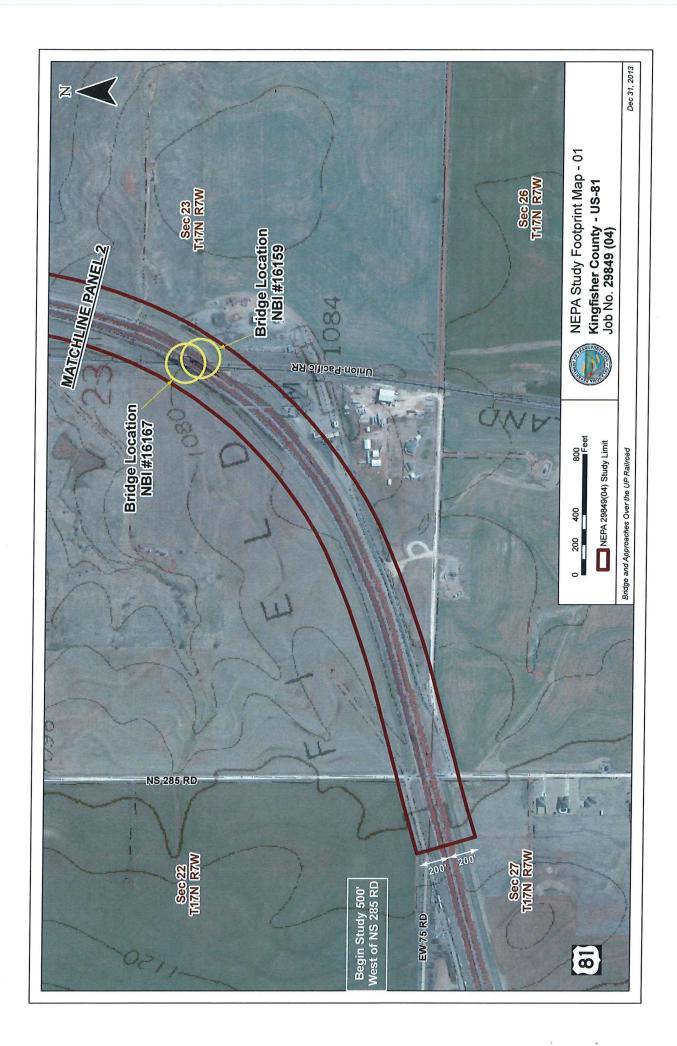
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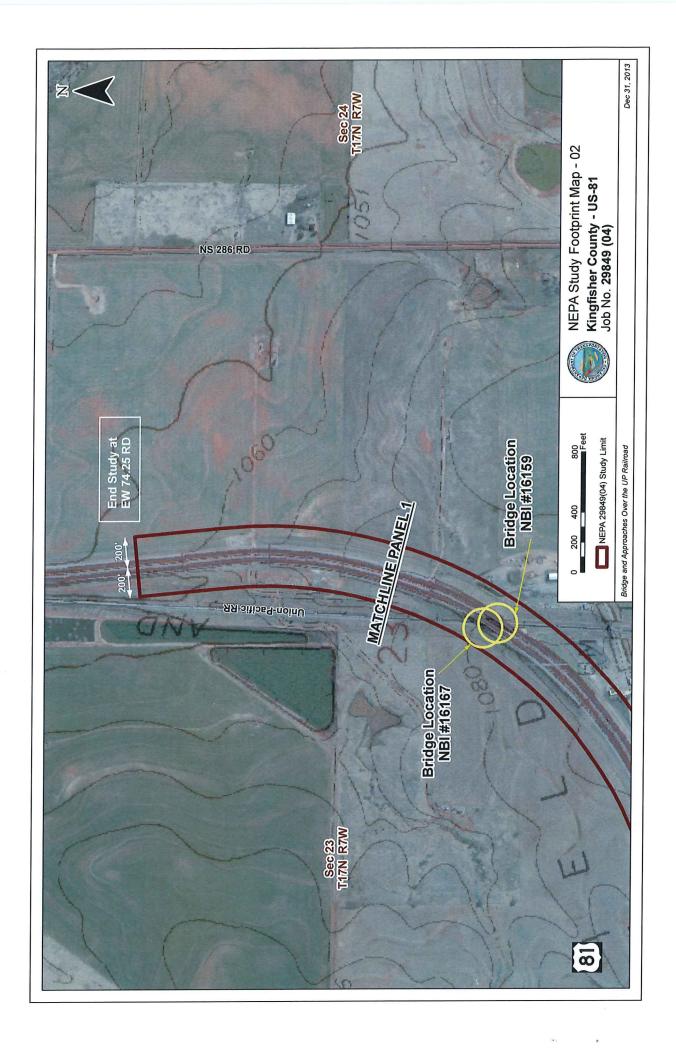
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US 81 OVER UNION PACIFIC RAILROAD KINGFISHER COUNTY
OKLAHOMA DEPARTMENT OF TRANSPORTATION PRELIMINARY PLANS
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Oklahoma Historical Society State Historic Preservation Office

Founded May 27, 1893

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

September 17, 2014

Mr. Scott Sundermeyer, Director ODOT Cultural Resources Program 111 East Chesapeake, Rm. 102, OU Norman, OK 73019

RE:

File #1978-14; Union Pacific US-81 Northbound & Southbound Bridge Replacements:

JP #29849(04)

Dear Mr. Sundermeyer:

We have received and reviewed the documentation submitted on the referenced project in Kingfisher 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 find that there are no known historic properties affected within the referenced project's area of potential effect.

In addition to our review, you must contact the Oklahoma Archeological Survey (OAS), 111 E. Chesapeake, #102, Norman OK 73019-5111 (#405/325-7211, FAX #405/325-7604), to obtain a determination about the presence of prehistoric resources that may be eligible for the National Register of Historic Places. Should the OAS conclude that there are no prehistoric archaeological sites or other types of "historic properties," as defined in 36 CFR Part 800.16(l), which are eligible for inclusion in the National Register of Historic Places within the project area and that such sites are unlikely to occur, we concur with that opinion.

The OAS may conclude that an on-site investigation of all or part of the project impact area is necessary to determine the presence of archaeological resources. In the event that such an investigation reveals the presence of prehistoric archaeological sites, we will defer to the judgment of the OAS concerning whether or not any of the resources should be considered "historic properties" under the Section 106 review process. If sites dating from the historic period are identified during the survey or are encountered during implementation of the project, additional assessments by the State Historic Preservation Office will be necessary.

Should further correspondence pertaining to this project be necessary, please reference the above underlined file number. If you have any questions please contact Catharine M. Wood, Historical Archaeologist, at 405/521-6381. Thank you

Sincerely,

Melvena Heisch Deputy State Historic Preservation Officer



Oklahoma Archeological Survey

THE UNIVERSITY OF OKLAHOMA

September 2, 2014

Scott Sundermeyer
Director, ODOT Cultural Resources Program
Oklahoma Department of Transportation
111 E. Chesapeake, Room 102
University of Oklahoma
Norman, OK 73019-5111

RE: Proposed bridge replacement on US-81 over the Union Pacific Railroad. Legal Description: Section 23, SE ¼ Section 22, NE ¼ Section 27, and NW ¼ Section 26T17N R7W, Kingfisher County, Oklahoma. J/P#29849(04).

Dear Mr. Sundermeyer:

A cultural resources report of investigations has been received by this agency on the above referenced project. This agency confirms the recommendations contained in the report. The review was conducted in cooperation with the State Historic Preservation Office, Oklahoma Historical Society.

Please contact this office at (405) 325-7211 if buried archaeological materials such as chipped stone tools, pottery, bone, historic crockery, glass, metal items, or building materials are exposed during construction activities.

In addition to our comment on the cultural resource inventory conducted for this project, under 36CFR Part 800.3 you are reminded of your responsibility to consult with the appropriate Native American tribe/groups for any concerns they may have pertaining to this report.

State Archaeologist

:ls

Cc: SHPO



111 E. Chesapeake, Room 102, University of Oklahoma Norman, OK 73019-5111

Phone: 405-325-7201/325-8665; FAX: 405-325-7604

August 29, 2014

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

Dear Ms. Heisch:

Re: Kingfisher County J/P 29849(04): Proposed replacement of the northbound and southbound US-81 bridges over the Union Pacific Railroad, 5.3 miles north of SH-33.

Attached is a cultural resources survey report for the referenced project prepared by the ODOT Cultural Resources Program. No archaeological sites or buildings were recorded or documented in the project study area, and the existing US-81 northbound and southbound bridges over the Union Pacific Railroad are of the type discussed in the Program Comment for post-1945 concrete and steel bridges and were therefore not documented.

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 me at 325-7201.

Scott Sundermever

Sincerety

Director, ODOT Cultural Resources Program

cc: State Archaeologist

OKLAHOMA DEPARTMENT OF TRANSPORTATION CULTURAL RESOURCES SURVEY REPORT

Prepared by: ODOT Cultural Resources Program

County:

Kingfisher

J/P Number:

29849(04)

Surveyed By: Survey Date: Kristina Wyckoff August 25, 2014 Prepared By: Report Date: Kristina Wyckoff August 29, 2014

1. PROJECT DESCRIPTION:

This report documents a cultural resources survey for the proposed replacement of the US-81 northbound and southbound bridges over the Union Pacific Railroad, 5.3 miles north of SH-33. The replacement bridges will be constructed on the existing alignment. Crossovers will be utilized to maintain traffic during construction. The existing bridges each consist of two 12-foot lanes with four-foot inside shoulders and 10-foot outside shoulders, and the replacement bridges will be built according to the same dimensions, but the grade will be raised approximately three feet for necessary clearance over the railroad.

The project study area, as defined, extends 1.17 miles (approximately 6,177 feet) along a northeasterly curved section of US-81 north of Kingfisher. The study area begins 450 feet west of County Road N285 and extends north and east to a point 0.25 mile (approximately 1,312 feet) south of County Road E740. The study area stretches 200 feet east and west of the existing US-81 centerline. In total, the project study area encompasses approximately 56.76 acres.

The existing northbound and southbound bridges over Kingfisher Creek (Structures 3704 0543 EX & WX; NBIs 16159 and 16167) are both steel I-beam structures constructed in 1964. These bridges are of the type discussed in the Program Comment for post-1945 concrete and steel bridges and were therefore not documented.

Legal Location:

T17N R7W Sections 22-23 and 26-27

U.S.G.S. Quadrangle:

Dover (1972)

2. TOPOGRAPHY AND VEGETATION:

The study area is mapped along a transition between the Central Red-Bed Plains and the Western Sand-Dune Belts. The Central Red-Bed Plains geomorphic province, is comprised of Permian red shales and sandstones which form gently-rolling hills and broad, flat plains; and the Western Sand-Dune Belts geomorphic province is comprised of hummocky fields of grass-covered, stabilized sand dunes with some active dunes. Sands are from quaternary alluvium and terrace deposits. The geology of the study area as mapped is entirely comprised of Quaternary Alluvium deposits of gravel, sand, silt, clay, and local gravel.

The vegetation of the study, as mapped, is Tallgrass Prairie, which intergrades with mixedgrass eroded plains in western Oklahoma. Forest and woodland vegetation quickly replace tallgrass prairie vegetation following abandonment or fire-suppression. Little bluestem, big bluestem, Indiangrass, and switchgrass are prominent tallgrass prairie grasses.

At the time of survey the study area consisted of cultivated fields, mixed-grass pastures, one industrial lot and one residential lot. All cultivated fields in the study area were cleared and plowed at the time of survey.

Vegetation Coverage:

XXX 0-25% Cultivated fields and scattered eroded areas in mixed-grass pasture.

XXX 50-75% Mixed-grass pasture

75-100%

General Soils Observations:

The study area, as mapped, is located in the Bethany-Norge soil association.

Soils observed in the field consisted, mostly, of dark-brown silt loam (approximately 0-10 centimeters below the surface [cmbs]) overlaying brown clay loam (0-30 cmbs) which overlay reddish-brown clay (30-50+ cmbs). In cultivated fields where the ground had been recently plowed, these soils were soft; however, mixed-grass pastures showed signs of bioturbation and soils were more compacted. Soils in the vicinity of the industrial and residential lots consisted of mottled medium-brown sandy clay and brownish-red clay intermixed with non-local gravels, asphalt, and chunks of consolidated sand.

3. PROJECT METHODOLOGY:

A. Background Research:

XXX State Site Files at Oklahoma Archeological Survey (OAS)

XXX SHPO NRHP and DOE Files

Native American Tribes and Nations Consulted by Procedures Established with FHWA and ODOT: Cheyenne and Arapaho Tribes, Osage Nation, United Keetoowah Band of Cherokees, Wichita and Affiliated Tribes

XXX Other sources:

1873 General Land Office (GLO) Original Survey Map (T17N R7W)

1892 Kingfisher 30' USGS Quadrangle

1895 Kingfisher 30' USGS Quadrangle

1936 Kingfisher County General Highway and Transportation Map

1940 Kingfisher County General Highway and Transportation Map

1951 Kingfisher County USDA aerial photograph (OH-7H-147)

1957 Kingfisher County USDA aerial photograph (OH-6T-59)

1963 Kingfisher County General Highway and Transportation Map

1971 Kingfisher County General Highway and Transportation Map

1972 Dover 7.5' USGS Quadrangle

1972 (PR 1983) Kingfisher 7.5' USGS Quadrangle

1972 Loyal 7.5' USGS Quadrangle

1972 Loyal SE 7.5' USGS Quadrangle

1983 Kingfisher County General Highway and Transportation Map

Brooks, Robert L.

1983 Resource Protection Planning Process Management Region 5. Report submitted to the State Historic Preservation Office Oklahoma Historical Society. Unpublished manuscript on file at the Oklahoma Archeological Survey, Norman.

Brooks, Robert L.

2005 Oklahoma Atlas of Archaeological Sites and Management Activities. http://www.ou.edu/cas/archsur/Atlas/atlas.htm accessed online May 12, 2014.

1959 Soil Survey Kingfisher County, Oklahoma. United States Department of Agriculture, Soil Conservation Service, and Oklahoma Experiment Station. U.S. Government Printing Office, Washington, D.C.

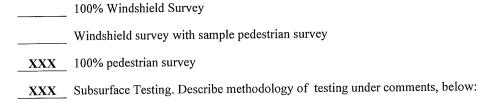
RESULTS OF BACKGROUND RESEARCH:

A review of the Oklahoma Archeological Survey (OAS) maps and site files indicates that no previously-recorded archaeological sites are located within the project study area or within the one-mile vicinity.

Beyond the one-mile vicinity of the study area, twenty-two previously-recorded prehistoric archaeological sites are located in the general area of the project, specifically on the OAS Kingfisher, Dover, Kingfisher NE, Kingfisher SE, Loyal, and Loyal SE quadrangles. These sites are generally located on terraces, low rises, and low ridges along major drainages and minor drainages near their confluence with major drainages, especially Uncle John's Creek, Indian Creek, Clear Creek, Campbell Creek, Walnut Creek, Kingfisher Creek, and Cooper Creek, and along small unnamed drainages which feed into the south bank of the Cimarron River. According to the Oklahoma Atlas of Archaeological Sites and Management Activities, in 2004, 37 sites had been recorded in Kingfisher County as a whole (Brooks 2005). At that time, the recorded sites included one Paleoindian site, two Archaic sites, two Woodland sites, 15 Village Farming sites, and eight historic sites (Brooks 2005). Currently 53 sites have been recorded in Kingfisher County. Brooks includes Kingfisher County in "Region 4" of his Resource Protection Planning Process Management manuscript. "Region 4" consists of Oklahoma's southern mixed-grass and tallgrass prairie and includes sites from Paleoindian, Archaic, Woodland, Village Farming, Protohistoric, and historic periods. Brooks notes this region has yielded evidence of the oldest-known human occupations in Oklahoma, specifically, excavations at the Cooperton site in Kiowa County and the Domebo Site in Caddo County are two Paleoindian mammoth kill sites dating between 11,200 and 20,000 years ago (Brooks 1983:5). In 1983, more Paleoindian sites and more Archaic sites had been recorded in region 4 than in any other region of the state (Brooks 1983:17, 28).

Nineteenth and 20th century archaeological sites are generally recorded where occupations are indicated on historic maps or aerial photographs. Though no buildings are indicated in the study area on the 1873 GLO, the "Fort Sill and Arkansas City Road" is indicated beyond the project study area boundary, but suggests activity in the general area during the latter half of the 19th century. One non-extant building is indicated in the project study area boundary on the 1895 Kingfisher quadrangle. This building is not indicated in the remaining historic maps or aerial photographs and the mapped location is bisected by an access road along the south side of the existing US-81 roadway in the SW ¼ of Section 23. This area could represent a late 19th century archaeological site and will be located in the field, inspected, and shovel tested for archaeological materials. No other non-extant structures are indicated in the project study area on historic maps or aerial photographs.

B. Field Investigation Methodology:



FIELD INVESTIGATION METHODOLOGY COMMENTS:

The entire study area was subjected to pedestrian archaeological survey with shovel tests placed in areas of poor surface visibility. Based on the background research, the few prehistoric archaeological sites present in the general area of the project tend to be located on terraces, low rises, and low ridges overlooking major drainages and minor drainages near their confluence with major drainages. Because of the increased likelihood for prehistoric archaeological sites to occur in these locations in the general area of the project, all terraces and rises in the study area were be shovel tested for evidence of archaeological materials. The location of the building indicated on the 1895 Kingfisher quadrangle was identified in the field, inspected, and shovel tested for evidence of archaeological materials. Additionally, all creek banks, eroded areas, and road cuts were inspected for evidence of archaeological materials or buried soils.

4.	RESULTS OF IN	IVESTIGATION:
	XXX	No archeological sites or buildings recorded in study area.
		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.
		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)
	COMMENT	S AND DESCRIPTION OF FINDINGS:
	the 1895 Kins	gical sites were identified during this investigation. The area where a building was indicated on gfisher quadrangle was identified in the field, inspected, and shovel tested; however, no evidence fical materials or features was observed at this location.
	10 cmbs) ove mixed-grass cultivated fiel clay loam (ap of the industr	g indicted soils in the study area generally consisted of dark-brown silt loam (approximately 0-crlaying brown clay loam (10-30 cmbs) which overlay reddish-brown clay (30-50+ cmbs). In pastures, which showed signs of heavy bioturbation, these soils were more compacted. In lds where the ground had been recently plowed, these soils were soft and consisted of brown silty oproximately 0-30 cmbs) overlying the reddish-brown clay (30-50+ cmbs). Soils in the vicinity rial and residential lots consisted of mottled medium-brown sandy clay and brownish-red clay ith non-local gravels, asphalt, and chunks of consolidated sand.
	deposits, and and agricultu area would la	ca is in an unfavorable setting for the presence and preservation of intact, buried archaeological has been extensively disturbed by road construction, pipeline construction, utility emplacements, ral and pastoral activities. Any archaeological sites that would be present within the project study ack sufficient integrity of location and association to be able to address important questions of history (36 CFR 60.4).
5.	RECOMMENDA	ATIONS:
		Plan Notes requiring avoidance of cultural resources in off-project areas
	XXX	Approval to proceed 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 Archeologist 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 Archeological Test Excavations
Implementation of MOA with SHPO regarding Mitigation of Adverse Effects to

COMMENTS REGARDING RECOMMENDATIONS:

No significant properties will be affected through the proposed project as field investigations encountered no archaeological materials or features, and an archival review did not identify archaeological properties (36 CFR 800.16(1)).

In accordance with 36 CFR 800.16(1) ODOT finds that the study area does not contain historic properties. In the event that unanticipated archaeological deposits are encountered during construction, work in the immediate area will cease and the Department Archaeologist will be contacted to initiate post-review discoveries, in accordance with Section 107.09, Standard Specifications for Highway Construction.

In accordance with 36 CFR 800.4, an ODOT archaeologist made a reasonable and good faith effort to evaluate the potential for the proposed undertaking to affect archaeological historic properties.

Pursuant to 36 CFR 800.4(d)(1), it is our opinion there are no historic properties affected. We recommend that the project proceed as planned.

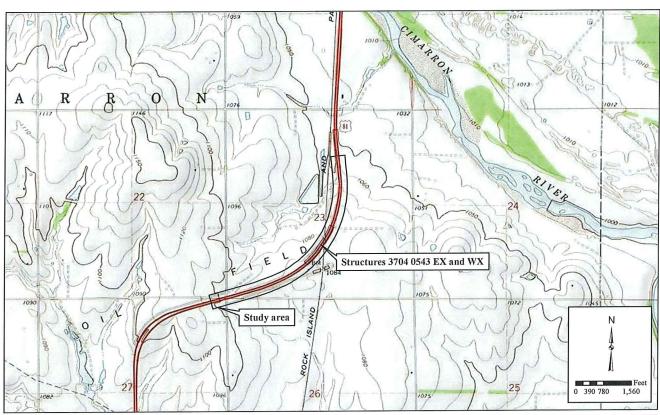


Figure 1. Kingfisher County JP 29849(04): Replacement of US-81 northbound and southbound bridges over the Union Pacific Railroad.

Basemap: Dover (1972) T17N R7W Sections 22-23 and 26-27.



111 E. Chesapeake, Room 102, University of Oklahoma Norman, OK 73019-5111

Phone: 405-325-7201/325-8665; FAX: 405-325-7604

June 10, 2014

Cheyenne and Arapaho Tribes Attn: Governor P.O. Box 167 Concho, OK 73022

Dear Governor:

Re: Kingfisher County proposed bridge replacement and approach improvements on U.S. 81 (northbound and southbound) over the Union Pacific Railroad (existing alignment); JP# 29849(04)

Pursuant to \$800.2(c)(2) of the Rules and Regulations implementing Section 106 of the National Historic Preservation Act, the Oklahoma Department of Transportation is initiating consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the above referenced Federal-Aid undertaking.

Enclosed, please find a map of the project location. If this undertaking is likely to affect properties of religious and cultural significance to your tribe, please notify me as soon as possible. In order to provide the most thorough consideration of properties in the planning process, we would greatly appreciate your response to this request within 30 days. When responding, please include the county in which the project is taking place and the Job Piece number (JP#) on all correspondence. If the information that you are providing is of a sensitive nature, please rest assured that we will respect your wishes regarding the confidentiality of information provided in response to this request.

The Oklahoma Department of Transportation's Cultural Resources Program, or an independent consulting firm working on our behalf, will conduct a cultural resources survey of the proposed project area. 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 \$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 to review upon its completion.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.325.8665 or by email at rsfair@ou.edu.

Sincerely,

Rhonda S. Fair, Ph.D.

Tribal Liaison

ODOT Cultural Resources Program

cc: Margaret Anquoe, Acting THPO



111 E. Chesapeake, Room 102, University of Oklahoma Norman, OK 73019-5111

Phone: 405-325-7201/325-8665; FAX: 405-325-7604

September 4, 2014

Cheyenne and Arapaho Tribes Attn: Governor Eddie Hamilton P.O. Box 167 Concho, OK 73022

Dear Governor Hamilton:

Re: Kingfisher County proposed northbound and southbound bridge replacements and approach improvements on U.S. 81 over the Union Pacific railroad; JP# 29849(04)

Pursuant to \$800.2(c)(2) of the Rules and Regulations implementing Section 106 of the National Historic Preservation Act, the Oklahoma Department of Transportation is continuing consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the above referenced Federal-Aid undertaking.

The Oklahoma Department of Transportation's Cultural Resources Program, or an independent consulting firm working on our behalf, conducted a cultural resources survey of the proposed project area. A copy of this report is enclosed and describes our efforts to identify historic properties that may be affected by the proposed undertaking.

No archaeological sites or buildings were recorded or documented in the project's study area. 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 is likely to affect properties of religious and cultural significance to your tribe, please notify me as soon as possible. In order to provide the most thorough consideration of properties in the planning process, we would greatly appreciate your response to this request within 30 days. When responding, please include the county in which the project is taking place and the Job Piece number (JP#) on all correspondence. If the information that you are providing is of a sensitive nature, please rest assured that we will respect your wishes regarding the confidentiality of information provided in response to this request.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.325.8665 or by email at rsfair@ou.edu.

Sincerely,

Rhonda S. Fair, Ph.I

Tribal Liaison

ODOT Cultural Resources Program

cc: Margaret Anquoe, Acting THPO



111 E. Chesapeake, Room 102, University of Oklahoma Norman, OK 73019-5111

Phone: 405-325-7201/325-8665; FAX: 405-325-7604

June 10, 2014

Osage Nation Attn: Principal Chief Scott BigHorse 627 Grandview Pawhuska, OK 74056

Dear Principal Chief BigHorse:

Re: Kingfisher County proposed bridge replacement and approach improvements on U.S. 81 (northbound and southbound) over the Union Pacific Railroad (existing alignment); JP# 29849(04)

Pursuant to §800.2(c)(2) of the Rules and Regulations implementing Section 106 of the National Historic Preservation Act, the Oklahoma Department of Transportation is initiating consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the above referenced Federal-Aid undertaking.

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If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.325.8665 or by email at rsfair@ou.edu.

Sincerely,

Rhonda S. Fair, Ph. D Tribal Liaison

ODOT Cultural Resources Program

cc: Barker Farris



111 E. Chesapeake, Room 102, University of Oklahoma Norman, OK 73019-5111

Phone: 405-325-7201/325-8665; FAX: 405-325-7604

September 4, 2014

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

Dear Principal Chief Standing Bear:

Re: Kingfisher County proposed northbound and southbound bridge replacements and approach improvements on U.S. 81 over the Union Pacific railroad; JP# 29849(04)

Pursuant to \$800.2(c)(2) of the Rules and Regulations implementing Section 106 of the National Historic Preservation Act, the Oklahoma Department of Transportation is continuing consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the above referenced Federal-Aid undertaking.

The Oklahoma Department of Transportation's Cultural Resources Program, or an independent consulting firm working on our behalf, conducted a cultural resources survey of the proposed project area. A copy of this report is enclosed and describes our efforts to identify historic properties that may be affected by the proposed undertaking.

No archaeological sites or buildings were recorded or documented in the project's study area. 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 is likely to affect properties of religious and cultural significance to your tribe, please notify me as soon as possible. In order to provide the most thorough consideration of properties in the planning process, we would greatly appreciate your response to this request within 30 days. When responding, please include the county in which the project is taking place and the Job Piece number (JP#) on all correspondence. If the information that you are providing is of a sensitive nature, please rest assured that we will respect your wishes regarding the confidentiality of information provided in response to this request.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.325.8665 or by email at rsfair@ou.edu.

Sincerely,

Rhonda S. Fair, Ph.D

Tribal Liaison

ODOT Cultural Resources Program

cc: Historic Preservation Office



111 E. Chesapeake, Room 102, University of Oklahoma Norman, OK 73019-5111

Phone: 405-325-7201/325-8665; FAX: 405-325-7604

June 10, 2014

United Keetoowah Band of Cherokees Attn: Chief George Wickcliffe P.O. Box 746 Tahlequah, OK 74465

Dear Chief WIckcliffe:

Re: Kingfisher County proposed bridge replacement and approach improvements on U.S. 81 (northbound and southbound) over the Union Pacific Railroad (existing alignment); JP# 29849(04)

Pursuant to §800.2(c)(2) of the Rules and Regulations implementing Section 106 of the National Historic Preservation Act, the Oklahoma Department of Transportation is initiating consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the above referenced Federal-Aid undertaking.

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The Oklahoma Department of Transportation's Cultural Resources Program, or an independent consulting firm working on our behalf, will conduct a cultural resources survey of the proposed project area. 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 §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 to review upon its completion.

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Sincerely,

Rhonda S. Fair, Ph.D.

Tribal Liaison

ODOT Cultural Resources Program

cc: Lisa C. Baker

Fair, Rhonda S.

From:

Lisa LaRue-Baker - UKB THPO <ukbthpo-larue@yahoo.com>

Sent:

Thursday, June 12, 2014 7:14 AM

To:

Fair, Rhonda S.

Cc:

verna; Ernestine Berry

Subject:

Re: Kingfisher County JP# 29849(04) initial consultation

Hi Rhonda! Doing well! Hope you are, too!

The United Keetoowah Band of Cherokee Indians in Oklahoma has reviewed your project under Section 106 of the NHPA, and at this time, have no comments or objections. However, if any human remains are inadvertently discovered, please cease all work and contact us immediately.

Thank you,

Lisa C. Baker

Acting THPO United Keetoowah Band of Cherokee Indians in Oklahoma PO Box 746 Tahlequah, OK 74465

c 918.822.1952 ukbthpo-larue@yahoo.com

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On Tuesday, June 10, 2014 10:35 AM, "Fair, Rhonda S." < rsfair@ou.edu > wrote:

Dear Lisa,



111 E. Chesapeake, Room 102, University of Oklahoma Norman, OK 73019-5111

Phone: 405-325-7201/325-8665; FAX: 405-325-7604

September 4, 2014

United Keetoowah Band of Cherokees Attn: Chief George Wickcliffe P.O. Box 746 Tahlequah, OK 74465

Dear Chief Wickcliffe:

Re: Kingfisher County proposed northbound and southbound bridge replacements and approach improvements on U.S. 81 over the Union Pacific railroad; JP# 29849(04)

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Sincerely,

Rhonda S. Fair, Ph.I

Tribal Liaison

ODOT Cultural Resources Program

cc: Lisa C. Baker

Fair, Rhonda S.

From:

Lisa LaRue-Baker - UKB THPO <ukbthpo-larue@yahoo.com>

Sent:

Thursday, September 11, 2014 1:52 PM

To:

Fair, Rhonda S.

Cc:

verna; eberry@unitedkeetoowahband.org

Subject:

Re: Kingfisher County JP# 29849(04) CR report

The United Keetoowah Band of Cherokee Indians in Oklahoma has reviewed your project under Section 106 of the NHPA, and at this time, we have no objection or comments. However, if any inadvertent discoveries of human remains are made, please cease all work and contact us immediately.

Thank you,

Lisa C. Baker

Acting THPO
United Keetoowah Band of Cherokee Indians in Oklahoma
PO Box 746
Tahlequah, OK 74465

c 918.822.1952 ukbthpo-larue@yahoo.com

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Please FOLLOW our historic preservation page and LIKE us on FACEBOOK

On Thursday, September 4, 2014 11:59 AM, "Fair, Rhonda S." <ra>rsfair@ou.edu</r>> wrote:

Dear Lisa,

Last one for the day!



111 E. Chesapeake, Room 102, University of Oklahoma Norman, OK 73019-5111 Phone: 405-325-7201/325-8665; FAX: 405-325-7604

June 10, 2014

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

Dear President Parton:

Re: Kingfisher County proposed bridge replacement and approach improvements on U.S. 81 (northbound and southbound) over the Union Pacific Railroad (existing alignment); JP# 29849(04)

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ODOT Cultural Resources Program

cc: Historic Preservation Office



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Sincerely,

Rhonda S. Fair, Ph.D.

Tribal Liaison

ODOT Cultural Resources Program

cc: Historic Preservation Office



Oklahoma Department of Transportation NEPA SUMMARY FORM

Endangered Species Act Section 7 Biological Assessment Bald Eagle Assessment,

Swallow Assessment

and

Jurisdictional Waters and Wetlands Evaluation

County: Kingfisher	
J/P Number: 29849(04)	

Report Prepared by: James K. Teague USFWS Concurrence Date: none required Form Prepared by: James K. Teague

NEPA PM: Tim Vermillion Project Number: J2-9849(004)

Report Submitted Date: June 25, 2014

ROW or Let Date: FFY 2020

Date: June 25, 2015

Project Description: 1.

Project Name: US-81 UP Railroad

Work Description: Bridge and Approaches on the existing alignment b.

Footprint acreage: 65.233 acres c.

Federally Listed Species Effect Determinations: USFWS #: 02EKOK00-2014-SLI-1006

NOTE: Within 90 days of construction, a current species list must be requested to determine if any changes to federally-listed species have occurred since the original ESA section 7 consultation. If changes have occurred, further consultation may be required.

changes have occurred, furth		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	USFWS Concurrence
Species	<u>Listing</u> <u>Status</u>	Effect Determination & Concurrence	Requirements
Interior Least Tern	Endangered	No Effect	None
Whooping Crane	Endangered	No Effect	None
Arkansas River shiner	Threatened	No Effect	None
Piping Plover	Threatened	No Effect	None
Red Knot	Proposed	No Effect	None

3.	Bald Eagle Assessment:x not expected to impact or may impact
4.	Swallow Assessment: may not impact orx will likely impact
5.	Migratory Birds: species that are present during the breeding season will be addressed implementing measures, designed in coordination with the USFWS, to avoid impacts to accomplement of the coordination with the USFWS, to avoid impacts to accomplement of the coordination with the USFWS, to avoid impacts to accomplement of the coordination with the USFWS, to avoid impacts to accomplement of the coordination with the USFWS, to avoid impacts to accomplement of the coordination with the USFWS, to avoid impacts to accomplement of the coordination with the USFWS.

- by nests. This will be done prior to project letting and any appropriate plan notes will be provided at that time.
- NEPA Commitments: 6.
 - Surveys: None Required

Habitat Conservation: None Required b.

Swallow and other migratory bird nesting on transportation structures c.

NBI/Station number/Coordinates	check if need to protect	check if need to re-survey
RCB culvert at (35.9282N, 97.9225W)	х	
(NBI#: 16159)	х	
US-81 S. Bound bridge	X	

Swallow Plan Note:

Cliff Swallows and Barn Swallows are small colonial nesting birds protected by the federal Migratory Bird Treaty Act. These species commonly use bridges and culverts for nesting. Swallow use of an RCB culvert at (35.9282N, 97.9225W) as well as the north and south bound US-81 bridges over the UP railroad (NBI#s: 16159 and 16167) in this project has been observed. In order to avoid impacts to swallows, work on these structures must be completed between September 1, and March 31, when nests are not occupied. If work cannot be completed between September 1 and March 31, the structures must be protected from new nest establishment prior to April 1, by means that do not result in death or injury to these birds. Options include the exclusion of adult birds from suitable nest sites on or within a structure by the placement of netting prior to April 1. Methods other than netting must be pre-approved by the ODOT Biologist.

Waters and Wetlands Evaluation: 7.

Wetlands and Ponds:

Number of Field Sites	Type of Wetland or Pond	Cowardin Classification	Potential Jurisdictional Status	Acres within Environmental Study Footprint
	Palustrine, unconsolidated bottom	PUB3C- palustrine, unconsolidated bottom, mud bottom, seasonally flooded	Not Jurisdictional	0.174

Streams and Drainages:

Number of Field Sites	Stream Name	USGS Mapped Status	Potential Jurisdictional Status	Acres within Environmental Study Footprint	Linear Feet within Environmental Study Footprint
7	Unnamed tributaries	Unmapped, ephemeral	Not Jurisdictional	1.639	3,769

ENDANGERED, THREATENED AND CANADATE SPECIES, DESIGNATED CRITICAL HABITAT, BALD EAGLE AND SWALLOW ASSESSMENT

For

County	Kingfisher	JP Number	29849(04)	Project Number	J2-9849(004)
Road Number	US-81	Water Body	Name	None (UP	Railroad)
ROW Date	N/A	Let Date	FFY 2020	Project Length	1.25 miles
Project General Location		Approxima	tely 5.3 miles n	orth of SH-33	3
Project Statement		Bridge and	Approaches or	the existing	alignment

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

Prepared by:

Biologist Name	James K. Teague
Company/Agency Name	ODOT Biological Studies Program at OU
Address	111 E. Chesapeake St.
City, State Zip	Norman, OK 73019
Report Date:	June 25, 2014
Field Survey Date	June 24, 2014
Field Survey Biologist(s)	James K. Teague

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

Project Type	Check √
Bridge and Approaches or bridge widening/structure extension	V
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 facility and reason for proposed project

The existing stretch of US-81 is a four lane, divided facility with 12ft lanes, 10ft outside shoulders, and 4ft inside shoulders. The median width is approximately 30ft. The project area occurs in a flat, rural section of Kingfisher County. Approximately 5,000 vehicles use the roadway each day. The Union Pacific railroad bridges (NBI#s: 16159 and 16167) are not considered deficient but are at risk.

Description of proposed improvements

The ODOT proposes to replace the existing north and southbound bridges on the current alignment within the existing right-of-way. The new bridges will be steel girder spans built approximately 3ft higher than the existing bridges. Pier protection at the bridges will be needed. The roadway will remain open during construction operations using crossovers approximately 0.5 miles north and south of the bridges to divert traffic. The project is needed to prevent the bridges from becoming structurally deficient.

In-water Work Expected as part of the proposed action	YES	NO
III-water work Expected as part of the part	V	

Project Area and Setting 1.3.

Project Location		Environment Footprint	al Study	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)	
Secs. 22, 23, 26, and 27 (T17N, R7W)	N. ext. (97.9150W, 35.9393N); S. ext. (97.9271W, 35.9272N)	1.25 miles long; 440 ft wide	65.2330	Prairie Tableland	Tallgrass Prairie	

Action Area:

The action is equivalent to the NEPA environmental study footprint.

2. FEDERALLY LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Species Range and Occurrence Evaluation (Check $\sqrt{}$ all that apply)

Species Range and Occu	Action within a v associat occupie	Area is vatershed ed with	Action includes as water	ı Area n occupied	Project site within 5 miles of known records		
	YES	NO	YES	NO	YES	NO	
Whooping Crane	has the constraint of the cons	V		1	1		
Interior Least Tern	V			1		1	
Piping Plover						7	
Arkansas River Shiner				√		1	
Red Knot						V	

Legally Designated	Action Area includes Designated Critical Habitat (Check √)						
Critical Habitat	YES	NO					
Whooping Crane		√					
Arkansas River Shiner		V					

IPaC Special Conditions Identified – wind energy	projects or o	cell towers	
Interior Least Tern	YES	NO	1 1
Piping Plover			1 1

For the Whooping Crane (Check √)									
Action area is in which percentage Whooping Crane migratory corridor				percenta ory corr	age idor	Action area is within 15 miles of Salt Plains National Wildlife Refuge, Hackberry Flat, or Foss Reservoir.			
5%	10%	15%	20%	25%	75%	YES	NO		
			1				V		

3. ENVIRONMENTAL BASELINE

3.1. Ecological Processes and Conditions

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

20112 (OSC 2011 INTAL O	1 Oktanoma by Carter and Oxogo,
Soil Class	Central Rolling Red Prairies
Soil Name	Port-Dale-Yahola-Gaddy-Gracemore-McClain-Reinach
Soil Type	Mollisols and Entisols
Soil Characteristics	Very deep soils on nearly level (1%) slopes
Soil Class	Central Rolling Red Prairies
Soil Name	Pond Creek-Norge-Minco-Lovedale-Bethany
Soil Type	Mollisols
Soil Characteristics	Very deep and humus-rich soils on gently (6%) slopes

Climate (Use Woods et al. 2005)

Climate (Use Woods et al.	2005)	and the same of th
Precipitation	Mean annual inches	27-37
Growing Season	Number of days	190-215
Mean Temperatures	Summer min/max	70/95
Mean Temperatures	Winter min/max	20/50
	William IIII	

River System

None

Land Use and Land Ownership

Land Use and Land	
From Woods et al.	Cropland and rangeland
2005	1 1 1 I lood wight
From Field	The project area is composed of: maintained roadway and railroad rights-
investigation	of-way with broad medians; ODOT property and private residences;
myosugation	grazed and weedy fields; ephemeral streams and a palustrine wetland
	grand distribution of the state

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

The project area is composed of: maintained roadway and railroad rights-of-way with broad medians; ODOT property and private residences; grazed and weedy fields; ephemeral streams and a palustrine wetland (See Figure 5). The project area is primarily grassland dominated by wheat, Johnsons grass (Sorghum halepense), Bermuda grass (Cynodon dactylon), buffalo grass (Bouteloua dactyloides), curlydock (Rumex crispus), vetch (Vicia sp.), silverleaf nightshade (Solanum elaeagnifolium), Canadian horseweed (Conyza canadensis), thistle (Cirsium sp.), yellow salsify (Tragopogon dubius), sunflower (Helianthus sp.), panic grass (Dichanthelium sp.), witchgrass (Panicum capillare), pigweed (Amaranthus sp.), prickly lettuce (Lactuca serriola), field bindweed (Convolvulus arvensis), tall fescue (Schedonorus arundinaceus), mat sandbur (Cenchrus longispinus), wiregrass (Aristida sp.), side oats grama (Bouteloua curtipendula), golden tickseed (Coreopsis tinctoria), annual ragweed (Ambrosia artemisiifolia), Illinois bundleflower (Desmanthus illinoensis), field aster (Symphyotrichum sp.), Spanish gold (Grindelia papposa), long-flower bee-blossom (Guara longiflora), skunkbush (Rhus trilobata), Missouri gourd (Cucurbita foetidissima), and slippery elm (Ulmus rubra). The stream beds, banks, and wetland are composed of, in varying combinations, Bermuda grass, Johnsons grass, curlydock, sunflower, panic grass, pigweed, tall fescue, Illinois bundleflower, and field aster.

Species Habitat Analysis 3.2

3.2 Species Habitat Analysis	******		NO	
Pedestrian survey of entire study footprint	YES	V	1.0	
1 edestrian survey of entire seasy 12-4	YES		NO	1
Bridge inspection for bat use and suitability as bat roosting habitat	1110	L		<u> </u>

SPECIES	HABITAT	YES	NO
Whooping Crane	Shallowly-submerged sandbars in large river channels are present within the action area.		1
0.11.11	Emergent wetlands are present with the Environmental Study Footprint		1
	Acres of emergent wetlands within the Environmental Study Footprint		Acres
	Croplands suitable for foraging occur within the action area and are within 15 miles of Salt Plains National Wildlife Refuge, Hackberry Flat, or Foss Reservoir		1
Interior Least Tern	Sparsely vegetated islands or sandbars along large rivers, with nearby areas of shallow water, are present within the action area.		√
Piping Plover	Sparsely vegetated sandy or gravelly shorelines and islands associated with the major river systems are present within the action area.		√
	Salt flats and mudflats associated with reservoirs are present within the action area.		1
Arkansas River Shiner	Sandy-bottomed main channel rivers, with slow moving shallow water, are present within the action area.		1
Red Knot	Mudflats associated with reservoirs are present within the action area.		√

4. ANALYSIS OF EFFECTS

4.1 Direct Effects

No Direct Effects expected to federally listed species.

4.2 Indirect Effects

No Indirect Effects expected to federally listed species.

4.3 Interrelated and Interdependent Actions and Activities

None expected

Oklahoma Department of Transportation Kingfisher CO JP 29849(04) Biological Assessment Report Bridge and Approaches over UP Railroad

Species Conclusion Table (Check √ which apply)

Species Conclus			LUSION			ECTION 7	NOTES AND DOCUMENTATION Check √ all that apply			
SPECIES / DESIGNATED CRITICAL HABIT	Species present the acti		Project expecte impact		No Effect	May affect, unlikely to adversely affect	Field Studies	ONHI rare species / ABB database	USFWS occupied water bodies and associate	Whooping Crane Migration Corridor Map; LPC Habitat
	YES	NO	YES	NO	in the state of th	affect		review	watershed maps	Model
Interior Least Tern		1		1	1		1	1	1	
Whooping Crane		1		1	1		1	1	1	√
Arkansas River shiner		1		1	1		1	1	1	
Piping Plover		1		1	1		1	1		
Red Knot		1		1	1		√	√		

CONCLUSIONS

The proposed action will have no effect on the Interior Least Tern, Whooping Crane, Arkansas River shiner, Piping Plover, and Red Knot.

RECOMMENDED CONSERVATION MEASURES

none

5. BALD EAGLE AND SWALLOW ASSESSMENT

Bald Eagle Assessment 5.1.

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.

abandonnicii.		
Bald Eagle Habitat Present	No	
Bald Eagle Nests Observed	No	
Bald Eagles Observed	No	

Swallow Assessment 5.2

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.

for nesting.		-			-			200 marriage and the second
Swallow Nests Observed		YES		X		NO		
	App	roximate	Νι	ımber of	. 1	Approximate	Number	of
	Cliff Swallow Nests]	Barn Swallow Nests		
RCB culvert at (35.9282N, 97.9225W)			over well the			3	errodussenskilde der 1970 til sterske de Nobel 2000 2000 og de de de skalende skalende skalende skalende skale	eventororo (1944)
US-81 N. Bound bridge (NBI#: 16159)	100s							Difference and the second of t
US-81 S. Bound bridge (NBI#:	100s						The state of the s	
Other MB Nests Observe Transportation Structures			*******************************			ett til til skriver skille för skille skille förstjog-men en mennen mille film för til til syndes klimika klim	NO CONTRACTOR OF THE STATE OF T	ryonamarnan nai din kriitsii
In order to avoid impacts to	2 627/9	llows any	act	ivities that	m	av destroy acti	ive nests, e	ggs

In order to avoid impacts to swallows, any activities that may destroy active nests, eggs or birds shall be completed between September 1, and March 31, when nests are not occupied. If seasonal avoidance cannot be accomplished, structures shall be protected from new nest establishment prior to April 1, by means that do not result in death or injury to these birds

Oklahoma Department of Transportation Kingfisher CO JP 29849(04)

6. REFERENCES:

Carter, B. J. and M. S. Gregory. 2002. General soil map of Oklahoma. In: Geology and Earth Resources of Oklahoma. K.S. Johnson et al. (eds.) Educational Publication No. 1. Oklahoma Geological Survey. Norman, OK.

Duck, L. G., and J. B. Fletcher. 1945. A survey of the game and furbearing animals of Oklahoma; Chapter 2, The Game Types of Oklahoma. Oklahoma Game and Fish Commission, Division of Wildlife Restoration and Research. Oklahoma City.

Oklahoma Natural Heritage Inventory. 2014. Element Database. Oklahoma Natural Heritage Inventory, Oklahoma Biological Survey, Norman, OK.

U.S. Fish and Wildlife Service, 2014, Federally Listed Threatened and Endangered Species in Oklahoma. Accessed from http://www.fws.gov/southwest/es/oklahoma/ accessed on January 20, 2014.

Woods, A.J., Omernik, J.M., Butler, D.R., Ford, J.G., Henley, J.E., Hoagland, B.W., Arndt, D.S., and Moran, B.C., 2005, Ecoregions of Oklahoma (color poster with map, descriptive text, summary tables, and photographs): Reston, Virginia, U.S. Geological Survey (map scale 1:1,250,000).

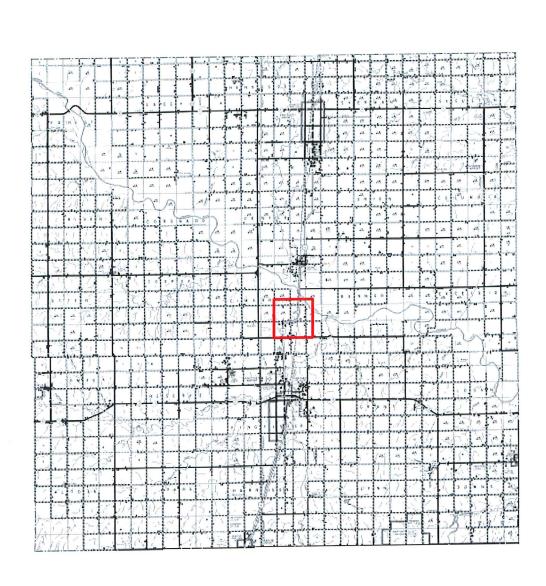


Figure 1. County Wide Section Line Map

Project Location



Kingfisher County

J/P 29849(04)

Project #: J2-9849(004)

Source: State of Oklahoma Department of Transportation

Not to Scale



Figure 2. Action Area Map

Action Area

N

Kingfisher County

J/P 29849(04)

Project #: J2-9849(004)

0 500 1,000

2,000 Feet

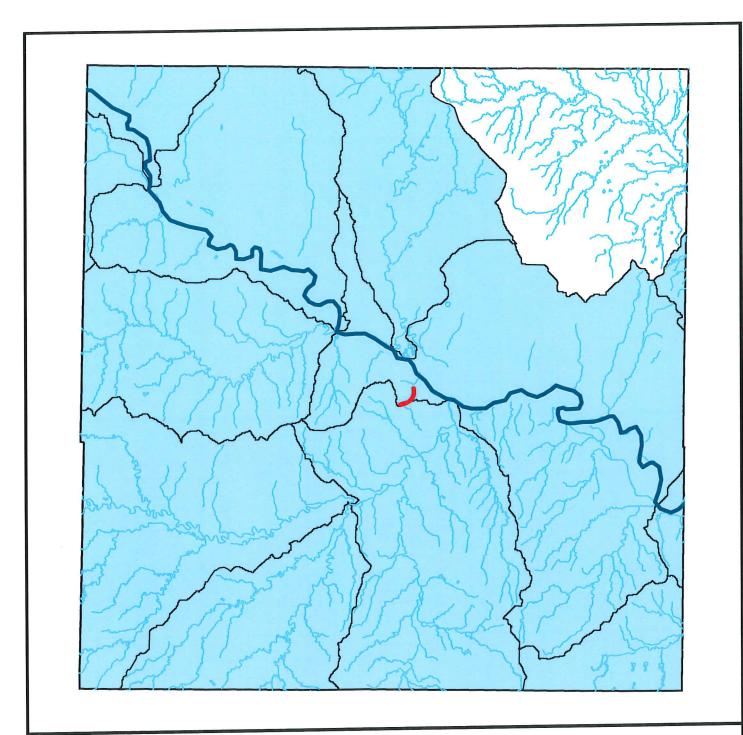
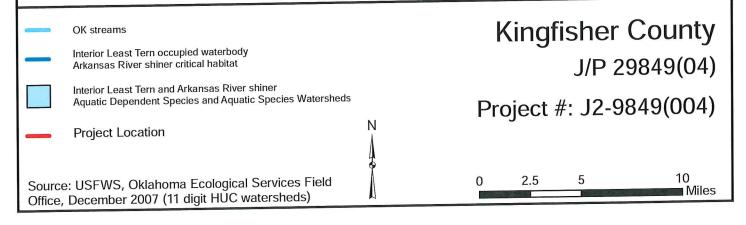


Figure 3. Critical Habitat, Occupied Waterbodies and Watersheds



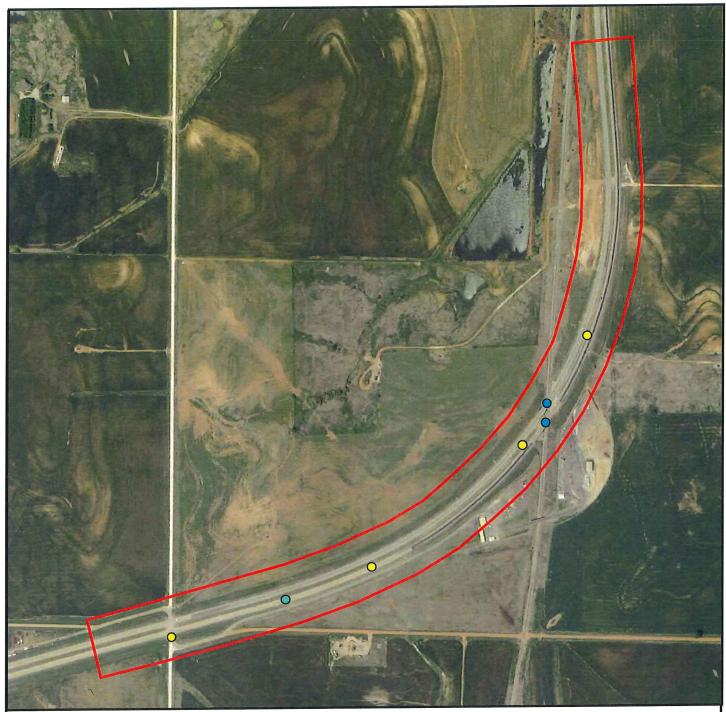


Figure 4. Swallow Survey Map

Study Area

- None Suitable Structures
- Barn Swallow activity (nests and adults)
- Cliff Swallow activity (nests and adults)

N

Kingfisher County

J/P 29849(04)

Project #: J2-9849(004)

USDA-APFO National Agriculture Imagery Program 2008 Digital Orthophotography

300 600

1,200 Feet

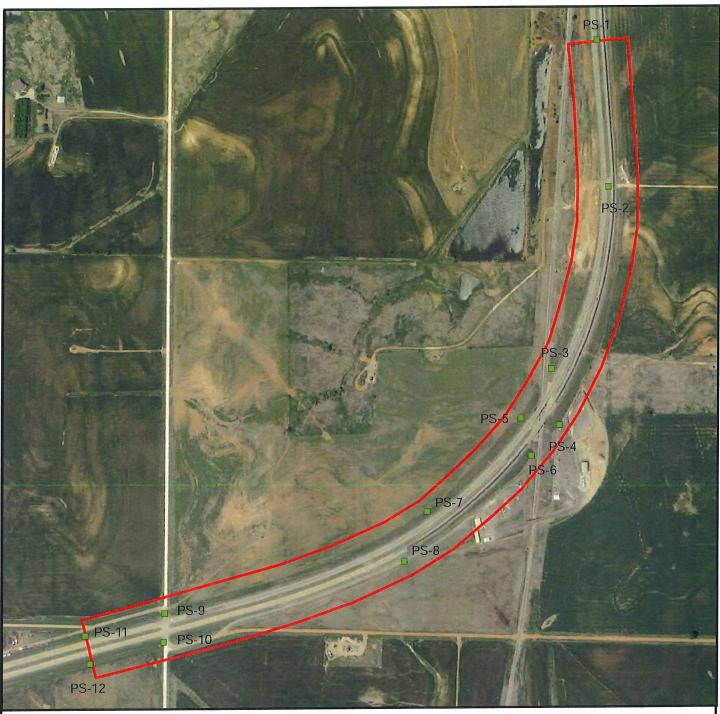


Figure 5. Photo Site Map

Kingfisher County Study Area J/P 29849(04) Photo Sites Project #: J2-9849(004)

1,000

Photo Images for ODOT J/P 29849(04) Bridge and Approaches in Kingfisher County, Oklahoma







Image 3 (PS 1): looking NW from the northern extent of the study area.



Image 4 (PS 1): looking SW from the northern extent of the study area.



Image 5 (PS 2): looking NW from the roadway.



Image 6 (PS 2): looking SW from the roadway.



Image 7 (PS 2): looking SE from the roadway.



Image 8 (PS 2): looking NE from the roadway.

Photo Images for ODOT J/P 29849(04) Bridge and Approaches in Kingfisher County, Oklahoma



Image 9 (PS 3): looking W at the railroad crossing.



Image 10 (PS 3): looking NW from the railroad crossing.



Image 11 (PS 4): looking SW at the railroad crossing.



Image 12 (PS 4): looking NE from the railroad crossing.

Photo Images for ODOT J/P 29849(04) Bridge and Approaches in Kingfisher County, Oklahoma



Image 13 (PS 5): looking NE at the railroad crossing.



Image 14 (PS 6): looking NE at the railroad crossing.



Image 15 (PS 7): looking NE from the roadway.



Image 16 (PS 7): looking NW from the roadway.



Image 17 (PS 8): looking E from the roadway.



Image 18 (PS 8): looking S from the roadway.



Image 19 (PS 9): looking NE from CR NS-285.



Image 20 (PS 9): looking NW from CR NS-285.



Image 21 (PS 10): looking SW from CR NS-285.



Image 22 (PS 10): looking SE from CR NS-285.



Image 23 (PS 11): looking NE from the western extent of the study area. $\,$



Image 24 (PS 11): looking NW from the western extent of the study area. $\,$



Image 25 (PS 12): looking SW from the western extent of the study area.



Image 26 (PS 12): looking SE from the western extent.



United States Department of the Interior

FISH AND WILDLIFE SERVICE Oklahoma Ecological Services Field Office 9014 EAST 21ST STREET TULSA, OK 74129

PHONE: (918)581-7458 FAX: (918)581-7467 URL: www.fws.gov/southwest/es/Oklahoma/



June 10, 2014

Consultation Tracking Number: 02EKOK00-2014-SLI-1006

Project Name: Kingfisher CO JP 29849(04)

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/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.

If your species list does not contain the American burying beetle and your projects falls within Marshall, Love, Carter, Murray, Garvin, McClain, Cleveland, Pottawatomie or Adair counties,

the Service reccomends that you consider the American burying beetle in your project planning process. There is evidence to suggest (Crawford and Hoagland 2010), that the American burying beetle may occur in these counties.

Attachment





Project name: Kingfisher CO JP 29849(04)

Official Species List

Provided by:

Oklahoma Ecological Services Field Office 9014 EAST 21ST STREET TULSA, OK 74129 (918) 581-7458 http://www.fws.gov/southwest/es/Oklahoma/

Consultation Tracking Number: 02EKOK00-2014-SLI-1006

Project Type: Bridge Construction / Maintenance

Project Description: Bridge and Approaches on US-81 (NB, SB) over the UP RR app. 5.3 miles

north of SH-33



Project name: Kingfisher CO JP 29849(04)

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-97.9281473 35.9301705, -97.9207744 35.9326724, -97.9175128 35.9376692, -97.9175128 35.9405878, -97.9116763 35.9405878, -97.9106464 35.9361403, -97.9120111 35.9298925, -97.9140796 35.9268275, -97.9207744 35.9246033, -97.926774 35.9225251, -97.9281473 35.9301705)))

Project Counties: Kingfisher, OK





Project name: Kingfisher CO JP 29849(04)

Endangered Species Act Species List

There are a total of 5 threatened, endangered, or candidate species on your 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. Critical habitats listed on the **Has Critical Habitat** lines may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Arkansas River shiner (Notropis girardi)

Population: Arkansas R. Basin

Listing Status: Threatened

Has Critical Habitat: Final designated

Least tern (Sterna antillarum)

Population: interior pop.

Listing Status: Endangered

Piping Plover (Charadrius melodus)

Population: except Great Lakes watershed

Listing Status: Threatened

Has Critical Habitat: Final designated

Red Knot (Calidris canutus rufa)

Listing Status: Proposed Threatened

Whooping crane (Grus americana)

Population: except where EXPN

Listing Status: Endangered

Has Critical Habitat: Final designated





Project name: Kingfisher CO JP 29849(04)

Critical habitats that lie within your project area

There are no critical habitats within your project area.

WATERS AND WETLANDS EVALUATION REPORT

For

Project Statement		Bridge and	Approaches or	the existing	alignment
Project General Location		Approximately 5.3 miles north of SH-33			
ROW Date	N/A	Let Date	FFY 2020	Project Length	1.25 miles
Road Number	US-81	Water Body	Name	None (Un	ion Pacific Railroad)
County	Kingfisher	JP Number	29849(04)	Project Number	J2-9849(004)

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

Prepared by:
Biologist Name
James K. Teague
Company/Agency Name
ODOT Biological Studies Program at OU
Address
City, State Zip
Norman, OK 73019

Date:
June 25, 2014

PROJECT OVERVIEW

Project Type	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 stretch of US-81 is a four lane, divided facility with 12ft lanes, 10ft outside shoulders, and 4ft inside shoulders. The median width is approximately 30ft. The project area occurs in a flat, rural section of Kingfisher County. Approximately 5,000 vehicles use the roadway each day. The Union Pacific railroad bridges (NBI#s: 16159 and 16167) are not considered deficient but are at risk.

Description of proposed improvements SPECIFIC TO THIS PROJECT

The ODOT proposes to replace the existing north and southbound bridges on the current alignment within the existing right-of-way. The new bridges will be steel girder spans built approximately 3ft higher than the existing bridges. Pier protection at the bridges will be needed. The roadway will remain open during construction operations using crossovers approximately 0.5 miles north and south of the bridges to divert traffic. The project is needed to prevent the bridges from becoming structurally deficient.

Project Environmental Study Footprint

Project Location		Environmental Study Footpr	int
Section Range &	Lat/Long (NAD 83)	<u>Dimensions</u>	Acreage
Township Secs. 22, 23, 26, and 27 (T17N, R7W)	N. ext. (97.9150W, 35.9393N); S. ext. (97.9271W, 35.9272N)	1.25 miles long; 440 ft wide	65.2330

Environmental Study Footprint Soils (NRCS Soil Survey Map)

Map Unit Name	Percent Slope	Drainage Class	Hydric Rating		Description
1 (4111)	I		YES	NO	
Ab	0 – 8		X		Grainola-Ashport complex, 0 to 8 percent slopes
KrA	0-1	W		X	Kirkland silt loam
NoB	1-3		Anna Carlo Car	X	Milan fine sandy loam
NsB	1-3	W-MW		X	Milan-Pawhuska complex
RcB	1-3	na y salah s	g garage a la region de la regi	X	Renthin clay loam
ShC	3-5	and for an emphilipsele school of the option was an excellent following proper see at 1272 follow-side of the talk	A COLONIA COMPANIA A COLONIA C	X	Lovedale fine sandy loam
VcB	1-3			X	Grainola clay loam
VcC3	3-5		And the second s	X	Grainola-Masham complex, eroded

Environmental Study Footprint General Description and Vegetation Present

The project area is composed of: maintained roadway and railroad rights-of-way with broad medians; ODOT property and private residences; grazed and weedy fields; ephemeral streams and a palustrine wetland (See Figure 5). The project area is primarily grassland dominated by wheat, Johnsons grass (Sorghum halepense), Bermuda grass (Cynodon dactylon), buffalo grass (Bouteloua dactyloides), curlydock (Rumex crispus), vetch (Vicia sp.), silverleaf nightshade (Solanum elaeagnifolium), Canadian horseweed (Conyza canadensis), thistle (Cirsium sp.), yellow salsify (Tragopogon dubius), sunflower (Helianthus sp.), panic grass (Dichanthelium sp.), witchgrass (Panicum capillare), pigweed (Amaranthus sp.), prickly lettuce (Lactuca serriola), field bindweed (Convolvulus arvensis), tall fescue (Schedonorus arundinaceus), mat sandbur (Cenchrus longispinus), wiregrass (Aristida sp.), side oats grama (Bouteloua curtipendula), golden tickseed (Coreopsis tinctoria), annual ragweed (Ambrosia artemisiifolia), Illinois bundleflower (Desmanthus illinoensis), field aster (Symphyotrichum sp.), Spanish gold (Grindelia papposa), long-flower bee-blossom (Guara longiflora), skunkbush (Rhus trilobata), Missouri gourd (Cucurbita foetidissima), and slippery elm (Ulmus rubra). The stream beds, banks, and wetland are composed of, in varying combinations, Bermuda grass, Johnsons grass, curlydock, sunflower, panic grass, pigweed, tall fescue, Illinois bundleflower, and field aster.

WATERS AND WETLANDS EVALUATION

Data Sources Reviewed (list)

Data Sources Revie	weu (list)		
USGS 7.5 minute	NWI Map	USACE Wetland	Additional
Ouad	•	Regional Supplement	Resources Reviewed
35097(H8)	USFWS, September,	Great Plains Region	Cowardin, 1979
55057(110)	2009 wet data file	mengalakki kila ugungan mengangan kengangan mengangan kengan pengangan kengan pengangan kengan pengangan pengan	Endowed to the control of the contro

Wetlands and Ponds Summary Table

Number of Field Sites	Type of Wetland or Pond	Cowardin Classification	Potential Jurisdictional Status	Acres within Environmental Study Footprint
1	Palustrine, unconsolidated bottom	PUB3C- palustrine, unconsolidated bottom, mud bottom, seasonally flooded	Not Jurisdictional	0.174

Streams and Drainages Summary Table

Number of Field Sites	Stream Name	USGS Mapped Status	Potential Jurisdictional Status	Acres within Environmental Study Footprint	Linear Feet within Environmental Study Footprint
7	Unnamed tributaries	Unmapped, ephemeral	Not Jurisdictional	1.639	3,769

Streams and other linear aquatic features

Field Site 1 can best be considered an unmapped, ephemeral stream that occupies approximately 0.892 acres (~1,370 linear feet) of the study area. This stream flows north through the west side of the study area into the west roadside ditch. The stream has a mud bed and was inundated during field investigations. It is not jurisdictional.

Field Site 2 can best be considered an unmapped, ephemeral stream that occupies approximately 0.062 acres (~292 linear feet) of the study area. This stream originates from a culvert under US-81 and flows north into the east side ditch of the Union Pacific Railroad. The stream was saturated and partially vegetated during field investigations. It is not jurisdictional.

Field Site 3 can best be considered an unmapped, ephemeral stream that occupies approximately 0.035 acres (~ 173 linear feet) of the study area. This stream originates from a ponded wetland area and flows north towards the culvert associated Field Site 2. The stream was saturated and partially vegetated during field investigations. It is not jurisdictional.

Field Site 5 can best be characterized as an unmapped, ephemeral stream that occupies approximately 0.079 acres (426 linear feet) of the study area. This stream originates from the north roadside ditch and flows north and east into a large pond on the west side of the Union Pacific Railroad. The stream was saturated and partially vegetated during field investigations. It is not jurisdictional.

Field Site 6 can best be characterized as an unmapped, ephemeral stream that occupies approximately 0.007 acres (~ 35 linear feet) of the study area. This portion of stream occurs within an inundated depression within the east roadside ditch that flows north under the roadway. It is not jurisdictional.

Field Site 7 can best be characterized as an unmapped, ephemeral stream that occupies approximately 0.318 acres (~ 828 linear feet) of the study area. This stream originates from the south roadside ditch and flows south out of the study area. This stream was saturated and partially vegetated during field investigations.

Field Site 8 can best be characterized as an unmapped, ephemeral stream that occupies approximately 0.247 acres (~ 645 linear feet) of the study area. This stream originates from the fence line ditch and field and flows east and south through the study area. The stream was saturated and partially vegetated during field investigations. It is not jurisdictional.

Wetlands and ponds

Field Site 4 can best be characterized as an unmapped, seasonally flooded, palustrine, unconsolidated (PUB3C) wetland with a mud bottom that occupies approximately 0.174 acres of the study area. This feature occurs as two stagnant pools that combine to drain into the south roadside ditch. The wetland was inundated during field investigations. It is not jurisdictional.

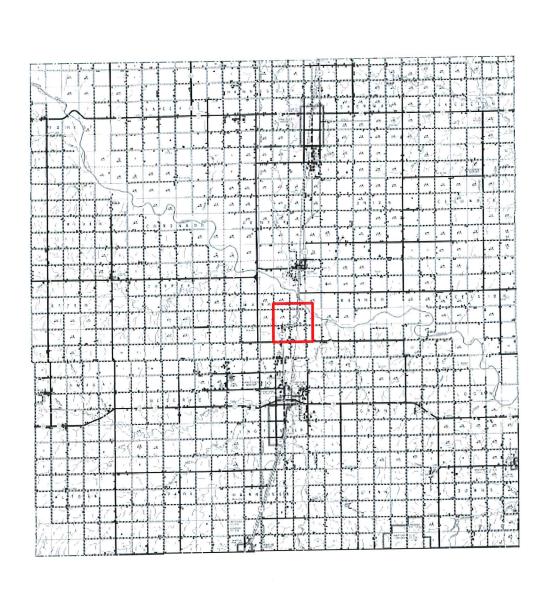


Figure 1. County Wide Section Line Map

Project Location

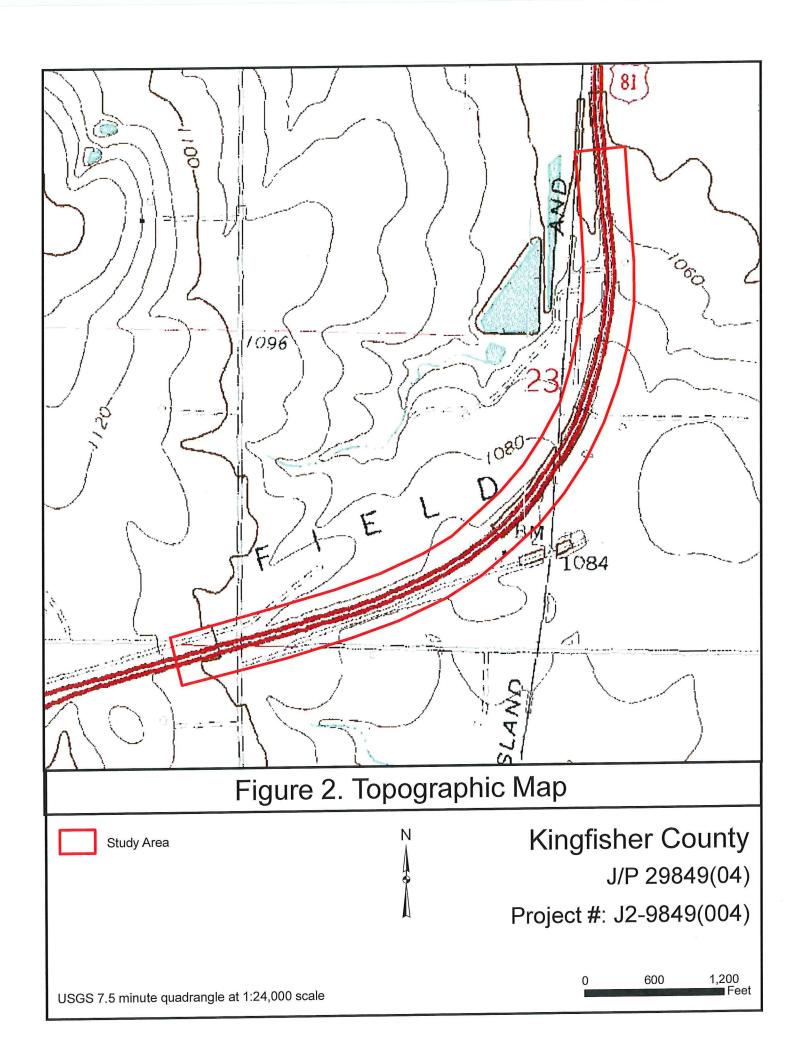


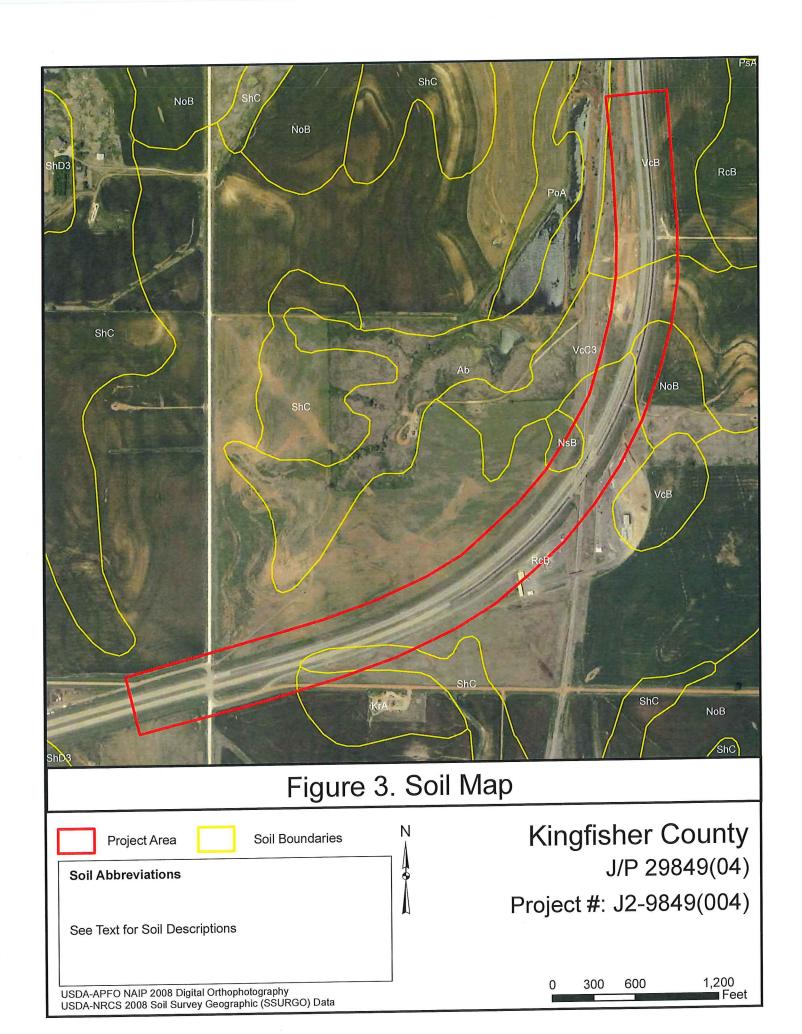
Kingfisher County
J/P 29849(04)

Project #: J2-9849(004)

Source: State of Oklahoma Department of Transportation

Not to Scale





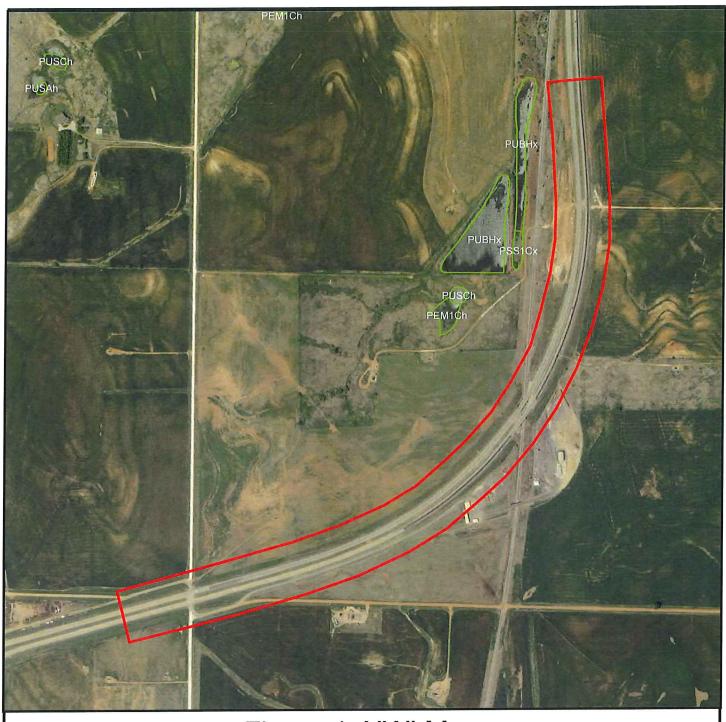


Figure 4. NWI Map

Project Area

NWI

N

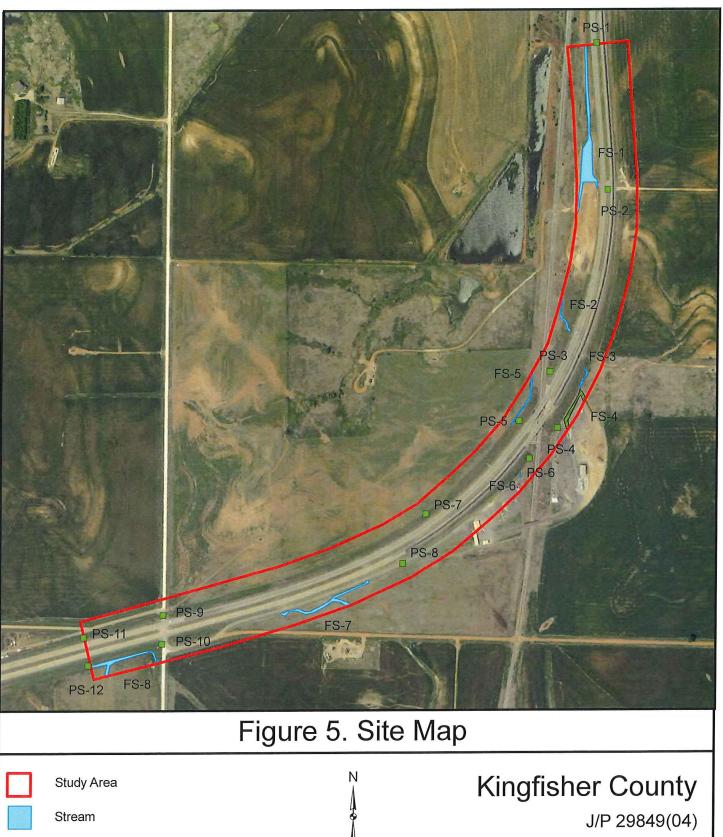
Kingfisher County

J/P 29849(04)

Project #: J2-9849(004)

300 600

1,200 Feet



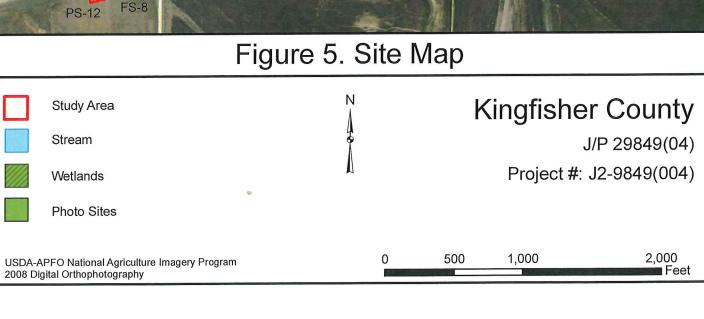






Image 2 (PS 1): looking SE from the northern extent of the study area.



Image 3 (PS 1): looking NW from the northern extent of the study area.



Image 4 (PS 1): looking SW from the northern extent of the study area.

Photo Images for ODOT J/P 29849(04) Bridge and Approaches in Kingfisher County, Oklahoma



Image 5 (PS 2): looking NW from the roadway.



Image 6 (PS 2): looking SW from the roadway.



Image 7 (PS 2): looking SE from the roadway.



Image 8 (PS 2): looking NE from the roadway.



Image 9 (PS 3): looking W at the railroad crossing.



Image 10 (PS 3): looking NW from the railroad crossing.



Image 11 (PS 4): looking SW at the railroad crossing.



Image 12 (PS 4): looking NE from the railroad crossing.



Image 13 (PS 5): looking NE at the railroad crossing.



Image 14 (PS 6): looking NE at the railroad crossing.



Image 15 (PS 7): looking NE from the roadway.



Image 16 (PS 7): looking NW from the roadway.



Image 17 (PS 8): looking E from the roadway.



Image 18 (PS 8): looking S from the roadway.



Image 19 (PS 9): looking NE from CR NS-285.



Image 20 (PS 9): looking NW from CR NS-285.



Image 21 (PS 10): looking SW from CR NS-285.



Image 22 (PS 10): looking SE from CR NS-285.



Image 23 (PS 11): looking NE from the western extent of the study area. $\,$



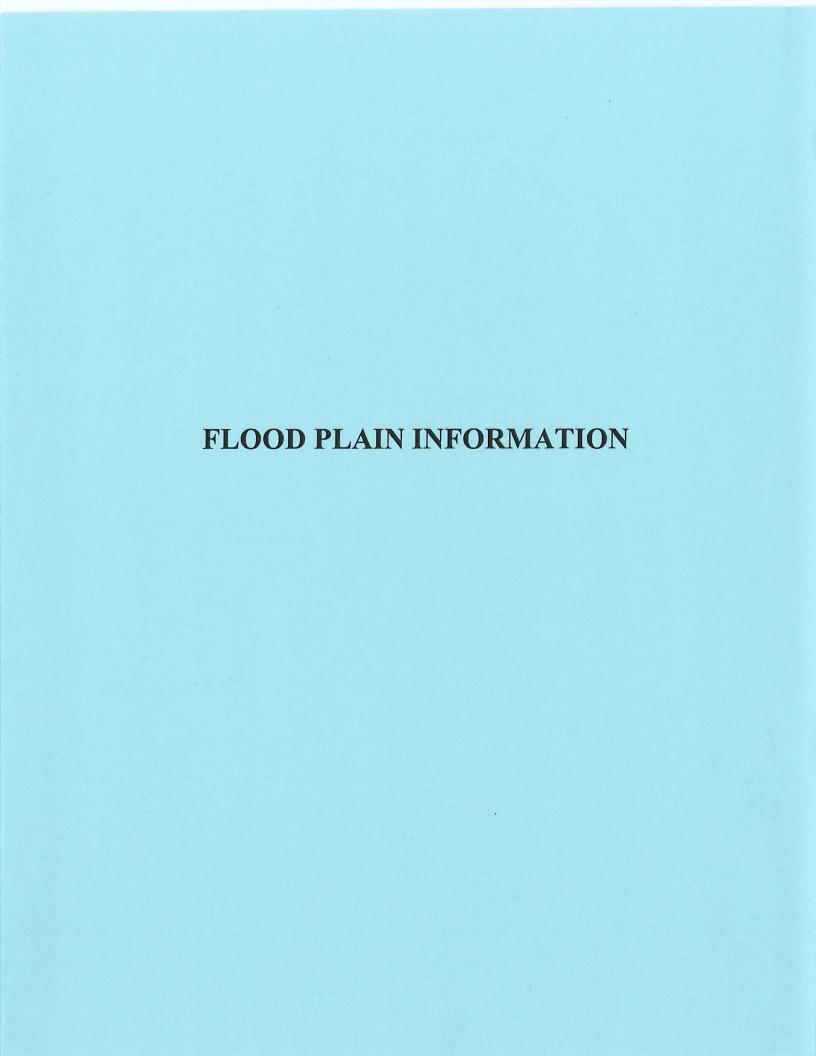
Image 24 (PS 11): looking NW from the western extent of the study area. $\,$

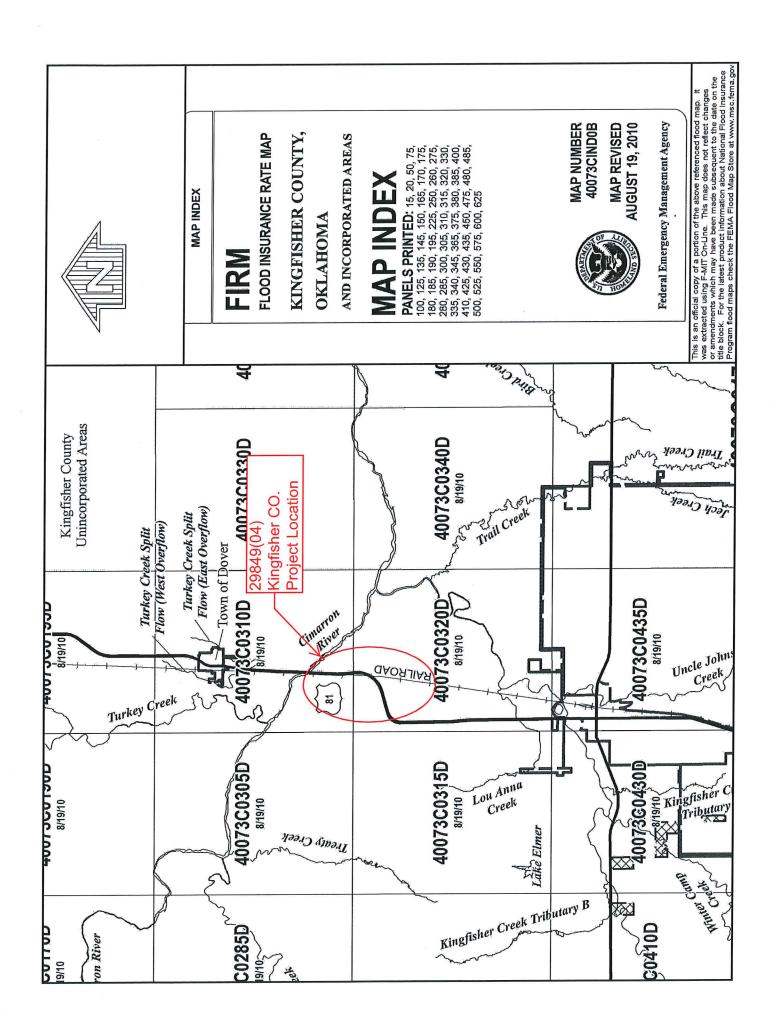


Image 25 (PS 12): looking SW from the western extent of the study area. $\,$



Image 26 (PS 12): looking SE from the western extent.









Oklahoma Department of Transportation

Environmental Programs Division

Office 521-3050 Fax 522-5193

DATE:

March 30, 2016

TO:

Roadway Design Division, Project Management Division, Bridge Division

FROM:

Environmental Programs Division

SUBJECT:

US-89 over UPRR, 5.3 miles north of SH-33, Kingfisher County. Project No. J2-

9849(004); JP No. 29849(04).

A leaking underground storage tank (LUST) site is located on the southeast side of US-89, north of EW-75 Road and west of the railroad tracks. Please have the LUST site location added to the plan and profile sheets by placing a box in the appropriate location with the Oklahoma Corporation Commission (OCC) facility number, case number, and denoting it as a LUST site.

Please have the following added to the "Environmental Mitigation Notes" of the project plans per Policy Directive C-201-2D(2):

"Station

OCC Facility No./Case No.

Facility

122+50 to 124+50 Rt 25'

37-01865/064-0997

ODOT

Petroleum contamination may exist at or near the referenced Leaking Underground Storage Tank (LUST) site. Based on the available information, contamination is not expected to affect construction activities, but is still possible. In the event contaminated soil or groundwater is encountered, the contractor shall adhere to ODOT's Hazardous Materials Specification 107.15 and notify the Resident Engineer, who may then contact the Environmental Programs Division at (405) 521-3050 for assistance."

This mitigation measure should be discussed at all pre-work conferences per Policy Directive C-201-2-E(1). If you have any questions, please contact David Edwards at (405) 521-2673.

DAE

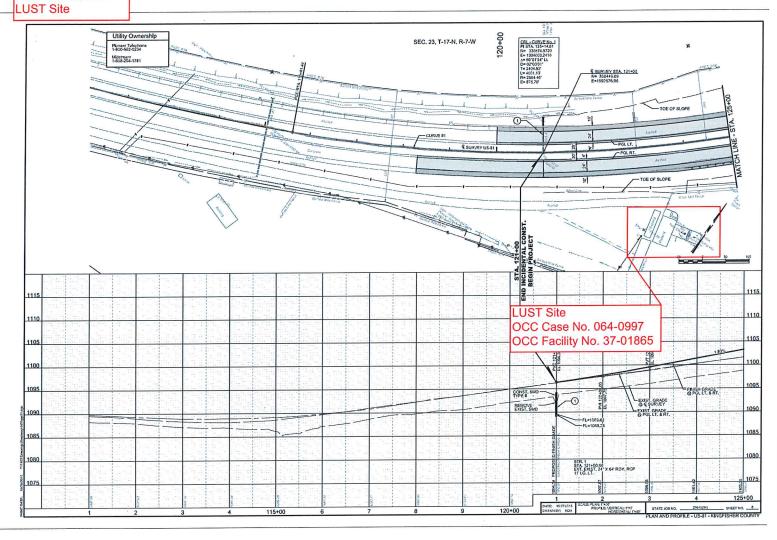
Xc:

NEPA Project Manager

Division 2 Engineer

Right-of-Way & Utilities Division

2984904 Plan Sheet 8 with



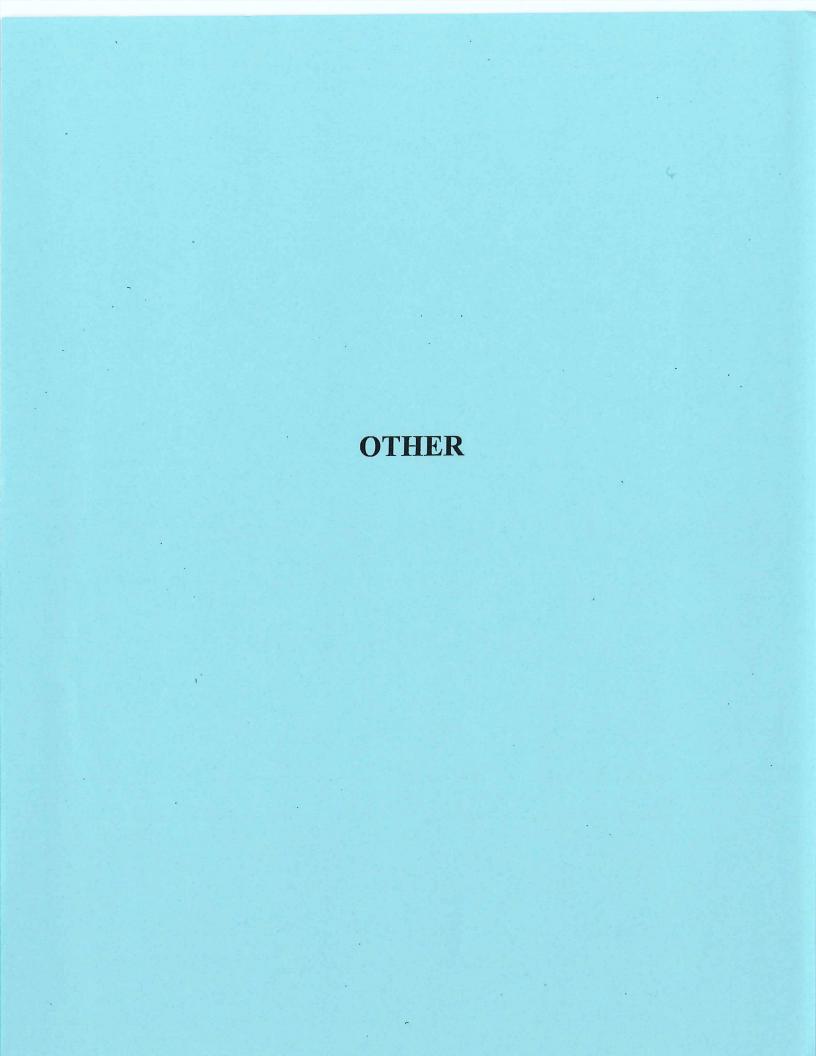
OKLAHOMA DEPARTMENT OF TRANSPORTATION INITIAL SITE SCREENING REPORT – HAZARDOUS WASTE

Prepared By: Kris Mutz Report Date: June 20, 2014	Project No.: J2-9849(004) J/P Number: 29849(04)	County: Kingfisher					
1. PROJECT DESCRIPTION: US-81	over UPRR, 5.3 miles north of SH-3	33.					
2. LAND USE AND CHARACTERIST	ICS: Pastureland with maintenance	yards near the railroad.					
3. PROJECT METHODOLOGY:							
A. Records Search: ☐ Electronic database search (vendo ☐ Manual database search (LUST, C ☐ Sanborn Fire Insurance Maps ☐ Aerial photos ☐ RCRA CORRACTS		☑ Google Streetview☐ Other:					
B. Interviews/Contacts:							
C. Field Investigation:	(date:)	No Visit					
4. RESULTS OF INVESTIGATION:							
A. Physical Features in Immediate Project site.	Area (USTs, AST, Others): ODOT	maintenance yard that is a former LUST					
B. Evidence of Contamination (Vegetation	n Damage, Staining, Sheen): None r	noted.					
	d in project area. ontamination identified in project are ntamination identified in project area						
5. RECOMMENDATIONS: ☐ Approval to Proceed (No Further Action) ☒ Approval to Proceed, Pending: ☐ Avoidance of described site(s) ☒ Plan Notes regarding described site(s) (See Section 6) ☐ Additional investigation by ODOT ☐ Approval NOT Recommended							
	1 1 to address the LUCT eite						

6. PLAN NOTES: A plan note will be developed to address the LUST site.

7. **GENERAL COMMENTS:** US-81 is elevated related to adjacent properties, thereby reducing the potential to be impacted by nearby sources of contamination.

This report is based solely upon the interpretation of the available information and documents reviewed, and when indicated, visual observations of the proposed project and its vicinity. This report is intended for the sole use of ODOT. It should be recognized that this report was not intended to be a definitive investigation of contamination on any proposed project. Given the scope of the limited services undertaken, it is possible that currently unrecognized contamination may exist at any property and that the levels of this potential contamination may vary. Opinions and recommendations presented therein apply to existing conditions and those reasonably foreseeable.





OKLAHOMA DEPARTMENT OF TRANSPORTATION

PROJECT STATUS SYSTEM

Project

Recon
 Section 4F
 Public
 Involvement
 Re Evaluation

NEPA Document Navigation

Home > List Projects > Edit Project > Edit Environmental Data > Edit NEPA Document	ntal Data > Edit NEPA Doc	cument		
Edit Original NEPA	Cancel Save NEP,	Save NEPA Document	NEPA Document Preparation	
Job Piece , 2984904			NEPA On Hold Memo Sent Date 01/05/2016	ate 01/05/2016
			R/W Submittal Plans Recd	
Initial		THE REST OF THE PERSON OF THE	Draft Document Target Date	
Initiation Report from PMD			Draft Document Actual Date	
Footprint Review Prior to Start of Studies				
Consultant Notice To Proceed			CE Review	MACHINE THE THE THE THE THE THE THE THE THE TH
Property Owner Notification 02/13/2014	4		Draft CE Review by ODOT	
BLM Notification 02/13/2014	4		Comments To Consultant	
BIA Notification			Revised CE from Consultant	
Consultant CR/Tribal Initiation		į.	CE to FHWA (if applicable) Date of FHWA / ODOT Approval of CE	oval of CE
			10 H	
Studies			CE Distribution	
Farmland NRCS Requested			FA Review	
Farmland NRCS Complete				
CR Studies Requested	06/03/2014		Draft EA Review by ODO!	
CR Studies Due	10/21/2014		Draft EA Review by FHWA	
CR Studies Recd	10/09/2014		Comments to Consultant	
Biological Studies Requested	06/03/2014		Kevised EA from Consultant	
Biological Studies Due	10/21/2014		Draft EA to FHWA	
Biological Studies Recd	07/18/2014		Draft EA Approval by Frivial	
Meeting with 404 Permit Coordinator for Delineation				
Haz Waste Studies Requested	06/03/2014		Final EA Keviewed	
Haz Waste Studies Due	10/21/2014		Final EA to FHWA	
Haz Waste Studies Recd	06/30/2014		FONSI ITOM FHWA	
Noise Studies Requested			ronal Distribution	
Noise Studies Due				
Noise Studies Recd				
Relo Studies Requested				

	NEPA Document Preparation	
7	NEPA On Hold Memo Sent Date 01/05/2016	5/2016
	R/W Submittal Plans Recd	
1	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	
1	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	



OKLAHOMA DEPARTMENT OF TRANSPORTATION

200 N. E. 21st Street Oklahoma City, OK 73105-3204

February 13, 2014

Subject: Bridge and approaches on US-81 over the UP Railroad, located 5.3 miles north of junction of SH-33 in Kingfisher County, JP # 29849(04), Project Number J2-9849(004).

Dear Property Owner:

We are pleased to inform you the Oklahoma Department of Transportation (ODOT) is considering improvements to the north and south bound Union Pacific (UP) Railroad Bridges on US-81. The exact project scope and requirements will be clarified through the planning, environmental review, and design process. In accordance with the National Environmental Policy Act, the National Historic Preservation Act, and Federal Highway Administration policy, the Department is requesting any information or specific concerns you may have regarding this project's potential impact on the human environment, the natural environment, and historic properties.

Additionally, in the near future, employees or authorized agents of ODOT may be entering your property for the purpose of surveying environmental considerations, such as cultural resources, biological resources, noise, and hazardous materials. Results from these studies will be incorporated into the environmental document being prepared for this project. It may be necessary to do minor hand digging in your property as part of the survey. Any test holes will be filled in and cleaned up afterwards.

Oklahoma Statute 69-702 provides for the Department of Transportation, through its agents and employees, to enter the property and make the necessary surveys and other examinations related to the proposed highway project. A copy of Oklahoma Statute 69-702 is provided with this letter.

If you are currently leasing this property, please notify your lessee of our planned work.

Should you have any information or specific concerns, please contact Tim Vermillion, ODOT Environmental Project Manager at 405-521-2676 or TVermillion@ODOT.ORG. As always, your cooperation is greatly appreciated.

Respectfully,

Dawn R. Sullivan, P.E.

Environmental Programs Division Engineer

DRS/TV

Enclosures: Location Map, Copy of Statute 69-702

Copy to:

Project Management

Field Division Engineer

Survey Division Materials Division Right-of-Way Division

ODOT Cultural Resources Specialist

Specialists

"The mission of the Oklahoma Department of Transportation is to provide a safe, economical, and effective transportation network for the people, commerce and communities of Oklahoma."

Kingfisher County US -81 over UP RR JP 29849(04)

5 labels

Dorsey and Joyce Brown

PO Box 418

Kingfisher, OK 73750

Paul Compton

16407 East 750 Road Kingfisher, OK 73750

One property was unable to be identified on Section 27. Not listed on assessor site/shaded

Jack Stuteville 1009 Park Plaza Kingfisher, OK 73750

Glen Perdue 26789 East 740 Road Dover, OK 73734

Michael Frey 15736 N 2850 Road Kingfisher, OK 73750

United States Department of the Interior



BUREAU OF LAND MANAGEMENT

Oklahoma Field Office 7906 E. 33rd Street, Suite 101 Tulsa, Oklahoma 74145 www.blm.gov/nm



In Reply Refer To:
ODOT Project Response 042314
1785 (040)

RECEIVED

APR 2 2014

ENVIRONMENTAL

PROGRAMS DIVI

April 23, 2014

Ms. Dawn Sullivan
Environmental Programs Division Engineer
Oklahoma Department of Transportation
200 N. E. 21st Street
Oklahoma City, OK 73105-3204



Dear Ms. Sullivan:

We wish to thank you for extending the opportunity to the Bureau of Land Management (BLM) Oklahoma Field Office in Tulsa, Oklahoma, to provide comments on the following proposed projects:

- 1. Beaver County
 - a. Bridge on US-270 over Aurora Creek (JP 27007(04), J2-7007(004))
- 2. Craig County
 - a. Bridge/Approaches on SH-10 over Big Cabin Creek (JP 29068(04), J2-9068(004))
- 3. Garfield County
 - a. Bridge/Approaches on SH-132 over Unnamed Creek (JP 29482(04), J2-9482(004))
 - b. Bridge/Approaches on US-60 over BNSF Railroad (JP 24637(04), J2-4637(004))
 - c. Bridge/Approaches on US-64 over Black Bear Creek (JP 27965(04), J2-7965(004))
- 4. Kay County
 - a. Bridge/Approaches on SH-11 over Deer Creek (JP 29839(04), J2-9839(004))
 - b. Bridge/Approaches on SH-11 over Thompson Creek (JP 29840(04), J2-9840(004))
- 5. Kingfisher County
 - a. Bridge/Approaches on US-81 over UP Railroad (JP 29849(04), J2-9849(04))
 - b. Bridge/Approaches on SH-33 over Foreman Creek (JP 29490(04), J2-9490(004))
 - c. Bridge/Approaches on SH-51 over Skeleton Creek (JP 21858(04), J2-1858(004))
- 6. Logan County
 - a. Bridge/Approaches on SH-33 over Gar Creek (JP 29841(04), J2-9841(004))
 - b. Bridge/Approaches on SH-74D over Rock Creek (JP 28312(04), J2-8312(004))





BUREAU OF LAND MANAGEMENT

Oklahoma Field Office 7906 E. 33rd Street, Suite 101 Tulsa, Oklahoma 74145 www.blm.gov/nm



In Reply Refer To:

Our office has reviewed the information provided in your letters and has no concerns or objections to these proposals. A search of our files shows no impact to Federal or Indian minerals in the project areas, nor any Federal land managed by the BLM.

Sincerely,

Janine Book

Resource Program Manager Oklahoma Field Office



Oklahoma Department of Transportation Project Management Division (405)522-7601 Fax (405) 522-7612 Room 3C9

		500		
DATE:	October 2, 2013		1 . 15	-9
TO:	Distribution List		161,	/
FROM:	Project Manageme	nt Division	1615	7
SUBJECT:	Project Initiation		,	
J/P Number: PS&E Date: Programmed Project Descr	29849(04) Coun 2020 R/W Estimate: \$ 4,000,000 iption: Bridge and A	Date : 2016	Drive-out Date: 1	rision: 4 0/2/2013
FUNCTION	AL CLASSIFICATI	ON	Mark Comment	
Area Type: Terrain Type: Access Contr Highway Typ	□ Urban : ■ Flat ol: □ Full	□ Suburban□ Rolling□ Partial	Rural Mountainous None Minor Arterial STRAHNET	□ Collector □ Scenic Hwy
Current ADT Outside Shou Open Secti Other (des	cribe): pe: Asphalt Concrete pe: Paved No Yes	le Shoulder Width: urb & Gutter Pavemen Shoulder	4' Divided, median width: t Condition: Good Condition: Good Condition: Good	ne Width: 12' : 30' □ Fair □ Poor □ Fair □ Poor □ Fair □ Poor
	in Project Extents: SI 16159 16167		NSPECTION REPORT(S	S)
 ☐ Historic Pr ☐ Archeolog ☐ Cemeteries ☐ Hazardous ☐ Endangere Shiner 	ical Sites, list: s, list: Waste / LUST Sites, d Species, list: Whoop	list: oing Crane, Interio	r Least Tern, Piping Plov	er, Ark River
□ Section 4F□ Farmland	or 6F Properties, list: □ Wetlands □ Sc	enic and Protected	Aquifers □ 100 Yea	r Flood Plain

ALTERNATIVE IMPACTS Other Agencies List: Turnpike Involvement Metropolitan Planning Organizations List:
PERMIT INFORMATION Design Exception Anticipated: □ No □ As required by design □ Yes, type: Maintenance Agreements (Lighting, Signals, etc.): □ No □ Yes, type: Permits required: □ FAA □ USACE □ OWRB □ Railroad □ Other, type: Additional:
PROPOSED IMPROVEMENT Project Intent: Replace at-risk bridge over Union Pacific Railroad. Alleviate Fracture Critical Member
Special Considerations: Will not be able to purchase ROW from UP. Need 23'10" of clearance over railroad (check with Rail Programs)
Description of Proposed Improvements: - Replace both bridges using crossovers for construction traffic control. - Raise grade for necessary clearance over the railroad (~3') - Have crossovers 0.5 miles north and south of bridges (at drainage structures if possible.) - The bridge will be at about a 60 degree skew (possibly (3)-100' steel girder spans, steel due to skew). - We will need pier protection by the railroad. Overbuild the piers to get rid of the fracture critical members.
Design Speed. 65 mph or moteh existing
Design Speed: 65 mph or match existing
Potential to transfer steel bridge beams to County (Oklahoma Statute Title 69 subsection 1001) Yes No Fully document specific reasons preventing transfer: NA D
Project Termini Beginning of Project: At Crossovers (~0.5 miles north and south) End of Project: Limits of Survey: From 500 feet West of the NS 285 Section Line, the survey will extend Northeasterly, along the existing US 81, to the EW 74.25 Sixteenth Section Line. Survey length approximately 1.2 miles. Survey width will be 200 feet Right and Left, widening to 500 feet Right

and Left, from 1000 feet before the bridge, to 1000 feet after the bridge. Tops of rails will be profiled 300 feet Right and Left.

Limits of NEPA Survey Area: Existing R/W- Same as length of survey to include crossovers.

Typical Section				
■ Open Section	□ Curb & Gu	itter	□ Divided, m	nedian width:
☐ Other (describe):				
Number of Lanes: 2	Lane Width:	12'		
Outside Shoulder Width: 10	' Inside Should	er Width: 4 '		
Storm Sewer No	□ Yes			
Sidewalks No	□ Yes	s, width: '		
Overlay No	□ Yes	s, thickness:		
Coldmill No	□ Yes	s, thickness:		
Add Shoulders □ No	■ Yes	s, width: 10' ou	itside, 4' inside	
Bridge Width 38'				
Alignment				
■ Existing				
□ New, located	□ North or	□ South or	□ East or	☐ West of existing
□ Parallel Lanes, located	□ North or	□ South or	□ East or	☐ West of existing
□ Spot Improvements				
☐ Horizontal, Description:				
■ Vertical, Description: Rais	e to clear RR			
Detou <u>r</u>				
☐ Shoo-fly, located	□ North or	□ South or	□ East or	☐ West of existing
□ Widening, located	□ North or	□ South or	□ East or	□ West of existing
■ Crossovers	□ Close Road	!		
□ Signed Detour, Route Des	cription:			
☐ Phased Construction, Desc	cription:			
Traffic Items				
Traffic Management Plan	No	□ Yes		
Median Barrier	No	□ Yes		
New Guardrail	□ No	■ Yes		
End Treatment	□ No	■ Type: GET		
Highway Lighting	■ No	□ Outside or	□ Med	dian
Traffic Signals	■ No	□ Location(s)	:	
Right-of-Way				
Additional RW Required	■ No	☐ Yes, describ	be:	
Utility Conflicts	■ No	□ Yes, describ	be: Terry Shrev	ve researching
<u>Miscellaneous</u>				
Channel Re-Alignment	No	☐ Yes, describ	oe:	

INITIATION ESTIMATE

Roadway:

\$ 1,034,000

Total Construction: \$

\$ 4,204,656

Bridge:

\$ 2,650,000

Traffic Control: \$

Right-of-Way:

\$ 5,000

Signing and Striping: \$
Highway Lighting: \$

Utility:

\$ 64,482

Highway Lighting: Traffic Signals:

\$

Total Estimate:

\$ 4,274,138

Mobilization: Staking:

\$ 209,200 \$ 77,864

Staking E & C:

\$ 233,592

PROGRAM REVISIONS

Estimate: \$

Letting Date:

Project Length:

Work Type: Description:

Attendee Name	Representing
Brian Taylor	Field Division Four
Joseph Echelle	Field Division Four
Bob Rusch	Bridge Division
Justin Hernandez	Bridge Division
Eduardo Elder	Roadway Design Division
Steven Bowen	Roadway Design Division
Tim Vermillion	Environmental Programs Division
Teresa Jones	Right-of-way Division
Leroy Tackett	Survey Division
Daniel Nguyen	Project Management Division
Chris Harlin	Field Division Four
Terry Shreve	Field Division Four
Roy Counts	Field Division Four
Brantley Hendrex	Field Division Four

Attachments (Aerial with Preliminary RW & County Map)

Distribution List:

Director of Engineering

Director of Capital Projects and Information Management

Bridge Division

Environmental Programs Division

FHWA

Field Division Four

Project Management Division

Right-of-Way Division

Roadway Design Division

Survey Division

Planning and Research Division

Traffic Engineering Division

OKLAHOMA DEPARTMEN		Suff. Rat	_
NBI No.: 16167 Structure No.: 3704 0:	543WX Local I	D:024A N	
Description: IDENTIFICATION 32',49',2-57',49',39' I-BM. SPANS WITH 2-1.5' SAFETY CU 1. State:Oklahoma 2. SHD District: Di 3. County Code: KINGFISHER 4. Place Code: Unkn Admin. Area: Unknown	vision 4	-	NSPECTION Freq: Insp. Date: Next Insp.: 24 6/23/2014 6/23/2016 24 6/23/2014 6/23/2016 NA NA NA
5. Inventory Route (Route On Structure): 1 - 2 - 1 - 000	81 - 0	OS Freq.: Y Y	24 6/25/2015 6/23/2017
6. Feature Intersected: UP R.R. UNDER 7. Facility Carried: U.S. 81 U.S. 81 9. Location: 5.3 MI N JCT SH 33 11. M 13. LRS Inv. Route./ Subroute.: 3704 W0093 02 16. Latitude: 35 55 54.00 17. Lo 98. Border Br. Code: Jnknown (P) % Resp.: 0 99. Bor STRUCTURE TYPE AND MATE 43. Main Span Material and Design Type	ile Post: 5.429 mi ngitude: 097 54 58.00 der Br. #: Unknown RIALS	12. Base Hwy Network: On Base Networl 21. Custodian: 01State Highway Agency 26. Eunctional Class: 02 Rural Other Prin	22. Owner: 01 State Highway Agency 37. Historical Sig.: 5 Not eligible for NRHP Con 101. Parallel Structure: Left of bridge 103. Temp. Structure: Not Applicable (P) 105. Fed. Land Hwy 0 N/A (NBI)
Steel 44. Approach Span Material and Design Type Unknown (NBI) 45. No. of Spans Main Unit: 6 46. No. of Approach 107. Deck Type: 1 Concrete-Cast-in-Place 108A. Wearing Surface: 6 Bituminous 108B. Membrane: 8 Unknown 108C. Deck Protection: 8 Unknown		58. Deck; 5 Fair 59. Su	CONDITION per.: 6 Satisfactory 60, Sub.: 5 Fair annel/Channel Protection: N N/A (NBI)
AGE AND SERVICE		LOAD RA	ATING AND POSTING
1	onstructed: -4 19. Detour Length: 0.1 mi 109. Truck ADT %: 25	64. Operating Rating (H / HS / 3-3): 66. Inventory Rating (H / HS / 3-3):	41. Posting status: A Open, no restriction n-Ton Alt. Op. Rating Meth.: 1 LF Load Factor-To 32.3 58.1 70.9 19.4 34.8 42.5 or-Ton Alt. Inv. Rating Meth.: 1 LF Load Factor-Toi Date Rated: 11/9/2011
GEOMETRIC DATA			SED IMPROVEMENTS
10. Inv. Rte. Min. Vert. Clr.: 328.1 ft 32. Approach Roadway Width (W/ Shoulders): 38.0 ft Deck Area: 9,375.4 sq. ft 33. Median: 0 34. Skew: 99 35. Structure F) No median ared: 0 No flare	94. Bridge Cost: \$868,618 95. Roadway Cost: \$1,433,220 96. Total Cost: \$2,432,131 97. Year of Cost Est.: 2009	75. Type of Work: 31 Repl-Load Capacit 76. Lgth. of Improvment: 360.9 ft 114. Future ADT: 4000 115. Year of Future ADT: 2033
47. Inv. Rte. Total Horiz. Clr.: 30.0 ft 48. Length Maximum Span: 57.1 ft 49. Structure 50A. Curb/Sdwlk Wdth L: 1.5 ft 50B. Curb/Side	walk Width R: 1.5 ft	NA 38. Navigation Control: NA-no waters 39. Vertical Clearance: 0.0 ft 111. Pier Protection: Not Applicable (P	40. Horizontal Clearance: 0.0 ft
51. Width Curb to Curb: 30.0 ft 52. Width Ou 53. Minimum Vertical Clearance Over Bridge: 328.1 ft 54A/54B. Min. Vert. Underclearance: R Railroad beneath st	t to Out.	36A. Bridge Rail: 0 Substandard	APPRAISAL 36C. Approach Rail: 0 Substandard
N/E S/W Meas. -1 -1 R2302 -1 Post. DO NOT U 55A/55B. Minimum Lateral Undrelearance R: R Railroad box	-1 -1 TI DO NOTI DO NOTI	36B. Transition: 0 Substandard 67. Str. Evaluation: 5 Above Min Tole 69. Underclearance, Vertical and Horiz 71. Waterway Adequacy: N Not applie	36D. Approach Rail Ends: 0 Substandard erable 68. Deck Geometry: 4 Tolerable contal: 6 Equal Minimum cable
55A/55B. Minimum Lateral Undrelearance L: 0.0 ft		72. Approach Alignment: 8 Equal Des 113. Scour Critical: N Not Over Water	way
200c. Temperature: 94 200d Weather: CLEAR	214a. Posted Weight Limit: b. Posted Speed Limit:	NR N	243. Girder Spacing/Number: -1.0 / -1 244. Span Lengths:
200d. Weather: CLEAR 201. Structural Steel ASTM Desig.: A36 20	 c. Narrow/One Lane Bridge d. Vertical Clearance Sign: 	sign: N NO	-1 -1 -1
202. Waterproof Membrane : -1	d. Vertical Clearance Sign. Advanced Warning Sign		-1 -1 -1
Date Installed: 1/1/1901 203. Type Exp. Dev.: Open Joint - No Device	Min. Measured Clearance Max. Measured Clearance	e: 2302 e: 2306	245. Girder Depth: -1.000 246. Type of Overlay: AC Over 246. Overlay Thickness: 4.0
204. Type of Handrail: Steel Post and Rail 205. Material and Quantity: 1123.0 208. Type of Abutment: Skeleton	e. Navigation Lights: Working/Not Working: 215. Overpass: C - US Highw		246. Overlay Date: 3/4/2008 246. Overlay Depth Changed > 1"? _ 247. Protective Systems: 1: _
Type of Foundation: Concrete Piling	221. Substructure Cond. (U/W) 222. Fill over RCB:): - -1	2: 3: _
209. Type of Pier / Found.: 2 Piers No No Piling or Drilled Shaft	223, Appr. Slab/Rdwy Cond.:	Satisfactory	4: 5: 248. No. of Field Splices w/ Corrosion : -1
No Piling or Drilled Shatt 210. Foundation Elev3.0 -3.0 -3.0 -3.0 -1.0	224. Critical Feature Type: 225. Paint Type: Overcoat:	477 Red Lead Ready 0	249. Scour Crit. POA exists?: 250. Culvert Headwall Dist.: -1.0
211. Wear. Surf. Prot. System : None	226. Date Painted:	6401	254. Thru Truss Type: 256. Chan. Profile Up/Down Stream?:
Date Installed: 1/1/1901	227. Paint Coloring:	Silver	257a. OkiePROS Auto. Truck Routing Yes
213, Utilities Attached: -1 -1 -1 -1 -1 -1 -1	233. Deck Forming: - 236. Deck Cleaning: -1 238. School Bus Rte: Current 240. Appr. Roadway Type: As	and Desired Route	258. Plans w/ found. are in file at ODOT 259. Scour Eval. is in file at ODOT 263. Interchange at Intersection
1	2-10. rsppt. Roadway 13po. 150		264. Interstate Milepoint -1.00

7/28/2015 Page 1 of 2

Bridge Inspection Report OKLAHOMA DEPARTMENT OF TRANSPORTATION -Health Index: Suff. Rating: 72.0 64.6 ND Local ID:024A Structure No.: 3704 0543WX NBI No.: 16167 Reported By: 6/25/2015 **ECINADR** Inspection Date: Inspected With: -1 Invoice No.: -1 Agency: Structure / Inspection Notes The bridge is a 6-span structure numbered from south-to-north: Span 1 - 32 ft steel multi beam; span 2 - 49 ft steel multi beam; spans 3 & 4 - 57 ft steel multi beam; span 5 - 49 ft steel multi beam; span 6 - 39 ft steel multi beam. OS Inspection Items Include: FC pier beam; floating bearings at piers 1 & 5. PX - Replace or retrofit the bridge rails, guardrails, transitions and end treatments; repair/replace leaking deck joint seals; restore contact between the beam ends and the bearings at Piers 1 and 5; remove pigeon debris from the pier beam bottom flange. FX - Monitor: pier beam section loss; cracking, spalling and delaminations in the substructure; floating bearings at piers 1 & 5. Additional

Elements

OKLAHOMA DEPARTMEN			TION	7 - B i Suff. R	Rating: '	Inspection 72.0	n Report Health Index: 63.7
NBI No.: 16159 Structure No.: 3704 05	543EX Local I	D:024			ND INSPE	CTION	03.7
Description: <u>IDENTIFICATION</u>		70	Insp Réq.	Insp Done	Freq:	Insp. Date:	Next Insp.:
30',44',2-57',42',35' I-BM. SPANS WITH 2-1.5' SAFETY CU	JRBS SKEW. VARIES	Type	insp Keq.	•		6/23/2014	6/23/2016
1. State:Oklahoma 2. SHD District: Div	vision 4	NBI:		N	24	6/23/2014	6/23/2016
3. County Code: KINGFISHER 4. Place Code: Unknown	own	FC Freq.:	Y	N	24		NA
Admin, Area: Unknown		UW Freq.:	N	N	NA	NA	6/23/2017
5. Inventory Route (Route On Structure): 1 - 2 - 1 - 000	81 - 0	OS Freq.:	Y	Y	24	6/26/2015	0/23/2017
6. Feature Intersected: UP R.R. UNDER					CLASSIF	ICATION	
7. Facility Carried: U.S. 81 U.S. 81		12 Roce H	ww Network	: On Base Net		20. Toll Facility: 3 C	n free road
9. Location: 5.3 MI N JCT SH 33	ile Post: 5.429 mi			Highway Agen	cv :	22. Owner: 01 State I	lighway Agency
13 LRS Inv. Route / Subroute.: 3704 0000 02		26 Euroti	anal Class.	02 Rural Other	Princ :	37. Historical Sig.: 5	Not eligible for NRHP
16 Latitude: 35 55 52.94 17. Los	ngitude: 097 54 58.00	100 Defen	se Highway	3 On STRAHN	VET Con	101. Parallel Structur	e: Right of bridge
98. Border Br. Code: Jnknown (P) % Resp.: 0 99. Bor	der Br. #: Unknown	102 Dir. o	Traffic:1 1	way traffic		103. Temp. Structure:	Not Applicable (P)
STRUCTURE TYPE AND MATE	RIALS	104 Highy	vay System:	1 On the NHS		105. Fed. Land Hwy	0 N/A (NBI)
43. Main Span Material and Design Type		110 Nation	nal Truck Ne	etwork: 0 Not p	art of na	112. NBIS Length: L	ong Enough
Steel Stringer/Girde	r			•			
44. Approach Span Material and Design Type						<u>DITION</u>	0.1 5 5-1-
Unknown (NBI) Unknown (P)	· Smann: O	58. Deck			. Super.: 5). Sub.: 5 Fair
45. No. of Spans Main Unit: 6 46. No. of Approach	i opans: V	62. Culve	ert: N N/A (NBI) 61.	. Channel/	Channel Protection:	N N/Y (NRI)
107. Deck Type: 1 Concrete-Cast-in-Place		Flowline					!
108A. Wearing Surface: 6 Bituminous		N/A					
108B. Membrane: 8 Unknown							
108C. Deck Protection: 8 Unknown						The second leading	
AGE AND SERVICE					RATING	AND POSTING	A Open, no restriction
27. Year Built: 1964 106. Year Rec	onstructed: -4	31. Desig	n Load: 5 N	IS 18 (HS 20)		41. Posting status: A	1 · 1 I.F I oad Factor-To
28A. Lanes on: 2 28B. Lanes Under: 0	19. Detour Length: 0.1 mi						n.: 1 LF Load Factor-To 70.9
29. ADT: 2500 30. Year of ADT: 2013	109. Truck ADT %: 25			(H / HS / 3-3):		32.3 58.1	
42A. Type of Service on: 1 Highway		66. Inven	tory Rating	(H/HS/3-3)	:	19.4 34.8	
42B. Type of Service under: 2 Railroad		65. Inv. R	ating Metho	od: 1 LF Load F	actor-Ton	Alt. Inv. Rating Met	h.:1 LF Load Factor-To
122. 1) po 01 01 01		70. Postir	g: 5 At/Abo	ove Legal Loads	3	Date Rated: 11/9/	2011
GEOMETRIC DATA				PRO	POSED IN	MPROVEMENTS	
10. Inv. Rte. Min. Vert. Clr.: 328.1 ft		94. Brid	ge Cost:	\$818,346		75. Type of Work	: 31 Repl-Load Capacity
32. Approach Roadway Width (W/ Shoulders): 38.0 ft			iway Cost:			76. Lgth. of Impre	
Deck Area: 8,751.1 sq. ft 33. Median:	0 No median	96. Tota		\$2,291,369		114. Future ADT:	4000
34. Skew: 99 35. Structure F	lared: 0 No flare	97. Year	of Cost Est	: 2009		115. Year of Future	ADT: 2033
47. Inv. Rte. Total Horiz. Clr.: 30.0 ft					NAVIGA	TION DATA	
48 Length Maximum Span: 57.1 ft 49. Structure		38 Na	zigation Cor	trol: NA-no w	aterway		
50A. Curb/Sdwlk Wdth L: 1.5 ft 50B. Curb/Side	ewalk Width R: 1.5 ft	39, Ver	tical Clearai	nce: 0.0 ft		40. Horizontal Cl	earance: 0.0 ft
51. Width Curb to Curb: 30.0 ft 52. Width Ou	t to Out: 33.0 ft	111. Pie	Protection:	Not Applicabl	le (P)	116. Lift Bridge Ve	ert. Clear.: 0.0 ft
53. Minimum Vertical Clearance Over Bridge: 328.1 ft					APPI	RAISAL	
54A/54B. Min. Vert. Underclearance: R Railroad beneath s	truc 24.5 ft	364 Br	idae Rail: 0	Substandard		36C. Approach Rail:	0 Substandard
N/E S/W		26D Te	neition: 0	Substandard		36D. Approach Rail I	Ends: 0 Substandard
D0100 1	-1 -1	67 Str	Evaluation	5 Above Min	Tolerable	68. Deck Geometry	r: 4 Tolerable
NOTE DO NOTE DO NO	TU DO NOTU DO NOTU	69 Un	derclearance	Vertical and F	Iorizontal:	6 Equal Minimum	
TOBE BOTTOTE TO		71 Wa	terway Ade	auacy: N Not a	pplicable		
55A/55B. Minimum Lateral Undrelearance R: R Railroad be	eneath struc 16.0 ft	72. Ap	proach Alig	nment: 8 Equal	Desirable	Crit	
56. Minimum Lateral Undrelearance L: 0.0 ft		113. Scc	our Critical:	N Not Over W	aterway		
						3. Girder Spacing/Nu	mber: -1.0 / -1
200c. Temperature: 80	214a, Posted Weight Limit:	NR N				4. Span Lengths:	
200d. Weather: CLOUDY	b. Posted Speed Limit : c. Narrow/One Lane Bridge				1	-1 -1	-1
201. Structural Steel ASTM Desig.: A36 20	d. Vertical Clearance Sign:	NO NO				-1 -1	-1
202. Waterproof Membrane :-1	d. Vertical Clearance Sign: Advanced Warning Sign				1	-1 -1	
Date Installed: 1/1/1901)			5. Girder Depth: -1.0	
203. Type Exp. Dev. : Open Joint - No Device	Min. Measured Clearance Max. Measured Clearance	• •				6. Type of Overlay:	
_			•			Overlay Thickness	
1		NO			1 . 7		4/26/2004
204. Type of Handrail: Steel Post and Rail	e. Navigation Lights:				24	6. Overlay Date :	
205. Material and Quantity: 1050.0	e. Navigation Lights : Working/Not Working :	NO			24	Overlay Depth Cha	anged > 1"? _
205. Material and Quantity: 1050.0 208. Type of Abutment: Skeleton	e. Navigation Lights : Working/Not Working : 215. Overpass : C - US Highw	NO ay			24 24	 Overlay Depth Cha Protective System 	anged > 1"? _ s: 1: _
205. Material and Quantity: 1050.0 208. Type of Abutment: Skeleton Type of Foundation: Concrete Piling	e. Navigation Lights: Working/Not Working: 215. Overpass: C - US Highw 221. Substructure Cond. (U/W	NO ay			24 24 2	6. Overlay Depth Cha 7. Protective Systems :	anged > 1"? s: 1: _ 3: _
205. Material and Quantity: 1050.0 208. Type of Abutment: Skeleton Type of Foundation: Concrete Piling 209. Type of Pier / Found.: 2 Piers No	e. Navigation Lights: Working/Not Working: 215. Overpass: C - US Highw 221. Substructure Cond. (U/W 222. Fill over RCB:	NO ray): - -1	sfactory		24 24 2 4	6. Overlay Depth Char. 7. Protective Systems:	anged > 1"? _ 3: 1: _ 3: _ 5: _
205. Material and Quantity: 1050.0 208. Type of Abutment: Skeleton Type of Foundation: Concrete Piling	e. Navigation Lights: Working/Not Working: 215. Overpass: C - US Highw 221. Substructure Cond. (U/W 222. Fill over RCB: 223. Appr. Slab/Rdwy Cond.:	NO ray): - -1	-		24 24 2 4 24	6. Overlay Depth Che 7. Protective Systems 1 2 8. No. of Field Splice	anged > 1"? s: 1: 3: 5: ss w/ Corrosion: -1
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7/28/2015 Page 1 of 2

Bridge Inspection Report OKLAHOMA DEPARTMENT OF TRANSPORTATION -Suff. Rating: 72.0 Health Index: 63.7 Structure No.: 3704 0543EX Local ID:024 ND NBI No.: 16159 Reported By: **ECINADR** 6/26/2015 Inspection Date: Inspected With: -1 Invoice No.: FBS1 Agency:

Structure / Inspection Notes

The bridge is a 6-span structure numbered south-to-north: span 1 - 30 ft long steel multi beam; span 2 - 44 ft long multi beam; spans 3 & 4 - 57 ft long steel multi beam; span 5 - 42 ft long steel multi beam; span 6 - 35 ft long steel multi beam. OS inspection items include: inspection of FC pier beam; erosion at NE wingwall; bearings not in contact with sole plates at pier 1 and excessive tilt of beam 4, pier 2, span 2 bearing.

PX – Replace the bridge rails, guardrails, transitions and end treatments; restore contact between the sole plates & bearings in span 1 at pier 1 (beams 1-3) and consider replacing stacked shim plates at beam 2 and resetting beam 2 bearing; repair/replace leaking deck joints; repair active erosion at NE wingwall; consider clean & spot paint portions of beams and pier beam with active corrosion and pitting; consider sealing substructure cracks and patching spalled/delaminated areas; regularly remove pigeon debris from the pier beam bottom flange.

FX – Monitor bearing at pier 2, beam 4, span 2 for excessive rotation; monitor spalling and delaminations in the substructure; erosion at NE wingwall; bearings not in contact with sole plates at pier 1 for distress.

Additional Elements

OKLAHOMA DEPARTMENT OF TRANSPORTATION

PROJECT STATUS SYSTEM

Logout

Home > List Projects > Edit Project	roject				Project
Environmental Proposed Bridge Related Projects Project Cost	osed Bridge	Related Projects	-	Project Revision Commitments	ommitments Right-of-Way DOCUMENT VAULT Local Government FHWA Project Status Justification
Edit PROJECT	2			Cancel	Project Information
Job Piece: 2984904					Proj. ID
PRODUCTION TARGETS	Planned	Actual Finish	Proj_Status	Condition Percent	2384904 J2-3849(004) 37 KINGFISHER 4 4 US081 11 BRIDGE & APPROACHES ant
Reconnaissance Data	09/17/2013		>		Project Location & Legislative Districts
7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -)(Ctrl. Start Lgth End Cong Senate House Location
EC Solicitation	06/09/2014		- Please Select - <	\supset	004 5.380 0.100 5.480 3 20 059 US 81; NB & SB BRIDGES OVER THE UP RAILROAD 5.3 MIS. N. OF SH 33
EC Contract	01/09/2015 EC No	9			Project Status
Survey	03/18/2015		- Please Select - V		8Year NHS FHWA Comm Fhwa Auth Let Award RW
Hydraulics	06/18/2015		- Please Select - V		CWP Sys. Oversight Appr. Auth FFY Date FFY
Drafimina vi roll vicaimina vi	2000				Programmed Yes 09/2012 - NoDate 2023 NoDate
	10/16/2015	3	- Please Select - <)(STIP & NEPA Information
RW & Utility Meeting	04/16/2016		- Please Select - V		MPA NEBA NEBA NEBA
NEPA Document	05/17/2016		- Please Select - V		Page Date Appr. FY Page Appr. Type Appr
Plans Submitted to R/W	06/16/2016		- Please Select - V)(
2000			100000000000000000000000000000000000000)(Project Budget & Plan Resource
K/w Phase		- Please Select - V N/A	N/A		Advanced Federal State Other Total Design Consultant NEPA Consultant
Legal Entry	07/06/2017		- Please Select - 🗸	C	\$0 \$5,600,000 \$1,400,000 \$0 \$7,000,000 - 000000000
Status of Demolition			N/A		-HWA Resources Assigned
Utility Out	11/09/2017		- Please Select - V		PMD Field FHWA NEPA Survey Materials Roadway Bridge Traffic RW Rail
Prepare Traffic Div. Request 03/02/2017	st 03/02/2017		- Please Select - V		
Final Field Review	09/28/2017		- Please Select - V)(Comments
404 Permit	11/09/2017		- Please Select - V		COMMINENTO
Plans Complete					Bridge Information
Ready to Let	11/16/2017		- Please Select - V		NBI# Status Co Ctl Milept Sd 18/167 Shah Bridde 37 004 05430
			Edit	Edit Resource and Comments	16159 State Bridge 37 004
Utility Information	1				1-2
Latest Utility Out Date					Consultant Resources

CE Document Checklist (Updated 8/25/14)

Should be included in the Other Section of all projects

	e included in the Other Section of		
JP No:	29349 (04)	Prepared by	T. Vermillion
County:	KINGPISHER	Checked by	Gaeg Worrely
Date	3-24-16		
Checked:	3-2-1-16		
No	Description		Checked?
1	Project Information		
		·	
1.1	Correct Project No? (Check a	gainst Oracle info)	
1.2		and the second s	
1.2	Correct NRI No 2 - Check aga	inst initiation report, Oracle, and plans	
H	Contest ND1 No.: - Check aga	inist initiation report, Oracle, and plans	
1.3	Location No. for County proje	cts only?	
	31 3	•	
	1.0	The special section of the	
1.4	Correct Field Division?		* , 1
	2		9.1
1.5		Check against Oracle info and make sure	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1.5	1 5	e plans. If it doesn't match, get the PM to	
44	fix the Oracle)		11 × 1
	`		
1.6	Construction Program/STIP/TI	P Checked?	
	9 8	10 10 V	
2	Existing Conditions		
4	Daisting Conditions		
2.1	If it is a roadway project, is the	roadway described first, then mentiona	
	any bridges mentioned within t	he project extent	
2.2	Are the existing bridge type (sp	oan or box), width for span bridges (or	
		onditions for each bridge correct? Check	
2.3	against GRIP info Correct approach roadway widt	ት ን	hohdes san
4.3	Correct approach roadway with		a Hubides ray
			3 4 12. 000
2.4	Any roadway geometric deficie	ncies?	
		7 2 15 17 17 1	
2.5	Traffic data from plans - existing	g and pojected?	
	, 1		
3	Purpose & Need		
3	Tur pose & reed	Marin Jan San B. J. J. J.	
3.1	Why is the project needed (NE)	VER what is proposed – REPLACE	
3		AY or ADD SHOUDERS is NOT the	Fig. 12 g of pr
	Purpose & Need)		
	r/		

5.10	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	T .
5.11	Is the biological studies included and any notes for species included in the commitments & at the end of the CE (Exception is swallows where we include the note itself in the CE under commitments)?	
5.12	Was there a 404 permit type determination done by the 404 permit coordinator for any projects which had > 0.5 AC o wetlands in the initial study? Is the 404 permit box checked (should be yes for all projects involving a bridge crossing a blue line)	manus de manus de
5.13	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?	
5.14	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"	
5.15	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	
5.16	Is the project location cirdled 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?	
5.17	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?	rate before
5.18	Were the plans checked for road closure? Include sheets which say road will not be closed for bridge joint, paint, etc. projects. If there is road closure, were letters sent out and all the comments addressed by Field Division?	· — ,
5.19	Does the "Other Section" include (1) initiation report for state projects or NEPA Checklist for Local Govt. projects, (2) property owner letter with list of property owners or letter from County Commissioner with list of property owners, (3) Any additional project coordination, (4), Oracle information sheet with federal funding info for County projects (4)bridge info from GRIP (5)BLM Letter and responses for state projects (6) BIA Letters and responses	