

Office 405 - 521-3050

Programmatic/Individual Categorical Exclusion

Date	11/05/2023	Project Number		J3-3821(004)	
County	Mayes	State	e Job Piece No:	33821(04)	
NEPA Project Manager	Erin Faulkner	Phor	ne Number	(405) 521-2315	
ODOT Field District	8	Bridge NBI No. (For County & State Projects) & Location No. (County Projects Only)		NA	
Project Description from JPINFO	Project Description from PAVEMENT REHABILITATION: SH-412B: FROM SH-69A TO US-412				
This project is included in	: (Check all applicable	X State 8 Year Construction Program			
ones)			County 5 Year Construction Program		
		Χ	State Transportation Improv	vement Program	
This project has federal fu	nds: (Check applicable	Χ	X Currently has Federal Funds		
one.)			Potential for Future Federal Funds		
This project is in	the Metropolitan	103			
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:

The existing SH-412B roadway has two 12 ft. wide asphalt driving lanes and 8 to 10 ft. wide asphalt shoulders. The pavement is in poor condition and there are sight distance deficiencies. The current Annual Average Daily Traffic (AADT) is 10,000 vehicles per day (vpd) with a future 20-year AADT 19,000.

Purpose & Need

The purpose & need of the project are to correct pavement deficiencies.

Alternatives considered & Proposed Improvement

The proposed improvement consists of rehabilitating the pavement of the existing 12 ft. wide asphalt driving lanes and 8 to 10 ft. wide asphalt shoulders, and variable width left turn lanes. Slight widening will occur on the south end of the project, where US-412 ties into the project to allow for turning vehicles from both 412 onto 412B and 412B going west onto 412. The road will remain open during construction and no new rights-of-way are required.

Did the project have public involvement (*Check the applicable items and include public involvement <u>summary</u> and supporting documents in the appendix)*

Property Owner Notification	Road Closure Letter		Public/Stakeholder Meeting
Legal Notice/Website Posting	Small City Letter	X	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.

	ria Identified in Section IV.A.1.b. of the 2019 FHWA/ODOT Programmatic Agreement f	or Proc	essing
	<u>gorical Exclusions that would require Individual Review and Approval by FHWA:</u> k Yes or No below. If the answer to any of the questions below is Yes, an Individual CE wil	l he requ	uired
	iption/Question	Yes	No
i.	Does the project result in capacity expansion of a roadway by addition of through lanes?		X
ii.	Does the project involve any permanent changes limits of access control or to the operation		
	of an Interstate highway, associated interchanges or ramps or requires an Access		Χ
	Justification Report (AJR)?		
iii.	Is the project not included in or is inconsistent with the statewide transportation		
	improvement program, and in applicable urbanized areas, the transportation improvement		Х
	program?		
iv.	Does the project involve acquisition of more than minor right-of-way not adjacent to the		X
	existing facility?		
V.	Does the project involve residential or commercial relocation?		Χ
vi.	Does the project include acquisition of land for hardship or protective purposes, or early		X
	acquisition pursuant to Federal acquisition project (23 U.S.C. § 108(d))		
vii.	Does the project have potential for disproportionately high and adverse impact on minority		
	or low-income populations, based on known demographics in the project vicinity, extent		Х
	of R/W, relocations, and other identified impacts?		
viii.	Does the project involve property in which another Federal Agency or Federally		X
	Recognized Tribe has ownership, oversight or any other encumbrance?		
ix.	Does the project involve a determination of adverse effect by Oklahoma State Preservation		N 7
	Office (SHPO) or a designated Tribal Historic Preservation Office (THPO) in accordance		Х
	with Section 106?		
Х.	Does the project involve a Programmatic Section 4(f) or de minimis finding which has not		Χ
:	been previously approved by FHWA?		
xi.	Requires the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act of 1965 (54 U.S.C. § 200305), the Federal Aid in Sport Fish Restoration		
	Act (16 U.S.C. 777-777k, 64 Stat. 430), the Federal Aid in Wildlife Restoration Act (16		
	U.S.C. 669-669i; 50 Stat. 917), or other unique areas or special lands that were acquired in		Х
	fee or easement with public-use money and have deed restrictions or covenants on the		
	property		
xii.	Does the project involve any impact on Noise Abatement Criteria (NAC) Category A, B,		
лп.	C or D receptors?		Χ
xiii.	Does the project involve a finding of "may effect, likely to adversely affect" determination		X
		1	

<u>Criteria Identified in Section IV.A.1.b. of the 2019 FHWA/ODOT Programmatic Agreement for Processing</u> Categorical Exclusions that would require Individual Review and Approval by FHWA:

Description/Question Yes No			
	under Section 7 of the Endangered Species Act or the Bald and Gold Eagle Protection Act		
	and can be processed as under programmatic agreement?		
	a. Does the project involve a Section 7 Formal Consultation Process prior to start of		v
	construction?		X
xiv.	Does the project require an Individual Section 404 Permit (This is generally for major		
	River Crossings, waters or wetlands impact greater than 3.0 AC, Projects with Formal		X
	Consultation, structures on new alignment or others as determined by USACE.)?		
XV.	Does the project involve construction across or adjacent to a river designated as a		X
	component in the National System of Wild and Scenic Rivers?		Λ
xvi.	Does the project require a Coast Guard Permit?		X
cvii.	Does the project involve an adverse impact on prime farmland where Natural Resources		
	Conservation Agency (NRCS) has required consideration of alternatives and measures to		X
	avoid and minimize impacts?		
viii.	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		X
	appropriate state or local authority?		
xix.	Does the project not conform to the State Implementation Plan which is approved or		
	promulgated by the U.S. Environmental Protection Agency in air quality non-attainment		X
	areas		
XX.	Does the project involve any known Superfund site?		X
xxi.	If the project involves road or bridge closure or ramp closure, do any of the following		
	conditions apply? (Check the boxes ONLY if the project involves road closure)		1
	a. No Access will be provided to local traffic or posted		
	b. Through traffic dependent businesses will be affected		
	c. The detour or closure will substantially alter the environmental consequences of		
	the action, such as by creating unsafe conditions on the detour route or requiring		
	additional work or expansion to detour routes to carry the additional traffic.		
	d. There is a public controversy associated with the detour or closure		
	e. The detour closure will interfere with special events or activities		v
xii.	Does the project have substantial public or agency controversy on environmental grounds?		X
	nation for Individual CE (If any of the answers above are YES):		
	for which the answer is YES		
Expla	nation that CE Classification is appropriate		
[tam f	or which the answer is YES		
	nation that CE Classification is appropriate		
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Pre-Construction Commitments:

The action may involve work in potentially jurisdictional waters and potentially jurisdictional wetlands. 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.

Right-of-Way and Utility Commitments

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

Construction Commitments

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

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

Cultural Resources Plan Note

Locations outside the project area in the following area must not be utilized for borrow, equipment staging, haul roads, spoil dumps or any off-site project-related activity.

T20N R19E: Section 10: NE¹/₄ Section 16: NE¹/₄ NE¹/₄ SE¹/₄

Species Plan Notes

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

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

American Burying Beetle Note: The American Burying Beetle is a large carrion burying beetle that occurs within the project limits. Artificial lighting may be used during construction for night activities if the equipment specifications outlined in Special Provision 656-5(a-b)19 for ABB are adhered to and measures to minimize use of artificial lighting have been implemented. Carcasses and all food trash shall continuously be removed from the permanent and temporary right-of-way throughout the duration of project activities. Pollution Prevention Requirements as specified by the Oklahoma Department of Environmental Quality General Permit OKRI0 for Storm Water Discharges shall be implemented when appropriate. Additionally, all equipment will be fueled, and all fuel and motor vehicle oil will not be stored within areas of native vegetation (ie. outside of ABB habitat).

Bat Lighting Note: All temporary lighting, if used, will be directed away from suitable bat habitat during the active season for bats (April 1- November 15). If any permanent lighting is installed or replaced, downward-facing full cut-off lens lights shall be installed and directed away from wooded areas and streams.

Bald Eagle Note: Suitable nesting, roosting or foraging habitat for the Bald Eagle occurs within the project's action area, and a nest was observed during field studies within 1000-ft of the south end of the project area. The Bald Eagle nesting season in Oklahoma extends from September 16, through May 31. The Resident Engineer shall contact the ODOT Biologist to schedule a nest survey. Nest search surveys can only be conducted when leaves are not on the trees typically between December 1st and February 28th. No work may occur within suitable Bald Eagle habitat, located between STA. 100+53.00 and STA 119+62.48, during the nesting season (September 16, through May 31) until the completion of the survey by the ODOT Biologist. If nests are observed, a no-work buffer up to a distance of 660 feet shall be placed around the nest. The exact distance of the buffer zone shall be established by the ODOT Biologist in consultation with US Fish and Wildlife Services. If the buffer cannot be maintained, all clearing, external construction and landscaping activities, within the buffer, shall be conducted between June 1 and September 15 (outside the nesting season).

Species (choose those that apply)	Seasonal Restriction Period
Bald Eagle	September 16 – May 31

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

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

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

Preparer/Reviewer Signatures		
In MAZ		11/5/2023
Environmental Consultant Project Manager (If Applicable)		Date
Olsson		
Environmental Consultant Firm Name (If Applicable)		Date
County Commissioner or City Manager		Date
(For Local Government Projects)		
ODOT NEPA Project Manager		Date
ODOT Environmental Programs Assistant Division Manager		Date
ODOT Environmental Programs Division Manager		Date
CONCLUSION:		
ODOT has reviewed the conditions identified in Section IV.A.1.b of		
Federal Highway Administration 2019 (FHWA)/ODOT Programmatic		YES
Agreement for Processing Categorical Exclusions (CE) and determined that an Individual CE must be submitted to FHWA for approval.	X	NO

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

Environmental Programs Manager, FHWA	Date

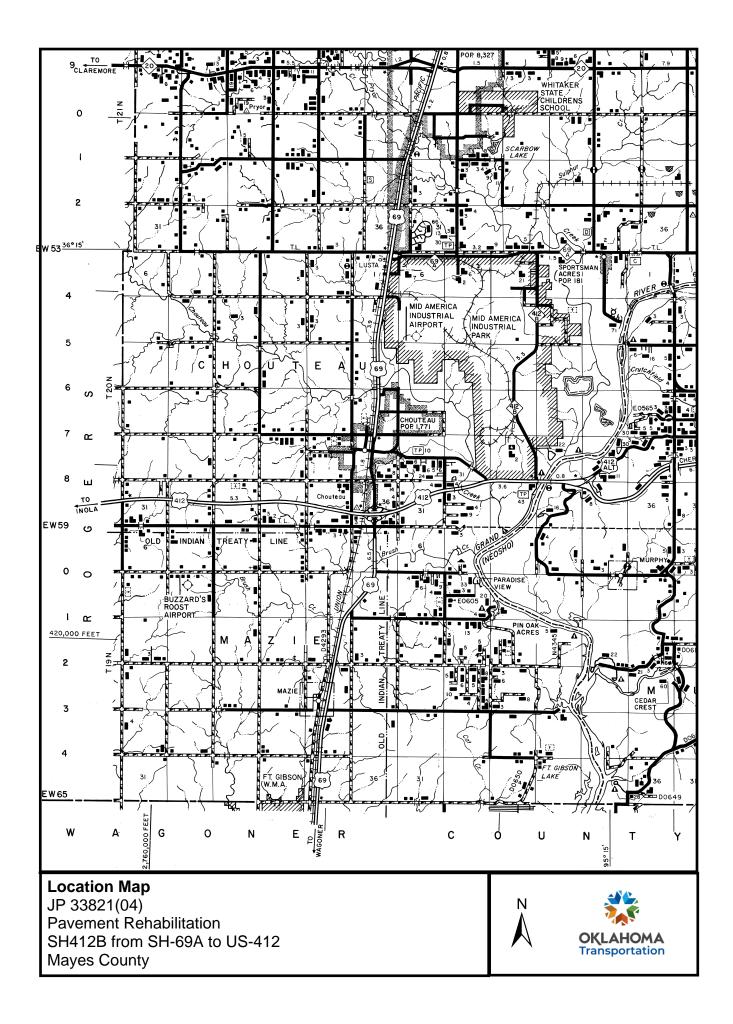
Attachments:

- 1. Location Map
- Current Plans and Study Footprint
 Studies and Coordination

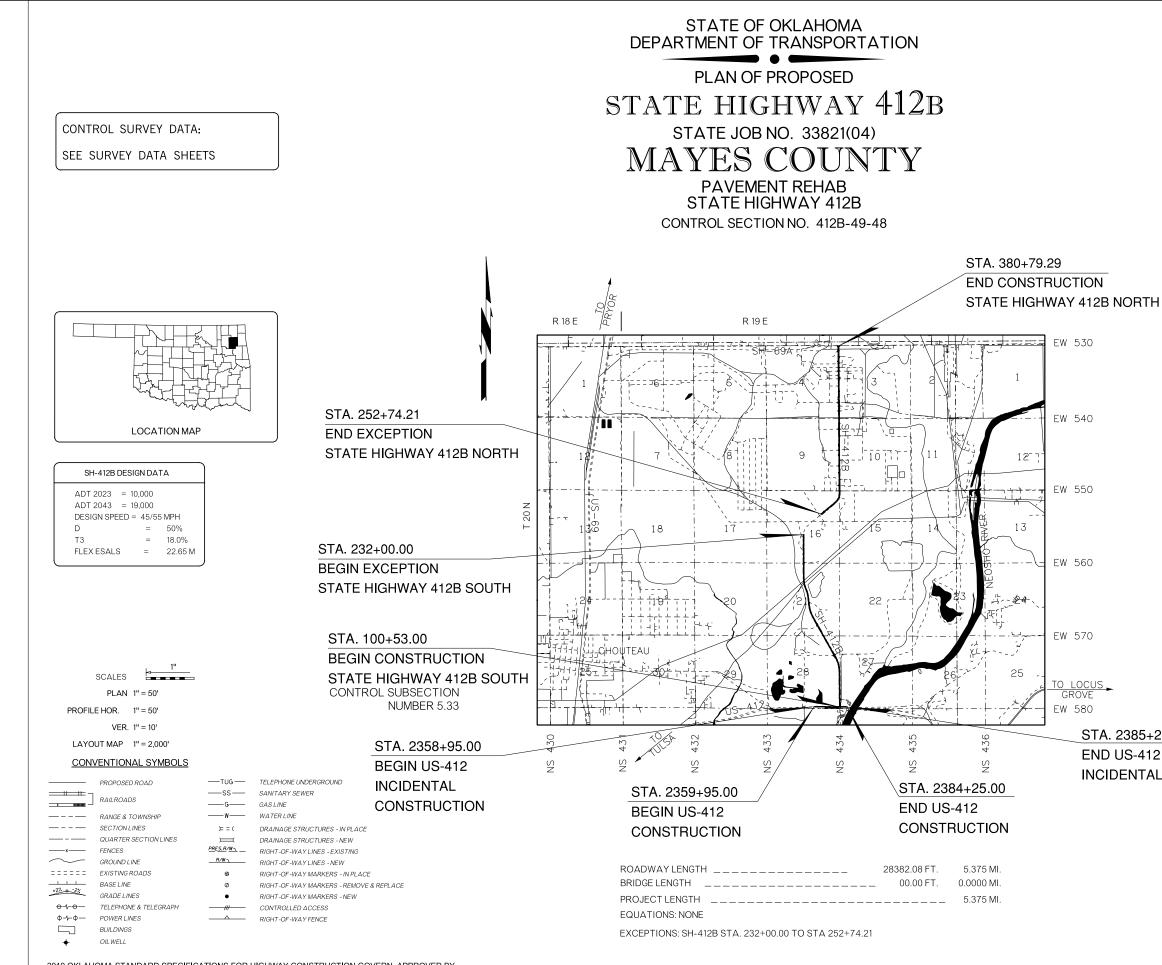
4. Other Section – Initiation Memo; QA/QC Checklist

Distribution List (Check Applicable Ones)

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



RIGHT-OF-WAY PLANS OR FINAL PLANS AND NEPA STUDY FOOTPRINT OR STUDY PLANS

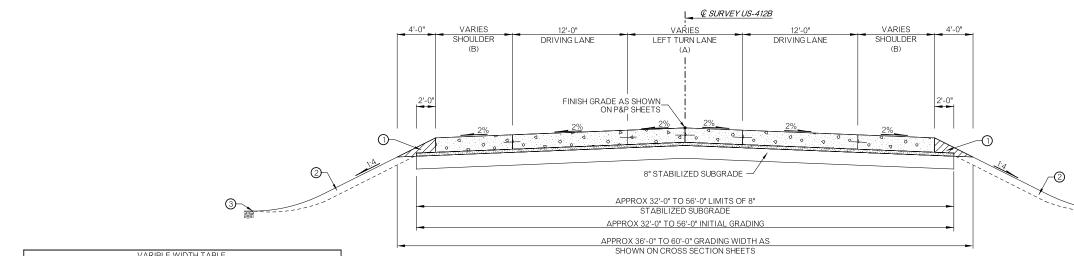


2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, DECEMBER 18 2019.

OKLAHOMA DEPARTMENT OF TRANSPORTATION) OKLAHOMA DEPARTMENT OF TRANSPORTATION THIS DOCUMENT IS PRELIMINARY PROPOSED IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT. R/W 11/3/2023 11/3/2023

INDEX OF SHEETS	
DESCRIPTION	SHEET
TITLE SHEET	001
TYPICAL SECTIONS	002-004
GEOMETRIC DATA	R001-R007
PLAN AND PROFILES	R008-R027
SURVEY DATA SHEETS	S001-S014
CROSS SECTIONS	X001-X086

25.00 2 AL CONSTRUCTION	
olsson	ARED BY: ON, INC.
1717 S. BOULDER, SUITE 600 TULSA, OKLAHOMA 74119 C.A. 2483 EXP. 06-30-2025	. BEATY , P.E. G. NO. 20685
OKLAHOMA DEPARTMENT OF TRANSPO	 DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED	DATE APPROVED
CHIEF EI	 DIVISION ADMINISTRATOR

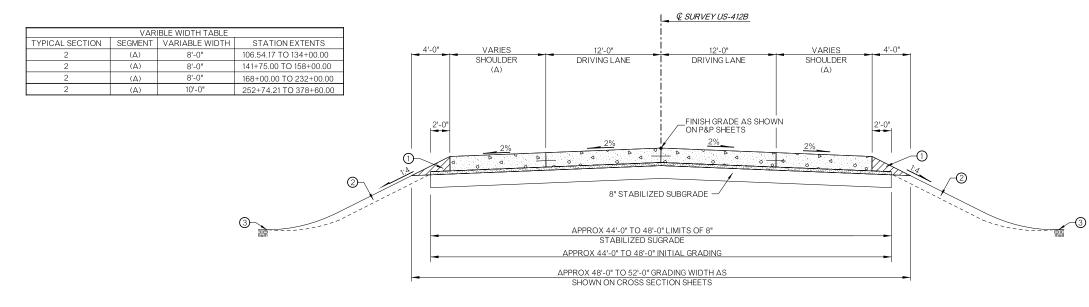


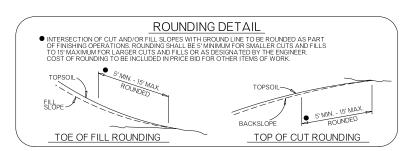
VARIBLE WIDTH TABLE				
TYPICAL SECTION	SEGMENT	VARIABLE WIDTH	STATION EXTENTS	
1	(A)	12'-0"	100+53.00 TO 105+00.00	
1	(A)	12'-0" TO 0'-0"	105+00.00 TO 106+54.17	
1	(B)	2'-0"	100+53.00 TO 105+00.00	
1	(B)	2'-0" TO 8'-0"	105+00.00 TO 106+54.17	

TYPICAL NO. 1
STATE HIGHWAY412B

STA. 100+53.00 TO STA. 106+54.17

PAVEMENT REQUIREMENT				
11" PAVT. STRUCTURE	12'-0" DRIVING LANES	8'-0" PAVED SHOULDERS		
SURFACE COURSE	9" DOWEL JOINTED P.C. CONCRETE	9" P.C. CONCRETE PAVEMENT		
BASE COURSE	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)		





TYPICAL NO. 2 STATE HIGHWAY412B

STA. 106.54.17 TO STA. 134+00.00 STA. 141+75.00 TO STA. 158+00.00 STA. 168+00.00 TO STA. 232+00.00 STA. 252+74.21 TO STA. 378+60.00

PAVEMENT REQUIREMENT				
11" PAVT. STRUCTURE	12'-0" DRIVING LANES	8'-0" PAVED SHOULDERS		
SURFACE COURSE	9" DOWEL JOINTED P.C. CONCRETE	9" P.C. CONCRETE PAVEMENT		
BASE COURSE	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)		

OKLAHOMA DEPARTMENT OF TRANSPORTATION)	OKLAHOMA DEPARTMENT OF TRANSPORTATION
THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.	PROPOSED R/W
11/3/2023	11/3/2023



(1) BACKFILL NOTE: TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN UNCLASSIFIED BORROW

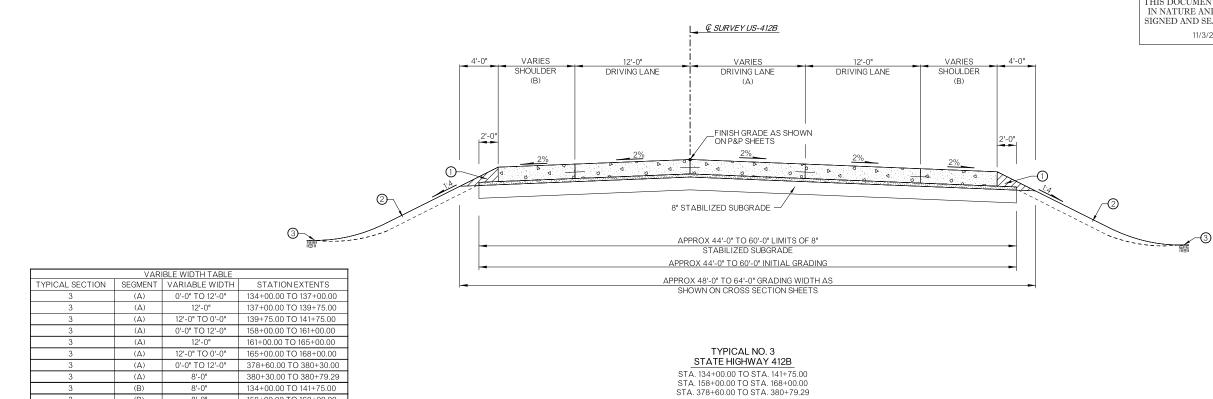
(2) TOPSOIL NOTE:

THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENSINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SAL VAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.

(3) SEE ROUNDING DETAIL THIS SHEET

DESIGN			OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN			
CHECKED			
APPROVED			
SQUAD			
COUNTY_	F	ROGERS	НІGHWAY STATE JOB NOЗЗ821(04)SHEET NO002



PAVEMENT REQUIREMENT					
11" PAVT. STRUCTURE	12'-0" DRIVING LANES	8'-0" PAVED SHOULDERS			
SURFACE COURSE	9" DOWEL JOINTED P.C. CONCRETE	9" P.C. CONCRETE PAVEMENT			
BASE COURSE	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)			

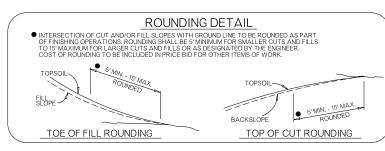
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TYPICAL SECTION	SEGMENT	VARIABLE WIDTH	STATION EXTENTS
3	(A)	0'-0" TO 12'-0"	134+00.00 TO 137+00.00
3	(A)	12'-0"	137+00.00 TO 139+75.00
3	(A)	12'-0" TO 0'-0"	139+75.00 TO 141+75.00
3	(A)	0'-0" TO 12'-0"	158+00.00 TO 161+00.00
3	(A)	12'-0"	161+00.00 TO 165+00.00
3	(A)	12'-0" TO 0'-0"	165+00.00 TO 168+00.00
3	(A)	0'-0" TO 12'-0"	378+60.00 TO 380+30.00
3	(A)	8'-0"	380+30.00 TO 380+79.29
3	(B)	8'-0"	134+00.00 TO 141+75.00
3	(B)	8'-0"	158+00.00 TO 168+00.00
3	(B)	10'-0" TO 2'-0"	378+60.00 TO 379+30.00
3	(B)	2'-0"	379+30.00 TO 380+30.00
3	(B)	2'-0" TO 5'-0"	380+30.00 TO 380+79.29

		6'-3"	10'-0"	VARIES	56'-0" <u>Q SURVEY US-412</u>
			SHLDR	DRIVING LANE (A)	
		2'-0"			- MATCH EXISTING
			- b	2%	
	2		<u>d</u> <u>d</u> <u>d</u> <u>-</u>		
5.00).00 5.00	3	-	APPROX 13'-5" TO 2		EXISTING PAVEMENT
			STABILIZED S APPROX 13'-5" TO 25'-		
		APF	PROX 16'-3" TO 28'-3" GR SHOWN IN CROSS SEC		-
				TYPICAL NO. 4	

US 412 WEST BOUND STA. 2359+95.00 TO STA. 2384+25.00

PAVEMENT REQUIREMENT				
11" PAVT. STRUCTURE	12'-0" DRIVING LANES	8'-0" PAVED SHOULDERS		
SURFACE COURSE	9" DOWEL JOINTED P.C. CONCRETE	9" P.C. CONCRETE PAVEMENT		
BASE COURSE	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)		

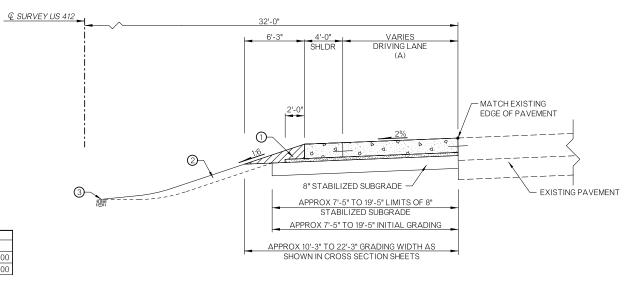
VARIBLE WIDTH TABLE				
TYPICAL SECTION	SEGMENT	VARIABLE WIDTH	STATION EXTENTS	
3	(A)	0'-0" TO 12'-0"	2359+95.00 TO 2362+95.00	
3	(A)	12'-0"	2362+95.00 TO 2383+00.00	
3	(A)	12'-0" TO 0'-0"	2383+00.00 TO 2384+25.00	





	BACKFILL NOTE: TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN UNCLASSIFIED BORROW
(2)	TOPSOIL NOTE: THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.
	THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.
(3)	SEE ROUNDING DETAIL THIS SHEET

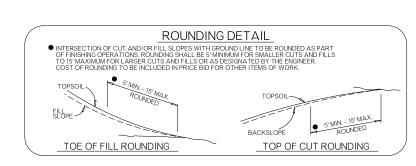
DESIGN			OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
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APPROVED			SHEET 2 OF 3)
SQUAD			
COUNTY_	1	ROGERS	НІДНШАЧ <u>412</u> В STATE JOB NO. <u>33821(04)</u> SHEET NO. <u>003</u>



TYPICAL NO. 5	
US 412 EAST BOUND	
STA. 2368+25.00 TO STA. 2377+90.	00

PAVEMENT REQUIREMENT							
11" PAVT. STRUCTURE	12'-0" DRIVING LANES	8'-0" PAVED SHOULDERS					
SURFACE COURSE	9" DOWEL JOINTED P.C. CONCRETE	9" P.C. CONCRETE PAVEMENT					
BASE COURSE	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)	2" SUPERPAVE, TYPE S3 (PG 64-22 OK)					

VARIBLE WIDTH TABLE								
TYPICAL SECTION	SEGMENT	VARIABLE WIDTH	STATION EXTENTS					
4	(A)	0'-0" TO 12'-0"	2368+25.00 TO 2370+25.00					
4	(A)	12'-0"	2370+25.00 TO 2377+90.00					



DESIGN			OKLAHO		PARTMENT C		DRTATION	1
DRAWN				NUF	DVAT DL310	IN DIVISION		
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APPROVED				ΙY	(SHEET 3 OI			
SQUAD						,		
COUNTY_	R	OGERS	HIGHWAY	412B	_ STATE JOB NO	33821(04)	SHEET NO.	004

/		
((3)	SEE ROUNDING DETAIL THIS SHEET

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.

COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

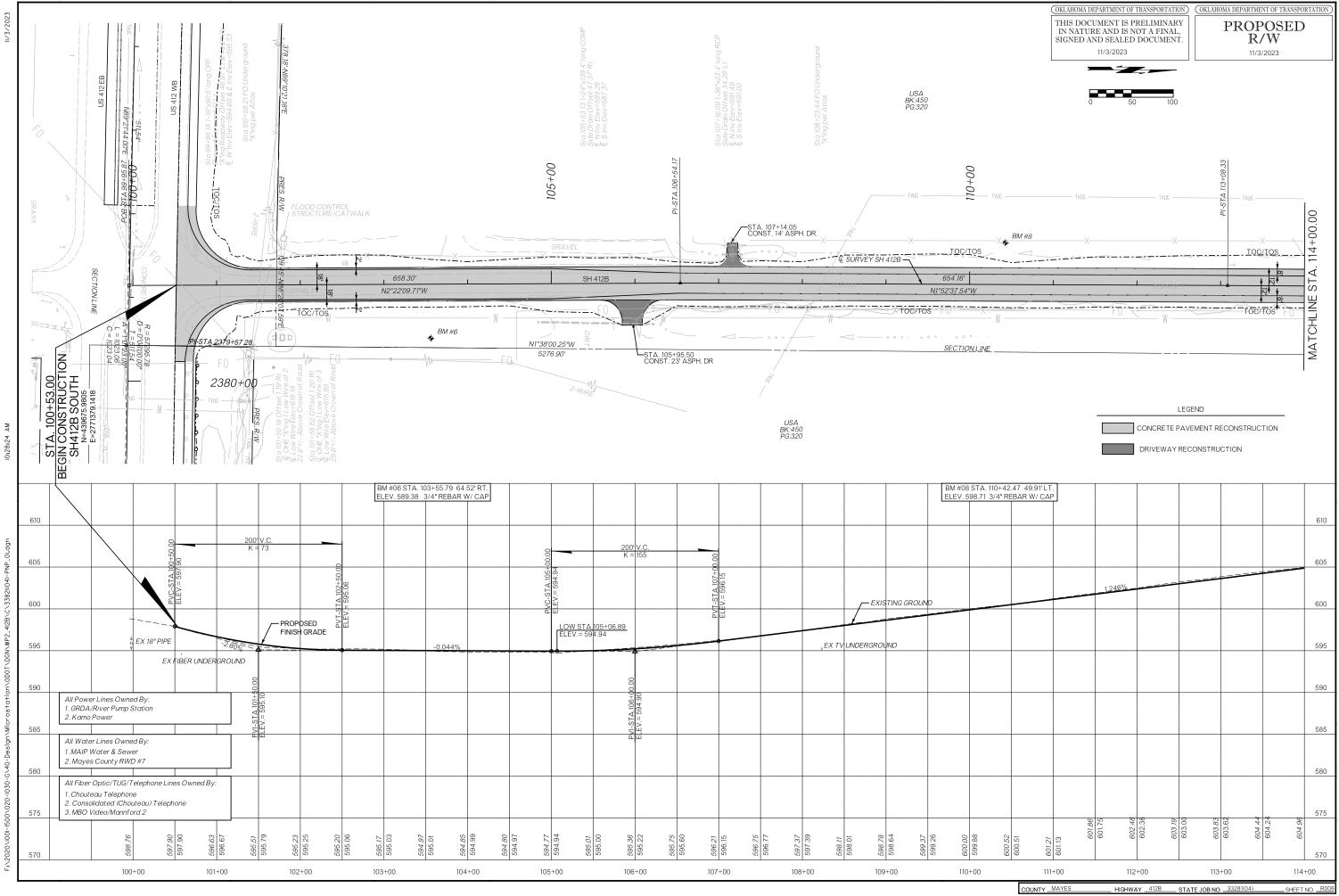
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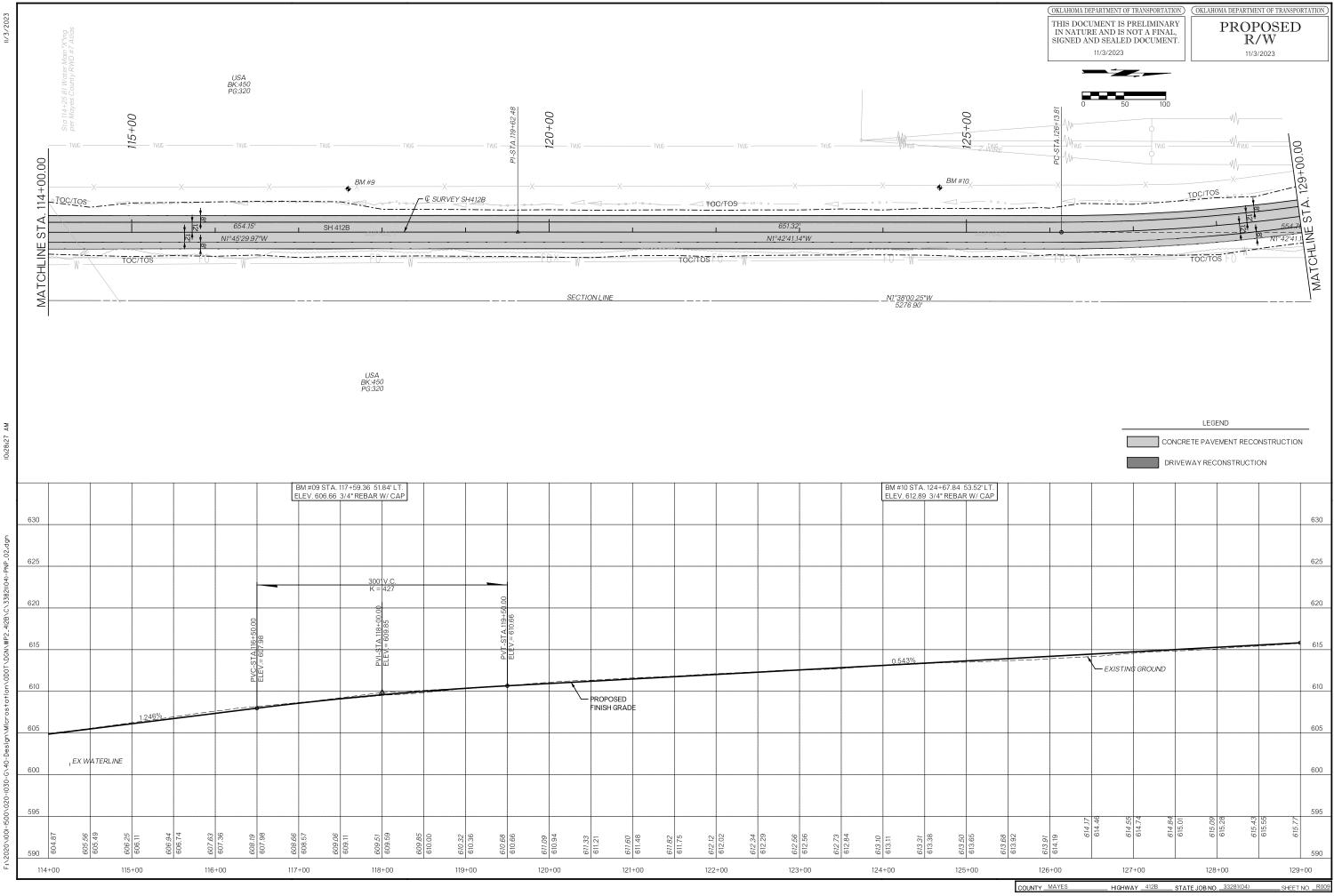
QUANTITY IS MEASURED IN UNCLASSIFIED BORROW

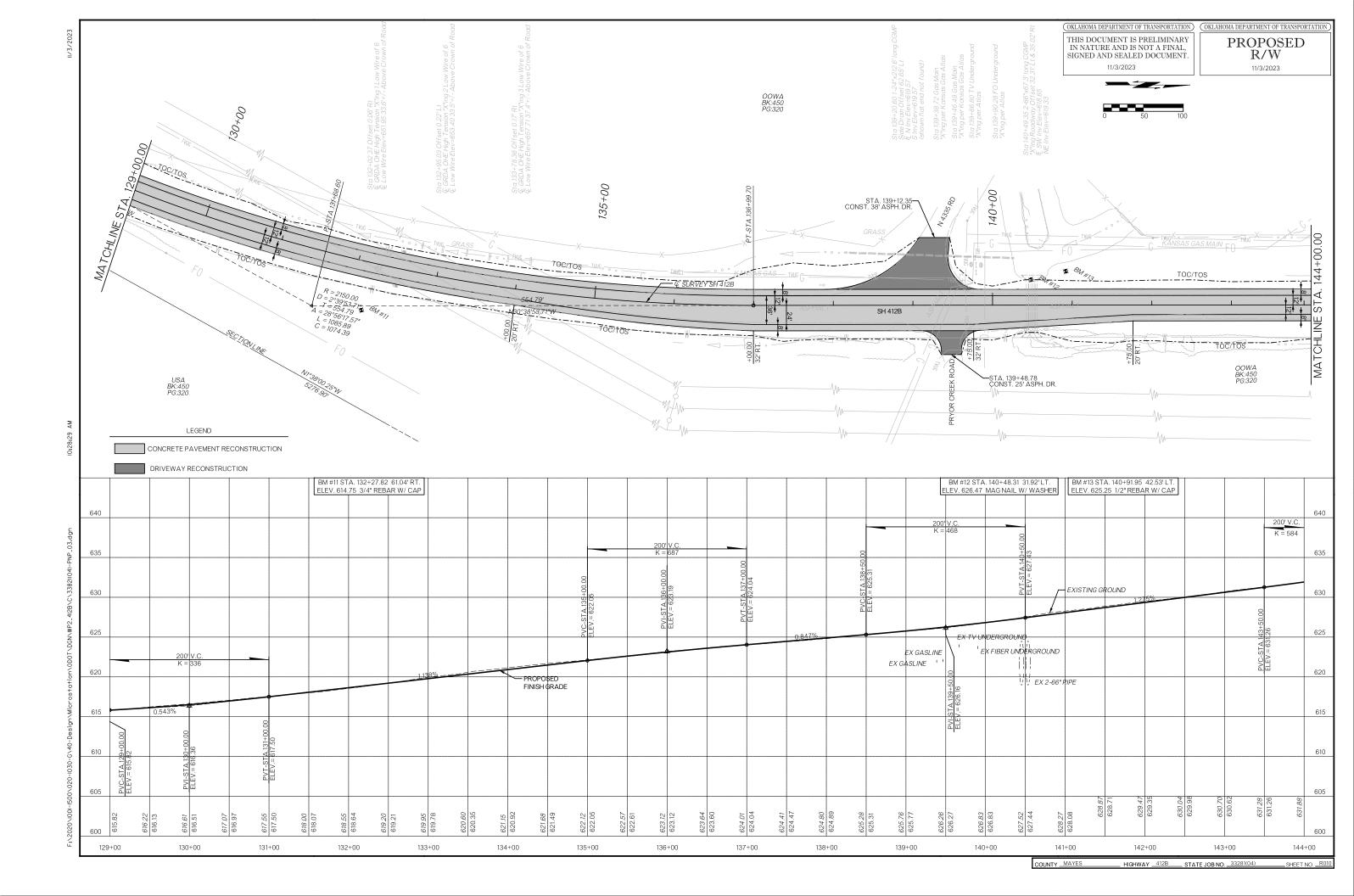
(1) BACKFILL NOTE: TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS.

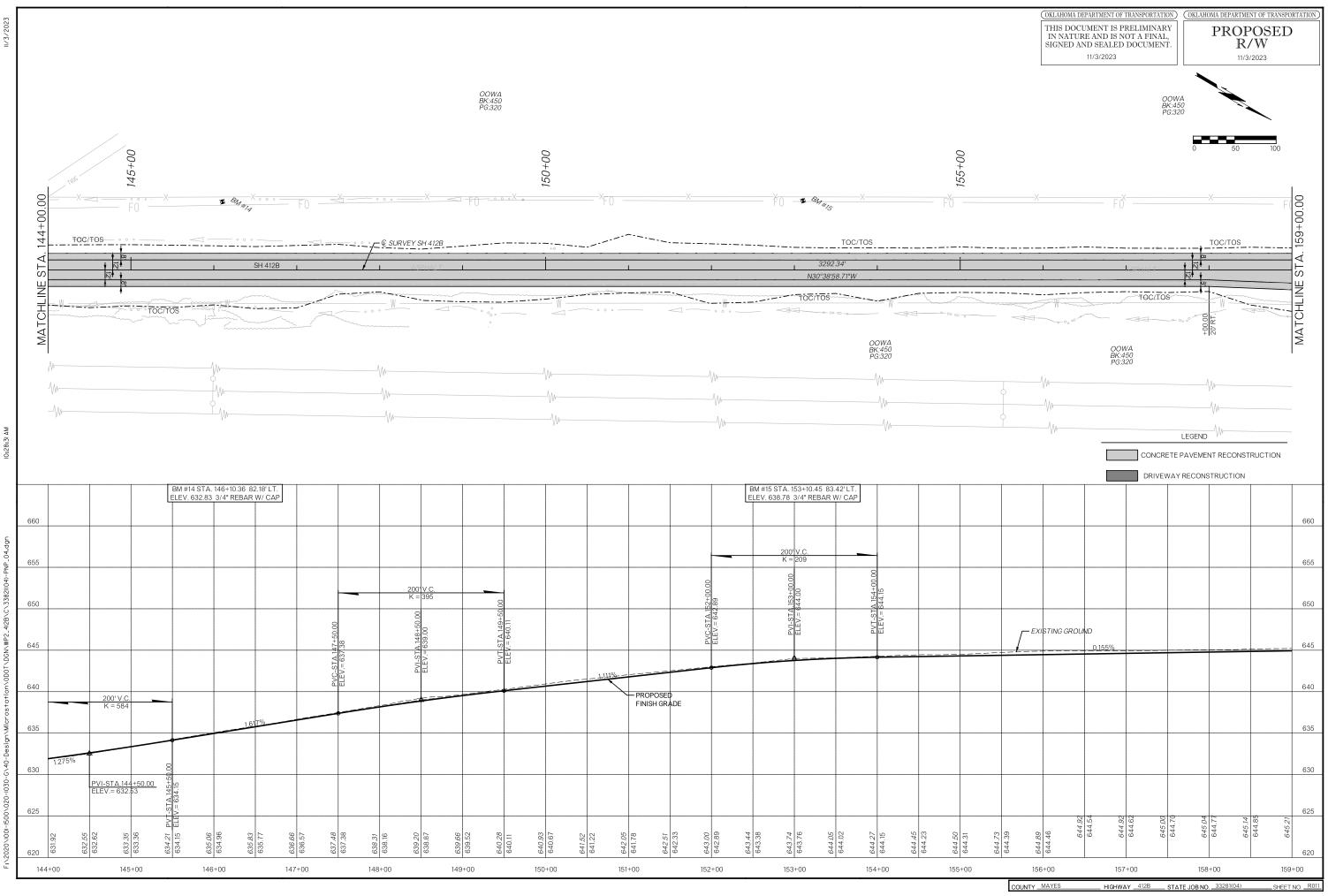
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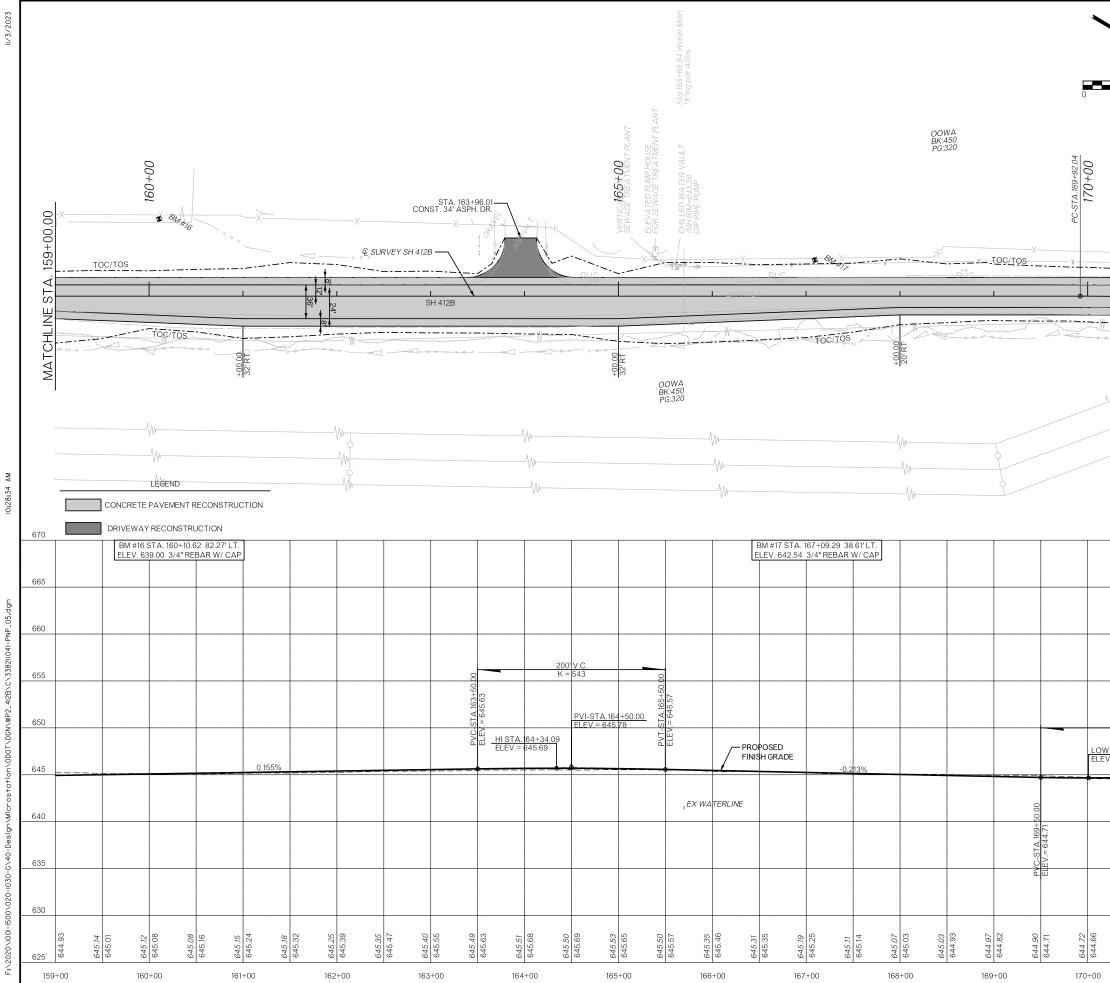
R/W 11/3/2023









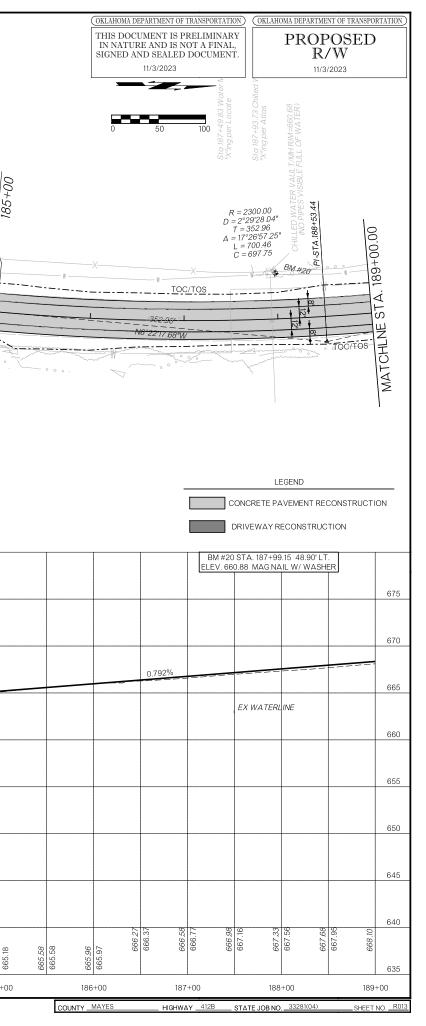


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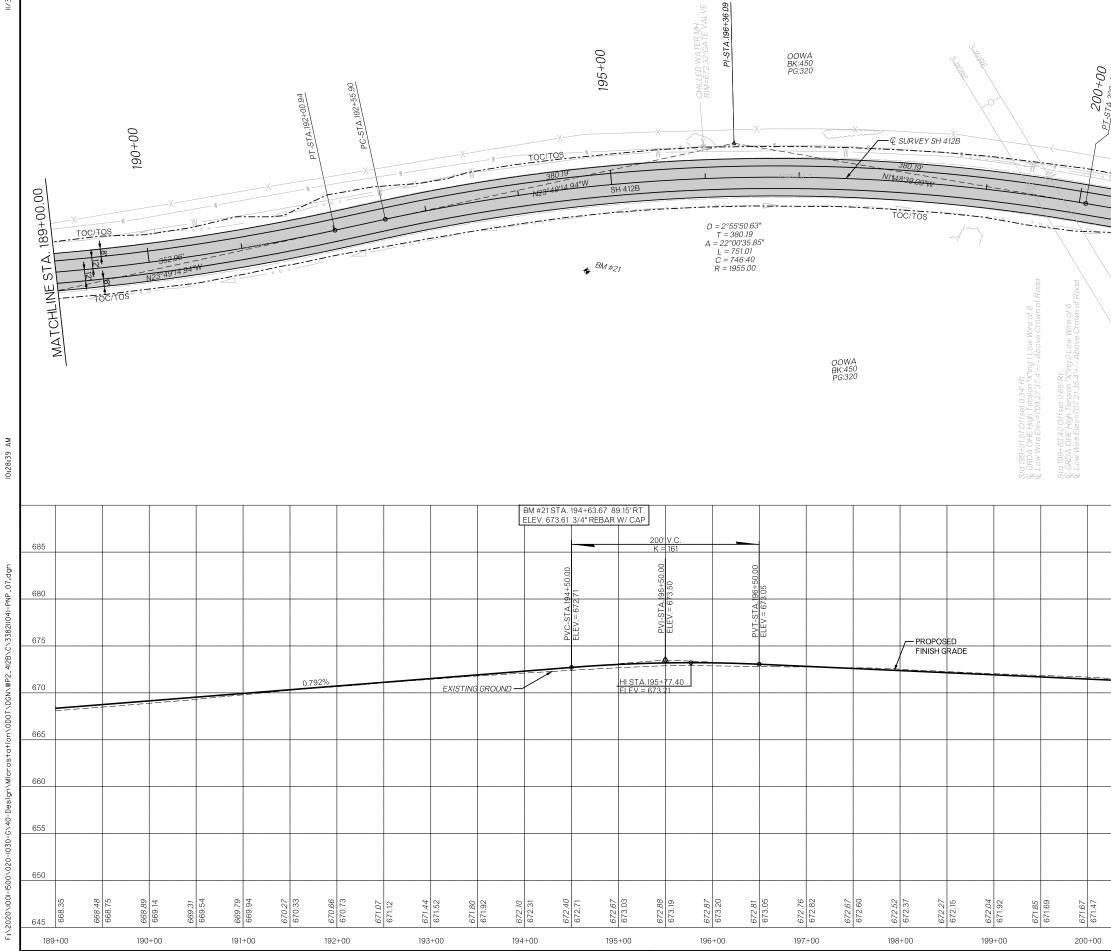
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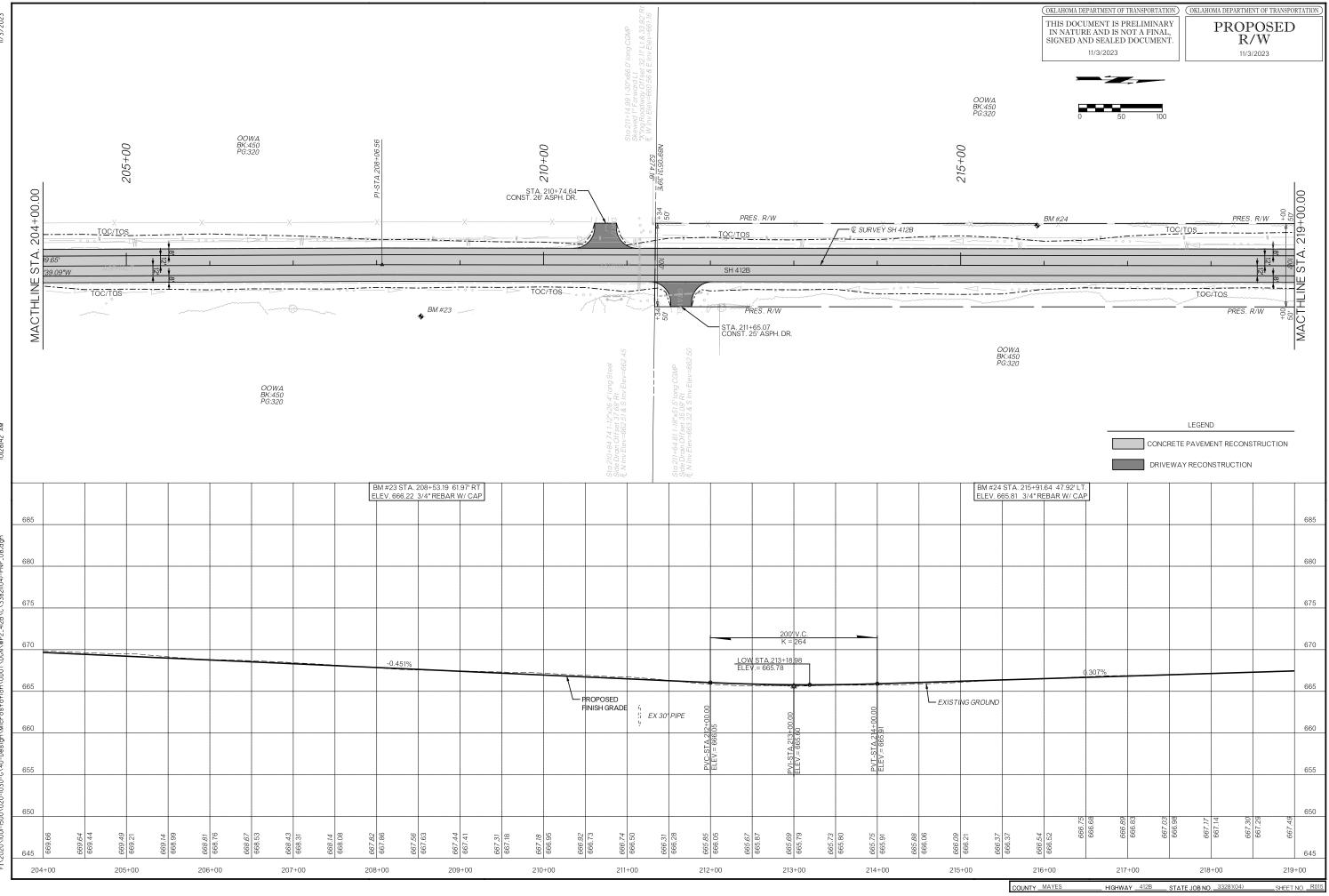


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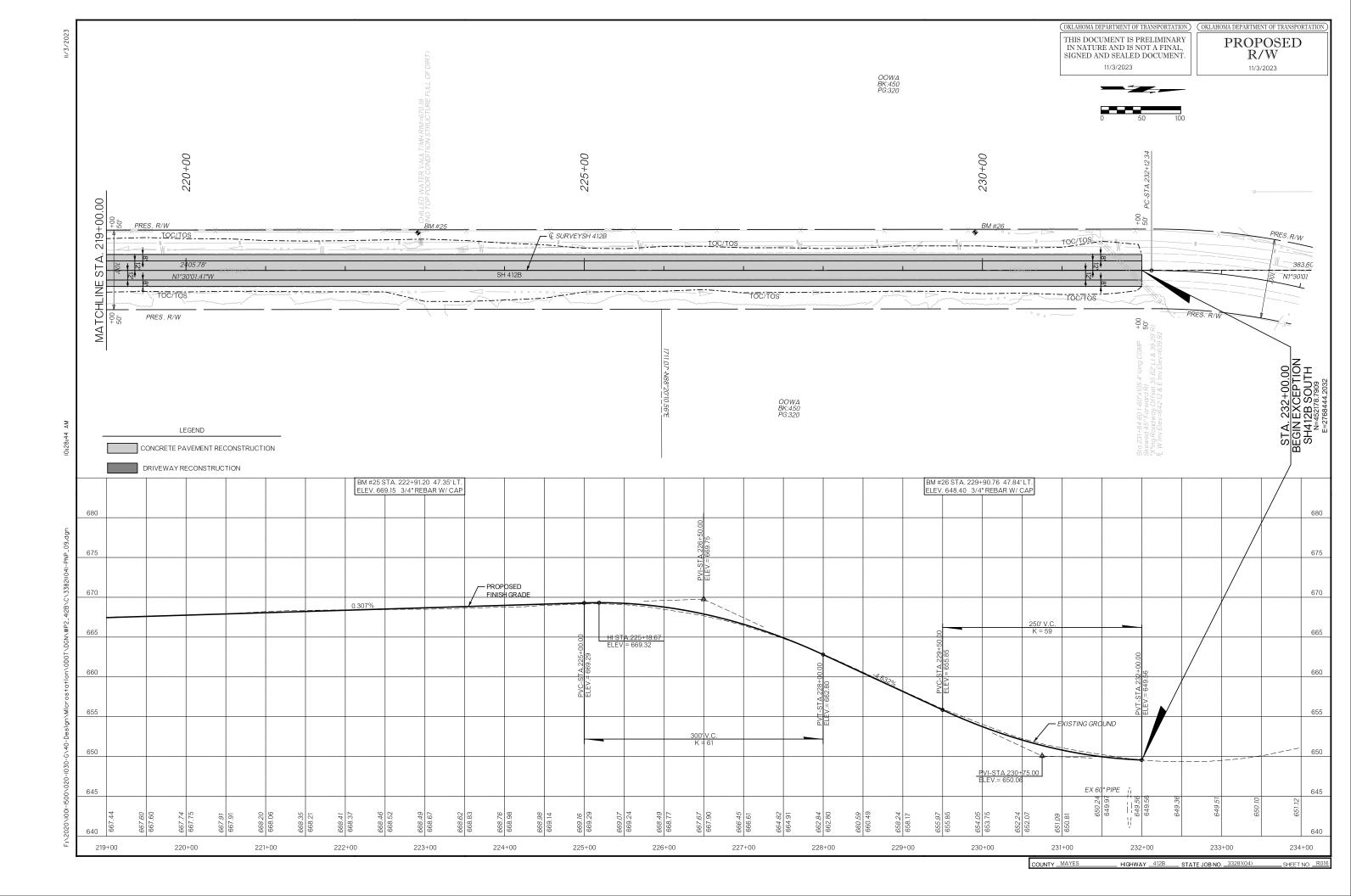
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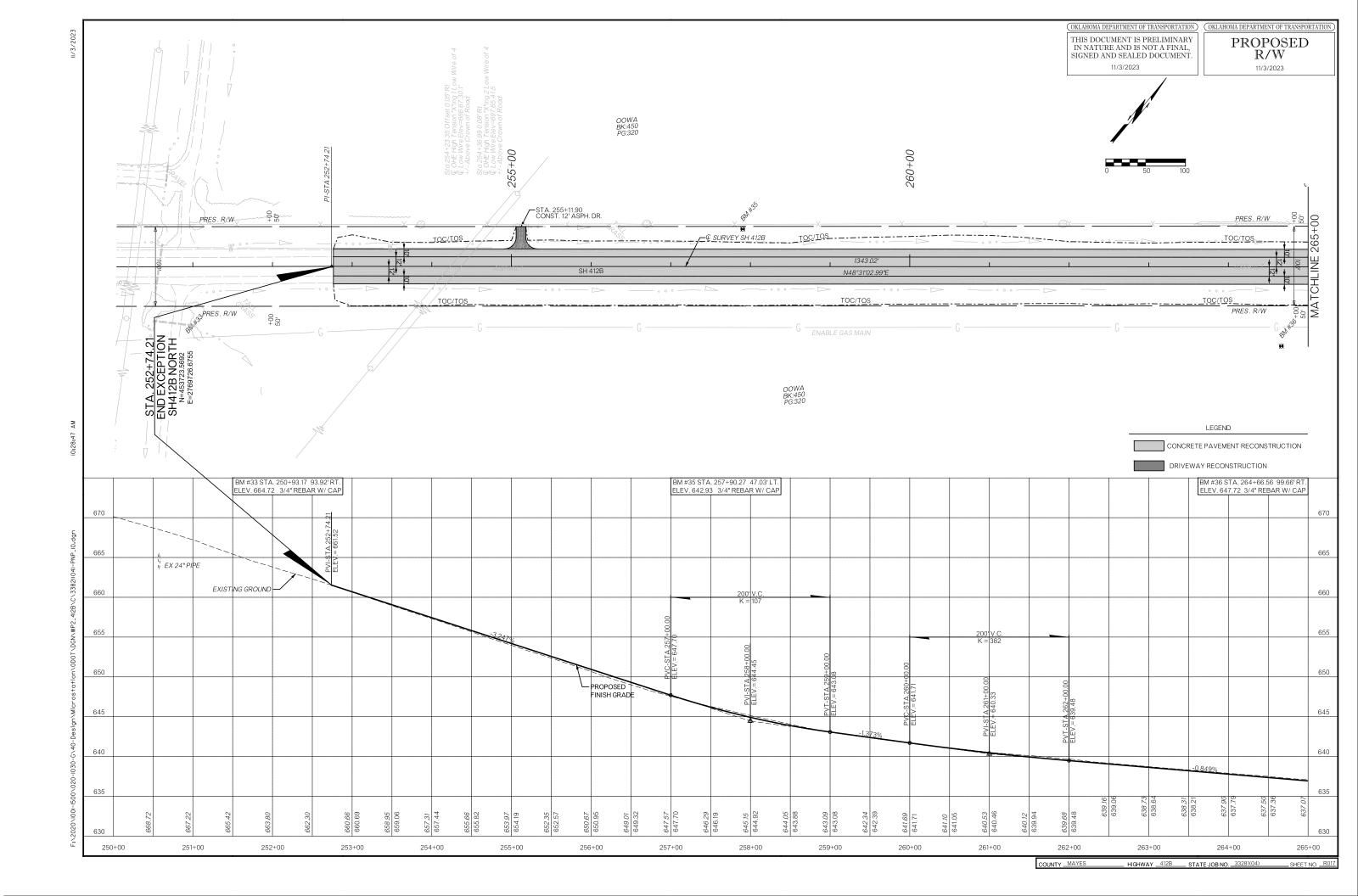


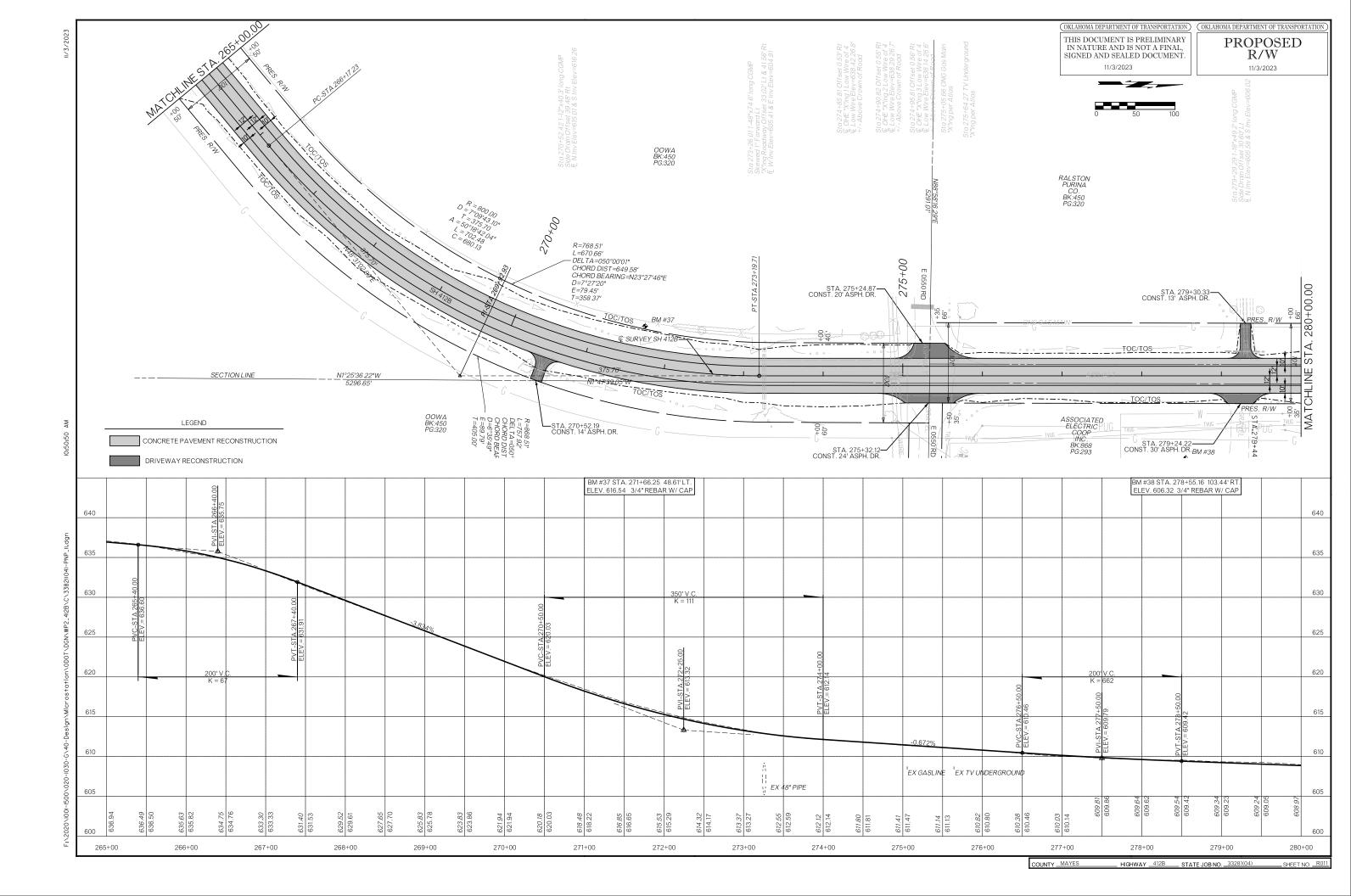
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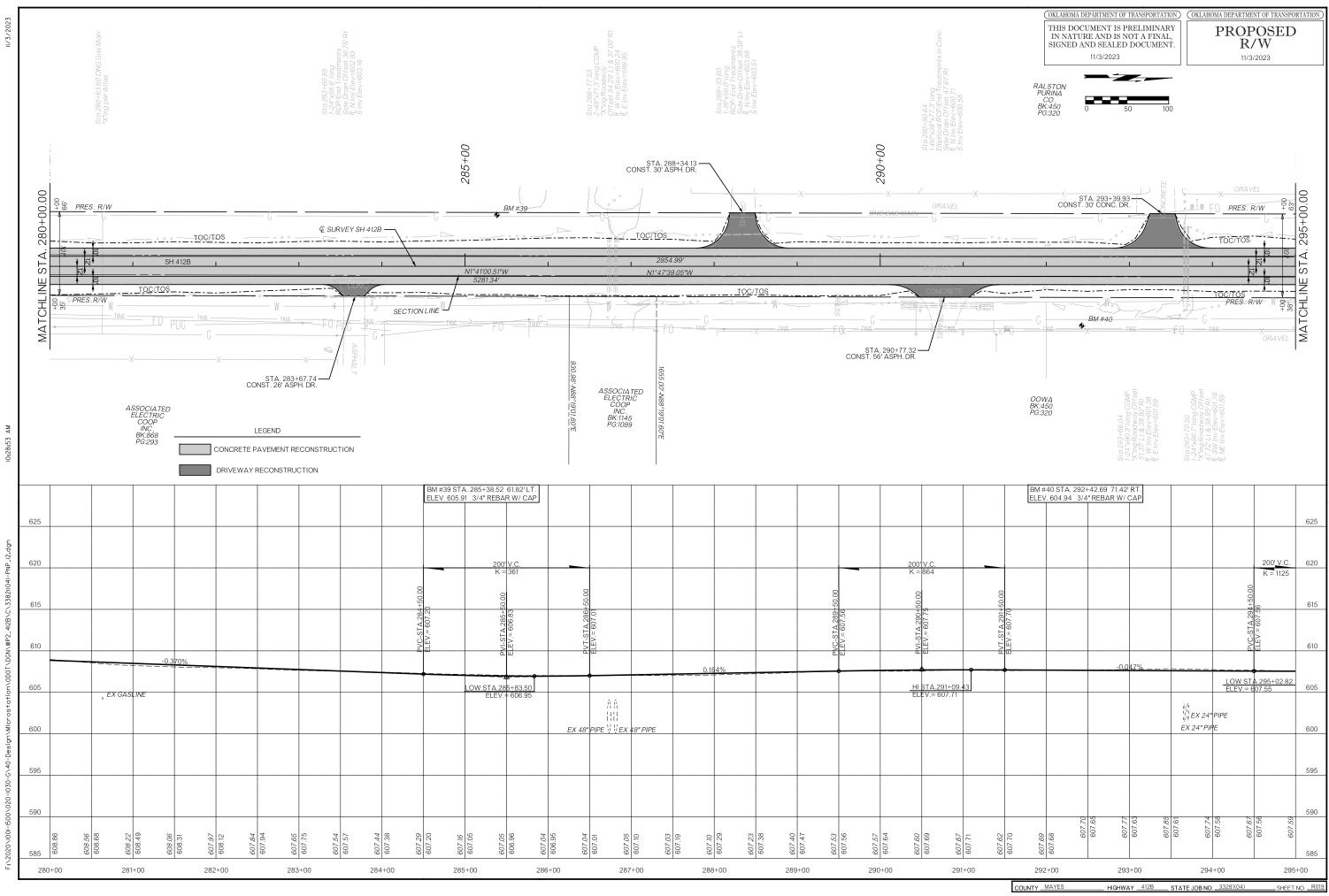
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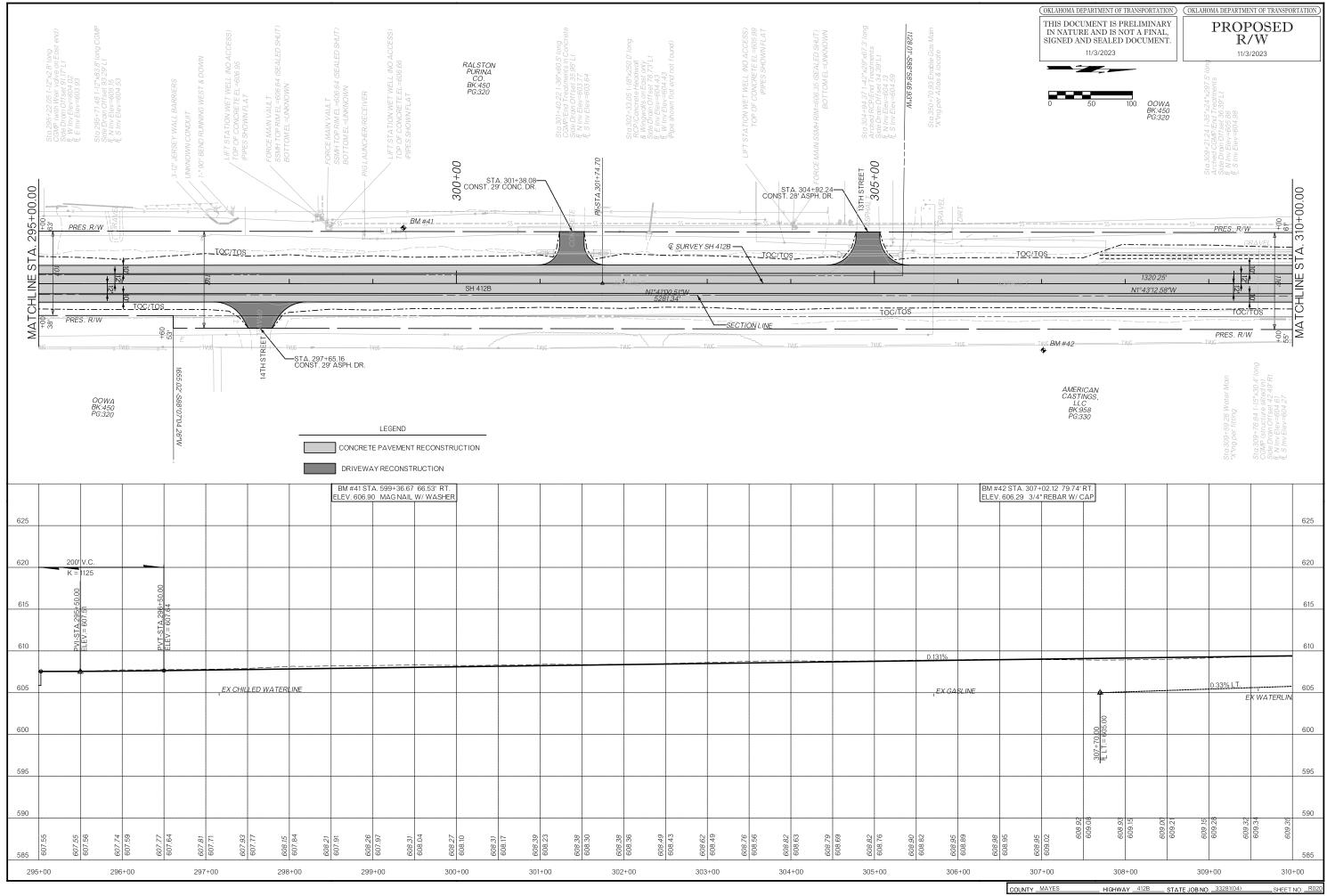
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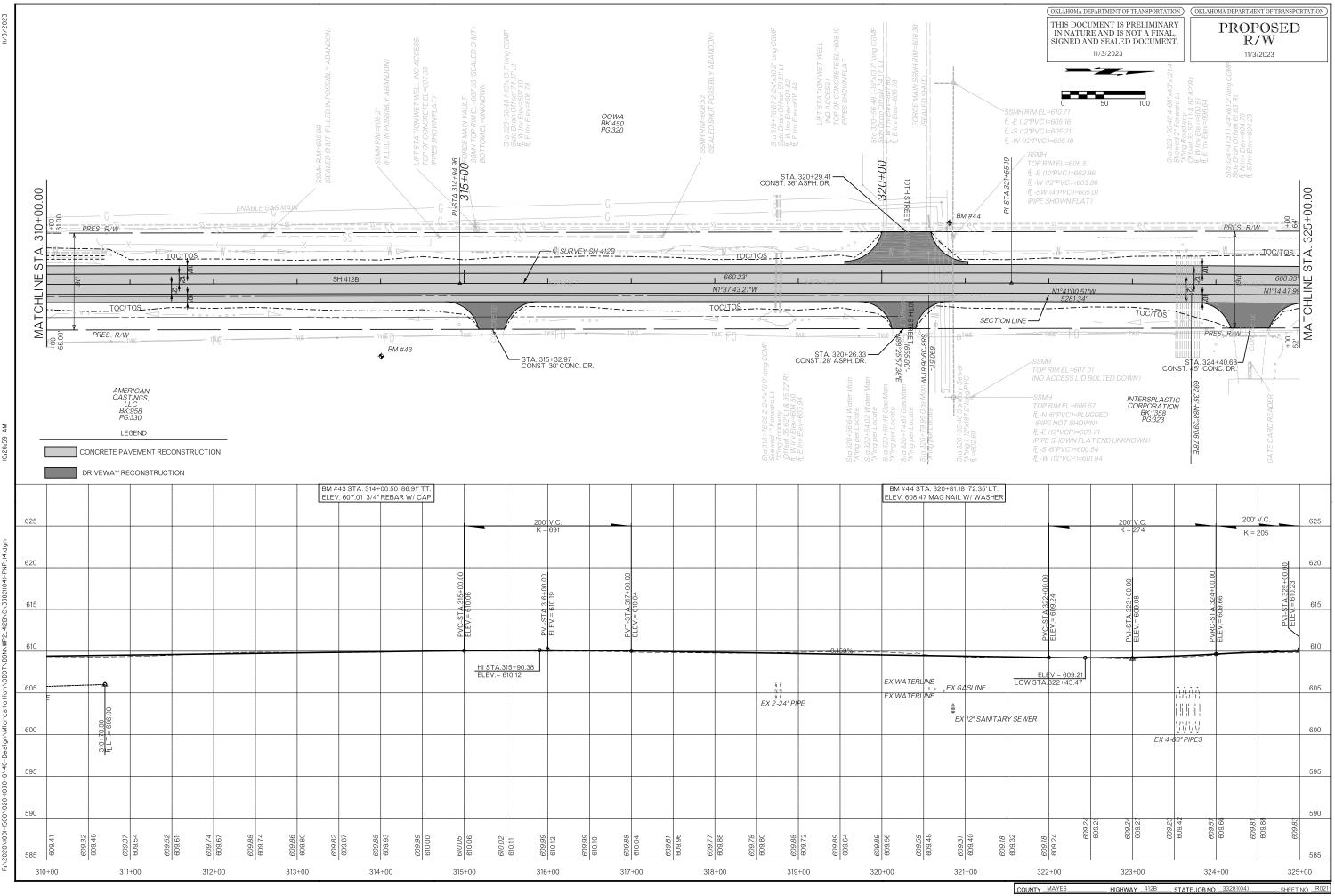




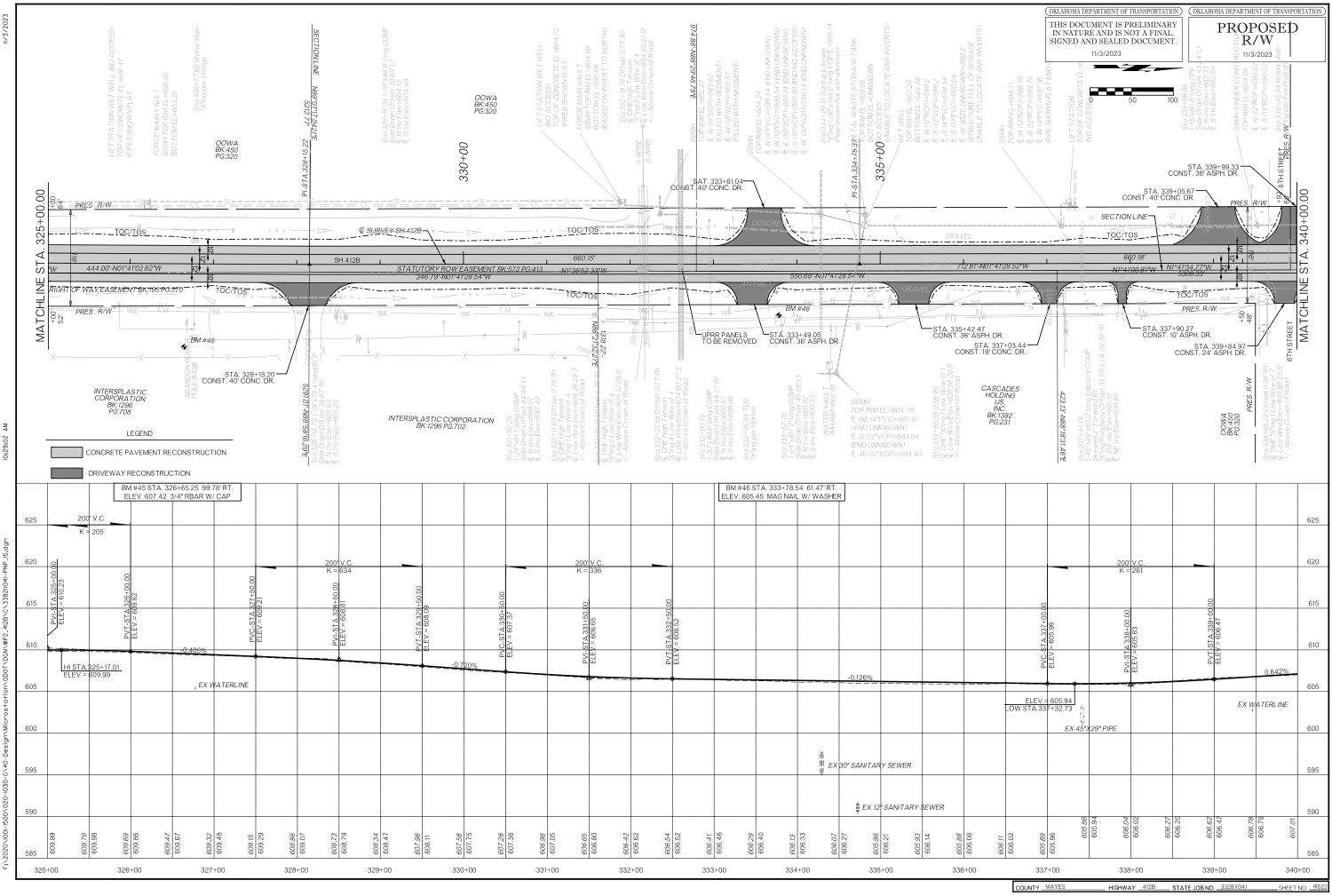
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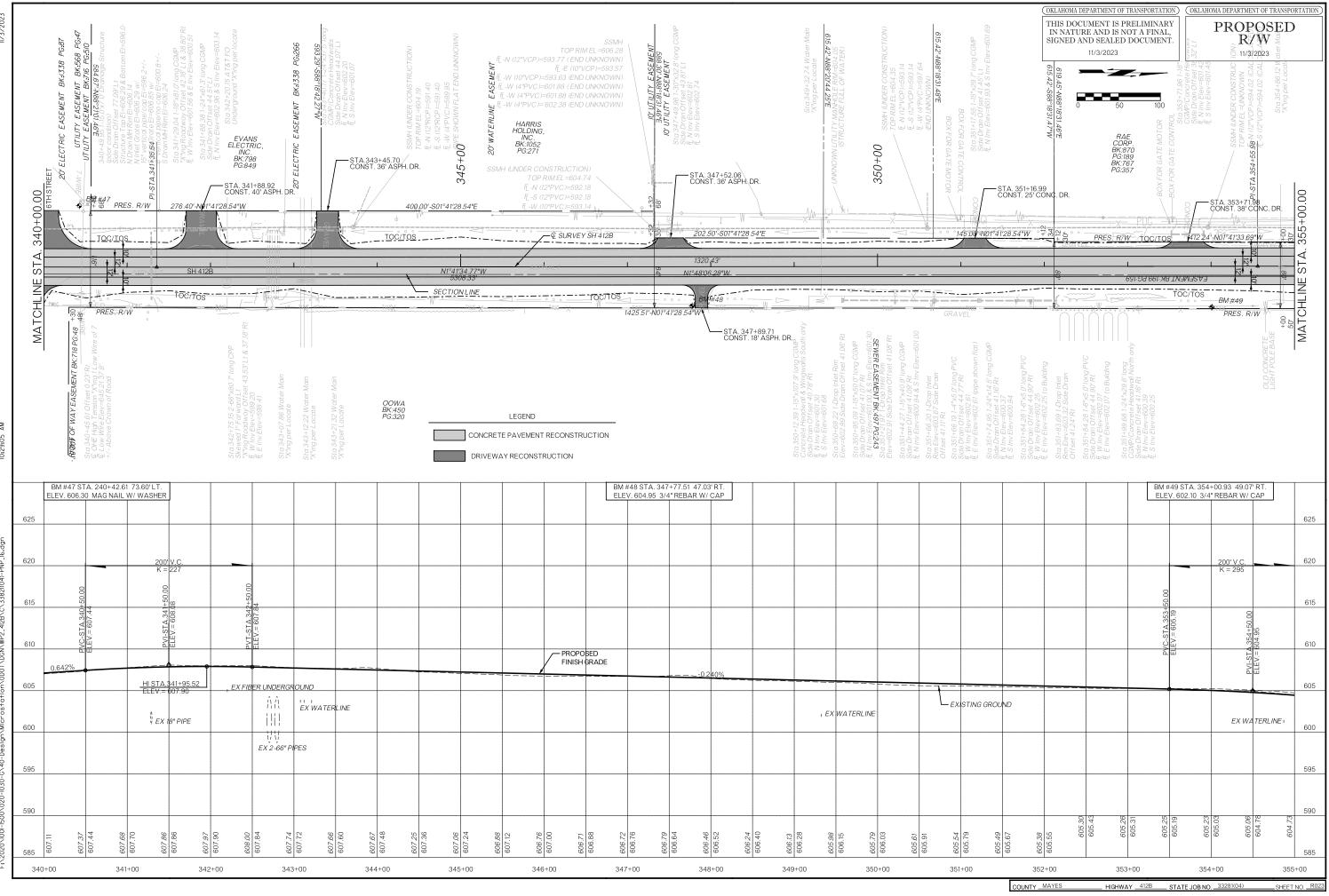
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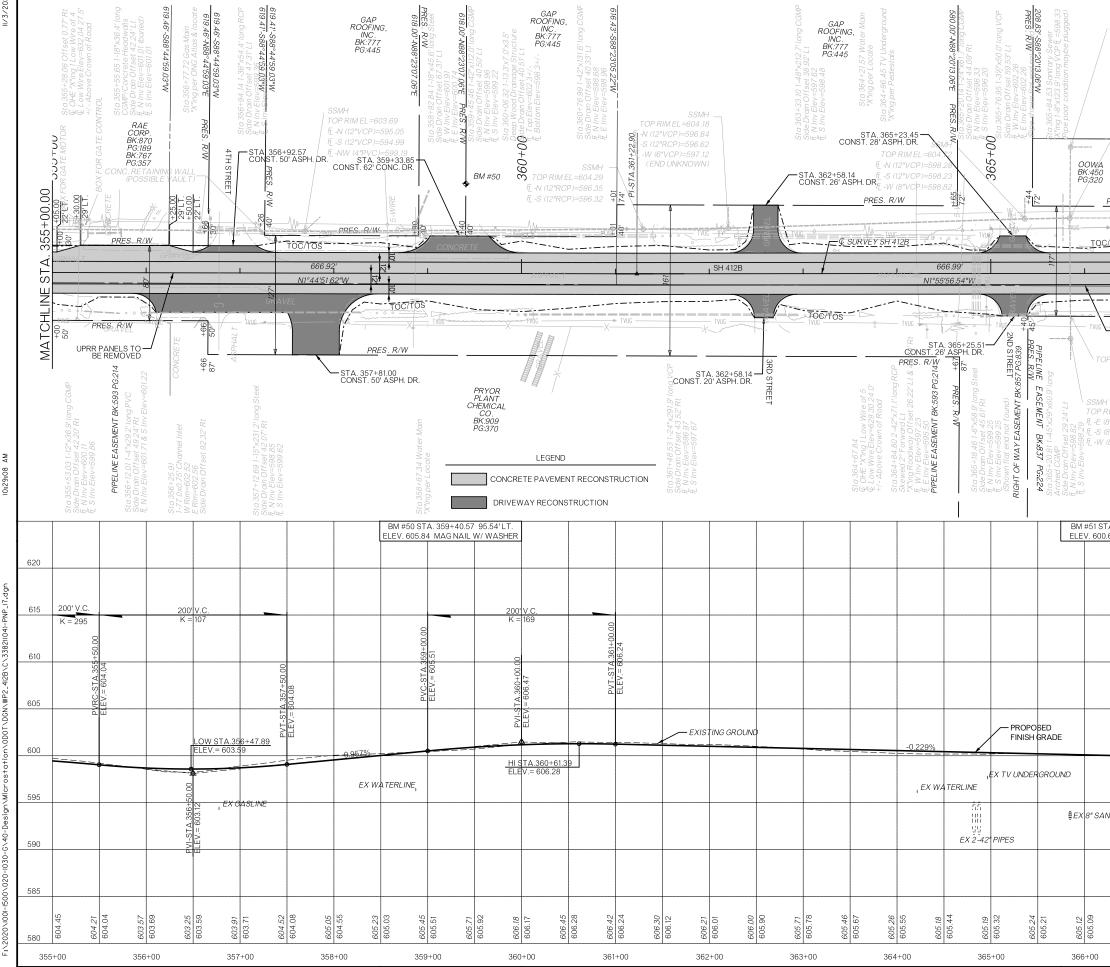
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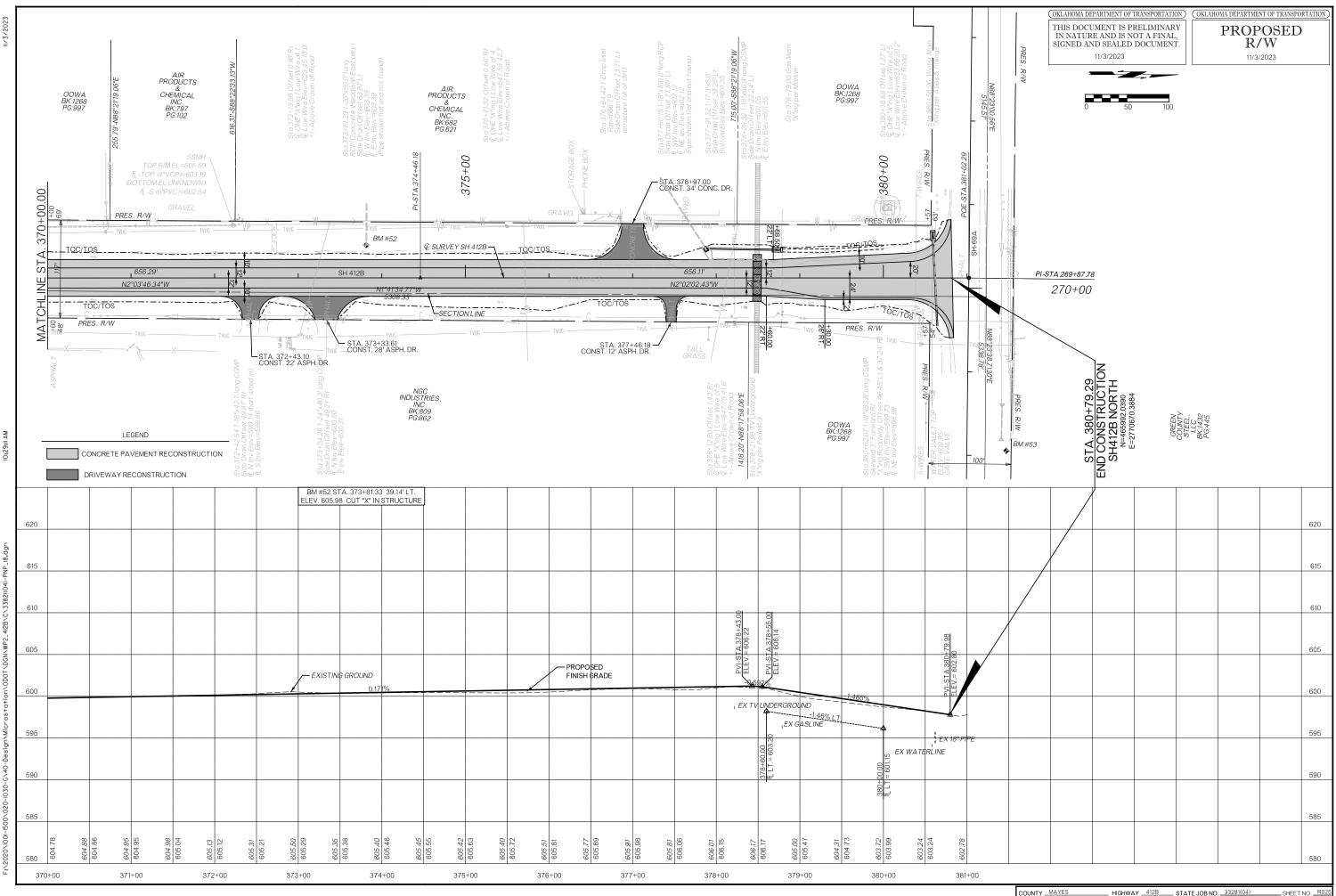
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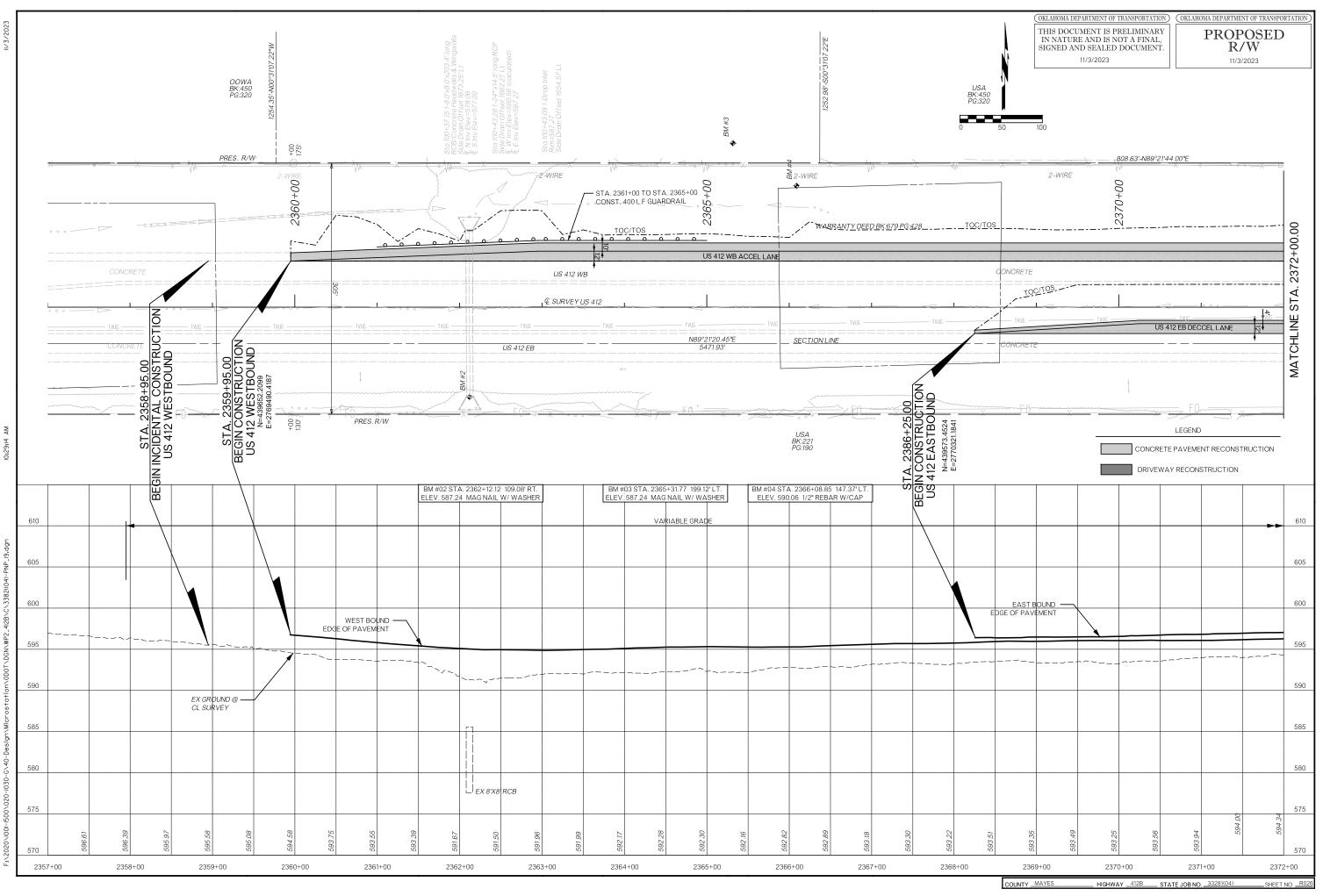
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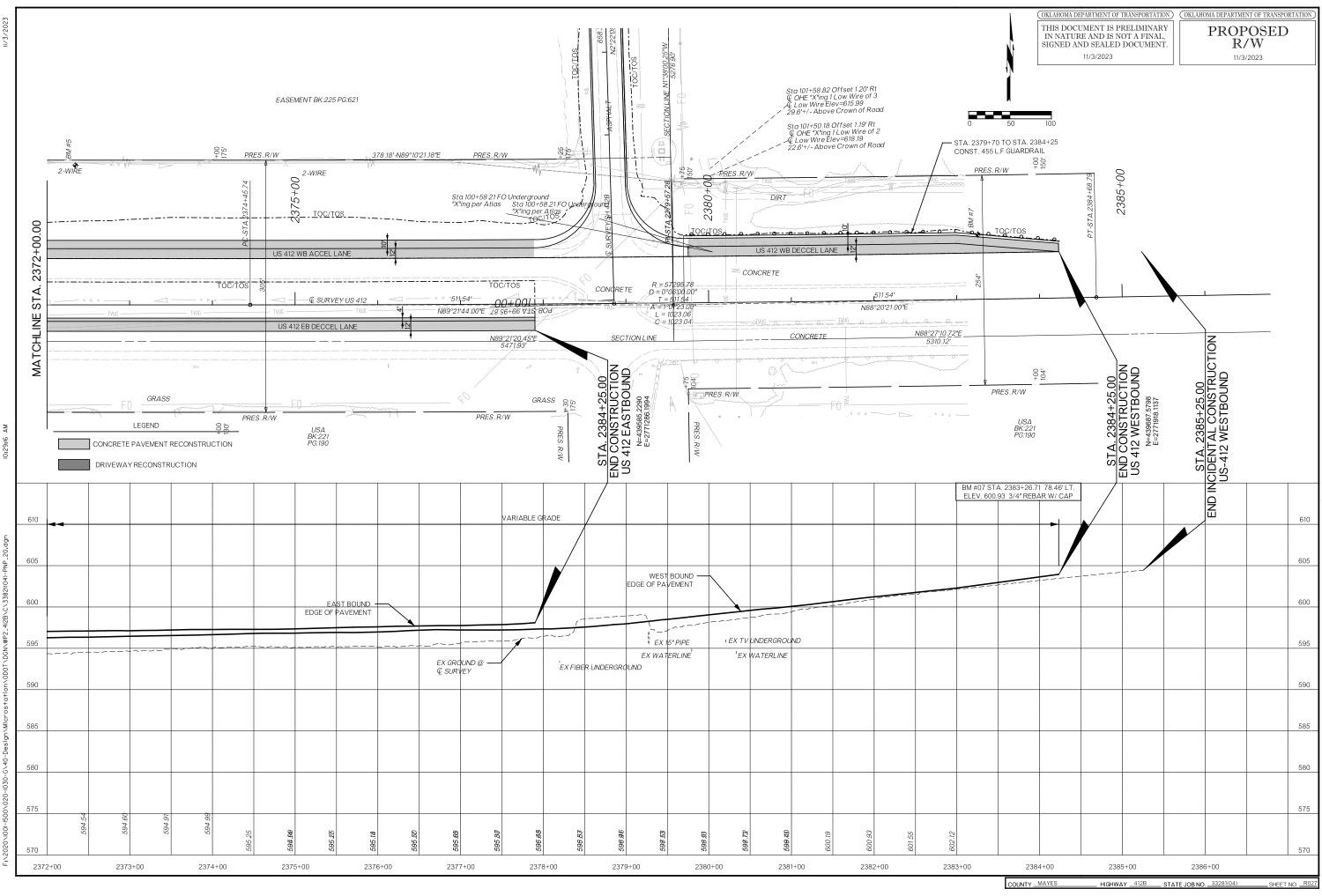
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Committee DELIN	RTMENT OF TRANSPORTATION)	OKLAHOMA DEPARTMENT OF T	TRANSPORTATION)
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	PI-S	FL -W (6"PVC)=600.52 PRES. R/W	.0 <u>7</u>
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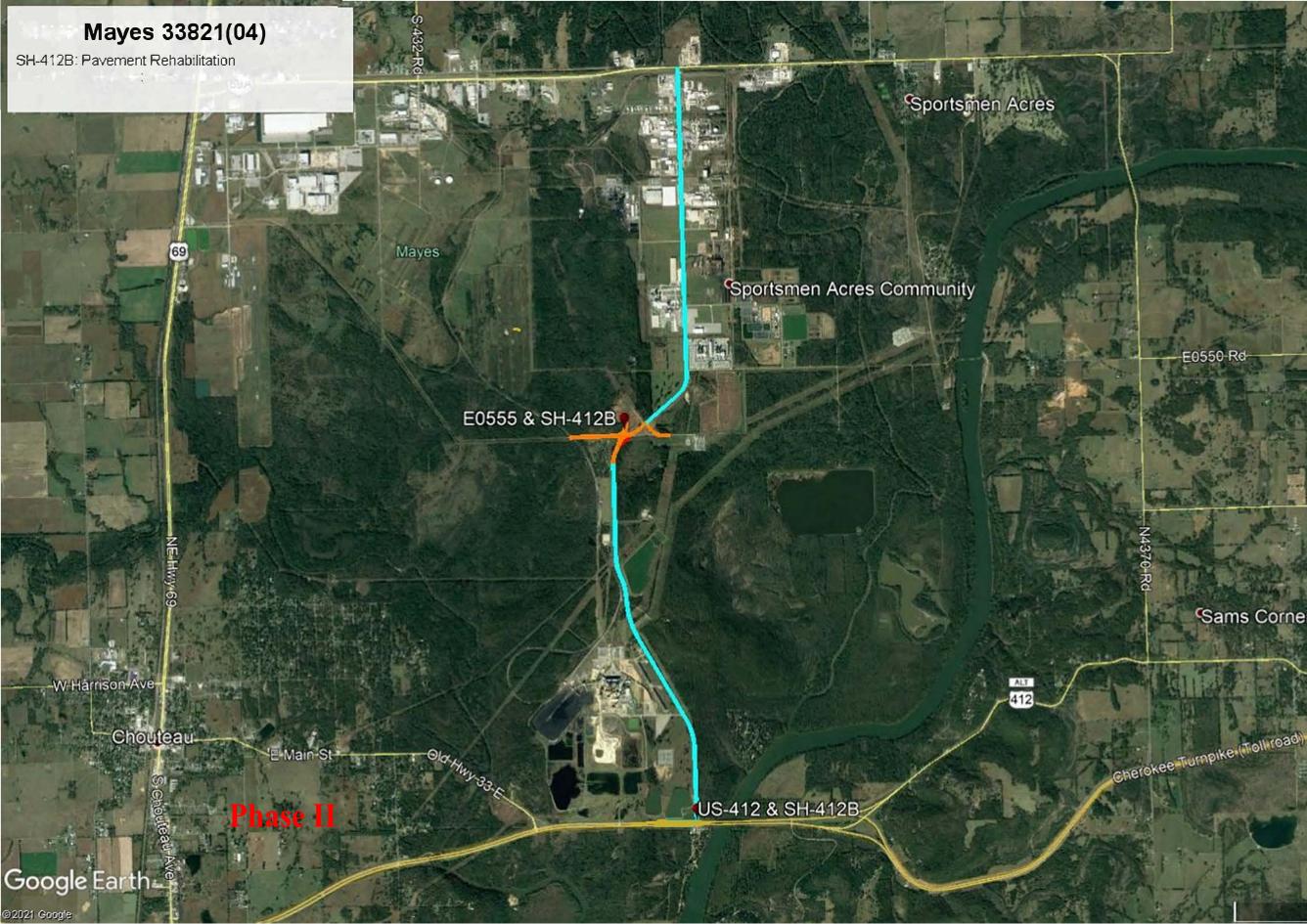


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E0550-Rd

E0560 Rd

Sams Corner



SECTION 106 CULTURAL RESOURCES STUDIES



DATE:	March 01, 2022
TO:	Project Management Division
FROM:	Environmental Programs Division – Cultural Resources Program
SUBJECT:	Mayes County JP 33821(04): PAVEMENT REHABILITATION – SH-412B: FROM SH-69A TO US-412.

There are potentially significant cultural resources within the general vicinity of the referenced project. Please have the following note added to a section of the project plans entitled "Environmental Mitigation Notes" per Policy Directive C-201-2D(2):

Locations outside the project area in the following area must not be utilized for borrow, equipment staging, haul roads, spoil dumps or any off-site project-related activity.

T20N R19E:							
Section 10:	NE ¹ /4						
Section 16:	NE¼ NE¼ SE¼						

SAS

ODOT CULTURAL RESOURCES PROGRAM SCREENED EXEMPTION PROJECT REVIEW

 County:
 Mayes

 JP No:
 33821(04)

 Staff CRP Reviewer:
 Mike McKay

Request Date: Completion Date: NEPA Project Manager: ODOT Division: 2/24/2022 3/1/2022 Julianne Whitaker Olsson (Div. 8)

1. **PROJECT DESCRIPTION:**

PAVEMENT REHABILITATION - SH-412B: FROM SH-69A TO US-412.

Project specifications:

XXXexisting pavement linesXXXexisting R/WXXXpreviously disturbed soilother, describe:

2. CULTURAL RESOURCES REVIEW FOR PREVIOUSLY RECORDED HISTORIC PROPERTIES:

Archival Review:

- XXX National Register of Historic Places (NRHP) List (Property has been listed on the NRHP)
- **XXX** State Historic Preservation Office's (SHPO) Determination of Eligibility (DOE) List for the NRHP
- (Property has been determined eligible for listing on the NRHP)
- XXX Oklahoma Archeological Survey (OAS) Archeological site files
- Program Comment bridge
- Depression-era Bridges Programmatic Agreement
- Interstate Highway Exception
- XXX Tribal Coordination Database
 - Other: describe

Comments:

Results:

 XXX
 No historic properties in the area of potential effect (APE)

 Historic properties in or adjacent to the APE

Comments:

Project subjected to field review:

XXX No Yes

3. **RECOMMENDATIONS:**

XXX Project has no potential to affect historic properties

The ODOT Cultural Resources Program has completed a review of the Area of Potential Effect (APE) as defined in the project request dated February 16, 2022 for this project and has examined the SHPO's online DOE and NRHP files as well as the archaeological site files at the OAS. The proposed project was reviewed by an archaeologist who meets the Secretary of Interior Qualifications. The proposed undertaking is, by nature, a project that has no potential to cause effects to historic properties as defined in 36 CFR 800.3(a)(1). Since there is no apparent potential to affect historic properties then no further work regarding cultural resources is recommended.

Project requires review of final plans to ensure no affect to historic properties Project requires field investigations and consultation with reviewing agencies.

XXX Off-project avoidance notes

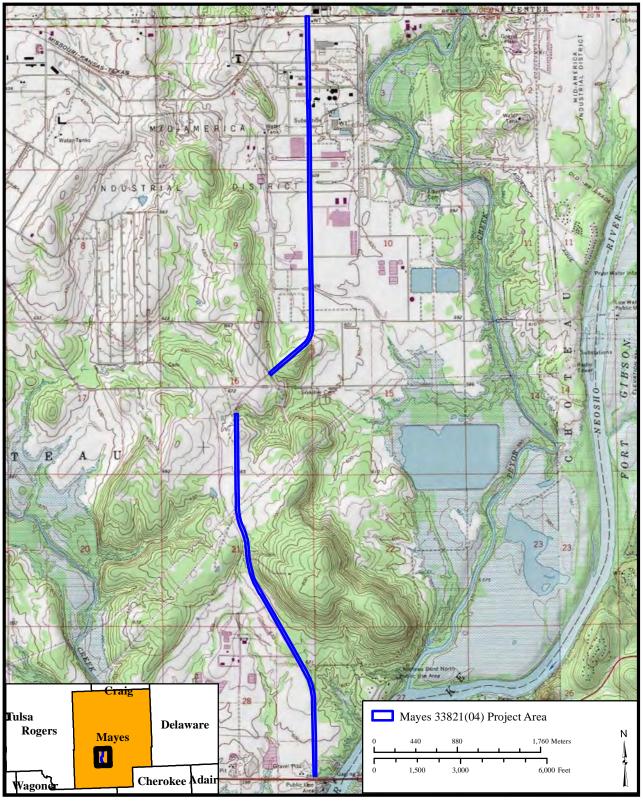


Figure 1. Mayes County JP 33821(04): SH-412B: PAVEMENT REHABILITATION FROM SH-69A TO US-412.

Basemap: USGS Chouteau 7.5' Quadrangle (1970; PR 1982); Legal Location: T20N R19E.



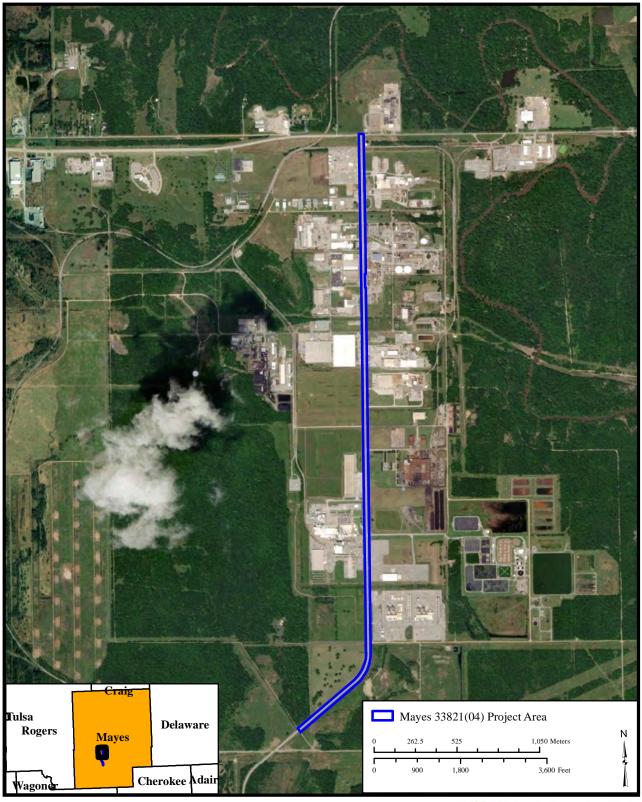


Figure 2. Mayes County JP 33821(04): SH-412B: PAVEMENT REHABILITATION FROM SH-69A TO US-412.

Basemap: USGS Chouteau 7.5' Quadrangle (1970; PR 1982); Legal Location: T20N R19E.



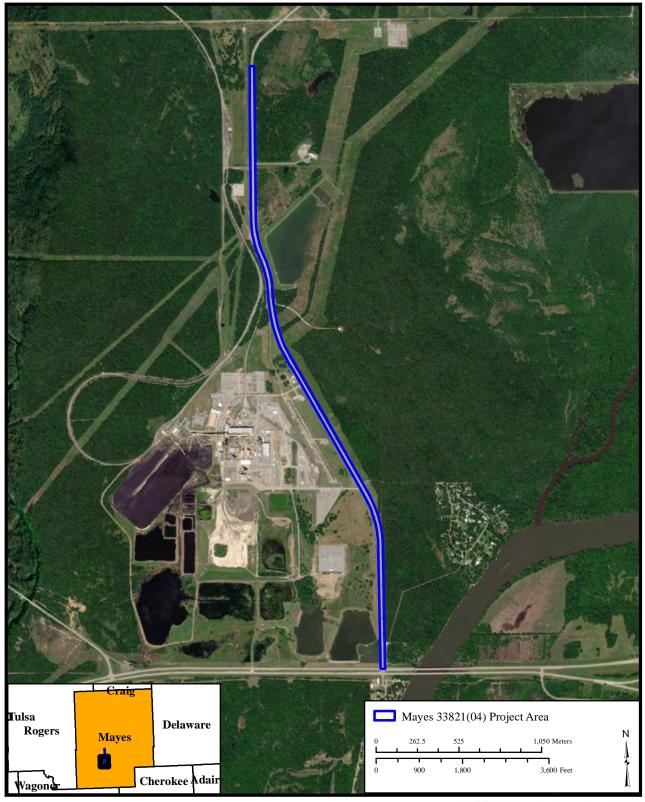


Figure 3. Mayes County JP 33821(04): SH-412B: PAVEMENT REHABILITATION FROM SH-69A TO US-412.

Basemap: USGS Chouteau 7.5' Quadrangle (1970; PR 1982); Legal Location: T20N R19E.



BIOLOGICAL STUDIES

BIOLOGICAL STUDIES TRACKING FORM

NEPA Project Manager	Julianne Whitaker / Erin Faulkner	
State or Local Government Project	State	
USFWS Project Code #	2022-0007566	
Original IPaC List	2/15/2022	
Email used to request IpaC official species list	jwhitaker@olsson.com	
Last Updated Species List Date	5/18/2022	
ROW	Click here to enter a date.	
Let Date	11/1/2023	
90 Day Prior to Let IpaC List	8/1/2023	
Duration expected	Click here to enter text.	
Original Biological Assessment and Waters	Olsson	
and Wetlands Report Prepared By:		
Most Recent Field Date:	4/184/1/2022	
Original Report Date:	5/18/2022 Revised 6/22/2022	
USFWS Consultation Submittal:	6/22/2022	
USFWS Concurrence:	6/27/2022	
Original Tracking Form Prepared by:	Elizabeth Nichols	
Original Tracking Form date:	6/28/2022	
Update Reason	Click here to enter text.	
Amended USFWS Consultation Submittal:	Click here to enter a date.	
Amended USFWS Concurrence:	Click here to enter a date.	
Tracking Form Updated By Whom:	Click here to enter text.	
Tracking Form Updated Date:	Click here to enter a date.	
ADD MORE LINES AS NEEDED FOR EACH	H TIME PROJECT IS UPDATED	

ADD MORE LINES AS NEEDED FOR EACH TIME PROJECT IS UPDATED

Form Date: February 2022

Project Name from Oracle

SH-412B from SH-69A to US-412

Project Description

Pavement Reconstruction or Rehabilitation

Check if any of the following is expected as part of the proposed action	
Work within the OHWM is expected	
Project is OFF-SET alignment	
Project is NEW alignment	
Project involves NO OFF EXISTING PAVEMENT work	
Project requires new ROW (permanent &/or temporary)	

2. FEDERALLY LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Species	Listing Status	IPaC Check if Yes	Effect Determination for IPaC listed species
Red-cockaded Woodpecker	Endangered		Choose an item.
Whooping Crane	Endangered		Choose an item.
Gray Bat	Endangered	\boxtimes	May Affect, Not likely to adversely affect
Indiana Bat	Endangered		Choose an item.
Ozark Big-eared Bat	Endangered		Choose an item.
Peppered Chub	Endangered		Choose an item.
Neosho Mucket	Endangered		Choose an item.
Ouachita Rock Pocketbook	Endangered		Choose an item.
Scaleshell Mussel	Endangered		Choose an item.
Winged Mapleleaf	Endangered		Choose an item.
Harperella	Endangered		Choose an item.
American Burying Beetle	Threatened		Final Effect Analysis and Determination covered in the BO for the final 4(d) rule
Eastern Black Rail	Threatened		Choose an item.
Piping Plover	Threatened		No Effect
Red Knot	Threatened		No Effect
Northern Long-eared Bat	Threatened	\boxtimes	Final Effect Analysis and Determination covered
			in the Programmatic BA & BO
Arkansas River Shiner	Threatened		Choose an item.
Leopard Darter	Threatened		Choose an item.
Neosho Madtom	Threatened		Choose an item.
Ozark Cavefish	Threatened		Choose an item.
American Alligator	Threatened		Choose an item.
Rabbitsfoot Mussel	Threatened		Choose an item.
Alligator Snapping Turtle	Proposed		Choose an item.
Monarch Butterfly	Candidate	\boxtimes	No Effect
Rattlesnake-master Borer Moth	Candidate		Choose an item.
Whooping Crane Critical Habitat	Designated		Choose an item.
Peppered Chub Critical Habitat	Designated		Choose an item.
Arkansas River Shiner Critical Habitat	Designated		Choose an item.
Leopard Darter Critical Habitat	Designated		Choose an item.
Neosho Mucket Critical Habitat	Designated		Choose an item.
Rabbitsfoot Critical Habitat	Designated		Choose an item.

	NEPA Footprint	Construction Footprint
Number of acres within the NEPA Study Footprint	69.9	Click here to
& Construction Footprint (if known)		enter text.
Number of acres of perennial plant vegetation (ABB habitat) within	0	0
the NEPA & Construction Footprints (if known)		
Number of acres of forested/wooded area (Ibat and NLEB habitat)	0	0
within the NEPA & Construction Footprints (if known)		

ABB Conservation Lands adjacent	NO
Presence of milkweed and nectar plants	NO
Gray Bat Cave Buffer	Outside any known cave buffer

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

Species (choose those that apply)	Seasonal Restriction Period
Bald Eagle	September 16 – May 31

Conservation Commitments

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

Species Plan Notes

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

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

American Burying Beetle Note: The American Burying Beetle is a large carrion burying beetle that occurs within the project limits. Artificial lighting may be used during construction for night activities if the equipment specifications outlined in Special Provision 656-5(a-b)19 for ABB are adhered to and measures to minimize use of artificial lighting have been implemented. Carcasses and all food trash shall continuously

be removed from the permanent and temporary right-of-way throughout the duration of project activities. Pollution Prevention Requirements as specified by the Oklahoma Department of Environmental Quality General Permit OKR10 for Storm Water Discharges shall be implemented when appropriate. Additionally, all equipment will be fueled, and all fuel and motor vehicle oil will not be stored within areas of native vegetation (ie. outside of ABB habitat).

Bat Lighting Note: All temporary lighting, if used, will be directed away from suitable bat habitat during the active season for bats (April 1- November 15). If any permanent lighting is installed or replaced, downward-facing full cut-off lens lights shall be installed and directed away from wooded areas and streams.

Bald Eagle Note: Suitable nesting, roosting or foraging habitat for the Bald Eagle occurs within the project's action area, and <u>a nest was observed during field studies within 1000-ft of the south end of the project area</u>. The Bald Eagle nesting season in Oklahoma extends from September 16, through May 31. The Resident Engineer shall contact the ODOT Biologist to schedule a nest survey. Nest search surveys can only be conducted when leaves are not on the trees typically between December 1st and February 28th. No work may occur within suitable Bald Eagle habitat, located between STA. 100+53.00 and STA 119+62.48, during the nesting season (September 16, through May 31) until the completion of the survey by the ODOT Biologist. If nests are observed, a no-work buffer up to a distance of 660 feet shall be placed around the nest. The exact distance of the buffer zone shall be established by the ODOT Biologist in consultation with US Fish and Wildlife Services. If the buffer cannot be maintained, all clearing, external construction and landscaping activities, within the buffer, shall be conducted between June 1 and September 15 (outside the nesting season).

Waters and Wetlands Delineation Status

Original delineation

Wetlands and Ponds

Total Number of Sites	Water Body Type	Potential Jurisdiction Status	Acres within the NEPA Footprint
None	Choose an item.	Choose an item.	0

Streams and Drainages

Total Number of sites	Water body name	USGS Designation	Potential Jurisdictional Status	Acres within the NEPA Footprint	Liner Feet within the NEPA Footprint
3	Tributaries to Pryor Creek	mapped perennial	Likely Jurisdictional	0.27	209
1	Tributary to Chouteau Creek	mapped perennial	Likely Jurisdictional	0.23	5,010
Total Likely Jurisdictional			0.5	5,219	

Nichols, Elizabeth

From:	Goins, Kassandra (Kasey) <kassandra_goins@fws.gov></kassandra_goins@fws.gov>
Sent:	Monday, June 27, 2022 12:27 PM
To:	Nichols, Elizabeth
Cc:	Amber McIntyre; Echo-Hawk, Patricia
Subject:	Re: [EXTERNAL] 2022-0007566 ODOT Mayes JP 33821(04) Consultation
Follow Up Flag:	Flag for follow up
Flag Status:	Flagged

Hello Liz,

The Service has reviewed consultation package 2022-0007566 Mayes JP 33821(04).

Based on the information provided, the project will occur within the range of the American burying beetle (*Nicrophorus americanus*; ABB) and you have concluded that the project may affect the species. The Service agrees with this determination. Any take that may occur as a result of the project is not prohibited under the Endangered Species Act of 1973 (Act; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), Section 4(d) rule adopted for this species at 50 CFR 17.47(d) (85 FR 65241). The Service asks that the conservation measures as articulated in the assessment, and in conjunction with the guidelines set forth by the Federal Highway Administration, be implemented and maintained.

Additionally, potential impacts to the Northern long-eared bat (*Myotis septentrionalis*: NLEB) have been addressed using the FHWA NLEB/Ibat Programmatic BA & BO. You have concluded that the project may affect the NLEB. The Service concurs with this determination. ODOT shall ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all environmental commitments on this project. Please note that there will be a need to re-initiate consultation, if the amended

FHWA programmatic BO includes additional BMPs, AMMs, that have not been included with this project. You have further concluded that the project may effect, but is not likely to adversely affect the

endangered gray bat (*Myotis grisescens*). The Service agrees with this determination. The Service asks that the conservation/mitigation measures as articulated in the assessment and in conjunction with the guidelines set forth by the Federal Highway Administration, be implemented and maintained.

You have determined that the project will have no effect on the threatened piping plover (*Charadrius melodus*) and red knot (*Calidris canutus rufa*).

This project is also within the range of several species that are considered Birds of Conservation Concern. The Service asks that all avoidance of impacts to these species be implemented in accordance with the direction set forth by the Federal Highway Administration.

Additionally, based on the potential presence of migratory birds/nests on structures involved in this project, the Services asks that ODOT proceed in conjunction with guidance set forth by the Federal Highway Administration to avoid and minimize potential impacts to migratory birds, nests, and/or eggs.

In order to avoid impacts to Bald Eagles, if Bald Eagles or their habitat are observed during the biological assessment, a survey for eagles and their nests will be conducted within 660 feet of the work zone, during the winter prior to, and within one year of, the start of construction. If a nest is found, appropriate conservation measures based on the National Bald Eagle Management Guidelines will be implemented.

The Service also recommends ODOT/FHWA replace box culverts with structures that are fish passage friendly, as suggested in the Service email to ODOT dated 8/16/2021. This applies to project culverts (being demolished, repaired, retrofitted, maintained or rehabilitated) along perineal or intermittent streams still providing habitat to native fish species.

The online project review concurrence letter signed by the Field Supervisor is now valid, and the project may proceed accordingly. The Service asks that, within 90 days prior to construction, a new species list be obtained to see if any changes have occurred. If changes have occurred, please verify with the Oklahoma Ecological

Services Field Office to determine if further consultation is needed. If you have any questions, please contact the Field Office.

Sincerely,
Kasey Goins
Fish & Wildlife Biologist (T&E Species)
U.S. Fish and Wildlife Service
Oklahoma Ecological Services Field Office

9014 E. 21st St. Tulsa, OK 74129 561.603.0556

From: Goins, Kassandra (Kasey) <kassandra_goins@fws.gov> on behalf of OK Project Review, FWS <OKProjectReview@fws.gov>
Sent: Thursday, June 23, 2022 10:08 AM
To: Goins, Kassandra (Kasey) <kassandra_goins@fws.gov>
Subject: Fw: [EXTERNAL] 2022-0007566 ODOT Mayes JP 33821(04) Consultation

From: Elizabeth Nichols <ENichols@odot.org>
Sent: Wednesday, June 22, 2022 8:37 PM
To: OK Project Review, FWS <OKProjectReview@fws.gov>
Cc: Amber McIntyre <AMCINTYRE@ODOT.ORG>
Subject: [EXTERNAL] 2022-0007566 ODOT Mayes JP 33821(04) Consultation

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Elizabeth Nichols Assistant Manager, Natural Resources Program Oklahoma Department of Transportation Oklahoma Biological Survey 111 E. Chesapeake Norman, OK 73019 405.325.6802 (office) enichols@odot.org



United States Department of the Interior

FISH AND WILDLIFE SERVICE Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428 Phone: (918) 581-7458 Fax: (918) 581-7467



In Reply Refer To: Project code: 2022-0007566 Project Name: Sh-412B Pavement Rehab Mayes County JP 33821(04)

Subject: Verification letter for 'Sh-412B Pavement Rehab Mayes County JP 33821(04)' project under the October 15, 2020, Programmatic Biological Opinion on Final 4(d) Rule for the American burying beetle and Activities Excepted from Take Prohibitions (50 CFR § 17.47(d), Federal Register Citation 85 FR 65241).

Dear Elizabeth Nichols:

The U.S. Fish and Wildlife Service (Service) received on **June 22, 2022** your effect determination(s) for the 'Sh-412B Pavement Rehab Mayes County JP 33821(04)' (the Action) using the American burying beetle (*Nicrophorus americanus*) determination key within the Information for Planning and Consultation (IPaC) system.

This determination key assists users in determining whether a Federal action is consistent with the activities analyzed in the Service's October 15, 2020, Programmatic Biological Opinion (PBO). The PBO addresses activities excepted from incidental "take"^[1] prohibitions applicable to the American burying beetle under the Endangered Species Act of 1973 (Act) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, the Action is consistent with activities analyzed in the PBO. The Action may affect the American burying beetle; however, any incidental take that may occur as a result of the Action is not prohibited under the Act Section 4(d) rule adopted for this species at 50 CFR §17.47(d). **Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the PBO satisfies and concludes your responsibilities for this Action under Act Section 7(a)(2) with respect to the American burying beetle.**

Please report any changes to the information about the Action that you submitted in IPaC, the results of any American burying beetle surveys conducted in the Action area, and any dead, injured, or sick American burying beetles that are found during Action implementation. If the Action is not completed within one year of the date of this letter, you must update and resubmit the information required in the IPaC key.

June 22, 2022

This IPaC-assisted determination allows you to rely on the PBO for compliance with Act Section 7(a)(2) only for the American burying beetle.

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct (Act, Section 3(19)).

This letter covers only the American burying beetle. It **does not** apply to the following ESA-protected species that also may occur in the Action area:

- Gray Bat *Myotis grisescens* Endangered
- Monarch Butterfly Danaus plexippus Candidate
- Northern Long-eared Bat Myotis septentrionalis Threatened
- Piping Plover Charadrius melodus Threatened
- Red Knot Calidris canutus rufa Threatened

If your project may affect additional listed species, you must evaluate additional DKeys for other species, or submit a request for consultation for the additional species to your local Ecological Services Field Office.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Sh-412B Pavement Rehab Mayes County JP 33821(04)

2. Description

The following description was provided for the project 'Sh-412B Pavement Rehab Mayes County JP 33821(04)':

Pavement Rehabilitation SH-412B: from SH-69A to US-412

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/</u> maps/@36.194236599999996,-95.28526302304945,14z



Qualification Interview

- 1. Is the action authorized, funded, or being carried out by a Federal agency? *Yes*
- 2. Have you determined that the proposed action will have "no effect" on the American burying beetle? (If you are unsure select "No")

No

3. Will your activity **purposefully take** American burying beetles?

No

4. Is your project wholly inside the 4d rule Analysis Area? For areas of your project occurring inside the Analysis Area (New England, Northern Plains, Southern Plains), your project may qualify for exemptions. For areas of your project occurring outside the Analysis Area, all incidental take is exempted according to the ABB 4d Rule.

Automatically answered Yes

- 5. Is American burying beetle <u>suitable habitat</u> present within the action area? *Yes*
- 6. Will suitable habitat be affected by the proposed action? Suitable habitat may be impacted if the action involves soil disturbance, use of vehicles or heavy equipment, artificial lighting, vegetation removal, use of herbicides, pesticides, other hazardous chemicals. *Yes*

Project Questionnaire

Please select the activity that best matches your proposed action.

8. Soil disturbance related to road construction and maintenance

If you chose 13 above, please describe below. If you did not choose 13 above, please type "0".

0

Estimate the total acres of suitable American burying beetle habitat that may be affected.

0

Please estimate the total number of acres of **temporary impacts** to American burying beetle habitat. See definitions

0

Please estimate the total number of acres of **permanent impacts** to American burying beetle habitat. See definitions

0

IPaC User Contact Information

Agency:	Oklahoma Department of Transportation
Name:	Elizabeth Nichols
Address:	111 E. Chesapeake St.
Address Line 2:	ODOT Highway Program at Oklahoma Biologist Survey
City:	Norman
State:	ОК
Zip:	73019
Email	elizabeth.nichols@ou.edu
Phone:	4053256802

Lead Agency Contact Information Lead Agency: Federal Highway Administration



United States Department of the Interior

FISH AND WILDLIFE SERVICE Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428 Phone: (918) 581-7458 Fax: (918) 581-7467



In Reply Refer To: Project code: 2022-0007566 Project Name: Sh-412B Pavement Rehab Mayes County JP 33821(04) June 22, 2022

Subject: Concurrence verification letter for the 'Sh-412B Pavement Rehab Mayes County JP 33821(04)' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated June 22, 2022 to verify that the **Sh-412B Pavement Rehab Mayes County JP 33821(04)** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is <u>not likely to adversely affect</u> (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*). Consultation with the Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) is required.

The Service has 14 calendar days to notify the lead Federal action agency or designated nonfederal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do <u>not</u> notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO. **For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities:** If your initial bridge/culvert or structure assessments failed to detect Indiana bats, but you later detect bats prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

The following species may occur in your project area and **are not** covered by this determination:

- American Burying Beetle Nicrophorus americanus Threatened
- Gray Bat Myotis grisescens Endangered
- Monarch Butterfly Danaus plexippus Candidate
- Piping Plover Charadrius melodus Threatened
- Red Knot Calidris canutus rufa Threatened

Project Description

The following project name and description was collected in IPaC as part of the endangered species review process.

Name

Sh-412B Pavement Rehab Mayes County JP 33821(04)

Description

Pavement Rehabilitation SH-412B: from SH-69A to US-412

Determination Key Result

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the threatened Northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

Qualification Interview

1. Is the project within the range of the Indiana bat^[1]?

[1] See <u>Indiana bat species profile</u> Automatically answered No

2. Is the project within the range of the Northern long-eared bat^[1]?

[1] See <u>Northern long-eared bat species profile</u> Automatically answered *Yes*

3. Which Federal Agency is the lead for the action?

A) Federal Highway Administration (FHWA)

4. Are *all* project activities limited to non-construction^[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

[1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting. *No*

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/ rail surfaces^[1]?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1]?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

- 7. Is the project located **within** a karst area?
 - No

8. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.

[2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the <u>User's</u> <u>Guide for the Range-wide Programmatic Consultation for Indiana Bat and Northern Long-eared Bat</u>. *Yes*

9. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?

[1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat. *No*

10. Have presence/probable absence (P/A) summer surveys^{[1][2]} been conducted^{[3][4]} **within** the suitable habitat located within your project action area?

[1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.

[2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

[3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

[4] Negative presence/probable absence survey results obtained using the <u>summer survey guidance</u> are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

No

11. Does the project include activities **within documented NLEB habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

5

12. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

No

13. Does the project include slash pile burning?

No

- 14. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?
 No
- 15. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

- 16. Will the project involve the use of **temporary** lighting *during* the active season? *Yes*
- 17. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

Yes

18. Will the project install new or replace existing **permanent** lighting?

Yes

19. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **permanent** lighting will be installed or replaced?

Yes

20. Does the project include percussives or other activities (**not including tree removal**/ **trimming or bridge/structure work**) that will increase noise levels above existing traffic/ background levels?

Yes

21. Will the activities that use percussives (**not including tree removal/trimming or bridge**/ **structure work**) and/or increase noise levels above existing traffic/background levels be conducted *during* the active season^[1]?

[1] Coordinate with the local Service Field Office for appropriate dates.

Yes

22. Will *any* activities that use percussives (**not including tree removal/trimming or bridge**/ **structure work**) and/or increase noise levels above existing traffic/background levels be conducted *during* the inactive season^[1]?

[1] Coordinate with the local Service Field Office for appropriate dates.

Yes

23. Are *all* project activities that are **not associated with** habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

Examples: lining roadways, unlighted signage, rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

Yes

24. Will the project raise the road profile **above the tree canopy**?

No

25. Are the project activities that use percussives (not including tree removal/trimming or bridge/structure work) consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the activities are within 300 feet of the existing road/rail surface, greater than 0.5 miles from a hibernacula, and conducted during the active season within undocumented habitat.

26. Are the project activities that use percussives (not including tree removal/trimming or bridge/structure work) and/or increase noise levels above existing traffic/background levels consistent with a No Effect determination in this key?

Automatically answered

Yes, because the activities are within 300 feet of the existing road/rail surface, greater than 0.5 miles from a hibernacula, and conducted during the inactive season

27. General AMM 1

Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

Yes

28. Lighting AMM 1

Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

Yes

29. Lighting AMM 2

Does the lead agency use the BUG (Backlight, Uplight, and Glare) system developed by the Illuminating Engineering Society^[1] to rate the amount of light emitted in unwanted directions?

[1] Refer to The BUG System—A New Way To Control Stray Light

No

30. Lighting AMM 2

Will *all* **permanent** lighting use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting)?

Yes

31. Lighting AMM 2

Will *all* **permanent** lighting be directed away from *all* areas with suitable habitat? *Yes*

Project Questionnaire

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

No

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

Yes

Avoidance And Minimization Measures (AMMs)

This determination key result includes the committment to implement the following Avoidance and Minimization Measures (AMMs):

LIGHTING AMM 1

Direct temporary lighting away from suitable habitat during the active season.

LIGHTING AMM 2

When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable.

GENERAL AMM 1

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on April 28, 2022. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should <u>only</u> be used to verify project applicability with the Service's <u>February</u> 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects. The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is <u>not</u> intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

IPaC User Contact Information

Agency:	Oklahoma Department of Transportation
Name:	Elizabeth Nichols
Address:	111 E. Chesapeake St.
Address Line 2:	ODOT Highway Program at Oklahoma Biologist Survey
City:	Norman
State:	ОК
Zip:	73019
Email	enichols@odot.org
Phone:	4053256802

Lead Agency Contact Information Lead Agency: Federal Highway Administration



United States Department of the Interior

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

Online Project Review Concurrence Letter

To:

Project Name:

"Eqpuwnevkqp"Eqfg<

Dear Applicant:

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

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

A copy of this letter and the project review package must be emailed to okprojectreview@fws.gov for this certification to be valid. This letter and the project review package will be maintained in Service records. Please allow the Oklahoma ESFO 60 days to review your information. If the Oklahoma ESFO determines that the package is not complete, or that additional coordination is necessary, we will contact your office. If, after 60 days from the date of your email submittal of your project review package, the Oklahoma ESFO has not contacted your office, consider your section 7 consultation complete. The proposed action consists of:

Project start and completion dates:

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

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

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

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

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

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

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

Enclosures:

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

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

For

USFWS TAILS #		2022-0007566				
Email used	to request IPaC o	fficial species list jwhital		aker@olsson.com		
County	Mayes	JP Number	33821(0	94)	Project Number	
Road Number	SH-412B	Water Body	Name		NA	
ROW Date		Let Date	11/2023		Project Length	6 miles
Project General Location		3.5 mi east of Chouteau, along SH-412B from US-412 to SH-69A				
Project Description & Statement from Oracle		Pavement Rehabilitation: SH-412B from SH-69A to US-412				

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

Prepared by:				
Biologist Name	Nathan Hillis			
Company/Agency Name	Olsson			
Address	11600 Broadway Ext #300			
City, State Zip	Oklahoma City, Oklahoma 73114			
Report Date:	5/18/2022; Revised 6/22/2022			
Field Survey Date	4/18/2022			
Field Survey Biologist(s)	Nathan Hillis			

Form Date: October 2021

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

Pavement Reconstruction or Rehabilitation

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

The existing SH-412B roadway has two 12 ft. wide asphalt paved driving lanes and 8 to 10 ft. wide asphalt paved shoulders. The pavement is in poor condition and there are sight distance deficiencies. The current Annual Average Daily Traffic (AADT) is 3,900 vehicles per day (vpd) with a future 20-year AADT still being analyzed. The purpose & need of the project are to correct pavement deficiencies and improve safety.

Description of proposed improvements

The proposed improvement consists of pavement rehabilitation of the existing 12 ft. wide asphalt paved driving lanes and 8 to 10 ft. wide asphalt paved shoulders. All the work will be within the existing pavement lines, with the exception of slight widening for an acceleration lane will occur on the south end of the project, where US-412 ties into the project to allow for turning vehicles from SH-412B going west onto US-412. No roadway size drainage structure or culverts will be extended. The roads will remain open during construction and no new rights-of-way are required.

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

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

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1.3. Project Area and Setting

Project Location		Environmental Study Footprint		Ecoregion & Game Type	
<u>Section</u> <u>Range &</u> <u>Township</u>	Lat/Long NAD 83)	<u>Dimensions</u>	<u>Acreage</u>	Level IV Ecoregion (Woods et al. 2005)	Game Type (Duck and Fletcher 1943)
S3, 4, 9, 10, 16, 21, 28, T20N, R19E	-95.2792606 36.1765756 on the south to -95.2791377 36.2493868 on the north	235 ft x 2050 ft along SH-412, and 90 ft x 6 mi along SH- 412B	69.9	Osage Cuestas	Tallgrass Prairie and Postoak Blackjack Oak Forest

Action Area:

1 mile surrounding the NEPA Environmental Study Footprint

2. FEDERALLY LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

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

Species	IPaC ¹	Watershed ²	Water Body ³	Records ⁴
	Check if Yes	Check if YES	Check if Yes	Check if Yes
Red-cockaded Woodpecker				
Whooping Crane				
Gray Bat	\boxtimes			
Indiana Bat				
Ozark Big-eared Bat				
Neosho Mucket				
Ouachita Rock Pocketbook				
Scaleshell Mussel				
Winged Mapleleaf				
Harperella				
American Burying Beetle	\square			
Eastern Black Rail				
Piping Plover	\square			
Red Knot	\square			
Northern Long-eared Bat	\square			
Arkansas River Shiner				
Leopard Darter				
Neosho Madtom				
Ozark Cavefish				

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Species	IPaC ¹	Watershed ²	Water Body ³	Records ⁴
	Check if Yes	Check if YES	Check if Yes	Check if Yes
American Alligator				
Rabbitsfoot Mussel				
Monarch Butterfly	\boxtimes			
Rattlesnake-master Borer Moth				
Peppered Chub				

¹Species is on the Proposed Project's IPaC List ²Action Area is within a watershed associated with occupied water bodies

³Action Area includes an occupied water body

⁴Project site within 5 miles of known records

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

Action area is adjacent to McAlester Army Ammunition Plant or Camp Gruber/Cherokee WMA

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

Action area is within what percentage Whooping Crane migratory corridor	
Choose an item.	
Action area is within 15 miles of Salt Plains NWR, Hackberry Flat, or Foss Reservoir.	
Action area is within the historic range of the Red-cockaded Woodpecker	
Action area is within 10 miles of the McCurtain County Wilderness Area	
Action area is within 10 miles of the Pushmataha Wildlife Management Area	

3. ENVIRONMENTAL BASELINE

3.1. Ecological Processes and Conditions

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

Soil Class	CHEROKEE PRAIRIES, BOSTON MOUNTAINS
Soil Name	Dennis-Bates-Taloka-Parsons, Hector-Linker
Soil Type	Mollisols and Alfisols, Inceptisols and Entisols
Soil Characteristics	clayey and loamy soils on very gentle slopes (3%), shallow

Climate (Use Woods et al. 2005)

Precipitation	Mean annual inches	44-45
Growing Season	Number of days	200-205
Mean Temperatures	Summer min/max	68/91
	Winter min/max	22/45

River System

Three unnamed mapped perennial tributaries to Pryor Creek, and one unnamed mapped perennial tributary to Chouteau Creek occur within the environmental study footprint.

Land Use and Land Ownership

Lana ese ana Lana e miersmp	
From Woods et al. 2005	Mosaic of rangeland, grassland, cropland, and especially in more rugged areas, woodland. Wooded riparian corridors occur on wettest bottomlands. Wheat, soybeans, grain sorghum, and alfalfa hay are major crops. Livestock (especially cattle) farming is important. Strip mining for coal and oil production have degraded water quality in a few streams.
From Field investigation	The land use was predominantly developed, industrial along the northern half of the Environmental Study Footprint. The southern half was developed, industrial and woodlands.

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

The environmental study footprint largely consists of rights-of-way (ROW), grasslands and upland woodlands. The ROW was maintained and included, eastern redbud (*Cercis canadensis*), henbit deadnettle (*Lamium amplexicaule*), American elm (*Ulmus americana*), Johnsongrass (*Sorghum halepense*), elm (*Ulmus americana*), and Bermuda grass (*Cynodon dactylon*). The upland forests consisted of American elm, greenbrier (*Smilax sp.*), eastern cottonwood (*Populus deltoides*), and rough cocklebur (*Xanthium strumarium*). The grassland consisted of sugar hackberry (*Celtis laevigata*), switchgrass (*Panicum virgatum*), common ragweed (*Ambrosia artemisiifolia*), Johnsongrass and Bermuda grass.

Three tributaries to Pryor Creek and one tributary to Chouteau Creek were located within the Environmental Study Footprint. These streams flowed west to east and north to south. The stream beds consisted of predominantly gravel and sand. The streams were fed by runoff. Stream widths varied from 1 ft to 5 ft and stream depths varied from 0.5 ft to 2 ft. Common

vegetation along these streams includes American Elm, Johnsongrass, Bermuda grass, eastern redbud, and eastern red cedar.

3.2 Species Habitat Analysis

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

SPECIES HABITAT

Gray Bat	Limestone karst features occur within 0.5 mile of the NEPA Environmental Study Footprint.		
	Riparian forest near streams, rivers and associated wetlands occurs within 0.5 mile of the NEPA Environmental Study Footprint.	\boxtimes	
	If within a cave buffer, total linear feet along ALL riparian zones within the NEPA Environmental Study Footprint.	0	
American Burying Beetle	Number of acres of native perennial plant vegetation (where native perennial vegetation is the dominant vegetation) within the NEPA Environmental Study Footprint (include shapefiles).	0	
Piping Plover	Sparsely vegetated sandy or gravelly shorelines and islands associated with the major river systems occur within the 0.25 miles of the NEPA Environmental Study Footprint.		
	Salt flats or mudflats associated with reservoirs occur within the 0.25 miles of the NEPA Environmental Study Footprint.		
Red Knot	Mudflats associated with reservoirs occur within the 0.25 miles of the NEPA Environmental Study Footprint.		
Northern Long-eared	Limestone karsts features occur within 0.5 mile of the NEPA Environmental Study Footprint.		
Bat	Live or dead trees/and or snags with a DBH of >= 3 inches occur within the NEPA Environmental Study Footprint .		
	10 trees or less with DBH of ≥ 3 inches		
	Barns or sheds occur within the NEPA Environmental Study Footprint.		
	Linear treed features such as fencerows, riparian forests, and other wooded corridors occur within 1 mile of the NEPA Environmental Study Footprint. Wooded corridors may be dense or loose aggregates of trees with variable amounts of canopy closure.		

SPECIES HABITAT

	Number of acres of forested/wooded area within the NEPA Environmental Study Footprint (<u>include shapefiles</u>). Include forests and woodlots, as well as linear features such as fencerows, riparian forests, and other wooded corridors. Wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit characteristics of suitable roost trees and are within 1000 feet of other forested/wooded habitat.	0
Monarch Butterfly	Presence of milkweed (Asclepias sp.) species within the NEPA Environmental Study Footprint.	
	Presence of flowering or potentially flowering nectar plants (<i>defined as forbs that can provide nectar for monarchs at some point in the growing season</i>) within the NEPA Environmental Study Footprint.	\boxtimes
	Presence of additional native habitat within the NEPA Environmental Study Footprint.	\boxtimes

NEPA Bridge, Culvert & Structure Assessment Form for All Listed Bat Species

If all bridge, culverts and structures are 1,000 feet or more from suitable bat habitat (e.g. an urban or agricultural area without suitable foraging habitat or corridors linking the bridge, culvert or structure to suitable foraging habitat), check this box and STOP HERE. Fill out p.1 of Appendix D Assessment.

BRIDGE INSPECTION: Identify ALL Bridges by NBI # (include RCB bridges) **CULVTERT INSPECTION:** Identify ALL Culverts ≥4 feet in diameter within the Study Area **BARN/SHED INSPECTION:** Identify ALL structures within the Study Area that potentially could be removed

Method of Inspection (check all that apply)	🖂 Visual	□ Ladder	□ Snooper	\Box Thermal
\Box Acoustic Survey \Box Emergence Survey (30	minutes at du	usk and 1 hou	ır after dark)	

Fill out p.2 of Appendix D Assessment for each bridge/culvert/structure

1. Page where located in appendix: D-1

Road Number /Name	NBI Number	Water Body (or road if over road)			
Highway 412B – Culvert 1	36.1877129, -95.2806588	Tributary to Chouteau Creek			
BRIDGE/CULVERT/STRUCTURE COULD NOT BE FULLY INSPECTED					
due to height, traffic, or other conditions limiting access to thoroughly inspect all parts of bridge due to inundation or other conditions limiting access. Explain reasons in the Notes.					
NOTES: Culvert was fully inspected, and no evidence of bat use was observed.					

2. Page where located in appendix: D-2

Road Number /Name	NBI Number	Water Body (or road if over road)			
Highway 412B – Culvert 2	36.2115583, -95.2878803 Tributary to Pryor Creek				
due to height, traffic, or other co or other conditions limiting acco	UCTURE COULD NOT BE onditions limiting access to thorou ess. Explain reasons in the Notes. Inspected, and no evidence of l	ighly inspect all parts of bridge due to inundation			

3. Page where located in appendix: D-3

Road Number /Name	NBI Number	Water Body (or road if over road)				
Highway 412B – Culvert 3	- Culvert 3 36.2234096, -95.2792216 Tributary to Pryor Creek					
due to height, traffic, or other co or other conditions limiting acco	UCTURE COULD NOT BE onditions limiting access to thorou ess. Explain reasons in the Notes. Inspected, and no evidence of b	ghly inspect all parts of bridge due to inundation				

4. Page where located in appendix: D-4

Road Number /Name	NBI Number	Water Body (or road if over road)			
Highway 412B – Culvert 4	4 36.2388164, - 95.2791609 Tributary to Pryor Creek				
BRIDGE/CULVERT/STRUCTURE COULD NOT BE FULLY INSPECTED due to height, traffic, or other conditions limiting access to thoroughly inspect all parts of bridge due to inundation or other conditions limiting access. Explain reasons in the Notes.					
NOTES: Culvert was fully inspected, and no evidence of bat use was observed.					

5. Page where located in appendix: D-5

Road Number /Name	NBI Number	Water Body (or road if over road)		
Highway 412B – Culvert 5	36.2448817, -95.2792573	Roadside ditch		
due to height, traffic, or other co or other conditions limiting acco	UCTURE COULD NOT BE onditions limiting access to thorou ess. Explain reasons in the Notes. inspected, and no evidence of l	ighly inspect all parts of bridge due to inundation		

4. ANALYSIS OF EFFECTS

Direct Birects		
Species/ Resource	Habitat impacts expected from project activities	Describe specific ACTIONS of the project and the results of those actions on species habitats, including indirect impacts to prey or drinking water, as well as improvements to habitat as a result of specific actions. If habitat within the action area identified above will not be impacted, describe why.
Gray Bat		This project consists of pavement rehabilitation of an existing roadway and shoulders on exiting paved surfaces within existing maintained ROW. The only off-pavement work will occur at the intersection of US-412 and SH-412B within the existing maintained mowed R/W. No roadway drainage structures, or culverts will be extended or modified and no impacts to water quality expected. Additionally, bat use of these structures was not observed. Impacts to bats, however, could result from vibration to these structures from pavement rehabilitation activities and construction lighting if bats use these areas during the construction activities.
Northern Long-eared Bat		Although there are treed areas immediately adjacent to the study footprint (originating on the other side of the R/W fence), no treed areas occur within the study footprint and no wooded or forested habitat will be impacted by the proposed project. No roadway drainage structures, or culverts will be extended or modified. Additionally, bat use of these structures was not observed. Impacts to bats, however, could result from vibration to these structures from pavement rehabilitation activities and construction lighting if bats use these areas during the future construction activities.
American Burying Beetle		The only off-pavement work will occur at the junction of US-412 and SH-412B within areas of existing maintained mowed R/W. No areas of native perennial plant vegetation (where native perennial vegetation is the dominant vegetation) occur within the study footprint, and no areas of this habitat within the action area will be impacted by project activities. Impacts to the American burying beetle from construction lighting could result in attracting the beetle to the construction area.
Monarch Butterfly		The only off-pavement work will occur at the intersection of US-412 and SH-412B within areas of existing maintained mowed R/W. Although the presence of flowering or potentially flowering nectar plants and additional native vegetation occurs within the study footprint (none where those species are the dominant vegetation), no impacts will occur to these habitat areas from the proposed project.

4.1 Direct Effects

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4.2 Indirect Effects

Long-term habitat alterations

Species/ Resource	Identify long-term, permanent changes in habitat
NA	No indirect effects to species of concern are expected.

Indirect land use impacts

Although development is continuing to grow within the industrial park, no changes to current land use are anticipated as a result of this pavement rehabilitation project.

4.3 Interrelated and Interdependent Actions and Activities

This project has no capacity expansion and will not impact current land use, therefore, no interrelated and interdependent actions are expected.

USFWS TAILS Number:	2022-0007566
ODOT Project JP Number:	33821(04)

	CONCI	LUSION	ESA SECTION 7		NOTES AND DOCUMENTATION Check $$ all that apply					
SPECIES / DESIGNATED CRITICAL HABIT	Species Habitat present within the action area	Project Activities expected to impact habitat	No Effect	not ad	y affect, likely to versely ıffect	May affect, Likely to adversely affect	Field Studies	ONHI database / ABB	USFWS occupied waterbodies & watersheds	Whooping Crane Migration Corridor
American Burying Beetle					Project u the final	ses the BO for 4(d) rule		\boxtimes		
Northern long-eared bat				Final Effect Analysis and Determination covered in the Programmatic BA&BO						
					Project u the final	ses the BO for 4(d) rule				
Gray Bat	\boxtimes				\boxtimes		\boxtimes			
Piping Plover							\boxtimes			
Red Knot			\boxtimes				\boxtimes			
Monarch Butterfly							\boxtimes			

CONCLUSIONS

No Effect	Piping Plover, Red Knot, Monarch Butterfly
May affect	American Burying Beetle
May affect, not likely to adversely affect	Gray bat, Northern long-eared bat
May affect, likely to adversely affect	
Not likely to jeopardize the continued	
existence of the species – Candidate	
species only	
Appropriate Effect Determination for	
ABB has been made under the BO for the	\boxtimes
final 4(d) rule	
Appropriate Effect Determination has	
been made under the FHWA	\boxtimes
NLEB/Ibat Programmatic BA & BO	
Appropriate Effect Determination for	
NLEB has been made under the BO for	
the final 4(d) rule	

RECOMMENDED AVOIDANCE AND MINIMIZATION MEASURES

Because the project occurs within American Burying Beetle range, but <u>no suitable habitat occurs</u> within the project's study area, impacts to the species would be insignificant and discountable.

- a) Use of artificial lighting will be minimized. If night construction is necessary, direct light will be shielded to the work area and prevent light from projecting upwards. A special provision will be included in the project contract which outlines approved lighting for use during night work.
- b) Carcasses and all food trash will continuously be removed from the permanent right of way and temporary right of way throughout the duration of the project activities.
- c) Pollution Prevention Requirements as specified by the Oklahoma Department of Environmental Quality General Permit OKR10 for Storm Water Discharges shall be implemented. Additionally, all equipment will be fueled, and all fuel and motor vehicle oil will be stored outside ABB habitat.

Because the project occurs within suitable habitat for listed bats, but <u>does not involve removal of trees or</u> the removal or modification of suitable bridge or culvert roosting structures, impacts to the species would be insignificant. All **temporary lighting**, if used, will be directed away from suitable habitat during the active season for bats (April 1 – November 15). If any **permanent lighting** is installed or replaced, downward-facing full cut-off lens lights shall be installed and directed away from suitable bat habitat. Additional consultation with USFWS will be necessary if habitat will be impacted by any change in project activities.

Potential impacts to water quality affecting the prey species of foraging **gray bats**, has been identified in the project's action area. Hazardous materials, chemicals, fuels, lubricating oils, and other such substances shall be stored at least 100 feet outside of the ordinary high water mark (OHWM). Refueling of construction equipment shall also be conducted outside of the OHWM. Sediment and erosion controls shall be installed around these staging areas to prohibit discharge of materials from these sites. Construction waste materials and debris shall be stockpiled at least 25 feet outside of the OHWM, and these materials shall be removed and disposed of properly following completion of the project. Appropriate Best Management Practices to minimize impacts from storm water discharges, as established by the Oklahoma Department of Environmental Quality, shall be conscientiously implemented throughout the proposed construction periods. The effectiveness of erosion controls shall be maintained for the duration of construction activities.

5. BALD AND GOLDEN EAGLE PROTECTION ACT ASESSMENT

5.1. Bald Eagle Assessment

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

Potential Bald Eagle Habitat Present	w/in NEPA Footprint	w/in 660 ft Buffer of NEPA Footprint	DO NOT LEAVE BLANK	
Presence of Cottonwood, Sycamore, Pecan or Pine			The woodlands near this project are primarily along the southern portion of the NEPA Environmental Study Footprint. Cottonwoods and pecans are present in the wooded areas.	
Open foraging areas with large trees			The open areas for foraging are along the Neosho River ~700ft southeast of the southern boundary of the project. Near the middle portion of the project, a large pond is located 150 ft east.	
Distance to closest perennial water body	River or Lake	700 ft	The Neosho River is located 700 ft east of the Environmental Study Footprint. Three	
F	Stream or Pond	150 ft	ponds are located along the southern portion of the Environmental Study Footprint.	
Potential Bald Eagle Nests Observed			No nests were observed within the footprint or 660 feet from the footprint. There is a nest, however, along US-412, but it is ~850 feet from the proposed project area.	
Bald Eagles Observed in the general vicinity			No Bald Eagles were observed in vicinity during the field study	
General Description of Bald Eagle Nesting Habitat and Impact Determination, within the NEPA Footprint and within 660-ft of the NEPA Footprint	Areas suitable of Bald Eagles can be found along the southern portion of the NEPA Environmental Study Footprint. Large trees suitable for nesting and perching are found along the Neosho River, southeast of the project. This area would also provide high quality foraging areas.			
Station #s for Buffered Bald Eagle Habitat	Station 100+53.00 to 119+62.48			
In order to avoid impacts to Bald Eagles, if Bald Eagles or their habitat are observed during the biological assessment, a survey for eagles and their nests will be conducted within 660 feet of the work zone, during the winter prior to, and within one year of, the start of construction. If a nest				

is found, appropriate conservation measures based on the National Bald Eagle Management Guidelines will be implemented.

6. MIGRATORY BIRD TREATY ACT (MBTA) ASSESSMENT

6.1 Structure Assessment

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

Identify <u>ALL</u> structures including pipe culverts and whether	Approx.	Approx.	Approx.		
positive or negative for migratory birds (identify named	Number	Number	Number		
streams where possible rather than just FS#). Provide	of Cliff	of Barn	of Eastern		
shapefiles and map of structures identifying pos/neg swallow	Swallow	Swallow	Phoebe		
structures.	Nests	Nests	Nests		
Highway 412B – Culvert 1, 36.1877129, -95.2806588	0	0	0		
Highway 412B – Culvert 2, 36.2115583, -95.2878803	0	0	0		
Highway 412B – Culvert 3, 36.2234096, -95.2792216	0	0	0		
Highway 412B – Culvert 4, 36.2388164, - 95.2791609	0	0	0		
Highway 412B – Culvert 5, 36.2448817, -95.2792573	0	0	0		
Other MB and Nests No other migratory bird nests observed.					
Observed					
Based on existing plans, no work on suitable drainage structures will occur					

6.2 Birds of Conservation Concern

Species Identified on IPaC list	Breeding Season			
Prothonotary Warbler	April 1 – July 31			
Red-headed Woodpecker	May 10 – September 10			
Rusty Blackbird Breeds Elsewhere				
This project is a resurfacing of an existing road with no tree clearing, and therefore is unlikely to				

have any direct impacts on these species or their nesting habitat.

6.3 Interior Least Tern

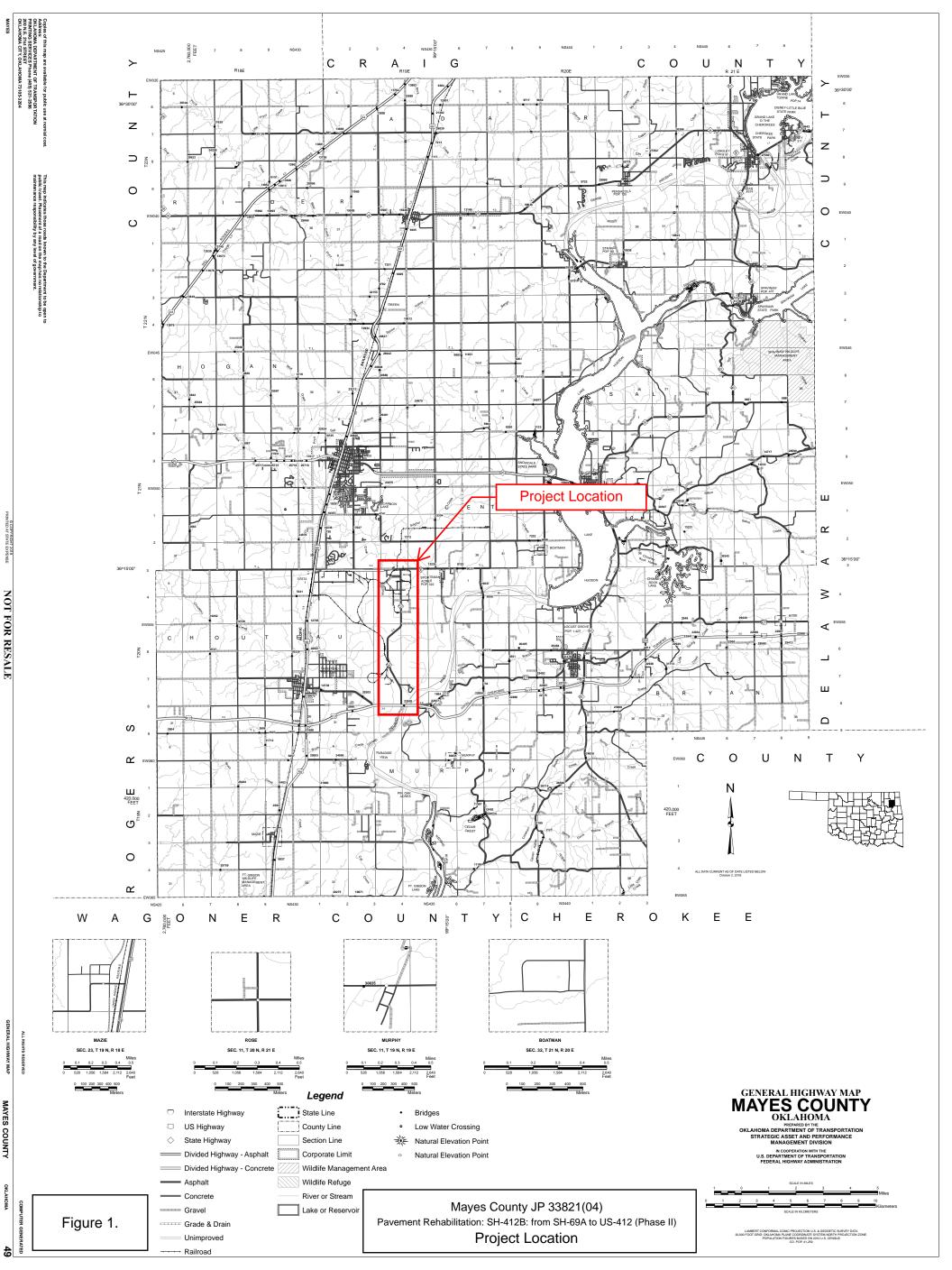
Sparsely vegetated islands or sandbars along large rivers, with nearby areas of shallow	
water, occur within the 0.25 miles of the NEPA Environmental Study Footprint.	
Not Interior Least Tern habitat within or near the NEPA Environmental Footprint.	

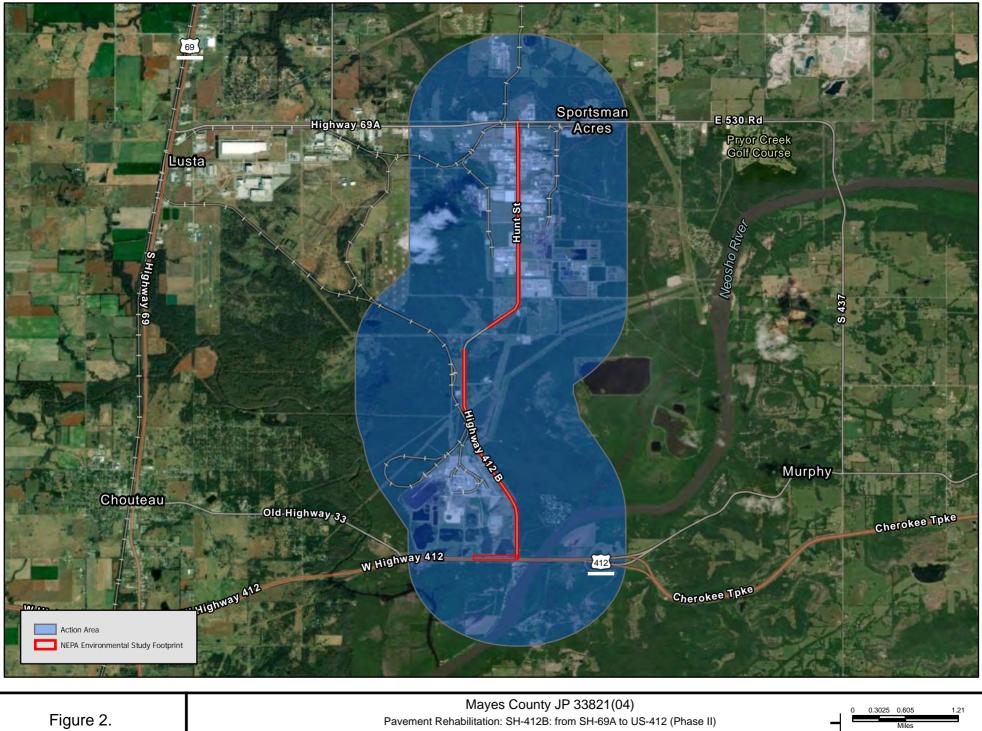
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7. **REFERENCES:**

- Carter, B. J. and Gregory M.S., 2008, Soil Map of Oklahoma. Department of Plant and Soil Sciences, Oklahoma State University.
- IPaC Information for Planning and Consultation. Accessed 02/15/2022. Online. https://ecos.fws.gov/ipac/
- United States Fish and Wildlife Service. Publication date May 2021. National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. http://www.fws.gov/wetlands/
- United States Geological Survey. *Chouteau Quadrangle, Mayes County, Oklahoma.* 1:24,000. 7.5 Minute Series. Reston, VA: United States Department of the Interior, USGS, 2019.
- 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).

8. FIGURES

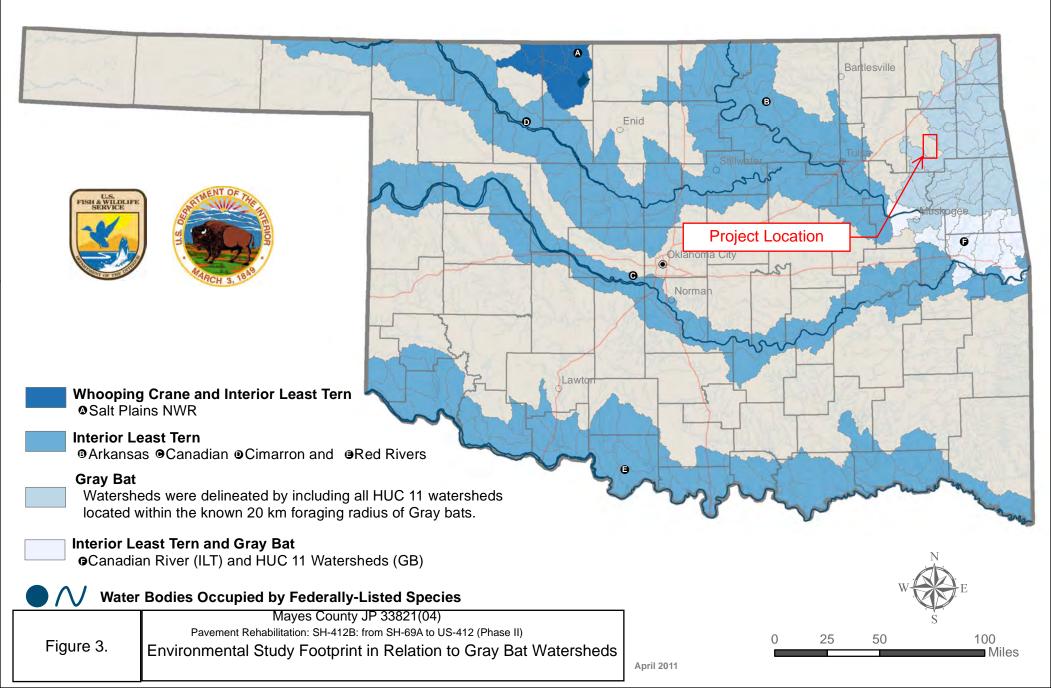


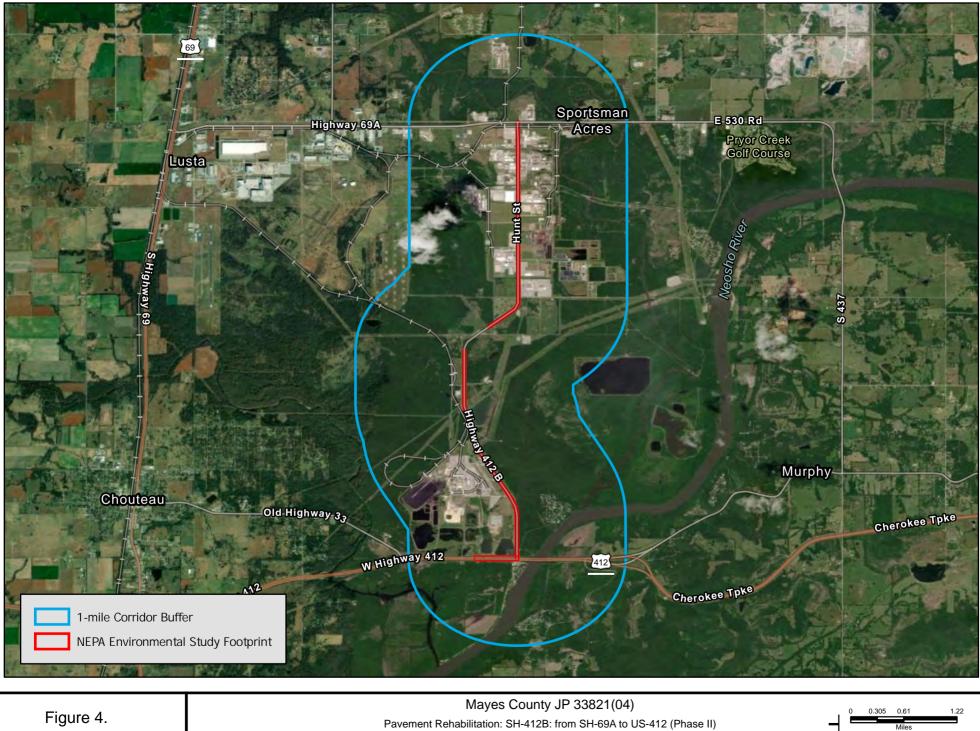


Environmental Study Footprint and Action Area

Federally-Listed Aquatic Dependent Species Watersheds of Oklahoma

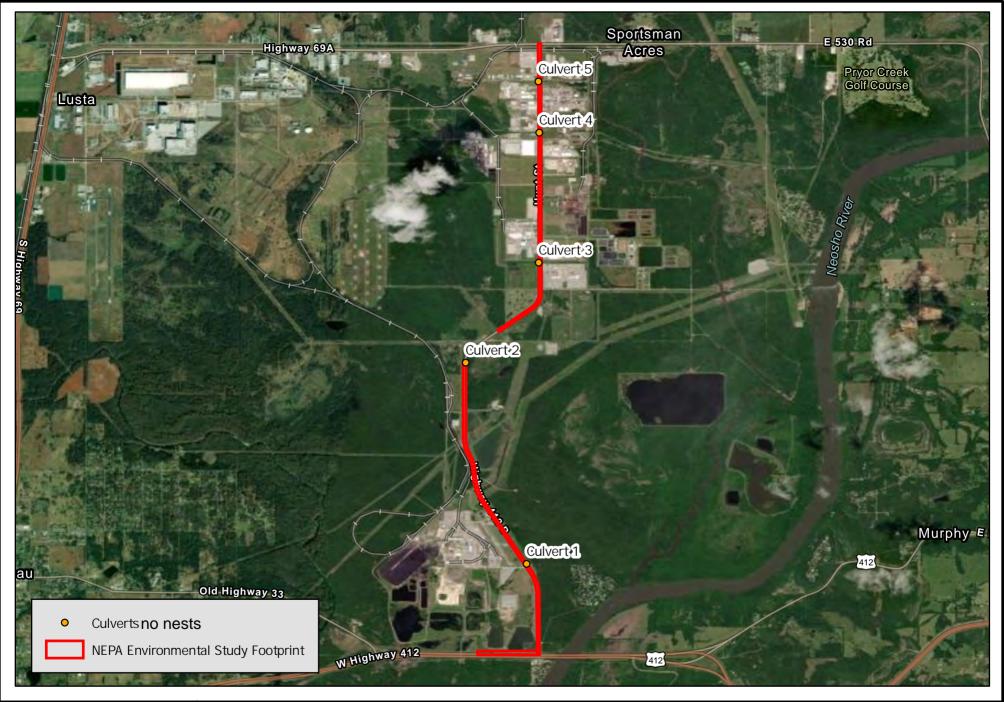
These watersheds were delineated using 11 digit Hydrologic Unit Code (HUC) watersheds. All watersheds adjacent to water bodies occupied by federally-listed species are included in the delineation, as well as those 11 digit HUC watersheds within 10 miles of the occupied water body. <u>Please note</u> that not all 11 digit HUC watersheds that feed into sensitive occupied water bodies are included in this delineation and effects to those watersheds outside of this delineation could impact sensitive water bodies.





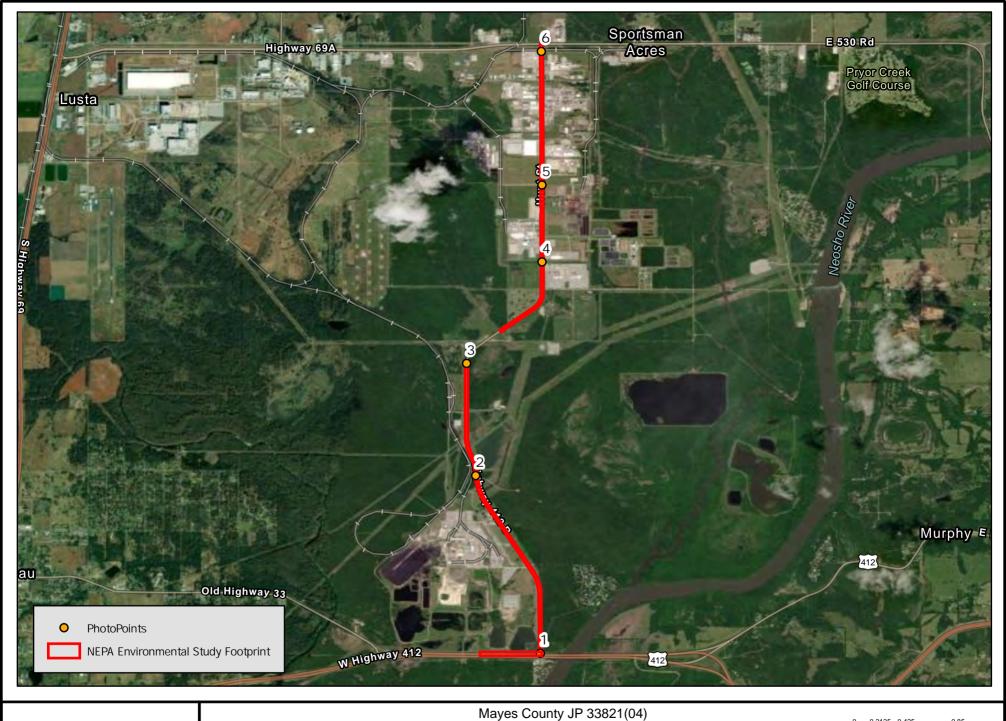
,	4.			

BatTravel Corridor Map



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Figure 5.	Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II)	_
	Bridge and Culvert Structures	_





Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II) Photo Location Map



olsson



1. P1 Looking east



3. P1 looking south.



5. P2 Looking east



2. P1 looking west



4. P2 looking north



6. P2 looking south

olsson



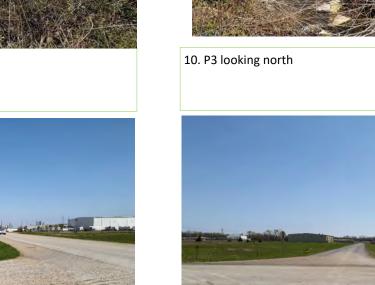
7. P2 Looking west



8. P3 looking east



9. P3 looking south





11. P4 looking north





12. P4 looking east

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13. P4 looking west



15. P5 looking north



17. P5 looking south



14. P4 looking south



16. P5 looking east



18. P5 looking west

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United States Department of the Interior

FISH AND WILDLIFE SERVICE Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428 Phone: (918) 581-7458 Fax: (918) 581-7467 http://www.fws.gov/southwest/es/Oklahoma/



May 18, 2022

In Reply Refer To: Project Code: 2022-0007566 Project Name: Sh-412B Pavement Rehab Mayes County JP 33821(04)

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

To Whom It May Concern:

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

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

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

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

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

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

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

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 Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

Official Species List

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

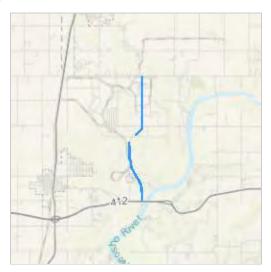
This species list is provided by:

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

Project Summary

Project Code:2022-0007566Event Code:NoneProject Name:Sh-412B Pavement Rehab Mayes County JP 33821(04)Project Type:Road/Hwy - Maintenance/ModificationProject Description:Pavement Rehabilitation SH-412B: from SH-69A to US-412Project Location:Formation SH-412B: from SH-69A to US-412

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@36.193770099999995,-95.28494009577389,14z</u>



Counties: Mayes County, Oklahoma

Endangered Species Act Species

There is a total of 6 threatened, endangered, or candidate species on this species list.

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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

Mammals

NAME	STATUS
Gray Bat <i>Myotis grisescens</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/6329</u>	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9045</u>	Threatened
Birds NAME	STATUS
Piping Plover Charadrius melodus Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u>	Threatened
Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened

Insects	
NAME	STATUS
American Burying Beetle Nicrophorus americanus	Threatened
Population: Wherever found, except where listed as an experimental population	
No critical habitat has been designated for this species.	
Species profile: <u>https://ecos.fws.gov/ecp/species/66</u>	
Monarch Butterfly <i>Danaus plexippus</i>	Candidate
No critical habitat has been designated for this species.	
Species profile: https://ecos.fws.gov/ecp/species/9743	

Critical habitats

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

USFWS National Wildlife Refuge Lands And Fish Hatcheries

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

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

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act^{1} and the Bald and Golden Eagle Protection Act^{2} .

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

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

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Prothonotary Warbler <i>Protonotaria citrea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31

NAME	BREEDING SEASON
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions	Breeds elsewhere

(BCRs) in the continental USA

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

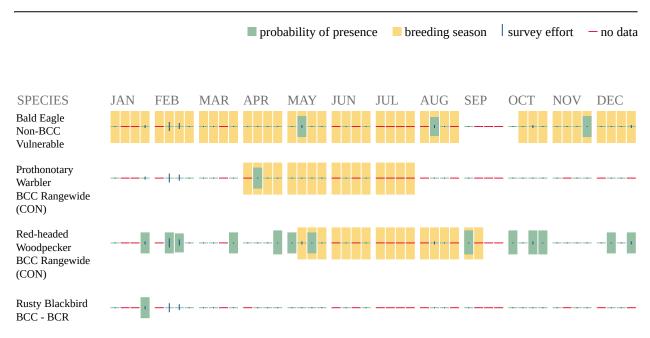
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Additional information can be found using the following links:

- Birds of Conservation Concern <u>https://www.fws.gov/program/migratory-birds/species</u>
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>

Migratory Birds FAQ

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

<u>Nationwide Conservation Measures</u> describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in

the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> or <u>permits</u> may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

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

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

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

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

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN</u>). This data is derived from a growing collection of <u>survey, banding, and citizen science datasets</u>.

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

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

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

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

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

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

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS Integrative Statistical</u> <u>Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic</u> <u>Outer Continental Shelf</u> project webpage.

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

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of

certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Wetlands

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

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

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

RIVERINE

<u>Riverine</u>

IPaC User Contact Information

Agency:Oklahoma Department of TransportationName:Julianne WhitakerAddress:11600 Broadway Extension, Suite 300City:Oklahoma CityState:OKZip:73114Emailjwhitaker@olsson.com

Phone: 4057408912

Lead Agency Contact Information

Lead Agency: Federal Highway Administration

APPENDIX D: Bridge/Structure Bat Assessment Form

Bridge/Structure Bat Assessment Form Instructions

- This form will be completed to document bat occupancy or bat use of bridges, culverts, and other structures. This form shall be submitted to the appropriate personnel within the DOT and USFWS for recordkeeping (or uploaded into the Information, Planning, and Consultation (IPaC) Determination Key for use of the Programmatic Biological Opinion for Transportation Projects in the Range of the Indiana Bat and Northern Long-Eared Bat) prior to conducting: any activities below the deck surface either from the underside or from above the deck surface that bore down to the underside; any activities that could impact expansion joints; any activities involving deck removal on bridges; or any activities involving structure demolition for bridges, culverts, and/or other structures.
- Assessments must be completed within two (2) years of conducting any work (see the above bullet), regardless of whether assessments have been conducted in the past. Assessments must be completed in appropriate weather conditions, suitable for the assessor to observe common signs of bat use.
- Evidence of bat use may include visual observation (live and/or dead), presence of guano, presence of staining, audible observation, and/or odor observation. Presence of one or more indicators is sufficient evidence that bats may be using the bridge, culvert, and/or other structure.
- If bat use of a bridge, culvert, and/or other structure is noted, additional studies may be undertaken during bat active season to identify the specific bat species utilizing the structure, or protected bat species presence can be assumed, in order to comply with threatened and endangered species regulations. Bat active season dates, typically between April and November, vary regionally and by species, so assessors should consult with their local USFWS Field Office for more specific active season dates.
- For use of the Programmatic Biological Opinion for Transportation Projects in the Range of the Indiana Bat and Northern Long-Eared Bat – If the bridge/structure is 1,000 feet or more from suitable bat habitat¹ (e.g., an urban or agricultural area without suitable foraging habitat or corridors linking the bridge to suitable foraging habitat), check the appropriate box and fill out the table below. No further assessment is required.

Date & Time of Assessment	DOT Project #	Route/Facility Carried	County				
Federal Structure ID	Structure Coordinates (latitude and longitude)	 This bridge/structure is 1,000 feet or more from suitable bat habitat² Name: 					
		Signature:					

• Any questions pertaining to assessments or this form should be directed to the local USFWS Field Office.

¹ Refer to the USFWS's summer survey guidance for the definition of suitable habitat (http://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html).

² This condition is only for use of the Programmatic Biological Opinion for Transportation Projects in the Range of the Indiana Bat and Northern Long-Eared Bat

Date & Time of Assessment	Numbe	<u>per</u>	Route/Facility Carried			County					
<u>Federal</u> <u>Structure ID</u>		<u>ture Coordinates</u> ide and longitude)	<u>Structure Height</u> (approximate)			<u>Structure</u> Length					
Structure Type (check one)			St	ructure Mat	teri	al (check all	tha	at apply)			
Bridge Construction Style				eck Material			End/Back Wall Material				
Cast-in-place	Pre	re-stressed Girder	P	Metal Concrete		None Concrete	_	Concrete Timber			
			┢┥	Concrete Timber		Steel		Timber Stone/Masonry			
Flat Slab/Box	Ste	eel I-beam		Open grid		Timber		Other:			
	Cov	overed		Other:		Other:	Cre	eosote Evide	ence	<u>)</u>	
Parallel Box Beam	Oth	her:	Сι	ulvert Material	1			Yes Unknown		No	
Culvert Type	Other	er Structure	F	Metal Concrete			Not	tes:			
Box				Plastic							
Pipe/Round Other:	-			Stone/Masonry Other:			-				
Crossings Traversed (check all th	hat app	oply)		urrounding	Ha	bitat (check	all	that apply)			
Bare ground		pen vegetation		Agricultural				Grassland			
Rip-rap		osed vegetation		Commercial				Ranching			
Flowing water Standing water		ailroad bad/trail - Type:	⊢⊣	Residential-urbar Residential-rural	n			Riparian/wetlan Mixed use	a		
Seasonal water		ther:		Woodland/foreste	ed		_	Other:			
Areas Assessed (check all that ap											
Check all areas that apply. If an area is not		nt in the structure, check the "not pres	ent'	' hox							
Document all bat indicators observed durin					novi	de photo docur	neni	tation as indic	ated	I	
			_								
Area (check if assessed) [All crevices and cracks:			Εv		Sau		notos if prese		1)	0	
Bridges/culverts: rough surfaces or	ΝΟι	ot present	{ }	Visual - live #		dead #	_	Audible Odor	+	Species	
imperfections in concrete			H	Guano		ueau #	_	Photos	-		
Other structures: soffits, rafters, attic				Staining			-	1 110100			
areas											
	Not	ot present						Audible		Species	
Concrete surfaces (open roosting on				Visual - live #		dead #		Odor			
└─┘ concrete)				Guano				Photos			
	┝───			Staining						-	
	Not	ot present		Vieual live #		dood #		Audible	_	Species	
Spaces between concrete end walls and the bridge deck			\vdash	Visual - live # Guano		dead #		Odor Photos	-		
and the bildge deck			\vdash	Staining				FIIOLOS			
Crack between concrete railings on top	Not	ot present	M	5				Audible		Species	
Gap				Visual - live #		dead #		Odor		•	
Railing				Guano				Photos			
				Staining				A 111 1	_		
	Not	ot present		Visual - live #		dead #	_	Audible Odor	_	Species	
Vertical surfaces on concrete I-beams			Guano		ueau #	Photos					
				Staining			-	1 110100			
	Not	ot present	m	, , , , , , , , , , , , , , , , , , ,				Audible		Species	
Spaces between walls, ceiling joists				Visual - live #		dead #	_	Odor		-	
				Guano				Photos			
	Not	ot present	┢━┥	Staining			T	Audible	-	Species	
Weep holes, scupper drains, and	INOL	i present		Visual - live #		dead #	_	Odor	-	Species	
inlets/pipes				Guano			_	Photos			
				Staining							
	Not	ot present						Audible		Species	
All guiderails				Visual - live #		dead #		Odor			
			Guano					Photos	_		
	Net		┢┻┥	Staining				Audible	_	Species	
	INOL	ot present		Visual - live #		dead #		Odor		Species	
All expansion joints				Guano				Photos			
				Staining							
					1	a. 1:		9			
Name:			Si	gnature: 7	61	trangel	la,				

APPENDIX D: Bridge/Structure Bat Assessment Form

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- Assessments must be completed within two (2) years of conducting any work (see the above bullet), regardless of whether assessments have been conducted in the past. Assessments must be completed in appropriate weather conditions, suitable for the assessor to observe common signs of bat use.
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<u>Federal</u> <u>Structure ID</u>		r <u>ucture Coordinates</u> titude and longitude)		ructure Height oproximate)			<u>Struc</u> Leng	<u>cture</u> <u> th</u>	
Structure Type (check one)			St	ructure Mat	teri	i al (check all	that	apply)	
Bridge Construction Style			De	eck Material	Be		End	/Back Wall N	Naterial
Cast-in-place		Pre-stressed Girder		Metal		None		oncrete	
				Concrete Timber		Concrete Steel		imber tone/Masonry	
Flat Slab/Box		Steel I-beam		Open grid		Timber		ther:	
		Covered		Other:		Other:	Crea	osote Evider	nce
Parallel Box Beam		Other:	Сι	ulvert Materia	1			es nknown	No
Culvert Type	Oi	ther Structure	-	Metal Concrete			Note	<u>s:</u>	
Box				Plastic					
Pipe/Round				Stone/Masonry					
Other:				Other:					
Crossings Traversed (check all the	hat		Sι		Ha	bitat (check			
Bare ground		Open vegetation		Agricultural				rassland	
Rip-rap	_	Closed vegetation	_	Commercial				anching	
Flowing water	-	Railroad		Residential-urba	n			iparian/wetland lixed use	
Standing water Seasonal water	-	Road/trail - Type: Other:	-	Residential-rural Woodland/forest	ed			ither:	
	l.			Woodana/Iorest	cu		U		
Areas Assessed (check all that ap Check all areas that apply. If an area is not			ont	" how					
Document all bat indicators observed durin						ida abata dagur	nonto	tion on indian	tod
			-						leu.
Area (check if assessed)	A	ssessment Notes	E)	vidence of E	sat	s (include ph		,	
All crevices and cracks:		Not present	-	Vieual live #		dood #		udible	Species
Bridges/culverts: rough surfaces or				Visual - live #		dead #		dor	
imperfections in concrete				Guano Staining			P	hotos	
Other structures: soffits, rafters, attic				Otaining				L	
areas		Not present		1				udiblo	Species
Concrete surfaces (open roosting on	-	Not present		Visual - live #		dead #		udible dor	Species
concrete)			-	Guano		dodd ii		hotos	
				Staining					
		Not present					A	udible	Species
Spaces between concrete end walls				Visual - live #		dead #		dor	
and the bridge deck				Guano			P	hotos	
Orealy hatwaar accordents willings on tar	-		-	Staining					On e sie s
Crack between concrete railings on top		Not present		Visual - live #		dead #		udible dor	Species
			_	Guano				hotos	
Railing →				Staining					
		Not present					A	udible	Species
Vertical surfaces on concrete I-beams				Visual - live #		dead #		dor	
				Guano			P	hotos	
		Network		Staining					Oracian
	-	Not present		Visual - live #		dead #		udible dor	Species
Spaces between walls, ceiling joists			_	Guano		dead #		hotos	
				Staining			- <u></u>	notoo	
		Not present		U			A	udible	Species
Weep holes, scupper drains, and				Visual - live #		dead #	0	dor	
inlets/pipes				Guano			P	hotos	
				Staining					
		Not present	-			dood #		udible	Species
All guiderails			_	Visual - live #		dead #		dor	
	1		\vdash	Guano Staining				hotos	
	+	Not present		e.amig			Α	udible	Species
		<u> </u>	1	Visual - live #		dead #		dor	
All expansion joints				Guano				hotos	
				Staining					
Name:			Si	gnature: 7	6	than Hil	in		

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Structure Type (check one)			St	ructure Mat	teri	i al (check all	that	apply)	
Bridge Construction Style			De	eck Material	Be		End	/Back Wall N	Naterial
Cast-in-place		Pre-stressed Girder		Metal		None		oncrete	
				Concrete Timber		Concrete Steel		imber tone/Masonry	
Flat Slab/Box		Steel I-beam		Open grid		Timber		ther:	
		Covered		Other:		Other:	Crea	osote Evider	nce
Parallel Box Beam		Other:	Сι	ulvert Materia	1			es nknown	No
Culvert Type	Oi	ther Structure	-	Metal Concrete			Note	<u>s:</u>	
Box				Plastic					
Pipe/Round				Stone/Masonry					
Other:				Other:					
Crossings Traversed (check all the	hat		Sι		Ha	bitat (check			
Bare ground		Open vegetation		Agricultural				rassland	
Rip-rap	_	Closed vegetation	_	Commercial				anching	
Flowing water	-	Railroad		Residential-urba	n			iparian/wetland lixed use	
Standing water Seasonal water	-	Road/trail - Type: Other:	-	Residential-rural Woodland/forest	ed			ither:	
	l.			Woodana/Iorest	cu		U		
Areas Assessed (check all that ap Check all areas that apply. If an area is not			ont	" how					
Document all bat indicators observed durin						ida abata dagur	nonto	tion on indian	tod
			-						leu.
Area (check if assessed)	A	ssessment Notes	E)	vidence of E	sat	s (include ph		,	
All crevices and cracks:		Not present	-	Vieuel live #		dood #		udible	Species
Bridges/culverts: rough surfaces or				Visual - live #		dead #		dor	
imperfections in concrete				Guano Staining			P	hotos	
Other structures: soffits, rafters, attic				Otaining				L	
areas		Not present		1				udiblo	Species
Concrete surfaces (open roosting on	-	not present		Visual - live #		dead #		udible dor	Species
concrete)			-	Guano		dodd ii		hotos	
				Staining					
		Not present					A	udible	Species
Spaces between concrete end walls				Visual - live #		dead #		dor	
and the bridge deck				Guano			P	hotos	
Orealy hatwaar accordents willings on tar	-		-	Staining					On e sie s
Crack between concrete railings on top		Not present		Visual - live #		dead #		udible dor	Species
			_	Guano				hotos	
Railing →				Staining					
		Not present					A	udible	Species
Vertical surfaces on concrete I-beams				Visual - live #		dead #		dor	
				Guano			P	hotos	
		Network		Staining					Oracian
	-	Not present		Visual - live #		dead #		udible dor	Species
Spaces between walls, ceiling joists			_	Guano		dead #		hotos	
				Staining			- <u></u>	notoo	
		Not present		U			A	udible	Species
Weep holes, scupper drains, and				Visual - live #		dead #	0	dor	
inlets/pipes				Guano			P	hotos	
				Staining					
		Not present	-			dood #		udible	Species
All guiderails			_	Visual - live #		dead #		dor	
	1		\vdash	Guano Staining				hotos	
	+	Not present		e.amig			Α	udible	Species
		<u> </u>	1	Visual - live #		dead #		dor	
All expansion joints				Guano				hotos	
				Staining					
Name:			Si	gnature: 7	6	than Hil	in		

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Structure Type (check one)			St	ructure Mat	teri	i al (check all	tha	at apply)		
Bridge Construction Style			De	eck Material	Be		En	d/Back Wal	l Ma	terial
Cast-in-place		Pre-stressed Girder		Metal Concrete		None		Concrete Timber		
				Timber		Concrete Steel		Timber Stone/Masonry	,	
Flat Slab/Box		Steel I-beam	-	Open grid		Timber	_	Other:		
Truss Side View		Covered		Other:		Other:		eosote Evid	ence)
Parallel Box Beam		Other:	Сι	ulvert Material	I			Yes Unknown		No
Culvert Type	Ot	ther Structure	_	Metal Concrete			Not	es:		
Box				Plastic						
Pipe/Round				Stone/Masonry						
Other:				Other:		h tat (shaal)		4h at an a h d		
Crossings Traversed (check all th	nat		5		на	bitat (check				
Bare ground Rip-rap		Open vegetation Closed vegetation		Agricultural Commercial				Grassland Ranching		
Flowing water		Railroad		Residential-urba	n			Riparian/wetlar	nd	
Standing water		Road/trail - Type:		Residential-rural				Mixed use		
Seasonal water		Other:		Woodland/forest	ed		Ū	Other:		
Areas Assessed (check all that ap	vlaa	<u></u>								
Check all areas that apply. If an area is not			ent	" box.						
Document all bat indicators observed durin					orov	ide photo docur	nent	tation as indi	cated	I.
Area (check if assessed)	_	ssessment Notes				s (include ph				
All crevices and cracks:	/	Not present	-		Jui			Audible	1	Species
Bridges/culverts: rough surfaces or				Visual - live #		dead #	_	Odor		opooloo
imperfections in concrete				Guano			_	Photos		
Other structures: soffits, rafters, attic				Staining						
areas							-			
		Not present						Audible		Species
Concrete surfaces (open roosting on				Visual - live #		dead #	(Odor		-
└── concrete)				Guano				Photos		
				Staining				A 111 1		
Spaces between concrete end walls	_	Not present	-	Visual - live #		dead #		Audible Odor	_	Species
and the bridge deck				Guano		ueau #		Photos		
				Staining				110103		
Crack between concrete railings on top	Ĩ	Not present		Ŭ				Audible		Species
of the bridge deck Gap				Visual - live #		dead #	(Odor		_
Railing				Guano				Photos		
	_		_	Staining						
		Not present		Visual - live #		dead #	_	Audible	_	Species
Vertical surfaces on concrete I-beams				Guano		ueau #	_	Odor Photos	_	
			-	Staining			<u> </u>	110103		
		Not present		3				Audible		Species
Spaces between walls, ceiling joists				Visual - live #		dead #		Odor		•
				Guano				Photos		
		1		Staining						
Ween heles, souppor drains, and		Not present		Visual - live #		dead #		Audible	_	Species
Weep holes, scupper drains, and inlets/pipes				Guano		ueau #		Odor Photos	_	
initers/pipes				Staining				FIIOLOS	_	
		Not present		e can mig				Audible		Species
				Visual - live #		dead #		Odor		•
All guiderails				Guano				Photos		
				Staining						
	F	Not present	1				_	Audible		Species
All expansion joints			⊢	Visual - live #		dead #	_	Odor Dhataa	4	
			⊢	Guano				Photos	-	
	_		+	Staining	~	a ter an a const	_			
Name:			Si	gnature: 7	6	than Hil	la			

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Crossings Traversed (check all th	nat		5		на	bitat (check				
Bare ground Rip-rap		Open vegetation Closed vegetation		Agricultural Commercial				Grassland Ranching		
Flowing water		Railroad		Residential-urba	n			Riparian/wetlar	nd	
Standing water		Road/trail - Type:		Residential-rural				Mixed use		
Seasonal water		Other:		Woodland/forest	ed		Ū	Other:		
Areas Assessed (check all that ap	vlaa	<u></u>								
Check all areas that apply. If an area is not			ent	" box.						
Document all bat indicators observed durin					orov	ide photo docur	nent	tation as indi	cated	I.
Area (check if assessed)	_	ssessment Notes				s (include ph				
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Bridges/culverts: rough surfaces or				Visual - live #		dead #	_	Odor		opooloo
imperfections in concrete				Guano			_	Photos		
Other structures: soffits, rafters, attic				Staining						
areas							-			
		Not present						Audible		Species
Concrete surfaces (open roosting on				Visual - live #		dead #	(Odor		-
└── concrete)				Guano				Photos		
				Staining				A 111 1		
Spaces between concrete end walls	_	Not present	-	Visual - live #		dead #		Audible Odor	_	Species
and the bridge deck				Guano		ueau #		Photos		
				Staining				110103		
Crack between concrete railings on top	Ĩ	Not present		Ŭ				Audible		Species
of the bridge deck Gap				Visual - live #		dead #	0	Odor		_
Railing				Guano				Photos		
	_		_	Staining						
		Not present		Visual - live #		dead #	_	Audible	_	Species
Vertical surfaces on concrete I-beams				Guano		ueau #	_	Odor Photos	_	
			-	Staining			<u> </u>	110103		
		Not present		3				Audible		Species
Spaces between walls, ceiling joists				Visual - live #		dead #		Odor		•
				Guano				Photos		
		1		Staining						
Ween heles, souppor drains, and		Not present		Visual - live #		dead #		Audible	_	Species
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initers/pipes				Staining				FIIOLOS	_	
		Not present		e can mig				Audible		Species
				Visual - live #		dead #		Odor		•
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		Not present	1				_	Audible		Species
All expansion joints			⊢	Visual - live #		dead #	_	Odor Dhataa	4	
			⊢	Guano				Photos	-	
	_		+	Staining	~	a la constante de la constante	_			
Name:			Si	gnature: 7	6	than Hil	la			

WATERS AND WETLANDS EVALUATION REPORT

For

County	Mayes	JP Number	33821(04)	Project Number				
Road Number	SH-412B	Water Body	Name	Pryor Creek				
ROW Date		Let Date	11/2023	Project Length	6 miles			
Project Ge	neral Location	3.5 mi east of Chouteau, along SH-412B from US-412 to SH-69A						
Project Sta	tement	Pavement R	Pavement Rehabilitation: SH-412B from SH-69A to US-412					

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

Prepared by:							
Biologist Name	Nathan Hillis						
Company/Agency Name	Olsson						
Address	11600 Broadway Ext.						
City, State Zip	Oklahoma City, Oklahoma 73114						
Report Date:	5/18/2022; Revised 6/22/2022						
Field Date:	4/19/2022						

Form Date: January 24, 2017

PROJECT OVERVIEW

Project Type (Choose one)	Check $$		
Bridge and Approaches or bridge widening/structure extension			
Grade, Drain, Surface and Bridge			
Grade, Drain and Surface			
Asphalt Overlay Resurfacing			
Widen and Resurface existing lanes			
Pavement Reconstruction or rehabilitation	\checkmark		
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 SH-412B roadway has two 12 ft. wide asphalt paved driving lanes and 8 to 10 ft. wide asphalt paved shoulders. The pavement is in poor condition and there are sight distance deficiencies. The current Annual Average Daily Traffic (AADT) is 3,900 vehicles per day (vpd) with a future 20-year AADT still being analyzed. The purpose & need of the project are to correct pavement deficiencies and improve safety.

Description of proposed improvements SPECIFIC TO THIS PROJECT

The proposed improvement consists of pavement rehabilitation of the existing 12 ft. wide asphalt paved driving lanes and 8 to 10 ft. wide asphalt paved shoulders. All the work will be within the existing pavement lines, with the exception of slight widening for an acceleration lane will occur on the south end of the project, where US-412 ties into the project to allow for turning vehicles from SH-412B going west onto US-412. No roadway size drainage structure or culverts will be extended. The roads will remain open during construction and no new rights-of-way are required.

Project Environmental Study Footprint

Project Location	1	Environmental Study Footprint					
Section Range	Lat/Long (NAD 83)	Dimensions	Acreage				
& Township							
S3, 4, 9, 10, 16,	-95.2792606, 36.1765756	235 ft x 2050 ft along SH-412,	69.9				
21, 28,	on the south to	and 90 ft x 6 mi along SH-					
T20N, R19E	-95.2791377, 36.2493868	412B					
	on the north						

Environmental Study Footprint Soils (NRCS Soil Survey Map)

Map Unit Name	Percent Slope	Drainage Class	•	dric ting	Description
			YES	NO	
BcC	1 to 5	Well Drained		X	Bates-Collinsville Complex
CkD	1 to 8	Somewhat Excessively Drained		Х	Clarksville Gravelly Silt Loam
СоЕ	5 to 30	Somewhat Excessively Drained		X	Collinsville Loam
DnB	1 to 3	Somewhat Poorly Drained		X	Dennis Silt Loam
DnC2	3 to 5	Somewhat Poorly Drained		X	Dennis Silt Loam
HeE	5 to 20	Well Drained		X	Hector-Enders Complex
PaA	0 to 1	Somewhat Poorly Drained		X	Parsons Silt Loam
SaB	1 to 3	Well Drained		X	Britwater Silt Loam
TaA	0 to 1	Somewhat Poorly Drained		X	Taloka Silt Loam
URB	-	-	-	-	Urban Land

Environmental Study Footprint General Description and Vegetation Present

The environmental study area largely consists of right-of-way, grasslands and upland woodlands. The ROW was maintained and included, eastern redbud (*Cercis canadensis*), henbit deadnettle (*Lamium amplexicaule*), American elm (*Ulmus americana*), Johnsongrass (*Sorghum halepense*), elm (*Ulmus americana*), and Bermuda grass (*Cynodon dactylon*). The upland forests consisted of American elm, greenbrier (*Smilax sp.*), eastern cottonwood (*Populus deltoides*), and rough cocklebur (*Xanthium strumarium*). The grassland consisted of sugar hackberry (*Celtis laevigata*), switchgrass (*Panicum virgatum*), common ragweed (*Ambrosia artemisiifolia*), Johnsongrass and Bermuda grass.

WATERS AND WETLANDS EVALUATION

Data Sources Revieweu (list)						
USGS 7.5 minute	NWI Map	USACE Wetland	Additional			
Quad		Regional Supplement	Resources Reviewed			
Chouteau, OK	NWI Online Mapper	Great Plains	NHD 2019			
2019						

Data Sources Reviewed (list)

Wetlands and Ponds Summary Table

Field Sites	Type of Wetland or Pond	Cowardin Classification	Potential Jurisdictional Status	Acres within Environmental Study Footprint
NA	NA	NA	NA	NA

Streams and Drainages Summary Table

Field Sites	Stream Name	USGS Mapped Status	Potential Jurisdictional Status	Acres within Environmental Study Footprint	Linear Feet within Environmental Study Footprint
S1	Tributary to Pryor Creek (1)	Perennial	Likely	0.05	95
S2	Tributary to Pryor Creek (2)	Perennial	Likely	0.12	97
S3	Tributary to Pryor Creek (3)	Perennial	Likely	0.10	103
S4	Tributary to Chouteau Creek	Perennial	Likely	0.23	5010

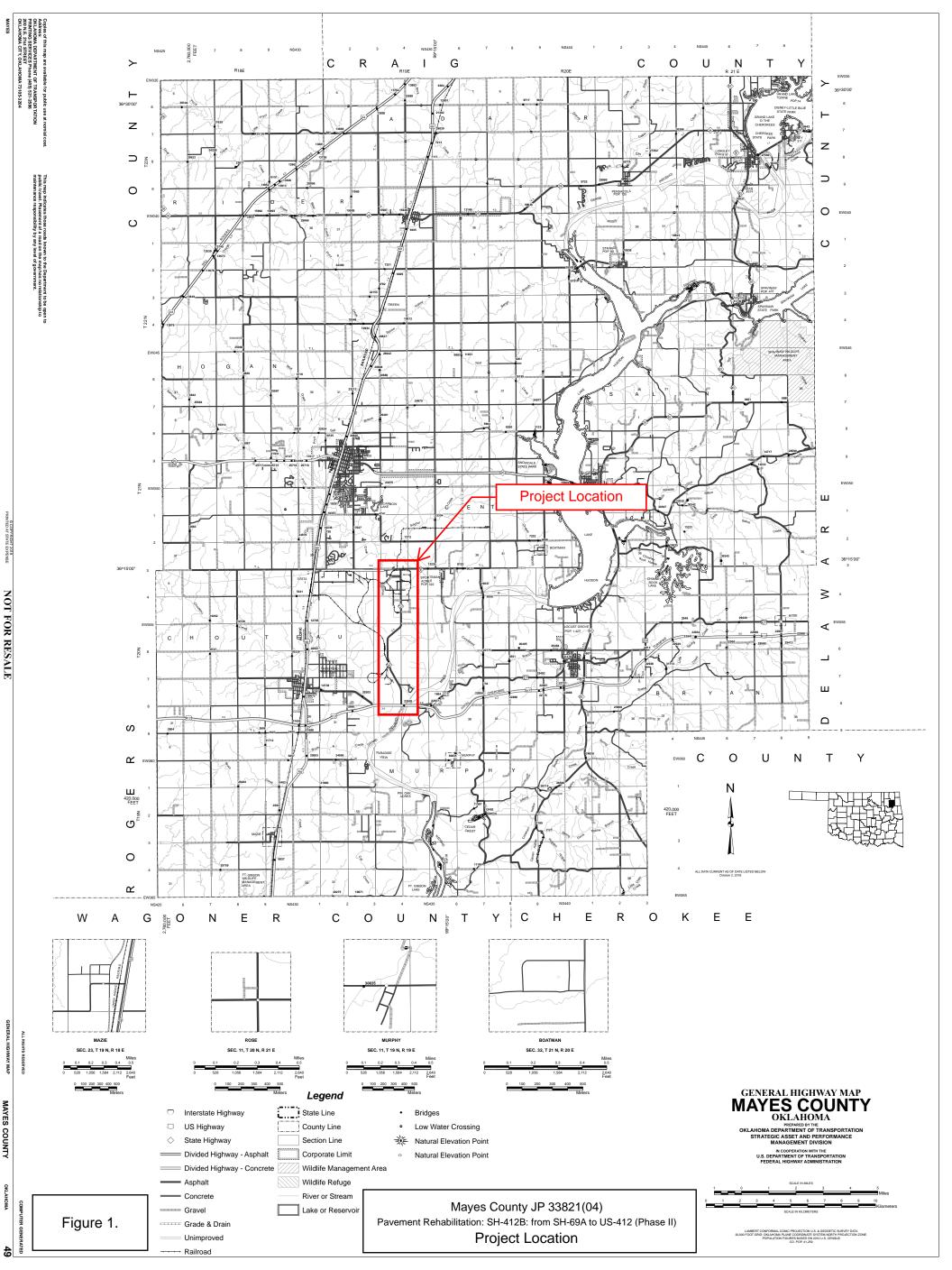
S1 – Tributary to Pryor Creek is mapped as a perennial stream that flows east, perpendicular to the project area. The creek has a sandy, gravelly bottom and is between 1 and 3 feet wide and 1 foot deep. The banks are incised. The elevation of the OHWM at the bridge is 604 ft.

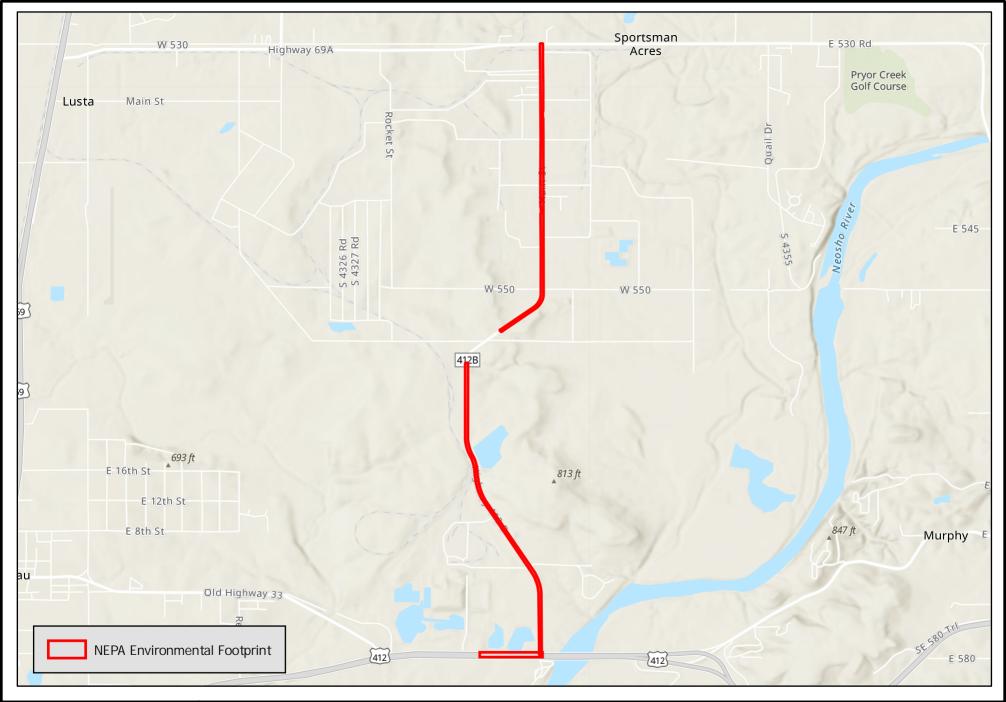
S2 - Tributary to Pryor Creek is mapped as a perennial stream that flows east, perpendicular to the project area. The creek has a sandy bottom and is 3 feet wide and 1 foot deep. The banks are incised. The elevation of the OHWM at the bridge is 605 ft.

S3 – Tributary to Pryor Creek is mapped as a perennial stream that flows east, perpendicular to the project area. The creek has a sandy, gravelly bottom and is between 2 and 3 feet wide and 1 foot deep. The banks are incised. The elevation of the OHWM at the bridge is 664ft.

Oklahoma Department of Transportation Mayes County JP 33821(04)

S4 – Tributary to Chouteau Creek is mapped as a perennial stream that flows east, perpendicular to the project area. The creek has a sandy, gravelly bottom and is between 1 and 3 feet wide and 1 foot deep. The elevation of the OHWM at the bridge is 670 ft. The USGS Topographic map shows this stream flowing under Hwy 412B, however the stream appears to have been redirected and now runs along the east side of Hwy 412B.

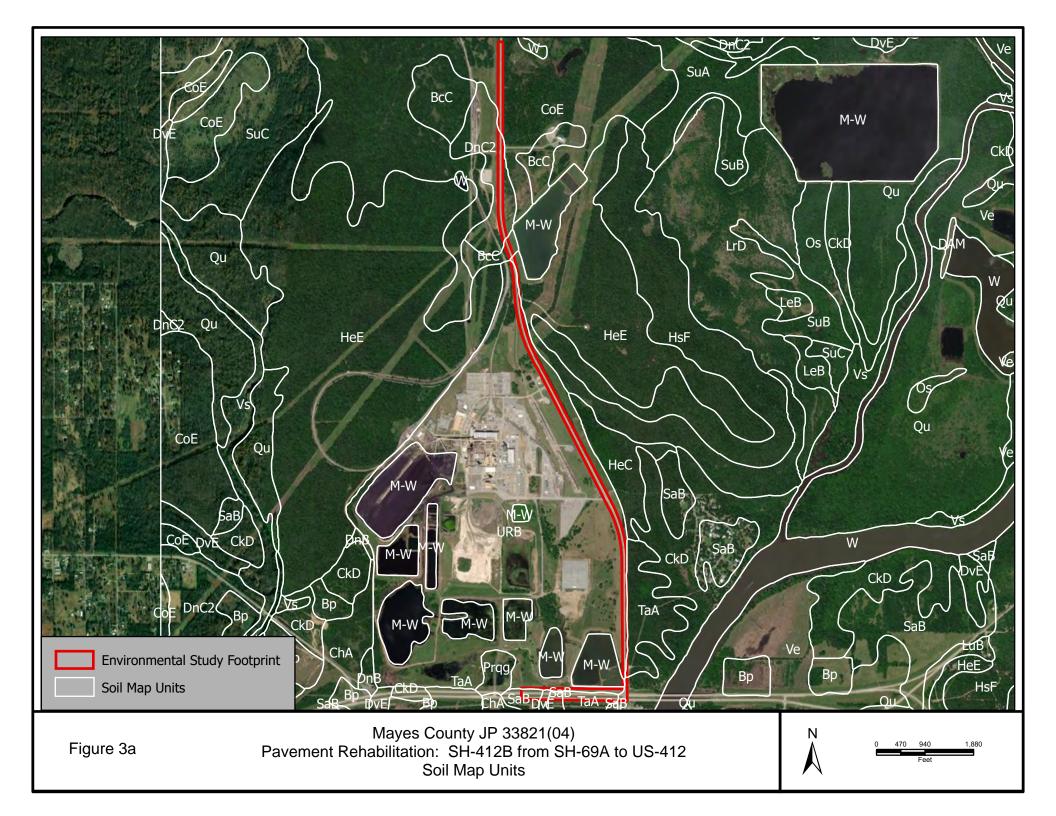


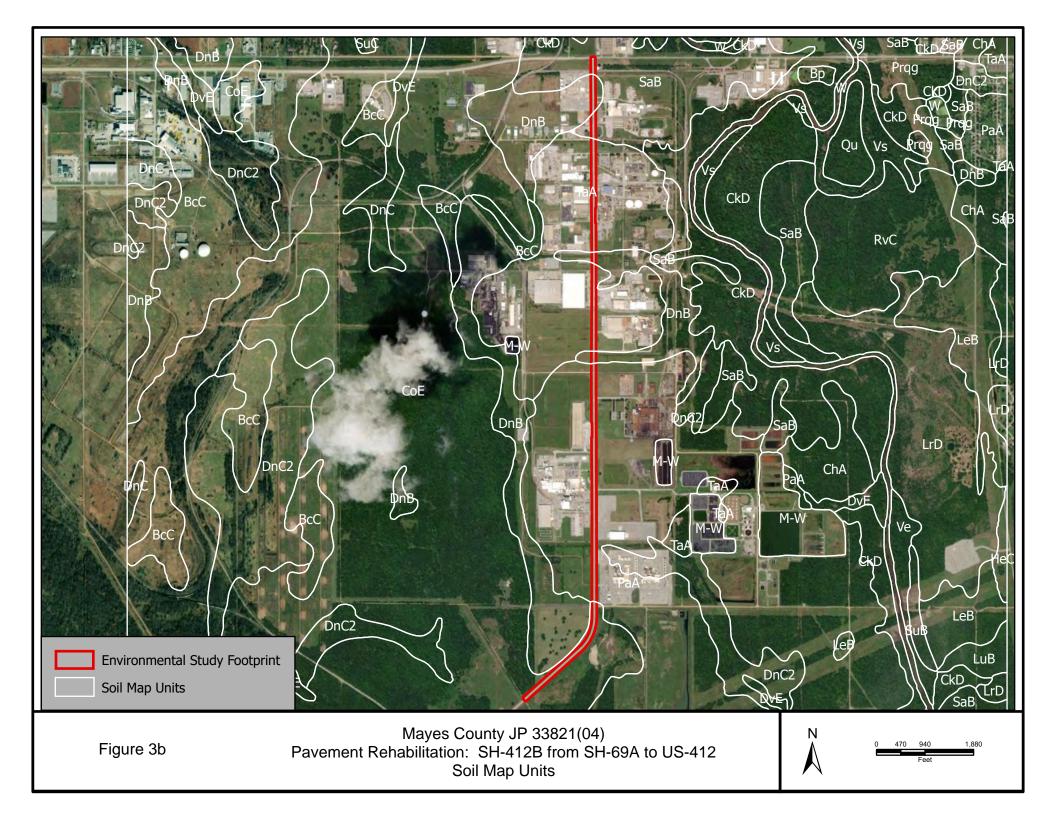


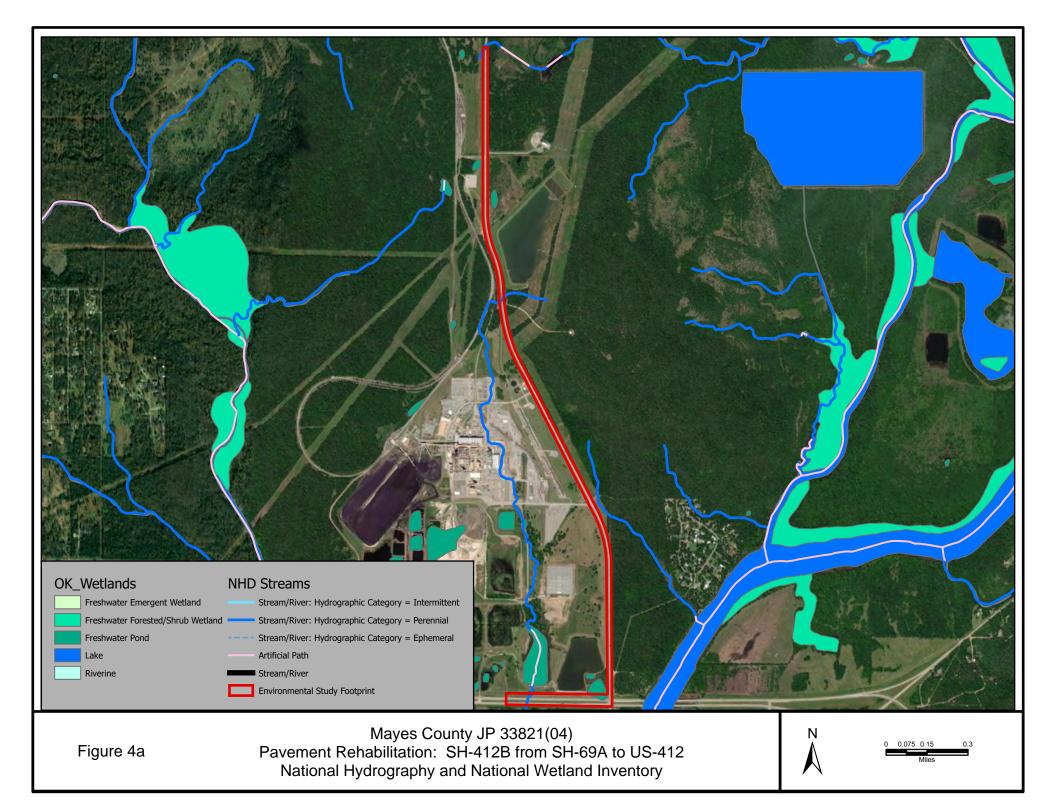
 Mayes County JP 33821(04)

 Figure 2.
 Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II)

 USGS Topographic Map







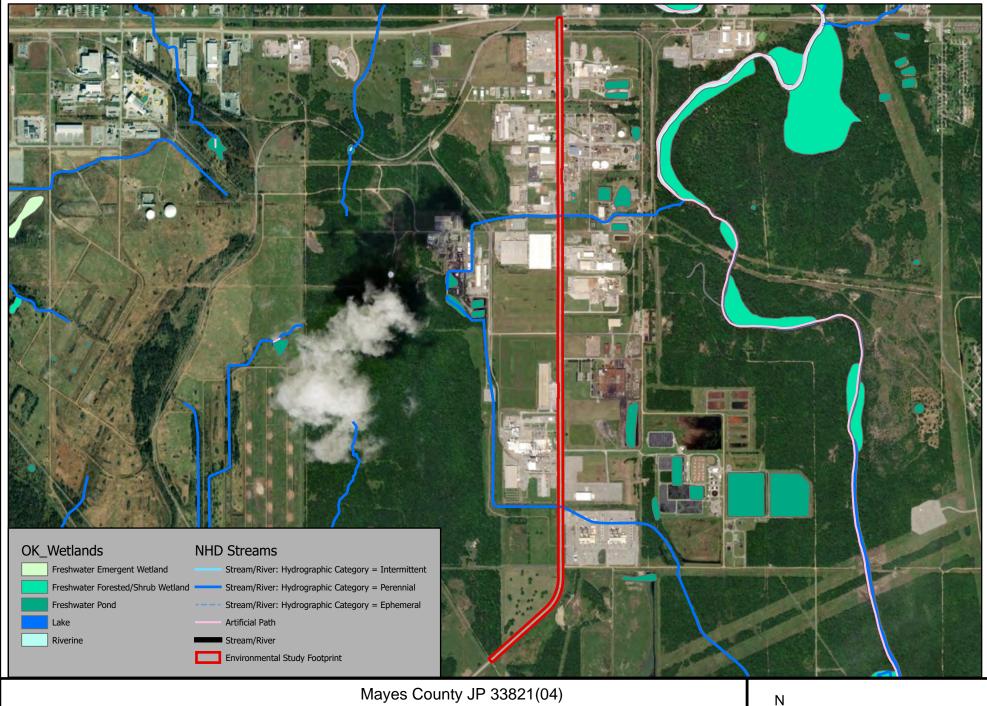


Figure 4b

Pavement Rehabilitation: SH-412B from SH-69A to US-412 National Hydrography and National Wetland Inventory

0 0.075 0.15 0. Miles



Figure 5a

Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II) Aquatic Resource Map





Mayes County JP 33821(04) Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II) Aquatic Resource Map

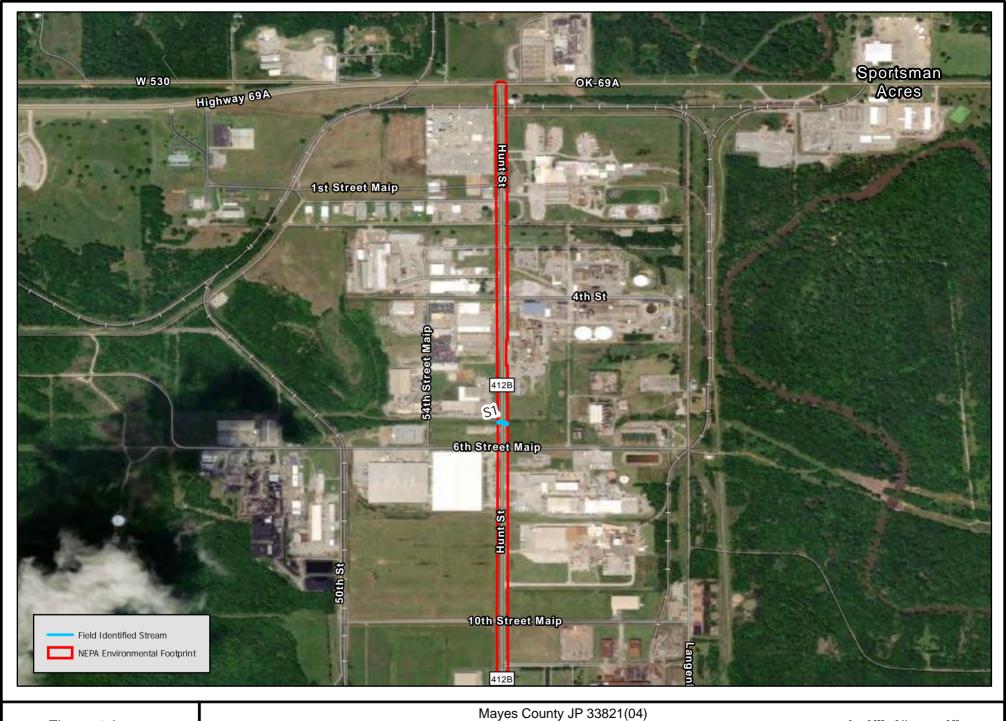
	0	0.055	0.11	0.22
			Miles	
—				



Figure 5	БC
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Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II) Aquatic Resource Map





Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II) Aquatic Resource Map



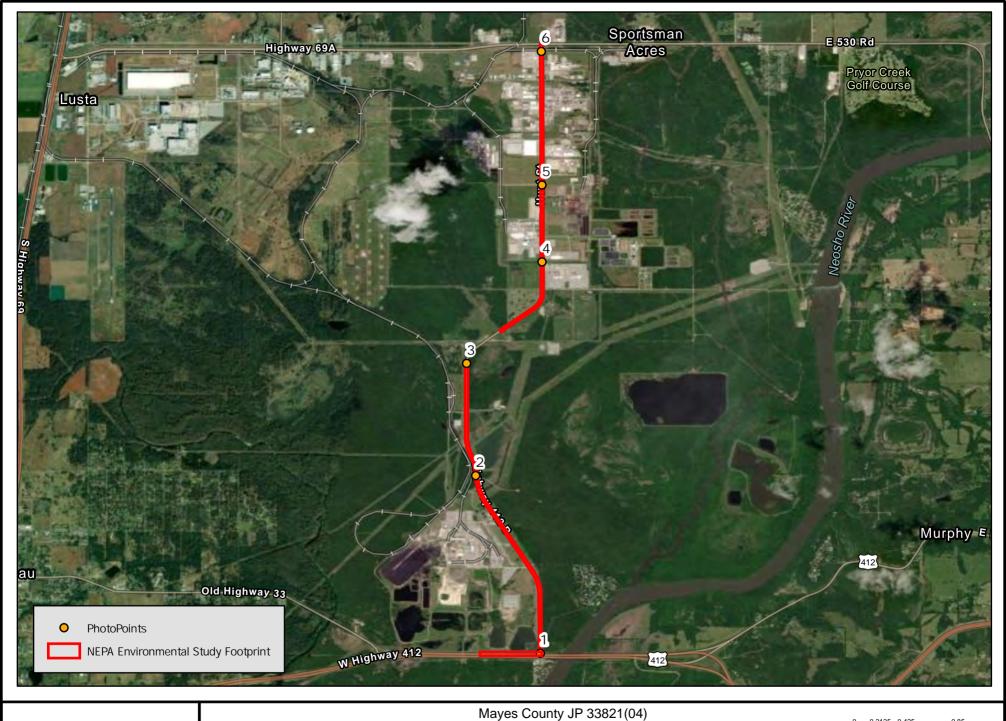


Figure 6.

Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II) Photo Location Map



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1. P1 Looking east



3. P1 looking south.



5. P2 Looking east



2. P1 looking west



4. P2 looking north



6. P2 looking south

olsson



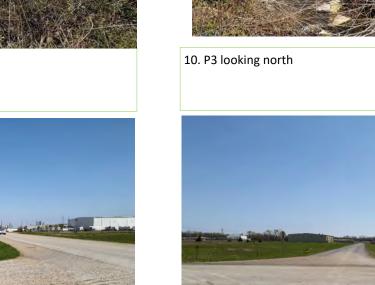
7. P2 Looking west



8. P3 looking east



9. P3 looking south





11. P4 looking north





12. P4 looking east

ODOT—Mayes County 33821(04)

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13. P4 looking west



15. P5 looking north



17. P5 looking south



14. P4 looking south



16. P5 looking east



18. P5 looking west

ODOT—Mayes County 33821(04)

N R C S COORDINATION

The action occurs within existing right-of-way or in an urban area. Hence, the project will not affect any farmlands and does not require coordination with NRCS.

HAZARDOUS MATERIALS

OKLAHOMA DEPARTMENT OF TRANSPORTATION CONSULTANT REPORT REVIEW – HAZARDOUS WASTE

Reviewed By: Review Date: Consultant:	Evan Mace 7/26/2022 Olsson		nty: Mayes Number: 33	821(04)	
1. PROJECT I	DESCRIPTION: Pavemo	ent Rehabilitation: S	H-412B from S	H-69A to US-412	
2. LEVEL OF	INVESTIGATION:	Recon	⊠Asse	ssment	
3. SUMMARY	OF INVESTIGATION	N			
A. Relative risl	c of contamination in stu	dy footprint:		Moderate	□High
B. Potential for	contamination, if preser	nt, to affect proje	et: 🛛 Low	Moderate	\Box High
C. Did Consult	ant recommend addition	⊠No	☐Yes (descri	ibe below):	
4. RECOMME	CNDATIONS*:				
🖾 Appr	roval to Proceed (No Fur	ther Action)			
	roval to Proceed, Pendin	g:			

- \Box Avoidance of described site(s)
- □ Plan Notes regarding described site(s) (See Section 5)
- □ Additional investigation by ODOT
- □ Approval NOT Recommended
- * If different from Consultant, explain in Section 6 General Comments
- 5. PLAN NOTES: None needed.
- **6. GENERAL COMMENTS**: An ISA was performed by Olsson in June 2022 which identified numerous sites along the project corridor. All sites were determined not to be RECs to the project based on their distance from the project and the scope of work being performed (pavement rehab). The project corridor is located in an industrialized area; therefore, the possibility of encountering contamination exists. ODOT Standard Specification 107.15 is always in effect and describes procedures in case contamination is encountered.

ATTACH EXCERPTS FROM REPORT, AS APPROPRIATE.*

INITIAL SITE ASSESSMENT

State Highway (SH) 412B: Pavement Rehabilitation Mayes County, Oklahoma

Prepared for:

Oklahoma Department of Transportation 200 NE 21st Street Oklahoma City, Oklahoma 73105

Prepared by:

Olsson 11600 Broadway Extension, Suite 300 Oklahoma City, Oklahoma 73114 Author: Nathan Hillis Phone: 405.242.6600

ODOT JP: 33821(04)

Olsson Project No 020-1030 June 2022

olsson

SH 412B Project No. 020-10300

SUMMARY

The Oklahoma Department of Transportation (ODOT) retained Olsson to perform an Initial Site Assessment (ISA) for SH-412B: Pavement Rehabilitation in Mayes County, Oklahoma (hereinafter referred to as the Project and shown on Figure 1 in Appendix A). Olsson performed this ISA in conformance with the scope and limitations of the ODOT Hazardous Waste Scope of Services. A summary of the ISA findings, which is based on a review of historical records, regulatory databases, site reconnaissance, and interviews, is as follows:

No recognized environmental conditions or de minimis conditions were identified during the ISA. This project has a low risk of encountering hazardous waste-related conditions.

This report must be read in its entirety to develop a comprehensive understanding of the ISA information process.

6. EVALUATION

The following paragraphs summarize the findings, opinions, and conclusions of the ISA. Olsson has evaluated the provided information for significant data gaps that, if present, are discussed in their respective report sections.

Subject Property Physical Setting

The Subject Property includes a portion SH-412B between SH-412 and SH-69A and associated ROW adjacent to the roadways. The Subject Property slopes generally to the east along the northern half and to the west for the southern half.

Historical Resources Review

Topographic maps, aerial photographs, city directories, and Sanborn Maps were reviewed to identify past uses of the Subject Property and adjoining properties and to identify conditions that could represent RECs in association with the Subject Property. No conditions that represent RECs were identified during the review.

Regulatory Database Review

The regulatory database review identified seven database listings within the prescribed ASTM E1527-21 search radii. No RECs were identified. Database findings were identified in the previous sections.

Site Reconnaissance

Olsson performed a site visit on April 21, 2022. No notable features were identified during Olsson's site reconnaissance.

Interviews

Olsson did not conduct interviews with Subject Property owner representatives or the current Property owner. Olsson did contact the Pryor Fire Department May 23, 2022. Based on this interview, no REC or concerns were identified.

Conclusions

No RECs were identified at the Project or on adjacent areas (Table 8, Appendix A Figure 3).

SH 412B *Project No. 020-10300* **Initial Site Assessment**

June 2022

Table 8. Potential Environmental Hazards

Map ID	Business	Address	Type of Operation	Active / Closed	Environmental Concerns	Potential Constituents	Comments	Position Relative to ROW	Relative Elevation	Expected GW Flow Dir.	Level of Concern
1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Tier I screening for VECs, as defined by the U.S. Environmental Protection Agency (EPA), is based on the open presence (not contained) of volatile COCs within 0.33 mile of the Property, or the presence of petroleum products within 0.10 mile of the Property. The relationship of the VEC can be a direct source of the COC (a spill or release site), or a plume of the COC that has migrated into the area of the Property. If the Tier I screening indicates that a VEC is present or is likely present, or if a VEC cannot be ruled out, then a Tier II VEC assessment may be appropriate, including a non-invasive investigation of existing data sources of known contamination sources and/or plumes, and if necessary, subsurface sampling. If subsurface conditions are not conducive to vapor migration (a source has been cleaned up, the COC has a low vapor constant, a barrier exists, or the subsurface soil or fill material is impermeable, or nearly impermeable), or if a potential VEC is beyond a critical distance (typically 100 feet) down gradient of the Property, then the VEC can be ruled out.

No potential VECs were identified.

Olsson has performed this ISA in conformance with the consultant request for task order approval and the approved notice to proceed, dated August 23, 2021, and the ODOT Hazardous Waste Scope of Services for SH-412B: From SH-412 to SH-69A in Mayes County, Oklahoma. Olsson's opinions pertaining to the impact on the Subject Property of the conditions identified and our rationale for concluding whether a condition is or is not a REC is included in the sections of the report where those conditions were originally discussed.

7. SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

Olsson conducted this ISA and reviewed all appropriate records made available to Olsson within the performance period of this assessment, conducted Project inspection, and performed an analysis of current and historical information collected during the record search. The information contained within the ISA report, to the best of Olsson's knowledge, is correct.

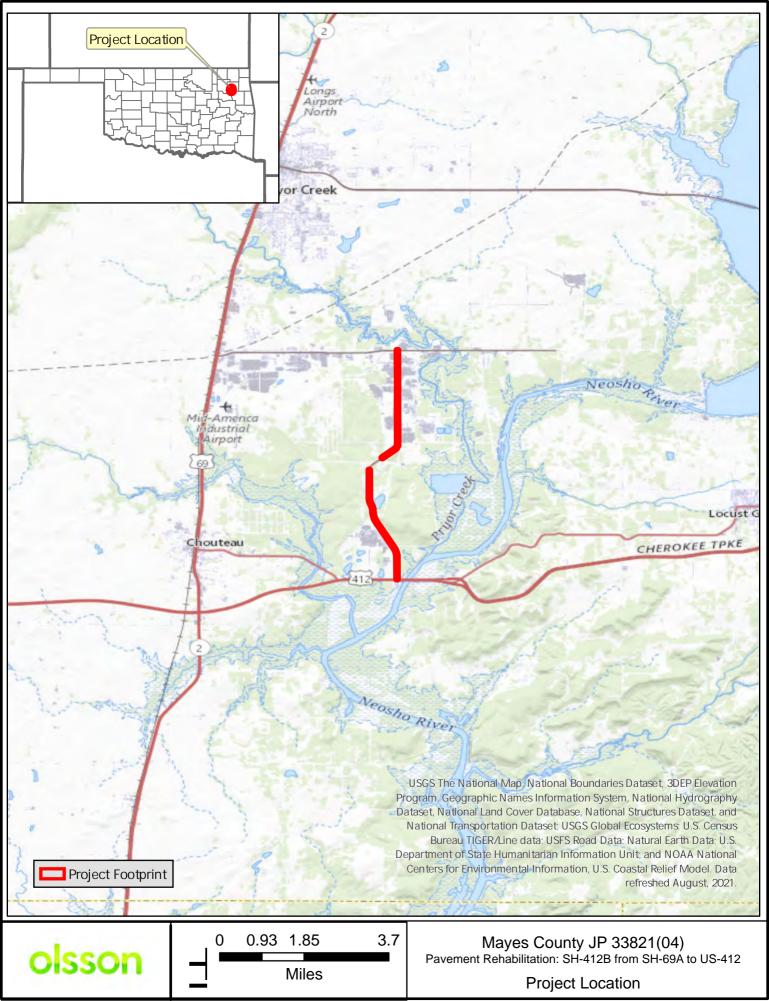
I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional, as defined in Section 312.10 of 40 Code of Federal Regulations (CFR) 312; and I have the specific qualifications based on education, training, and experience to assess a Project of the nature, history, and setting of the Project. I have developed and performed all appropriate inquiries in conformance with the standards and practice set forth in 40 CFR Part 312.

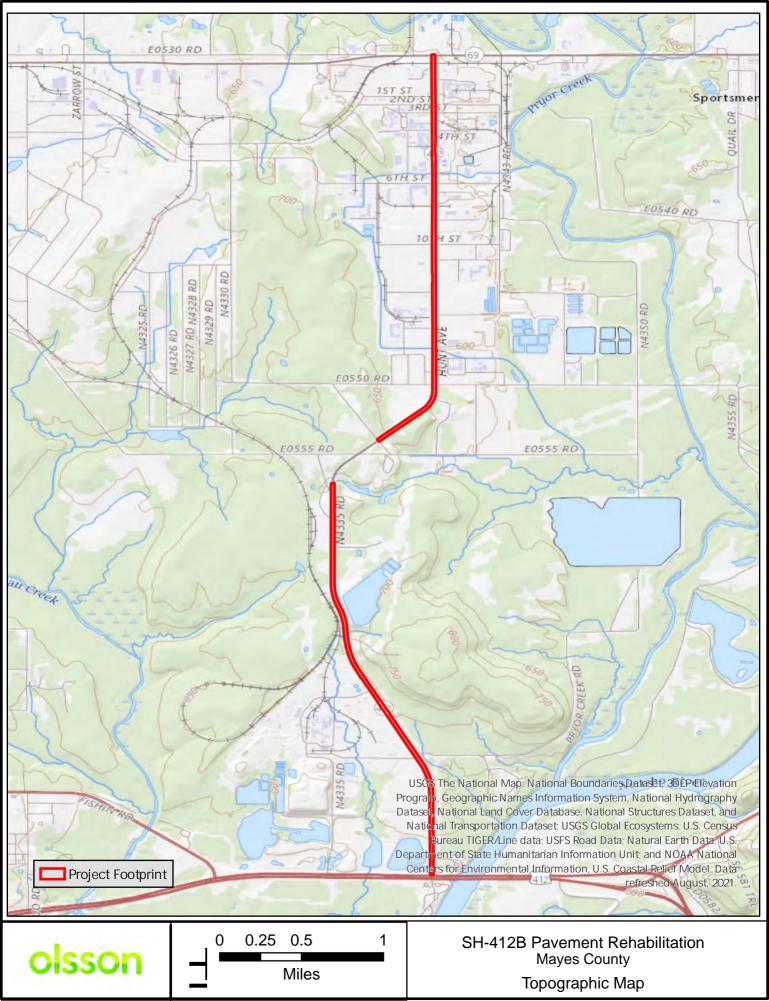
Nathan Hillis

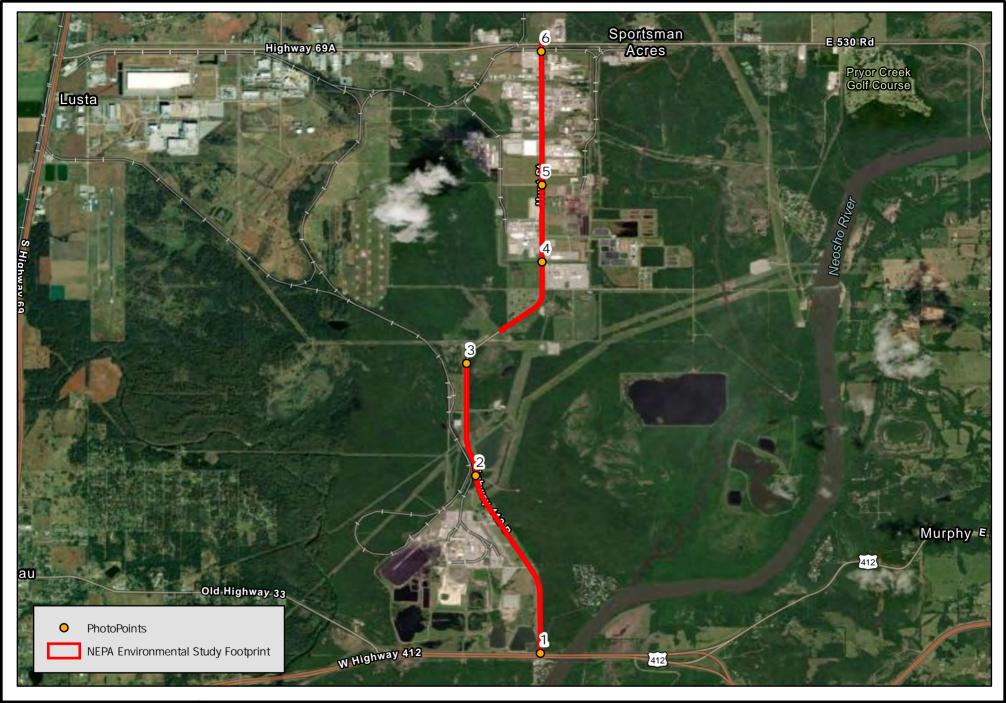
06/09/2022

Environmental Professional

Date







I	0	0.2125	0.425	0.85	
_	_		Miles		
_	1:49,926				
	WGS 1984				

Mayes County JP 33821(04) Pavement Rehabilitation: SH-412B: from SH-69A to US-412 (Phase II) Photo Location Map

MAIP Phase II

MAIP Phase II Pryor, OK 74361

Inquiry Number: 6865672.5s February 18, 2022

EDR Area / Corridor Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

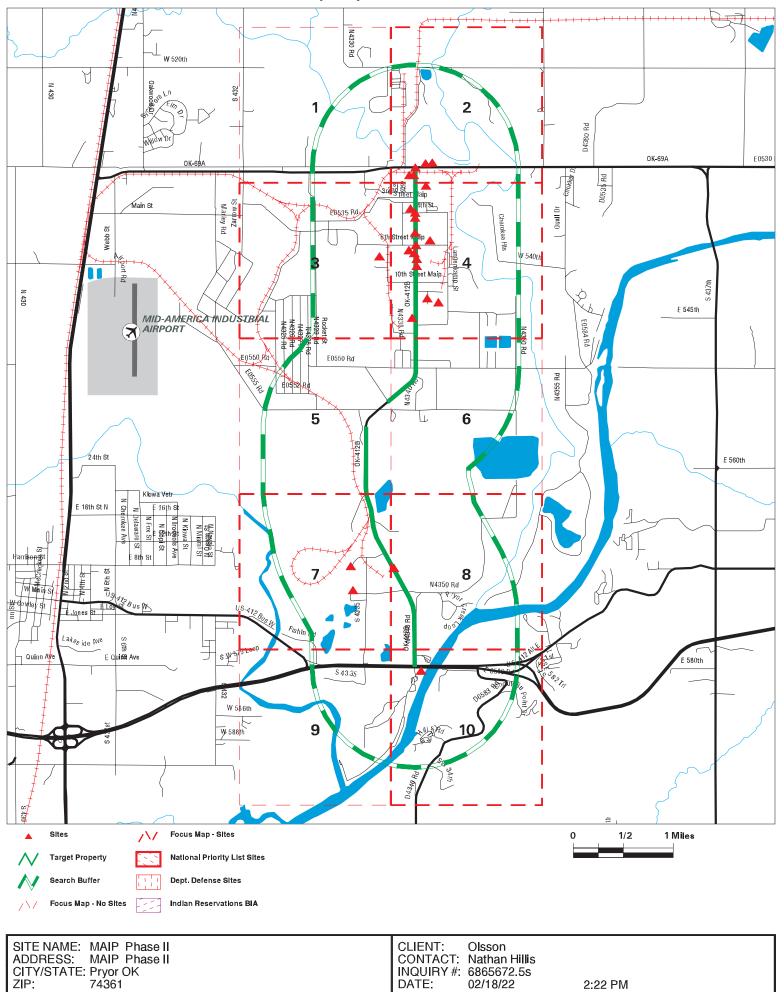
Target Property: MAIP PHASE II PRYOR, OK 74361

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (f	
/2	OKLAHOMA ORDNANCE WO	HWY69A & HUNT STREET	SEMS-ARCHIVE	TP	
2/4	SATURATED FELT PLANT	4444 HUNT STREET MAI	OK AIRS	TP	
3 / 4	G.A.P. ROOFING INC.	4444 HUNT ST MAIP	OK TIER 2	TP	
4 / 4	APTUS MANUFACTURING	4444 HUNT STREET	OK TIER 2	TP	
5 / 4	GAP ROOFING INC	4444 HUNT ST	TRIS	TP	
6 / 4	APTUS MANUFACTURING	4444 HUNT ST	TRIS	TP	
7 / 4	G.A.P. ROOFING, INC.	4444 HUNT STREET MAI	TX TIER 2	TP	
8 / 4	APTUS MANUFACTURING	4444 HUNT ST	ECHO	TP	
9 / 4	GAP ROOFING CO / SAT	4444 HUNT STREET MAI	ICIS, US AIRS, FINDS, ECHO	TP	
10/4	EPIC MID-AMERICA	4TH & HUNT STREET	OK UST	TP	
11/4	RAE CORP / PRYOR PLT	3 MILES E OF 69 1 MI	RCRA-VSQG, TRIS, ICIS, US AIRS	TP	
12/4	RAE CORPORATION	4492 HUNT STREET	FINDS	TP	
13 / 4	RAE CORPORATION	4492 HUNT STREET	OK TIER 2	TP	
14 / 4	RAE CORPORATION	4492 HUNT STREET	OK TIER 2	TP	
15 / 4	HEM INDUSTRIAL COATI	4644 HUNT ST	RCRA-SQG	TP	
16 / 4	HEM INDUSTRIAL COATI	4644 HUNT ST	ECHO	TP	
17 / 4	HEM INDUSTRIAL COATI	4644 HUNT ST	FINDS	TP	
18 / 4	HEM, INC EAST	4684 HUNT ST.	OK TIER 2	TP	
19 / 4	HEM, INC EAST	4684 HUNT ST.	OK TIER 2	TP	
20 / 4	HEM, INC EAST	4684 HUNT ST. (412B)	OK TIER 2	TP	
21/4	RAE CORPORATION	5TH & HUNT	ICIS	TP	
22 / 4	KENNECOTT CORP ACTIV	6TH & HUNTS	FINDS, ECHO	TP	
23 / 4	CALPINE PRYOR INC	886 6TH ST	RCRA NonGen / NLR	TP	
24 / 8	NORDAM JET ENGINE TE	7225 HIGHWAY 412B	OK TIER 2	TP	
25 / 8	NORDAM JET ENGINE TE	7225 HIGHWAY 412B	OK TIER 2	TP	
26 / 8	NORDAM JET ENGINE TE	7225 HWY 412B	OK AST	TP	
27 / 8	NORDAM GROUP LLC / J	7225 HWY 412B	US AIRS, FINDS, ECHO	TP	
28 / 4	INTERPLASTIC CORPORA	5019 HUNT ST MID AME	OK UST, OK AST, OK HIST UST	10 0.	002 East
29 / 4	INTERPLASTIC CORPORA	5019 HUNT STREET	RCRA-LQG, ICIS, US AIRS, FINDS, ECHO	10 0.	002 East
30 / 4	INTERPLASTICS	5019 HUNT AVE, PRYOR	OK VCP		002 East
1/4	CASCADES TISSUE GROU	4915 HUNT STREET	RCRA-VSQG		02 East
32 / 4	PRYOR CHEMICAL RELEA	4463 HUNT STREET	SEMS		02 East
33 / 4	N-REN CORPORATION CH	MAID NEAR PRYOR P.O.	SEMS-ARCHIVE, RCRA-SQG		02 East
4/4	ORCHID PAPER PRODUCT	4826 HUNT ST	OK SWRCY		005 West
5/2	LIQUID AIR, PRYOR AC	MID AMERICA INDUSTRI	OK UST		005 West
6/4	SOLAE CO LLC/SOY ISO	5532 HUNT ST	TRIS, US AIRS, FINDS, ECHO, WI MANIFEST		025 West
37 / 4	HE&M INC	ZARRO STREET	OK UST, OK HIST UST		031 West
8/4	POLYGUARD PIPELINE P	4TH ST	SEMS-ARCHIVE		041 West
			OK UST, OK HIST UST	213 0	

Target Property: MAIP PHASE II PRYOR, OK 74361

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS		(ft. & m CTION	,
G40 / 4	ATOCHEM NORTH AMERIC	HWY 81 2.75M S	RCRA NonGen / NLR	316	0.060	West
G41 / 4	NORIT AMERICAS INC.	NE/4 NE/4 NW/4 OF S9	OK SWF/LF, OK Financial Assurance	316	0.060	West
42 / 10	C & R OIL CO	HWY 33 MARINA RT 1	OK UST	401	0.076	SE
43 / 4	NATIONAL GYPSUM COMP	4 MI S & 3 1/2 MI E	SEMS-ARCHIVE	510	0.097	East
44 / 2	GEORGIA PACIFIC CORP	ROUTE 69-A	OK UST, OK HIST UST	535	0.101	ENE
45 / 4	PRYOR FOUNDRY INC.	P.O. BOX 549; HUNT S	OK SWF/LF, OK UST, OK HIST UST, OK Finan	563	0.107	East
H46 / 4	MID-CONTINENT POWER	6TH HUNT STR	OK HIST UST	714	0.135	East
H47 / 4	MID-CONTINENT POWER	6TH HUNT STR	OK LUST, OK UST	715	0.135	East
H48 / 4	CABOT NORIT AMERICAS	1432 6TH ST MAIP	CORRACTS, RCRA-VSQG, 2020 COR ACTION, IC.	755	0.143	East
49 / 2	GEORGIA-PACIFIC CORP	HWY 69A-MID-AMERICA	SEMS-ARCHIVE, RCRA-VSQG	878	0.166	ENE
50 / 4	PRYOR FOUNDRY	P.O. BOX 549	SEMS-ARCHIVE, RCRA-SQG	1152	0.218	East
51 / 7	GRDA COAL FIRED COMP	4 MI E CHOUTEAU & 1	OK LUST, OK UST	1858	0.352	SW
52 / 3	KENNECOTT CORP ACTIV	6TH & HUNTS	SEMS-ARCHIVE, RCRA NonGen / NLR	1865	0.353	West
53 / 7	GRAND RIVER DAM LAND	SW/4 NE/4 & SE/4 NW/	OK SWF/LF, OK Financial Assurance	2369	0.449	WSW

Key Map - 6865672.5s



OTHER



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

DATE: November 30, 2021

TO: File

FROM: Sara Downard, District 8 Project Manager

SUBJECT: ODOT / OKLAHOMA ORDNANCE WORKS AUTHORITY (OOWA) Partnership Project Scope

Safety Improvement J/P Number: 35353(04) SH-412B: Roundabout at Patrol Rd (Phase I) \$4,000,000 Pavement Rehabilitation

J/P Number: 33821(04) SH-412B: SH-412B: from SH-69A to US-412 (Phase II) \$9,600,000

County: Mayes PS&E Date: 2022	Highway: SH-412B R/W Date: N/A	Scoping Meeting Date: N/A		
1 See Duite. 2022		Scoping Mooting Date. 1471		

PROPOSED IMPROVEMENT

Project Intent: Improve safety and pavement quality.

Description of Proposed Improvements (Phase I): Safety improvement to correct poor site distance at SH-412B and Patrol Rd., to include a 4-leg roundabout plus drive for future waste water treatment facility. To accommodate the roundabout an alignment modification will be made to SH-412B at the tie in location.

Description of Proposed Improvements (Phase II): Pavement rehabilitation including (2) 12' lanes with 8' shoulders to the south of Phase I and (2) 12' lanes with 10' shoulders to the north of Phase I. Geotech will be done to determine full depth pavement rehabilitation or patching.

Begin project at junction of SH-412B/69A. End project at SH-412B/US-412.

Design to be done by OOWA consultant.

RW / UT to be done by OOWA.

Construction to be done by ODOT.

Design Speed: 45 mph.

Limits of NEPA Survey Area: NEPA will consist of beginning and ending points of the project within RW limits.