AMERICAN GINSENG

Panax quinquefolius
Federal Status: Not Listed
Nebraska Status: Threatened

Photo by Steve Nix, About Forestry

EFFECTS and JUSTIFICATION

	Effect Determination	ACTIVITIES	The scope of work for these activities is limited to the road surface/bridge deck which does not support plant growth. Since these activities do not occur within suitable habitat for the American Ginseng, there will be ***no effect*** on the species.	These activities occur in paved areas, open water and bottomlands, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat for the American Ginseng which occurs in oak-hickory forests. Since the activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.	Night-time work with lights does not directly Utilize or alter suitable habitat for the American Ginseng, and it does not directly or indirectly impact the species. Therefore, there will be ***no effect*** on the species.	These activities could disturb suitable habitat for the American Ginseng. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect the species*** (see Conservation Condition 1).	If these activities are restricted to the area between the hinge-points of the roadway, the activity will not occur in locations with suitable habitat for the American Ginseng because the area within the hinge point is non-natural ground with frequent disturbance. Work within the hinge point may proceed. If these activities occur outside the hinge-point, the activity could disturb suitable habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).	These bridge activities could impact suitable habitat for American Ginseng, with possible effects of crushing plants or contaminating soils. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).	Habitat fragmentation could reduce the amount, size, or other aspect of habitat suitability for the American Ginseng. Reduction in habitat suitability ***may affect*** the species, and requires consultation.
NE	Asphalt Patching		Ø						
NLAA CC[1]	Bank Stabilization								
NE	Barge Staging			Ø					
NLAA CC[2 or 1]	Bridge Deck Repair					*	*	*	
NLAA CC[2 or 1]	Bridge Deck Replacement					*	*	*	
NLAA CC[2 or 1]	Bridge Painting					*	*	*	
NLAA CC[2 or 1]	Bridge Rail Repair/Replacement					*	*	*	
NLAA CC[1]	Bridge Substructure New, Replacement, or Repair - Ephemeral					*	*	*	
NLAA CC[1]	Bridge Substructure New, Replacement, or Repair - Intermittent					*	*	*	
NLAA CC[1]	Bridge Substructure New, Replacement, or Repair - Perennial					*	*	*	
NLAA CC[2 or 1]	Bridge Superstructure New & Replacement - Ephemeral					*	*	*	
NLAA CC[2 or 1]	Bridge Superstructure New & Replacement - Intermittent					*	*	*	
NLAA CC[2 or 1]	Bridge Superstructure New & Replacement - Perennial					*	*	*	
NLAA CC[1]	Channel Grade Stabilization Structures					*	*	*	
NLAA CC[1]	Channelization, Ephemeral					*	*	*	
NLAA CC[1]	Channelization, Intermittent					*	*	*	
NLAA CC[1]	Channelization, Perennial					*	*	*	
NLAA CC[1]	Clearing and Grubbing - Non-woody Vegetation					*	*	*	
NLAA CC[1]	Clearing and Grubbing -Trees & Shrubs					*	*	*	
NLAA CC[1]	Cofferdams					*	*	*	
NE	Concrete Pavement Repair		Ø						
NE	Crack Sealing and Joint Sealing		Ø						
NLAA CC[1]	Culvert New, Replacement, Extension, Repair - Ephemeral					*	*	*	
NLAA CC[1]	Culvert New, Replacement, Extension, Repair - Intermittent					*	*	*	
NLAA CC[1]	Culvert New, Replacement, Extension, Repair - Perennial					*	*	*	
NLAA CC[1]	Curb & Flume					*	*	*	
NE	Curb & Gutter					*	*	*	
NLAA CC[1]	Detention Basin					*	*	*	
NE	De-watering					*	*	*	
NLAA CC[1]	Drilled Shafts					*	*	*	
NLAA CC[1]	Earth Shoulder Construction					*	*	*	
NE	Erosion Control - Barriers					*	*	*	
NE	Erosion Control - Erosion Checks					*	*	*	
NE	Erosion Control - Inlet/Outlet Protection					*	*	*	
NE	Erosion Control - Mulching					*	*	*	
NE	Erosion Control - Rolled Erosion Control					*	*	*	
NE	Erosion Control - Slope Interruption					*	*	*	
NE	Erosion Control - Traps and Basins					*	*	*	
NE	Erosion Control - Vegetation					*	*	*	
NLAA CC[1]	Fencing					*	*	*	
NLAA CC[1]	Grading Within the Hinge Point					*	*	*	
NLAA CC[1]	Grading Outside the Hinge Point					*	*	*	
NLAA CC[1]	Guardrail Repair with Soil Disturbance					*	*	*	
NE	Guardrail Repair without Soil Disturbance					*	*	*	
MA	Habitat Fragmentation, Modification of Connectivity					*	*	*	!
NLAA CC[1]	Landscaping					*	*	*	
NLAA CC[1]	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance					*	*	*	
NE	Lighting, Traffic & Pedestrian Signals, DMS w/o Soil Disturbance					*	*	*	
NE	Microsurfacing		Ø						
NE	Milling and/or In-place Recycling		Ø						
NE	Nighttime work with Lights				Ø				
NLAA CC[1]	Noise Walls (Not in water/wetlands)					*	*	*	
NLAA CC[1]	Overpass					*	*	*	
NE	Pavement Removal		Ø						
NE	Paving		Ø						
NLAA CC[1]	Piers					*	*	*	
NLAA CC[1 or 2]	Pile Driving - Impact					*	*	*	
NLAA CC[1]	Pile Driving - Vibratory			Ø					
NLAA CC[1]	Pile/Pier Encasement					*	*	*	
NLAA CC[1]	Pipe Jacking & Casing					*	*	*	
NLAA CC[1]	Pre-watering					*	*	*	
NLAA CC[1]	Removal of Structures and Obstructions					*	*	*	
NLAA CC[1]	Replacing a Bridge with a Culvert					*	*	*	
NE	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal		Ø						
NLAA CC[1]	Retaining Walls (NOT IN Water/Wetlands)					*	*	*	
NE	Rock or Gravel Surfacing			Ø					
NLAA CC[1]	Shoo-fly					*	*	*	
NE	Sidewalks and Bikeways					*	*	*	
NLAA CC[1]	Signs with Soil Disturbance					*	*	*	
NE	Signs without Soil Disturbance					*	*	*	
NLAA CC[1]	Stream Channel Impact, Ephemeral					*	*	*	
NLAA CC[1]	Stream Channel Impact, Intermittent					*	*	*	
NLAA CC[1]	Stream Channel Impact, Perennial					*	*	*	
NLAA CC[1]	Temporary Crossing, Causeway, Work-Platform					*	*	*	
NLAA CC[1]	Trenched Widening					*	*	*	
NLAA CC[1]	Underground Utility Conduit					*	*	*	
NE	Wetland Mitigation			Ø					

BLACKNOSE SHINER

Notropis heterolepis
Federal Status: Not Listed
Nebraska Status: Endangered

Photos by Carol Freeman

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since the Blacknosed Shiner does not occur in these locations, there will be ***no effect*** on the species.	These activities occur in paved areas, urbanized locations, uplands, large rivers, and generally in locations that do not support suitable habitat for the Blacknose Shiner which occurs in small freshwater creeks and shallow weedy areas of lakes and ponds in north-central Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.	Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.	Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Blacknose Shiner. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).	These bridge activities could result in materials falling from the bridge deck and impacting the Blacknose Shiner or its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).	Ephemeral and intermittant channels may contain elements of suitable habitat within them. When the channel is dry, species will not be present, but channel modifications may convert suitable habitat characteristics of the channel to unsuitable habitat for use by the species when water is present. In addition, in-channel work may cause an increase in sedimentation or turbidity downstream of the site once water returns. Therefore, this activity may affect this species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).	Blacknose Shiner utilizes shrubby overhangs along creek banks. Construction activities may destroy or remove this type of vegetation, which may affect species habitat. Landscaping and revegetation involves reestablishment of upland vegetation in areas disturbed by construction, and the type of plants used may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this ***activity may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).	These activities could result in downstream erosion and sedimentation, and reduction in water quality for the Blacknose Shiner. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5).	These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing turbidity or sedimentation, and require consultation.
Asphalt Patching	NE	Ø							
Bank Stabilization	MA								
Barge Staging	NE		Ø						
Bridge Deck Repair	NLAA CC[2]								
Bridge Deck Replacement	NLAA CC[2]								
Bridge Painting	NLAA CC[2]								
Bridge Rail Repair/Replacement	NLAA CC[2]								
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC[3]					*	*	*	
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA CC[3]						*	*	
Bridge Substructure New, Replacement, or Repair - Perennial	MA								
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC[2]								
Bridge Superstructure New & Replacement - Intermittent	NLAA CC[2]					*	*	*	
Bridge Superstructure New & Replacement - Perennial	NLAA CC[2]								
Channel Grade Stabilization Structures	MA								
Channelization, Ephemeral	MA								
Channelization, Intermittent	MA								
Channelization, Perennial	MA								
Clearing and Grubbing - Non-woody Vegetation	NLAA CC[5] or MA								
Clearing and Grubbing - Trees & Shrubs	NLAA CC[5] or MA								
Cofferdams	NLAA CC[3]								*
Concrete Pavement Repair	NE	Ø							
Crack Sealing and Joint Sealing	NE	Ø							
Culvert New, Replacement, Extension, Repair - Ephemeral	MA								
Culvert New, Replacement, Extension, Repair - Intermittent	MA								
Culvert New, Replacement, Extension, Repair - Perennial	MA								
Curb & Flume	NE		Ø						
Curb & Gutter	NE		Ø						
Detention Basin	NLAA CC[1]								
De-watering	MA								
Drilled Shafts	MA								
Earth Shoulder Construction	NE			Ø					
Erosion Control - Barriers	NE			Ø					
Erosion Control - Erosion Checks	NE			Ø					
Erosion Control - Inlet/Outlet Protection	NE			Ø					
Erosion Control - Mulching	NE			Ø					
Erosion Control - Rolled Erosion Control	NE			Ø					
Erosion Control - Slope Interruption	NE			Ø					
Erosion Control - Traps and Basins	NE			Ø					
Erosion Control - Vegetation	NLAA CC[4]			Ø					
Fencing	NE		Ø						
Grading Within the Hinge Point	NE		Ø						
Grading Outside the Hinge Point	NLAA CC[5] or MA								
Guardrail Repair with Soil Disturbance	NE		Ø						
Guardrail Repair without Soil Disturbance	NE		Ø						
Habitat Fragmentation, Modification of Connectivity	MA								
Landscaping	NLAA CC[4]								
Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance	NE		Ø						
Lighting, Traffic & Pedestrian Signals, DMS w/out Soil	NE		Ø						
Microsurfacing	NE								
Milling and/or In-place Recycling	NE								
Nighttime work with Lights	NE			Ø					
Noise Walls (Not in water/wetlands)	NE		Ø						
Overpass	NE		Ø						
Pavement Removal	NE								
Paving	NE		Ø						
Piers	NLAA CC[5] or MA		Ø						
Pile Driving - Impact	MA								
Pile Driving - Vibratory	MA								
Pile/Pier Encasement	NLAA CC[3]								
Pipe Jacking & Casing	NLAA CC[3]								
Pre-watering	MA								
Removal of Structures and Obstructions	NLAA CC[5] or MA								
Replacing a Bridge with a Culvert	MA								
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE								
Retaining Walls (NOT IN Water/Wetlands)	NE								
Rock or Gravel Surfacing	NE								
Shoo-fly	MA								
Sidewalks and Bikeways	NE								
Signs with Soil Disturbance	NE								
Signs without Soil Disturbance	NE								
Stream Channel Impact, Ephemeral	MA								
Stream Channel Impact, Intermittent	MA								
Stream Channel Impact, Perennial	MA								
Temporary Crossing, Causeway, Work-Platform	MA								
Trenched Widening	NE								
Underground Utility Conduit	NE								
Wetland Mitigation	MA								

BLACK-FOOTED FERRET

Federal Status: Endangered
Nebraska Status: Endangered

Photo by Jeff Vanuga, Corbis

ACTIVITIES	Effect Determination	EFFECTS and JUSTIFICATION: The scope of work for these activities is limited to the road surface/bridge deck. Since the Black-Footed Ferret does not permanently occupy these locations and there are no elements of suitable habitat in these locations, there will be ***no effect*** on the species.	These activities occur in streams and bottomlands, paved areas, urbanized locations, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat for the Black-footed Ferret which is closely associated with prairie dogs, and found in short and mid-grass prairies. The USFWS considers the probability of the species to occur in the state to be very low and considers the black-footed ferret to be extirpated in Nebraska. Since the species does not occur in the location of the activity, there will be ***no effect*** on the species.	These activities ***may affect*** the species due to habitat modifications, direct takings, lighting impacts, impacts to prey species, and/or habitat fragmentation and require consultation.
Asphalt Patching	NE	Ø		
Bank Stabilization	NE		Ø	
Barge Staging	NE		Ø	
Bridge Deck Repair	NE	Ø		
Bridge Deck Replacement	NE		Ø	
Bridge Painting	NE		Ø	
Bridge Rail Repair/Replacement	NE	Ø		
Bridge Substructure New, Replacement, or Repair - Ephemeral	NE		Ø	
Bridge Substructure New, Replacement, or Repair - Intermittent	NE		Ø	
Bridge Substructure New, Replacement, or Repair - Perennial	NE		Ø	
Bridge Superstructure New & Replacement - Ephemeral	NE		Ø	
Bridge Superstructure New & Replacement - Intermittent	NE		Ø	
Bridge Superstructure New & Replacement - Perennial	NE		Ø	
Channel Grade Stabilization Structures	NE		Ø	
Channelization, Ephemeral	NE		Ø	
Channelization, Intermittent	NE		Ø	
Channelization, Perennial	NE		Ø	
Clearing and Grubbing - Non-woody Vegetation	NE		Ø	
Clearing and Grubbing - Trees & Shrubs	NE		Ø	
Cofferdams	NE		Ø	
Concrete Pavement Repair	NE	Ø		
Crack Sealing and Joint Sealing	NE	Ø		
Culvert New, Replacement, Extension, Repair - Ephemeral	NE	Ø		
New, Culvert Replacement, Extension, Repair - Intermittent	NE		Ø	
Culvert New, Replacement, Extension, Repair - Perennial	NE		Ø	
Curb & Flume	NE		Ø	
Curb & Gutter	NE		Ø	
Detention Basin	NE		Ø	
De-watering	NE		Ø	
Drilled Shafts	NE		Ø	
Earth Shoulder Construction	NE		Ø	
Erosion Control - Barriers	NE		Ø	
Erosion Control - Erosion Checks	NE		Ø	
Erosion Control - Inlet/Outlet Protection	NE		Ø	
Erosion Control - Mulching	NE		Ø	
Erosion Control - Rolled Erosion Control	NE		Ø	
Erosion Control - Slope Interruption	NE		Ø	
Erosion Control - Traps and Basins	NE		Ø	
Erosion Control - Vegetation	NE		Ø	
Fencing	NE		Ø	
Grading Within the Hinge Point	NE		Ø	
Grading Outside the Hinge Point	NE		Ø	
Guardrail Repair with Soil Disturbance	NE		Ø	
Guardrail Repair without Soil Disturbance	NE		Ø	
Habitat Fragmentation, Modification of Connectivity	MA		Ø	
Landscaping	NE		Ø	
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NE		Ø	
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil	NE		Ø	
Microsurfacing	NE	Ø		
Milling and/or In-place Recycling	NE	Ø		
Nighttime work with Lights	NE	Ø		
Noise Walls (Not in water/wetlands)	NE		Ø	
Overpass	NE		Ø	
Pavement Removal	NE	Ø		
Paving	NE	Ø		
Piers	NE		Ø	
Pile Driving - Impact	NE		Ø	
Pile Driving - Vibratory	NE		Ø	
Pile/Pier Encasement	NE		Ø	
Pipe Jacking & Casing	NE		Ø	
Pre-watering	NE		Ø	
Removal of Structures and Obstructions	NE		Ø	
Replacing a Bridge with a Culvert	NE		Ø	
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø		
Retaining Walls (NOT IN Water/Wetlands)	NE		Ø	
Rock or Gravel Surfacing	NE	Ø		
Shoo-fly	NE		Ø	
Sidewalks and Bikeways	NE		Ø	
Signs with Soil Disturbance	NE		Ø	
Signs without Soil Disturbance	NE		Ø	
Stream Channel Impact, Ephemeral	NE		Ø	
Stream Channel Impact, Intermittent	NE		Ø	
Stream Channel Impact, Perennial	NE		Ø	
Temporary Crossing, Causeway, Work-Platform	NE		Ø	
Trenched Widening	NE		Ø	
Underground Utility Conduit	NE		Ø	
Wetland Mitigation	NE		Ø	

BLOWOUT PENSTEMON

Penstemon haydenii
Federal Status: Endangered
Nebraska Status: Endangered

Photo by Tim Griffin

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck which does not support plant growth. Since these activities do not occur within suitable habitat for the Blowout Penstemon, there will be ***no effect*** on the species.	These activities occur along stream courses and drainages, in paved areas, urbanized locations, areas previously disturbed by other construction activities, and/or generally in locations that do not support suitable habitat for the Blowout Penstemon which occurs in dry sandy blowouts. Since the activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.	Night-time work with lights does not directly utilize or alter suitable habitat for the Blowout Penstemon, and it does not directly or indirectly impact the species. Therefore, there will be ***no effect*** on the species.	These activities could disturb suitable habitat for the Blowout Penstemon. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect the species*** (see Conservation Condition 1).	These activities could indirectly affect the hydrology of the area and thereby affect the Blowout Penstemon. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).	These bridge activities could impact suitable habitat for Blowout Penstemon, with possible effects of crushing plants or contaminating soils. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).	Habitat fragmentation activities could reduce the amount, size, or other aspect of habitat suitability for the Blowout Penstemon. Reduction in habitat suitability ***may affect*** the species, and requires consultation.
Asphalt Patching	NE	Ø						
Bank Stabilization	NLAA CC[1]				*			
Barge Staging	NE		Ø					
Bridge Deck Repair	NLAA CC[2 or 1]				*			
Bridge Deck Replacement	NLAA CC[2 or 1]				*			
Bridge Painting	NLAA CC[2 or 1]				*			
Bridge Rail Repair/Replacement	NLAA CC[2 or 1]				*			
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC[1]				*			
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA CC[1]				*			
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA CC[2 or 1]				*			
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC[2 or 1]				*			
Bridge Superstructure New & Replacement - Intermittent	NLAA CC[2 or 1]				*			
Bridge Superstructure New & Replacement - Perennial	NLAA CC[2 or 1]				*			
Channel Grade Stabilization Structures	NE		Ø					
Channelization, Ephemeral	NLAA CC[1]				*			
Channelization, Intermittent	NLAA CC[1]				*			
Channelization, Perennial	NLAA CC[1]				*			
Clearing and Grubbing - Non-woody Vegetation	NLAA CC[1]				*			
Clearing and Grubbing - Trees & Shrubs	NLAA CC[1]				*			
Cofferdams	NE		Ø					
Concrete Pavement Repair	NE		Ø					
Crack Sealing and Joint Sealing	NE		Ø					
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC[1]				*			
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA CC[1]				*			
Culvert New, Replacement, Extension, Repair - Perennial	NLAA CC[1]				*			
Curb & Flume	NLAA CC[1]				*			
Curb & Gutter	NE		Ø					
Detention Basin	NLAACC[1]				*			
De-watering	NE		Ø					
Drilled Shafts	NE		Ø					
Earth Shoulder Construction	NLAA CC[1]				*			
Erosion Control - Barriers	NE		Ø					
Erosion Control - Erosion Checks	NE		Ø					
Erosion Control - Inlet/Outlet Protection	NE		Ø					
Erosion Control - Mulching	NE		Ø					
Erosion Control - Rolled Erosion Control	NE		Ø					
Erosion Control - Slope Interruption	NE		Ø					
Erosion Control - Traps and Basins	NE		Ø					
Erosion Control - Vegetation	NLAA CC[1]				*			
Fencing	NLAA CC[1]				*			
Grading Within the Hinge Point	NLAA CC[1]				*			
Grading Outside the Hinge Point	NLAA CC[1]				*			
Guardrail Repair with Soil Disturbance	NLAA CC[1]				*			
Guardrail Repair without Soil Disturbance	NE		Ø					
Habitat Fragmentation, Modification of Connectivity	MA							!
Landscaping	NLAA CC[1]				*			
Lighting, Traffic & Pedestrian Signals, DMS w/ Soil	NLAA CC[1]				*			
Lighting, Traffic & Pedestrian Signals, DMS w/o Soil Disturbance	NE		Ø					
Microsurfacing	NE		Ø					
Milling and/or In-place Recycling	NE		Ø					
Nighttime work with Lights	NE			Ø				
Noise Walls (Not in water/wetlands)	NLAA CC[1]				*			
Overpass	NLAA CC[1]				*			
Pavement Removal	NE		Ø					
Paving	NE		Ø					
Piers	NE		Ø					
Pile Driving - Impact	NLAA CC[1 or 2]				*			
Pile Driving - Vibratory	NLAA CC[1 or 2]				*			
Pile/Pier Encasement	NLAA CC[1]				*			
Pipe Jacking & Casing	NLAA CC[1]				*			
Pre-watering	NE		Ø					
Removal of Structures and Obstructions	NLAA CC[1]				*			
Replacing a Bridge with a Culvert	NE		Ø					
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NLAA CC[1]				*			
Retaining Walls (NOT IN Water/Wetlands)	NE		Ø					
Rock or Gravel Surfacing	NLAA CC[1]				*			
Shoo-fly	NE		Ø					
Sidewalks and Bikeways	NLAA CC[1]				*			
Signs with Soil Disturbance	NE		Ø					
Signs without Soil Disturbance	NLAA CC[1]				*			
Stream Channel Impact, Ephemeral	NLAA CC[1]				*			
Stream Channel Impact, Intermittent	NLAA CC[1]				*			
Stream Channel Impact, Perennial	NLAA CC[1]				*			
Temporary Crossing, Causeway, Work-Platform	NLAA CC[1]				*			
Trenched Widening	NLAA CC[1]				*			
Underground Utility Conduit	NLAA CC[1]				*			
Wetland Mitigation	NLAA CC[1]				*			

COLORADO BUTTERFLY PLANT

Gaura neomexicana coloradensis
Federal Status: Not listed
Nebraska Status: Endangered

Photo by Georgia Doyle

EFFECTS and JUSTIFICATION

ACTIVITIES	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair - Ephemeral	Bridge Substructure New, Replacement, or Repair - Intermittent	Bridge Substructure New, Replacement, or Repair - Perennial	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic & Pedestrain Signals, DMS w/ Soil Disturance	Lighting, Traffic & Pedestrian Signals, DMS w/o Soil Disturbance	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	NE	NLAA CC[1]	NE	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAACC[1]	NLAA CC[1]	NE	NLAA CC[1]	NE	NE	NE	NLAA CC[1]	NE	NE	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	MA	NLAA CC[1]	NLAA CC[1]	NE	NE	NE	NE	NLAA CC[1]	NLAA CC[1]	NE	NE	NLAA CC[1]	NLAA CC[1or2]	NLAA CC[1or2]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NE	NLAA CC[1]	NE	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	MA
The scope of work for these activities is limited to the road surface/bridge deck which does not support plant growth. Since these activities do not occur within suitable habitat for the Colorado Butterfly Plant, there will be ***no effect*** on the species.	Ø																				Ø	Ø																											Ø	Ø				Ø	Ø									Ø		Ø												
These activities occur in paved areas, open water, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat for the Colorado Butterfly Plant which occurs in moist terraces adjacent to streams. Since the activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.			Ø																								Ø			Ø		Ø	Ø	Ø		Ø	Ø	Ø						Ø				Ø																				Ø		Ø							
Night-time work with lights does not directly utilize or alter suitable habitat for the Colorado Butterfly Plant, and it does not directly or indirectly impact the species. Therefore, there will be ***no effect*** on the species.																																																			Ø																										
These activities could disturb suitable habitat for the Colorado Butterfly Plant. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect the species*** (see Conservation Condition 1).		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*	*	*	*			*		*				*				*	*	*	*	*			*	*					*	*			*	*	*	*	*	*	*	*		*		*		*		*	*	*	*	*	*	
These activities could indirectly affect the hydrology of the area and thereby affect the Colorado Butterfly Plant. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).																												*																																																	
These bridge activities could impact suitable habitat for Colorado Butterfly Plant, with possible effects of crushing plants or contaminating soils. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).				*	*	*	*				*	*	*																																												*	*																			
Habitat fragmentation activities could reduce the amount, size, or other aspect of habitat suitability for the Colorado Butterfly Plant. Reduction in habitat suitability ***may affect*** the species, and requires consultation.																																													!																																
Although an environmentally beneficial activity, if wetland mitigation occurs within suitable habitat for the Colorado Butterfly Plant, it could increase the water regime beyond the threshold level for the species. Since the activity ***may affect*** the species, consultation is required.																																																																													!

EASTERN BLACK RAIL

Laterallus jamaicensis jamaicensis
Federal Status: Threatened
Nebraska Status: Threatened

Eastern black rail. Photo © Tom Johnson, the Macaulay Library at the Cornell Lab of Ornithology.

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since the Black Rail does not permanently occupy these locations, there are no elements of suitable habitat in these locations, and the black rail would already avoid the road surface/bridge deck due to existing human disturbance there will be ***no effect*** on the species.	These construction activities could occur during nesting season create noise or human disturbance that could impact the species through directly harming the animal, disturbing breeding or foraging behaviors, disturbing occupied or suitable habitat, or indirectly modifying habitat. However because of the sporadic nature of this species, potential impacts are considered insignificant or dicountable and there is **not likely** to be an **adverse effect** on the species. ***NOTE** Because of the ephemeral nature of the occurrences of the species in the state of Nebraska, there are no applicable conservation conditions	Temporary or permanent lighting during the nesting season could impact the species through directly harming the animal, disturbing breeding behavior, disturbing occupied or suitable habitat, or indirectly modifying habitat. However because of the sporadic nature of this species, potential impacts are considered insignificant or dicountable and there is **not likely** to be an **adverse effect** on the species. ***NOTE** Because of the ephemeral nature of the occurrences of the species in the state of Nebraska, there are no applicable conservation conditions.	Construction activities could create noise or disturbances for the species during construction/installation and impact the animal by disturbing breeding or foraging behaviors, or disturbing occupied habitat. Based on the short duration of activities and the sporadic nature of this species, potential impacts are considered insignificant or dicountable and there is **not likely** to be an **adverse effect** on the species. ***NOTE** Because of the ephemeral nature of the occurrences of the species in the state of Nebraska, there are no applicable conservation conditions.	These activities **may affect** the species due to habitat fragmentation and requires consultation.
Asphalt Patching	NE	Ø				
Bank Stabilization	NLAA					
Barge Staging	NLAA					
Bridge Deck Repair	NLAA		*			
Bridge Deck Replacement	NLAA					
Bridge Painting	NLAA					
Bridge Rail Repair/Replacement	NE	Ø				
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA		*			
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA		*			
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA		*			
Bridge Superstructure New & Replacement - Ephemeral	NLAA		*			
Bridge Superstructure New & Replacement - Intermittent	NLAA		*			
Bridge Superstructure New & Replacement - Perennial	NLAA		*			
Channel Grade Stabilization Structures	NLAA		*			
Channelization, Ephemeral	NLAA		*			
Channelization, Intermittent	NLAA		*			
Channelization, Perennial	NLAA		*			
Clearing and Grubbing-Non-woody Vegetation	NLAA		*			
Clearing and Grubbing-Trees & Shrubs	NLAA		*			
Cofferdams	NLAA		*			
Concrete Pavement Repair	NLAA					
Crack Sealing and Joint Sealing	NLAA					
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA		*			
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA		*			
Culvert New, Replacement, Extension, Repair - Perennial	NLAA		*			
Curb & Flume	NLAA		*			
Curb & Gutter	NLAA		*			
Detention Basin	NLAA		*			
De-watering	NLAA		*			
Drilled Shafts	NLAA		*			
Earth Shoulder Construction	NLAA		*			
Erosion Control - Barriers	NLAA		*			
Erosion Control - Erosion Checks	NLAA		*			
Erosion Control - Inlet/Outlet Protection	NLAA		*			
Erosion Control - Mulching	NLAA		*			
Erosion Control - Rolled Erosion Control	NLAA		*			
Erosion Control - Slope Interruption	NLAA		*			
Erosion Control - Traps and Basins	NLAA		*			
Erosion Control - Vegetation	NLAA		*			
Fencing	NLAA		*			
Grading Within the Hinge Point	NLAA					
Grading Outside the Hinge Point	NLAA		*			
Guardrail Repair with Soil Disturbance	NLAA		*			
Guardrail Repair without Soil Disturbance	NLAA					
Habitat Fragmentation, Modification of Connectivity	MA					!
Landscaping	NLAA		*			
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NLAA		*			
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	NLAA					
Microsurfacing	NE	Ø				
Milling and/or In-place Recycling	NE	Ø				
Nighttime work with Lights	NLAA		*			
Noise Walls (Not in water/wetlands)	NLAA		*			
Overpass	NLAA		*			
Pavement Marking	NE	Ø				
Pavement Removal	NLAA		*			
Paving	NE	Ø				
Piers	NLAA		*			
Pile Driving - Impact	NLAA		*			
Pile Driving - Vibratory	NLAA		*			
Pile/Pier Encasement	NLAA		*			
Pipe Jacking & Casing	NLAA		*			
Pre-watering	NLAA		*			
Removal of Structures and Obstructions	NLAA		*			
Replacing a Bridge with a Culvert	NLAA		*			
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø				
Retaining Walls (NOT IN Water/Wetlands)	NLAA		*			
Rock or Gravel Surfacing	NE	Ø				
Shoo-fly	NLAA		*			
Sidewalks and Bikeways	NLAA		*			
Signs with Soil Disturbance	NLAA		*			
Signs without Soil Disturbance	NLAA		*			
Stream Channel Impact, Ephemeral	NLAA		*			
Stream Channel Impact, Intermittent	NLAA		*			
Stream Channel Impact, Perennial	NLAA		*			
Temporary Crossing, Causeway, Work-Platform	NLAA		*			
Trenched Widening	NLAA		*			
Underground Utility Conduit	NLAA		*			
Wetland Mitigation	NLAA		*			

ESKIMO CURLEW

Numenius borealis
Federal Status: Endangered
Nebraska Status: Endangered

Photo by Gerrit Vyn

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since the Eskimo Curlew does not permanently occupy these locations and there are no elements of suitable habitat in these locations, there will be ***no effect*** on the species.	These activities occur in streams and bottomlands, road surface/bridge deck, paved areas, urbanized locations, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat for the Eskimo Curlew which uses a variety of wetland and agricultural habitats, including newly tilled fields, burned prairies and marshes. Since the species does not occur in the location of the activity, there will be ***no effect*** on the species.	While these activities can modify /or fragment habitats once utilized by the Eskimo Curlew, scientific literature suggests that the pressures of climate change and unregulated hunting were the primary stressors that lead to the species' disappearance from Nebraska (Silcock and Jorgenson 2020, Gill et al. 2020). Additionally, there have been no accepted occurrence records of this species in the state since 1962 (Brooking 1942; Swenk 1926; Bray et al. 1986) with no foreseeable improvements expected despite some conservation efforts that have occurred in North America to improve population numbers (Gill et al. 2020). For these reasons, FHWA/NDOT had determined that these activities will have ***no effect*** on the species.
Asphalt Patching	NE		Ø	
Bank Stabilization	NE		Ø	
Barge Staging	NE		Ø	
Bridge Deck Repair	NE		Ø	
Bridge Deck Replacement	NE		Ø	
Bridge Painting	NE		Ø	
Bridge Rail Repair/Replacement	NE		Ø	
Bridge Substructure New, Replacement, or Repair - Ephemeral	NE		Ø	
Bridge Substructure New, Replacement, or Repair - Intermittent	NE		Ø	
Bridge Substructure New, Replacement, or Repair - Perennial	NE		Ø	
Bridge Superstructure New & Replacement - Ephemeral	NE		Ø	
Bridge Superstructure New & Replacement - Intermittent	NE		Ø	
Bridge Superstructure New & Replacement - Perennial	NE		Ø	
Channel Grade Stabilization Structures	NE		Ø	
Channelization, Ephemeral	NE		Ø	
Channelization, Intermittent	NE		Ø	
Channelization, Perennial	NE		Ø	
Clearing and Grubbing - Non-woody Vegetation	NE		Ø	
Clearing and Grubbing - Trees & Shrubs	NE		Ø	
Cofferdams	NE		Ø	
Concrete Pavement Repair	NE		Ø	
Crack Sealing and Joint Sealing	NE		Ø	
Culvert New, Replacement, Extension, Repair - Ephemeral	NE		Ø	
Culvert New, Replacement, Extension, Repair - Intermittent	NE		Ø	
Culvert New, Replacement, Extension, Repair - Perennial	NE		Ø	
Curb & Flume	NE		Ø	
Curb & Gutter	NE		Ø	
Detention Basin	NE		Ø	
De-watering	NE		Ø	
Drilled Shafts	NE		Ø	
Earth Shoulder Construction	NE		Ø	
Erosion Control - Barriers	NE		Ø	
Erosion Control - Erosion Checks	NE		Ø	
Erosion Control - Inlet/Outlet Protection	NE		Ø	
Erosion Control - Mulching	NE		Ø	
Erosion Control - Post-Construction Erosion Control	NE		Ø	
Erosion Control - Rolled Erosion Control	NE		Ø	
Erosion Control - Slope Interruption	NE		Ø	
Erosion Control - Traps and Basins	NE		Ø	
Erosion Control - Vegetation	NE		Ø	
Fencing	NE		Ø	
Grading Within the Hinge Point	NE		Ø	
Grading Outside the Hinge Point	NE		Ø	
Guardrail Repair with Soil Disturbance	NE		Ø	
Guardrail Repair without Soil Disturbance	NE		Ø	
Habitat Fragmentation, Modification of Connectivity	NE			Ø
Landscaping	NE		Ø	
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NE		Ø	
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	NE		Ø	
Microsurfacing	NE		Ø	
Milling and/or In-place Recycling	NE		Ø	
Nighttime work with Lights	NE		Ø	
Noise Walls (Not in water/wetlands)	NE		Ø	
Overpass	NE		Ø	
Pavement Removal	NE		Ø	
Paving	NE		Ø	
Piers	NE		Ø	
Pile Driving - Impact	NE		Ø	
Pile Driving - Vibratory	NE		Ø	
Pile/Pier Encasement	NE		Ø	
Pipe Jacking & Casing	NE		Ø	
Pre-watering	NE		Ø	
Removal of Structures and Obstructions	NE		Ø	
Replacing a Bridge with a Culvert	NE		Ø	
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE		Ø	
Retaining Walls (NOT IN Water/Wetlands)	NE		Ø	
Rock or Gravel Surfacing	NE		Ø	
Shoo-fly	NE		Ø	
Sidewalks and Bikeways	NE		Ø	
Signs with Soil Disturbance	NE		Ø	
Signs without Soil Disturbance	NE		Ø	
Stream Channel Impact, Ephemeral	NE		Ø	
Stream Channel Impact, Intermittent	NE		Ø	
Stream Channel Impact, Perennial	NE		Ø	
Temporary Crossing, Causeway, Work-Platform	NE		Ø	
Trenched Widening	NE		Ø	
Underground Utility Conduit	NE		Ø	
Wetland Mitigation	NE		Ø	

FINESCALE DACE

Phoxinus neogaeus
Federal Status: Not Listed
Nebraska Status: Threatened

Photo by DaeMin Kim

EFFECTS and JUSTIFICATION

Effect Determination	ACTIVITIES	The scope of work for these activities is limited to the road surface/bridge deck. Since the Finescale Dace does not occur in these locations, there will be ***no effect*** on the species.	These activities occur in paved areas, urbanized locations, uplands, large rivers, and generally in locations that do not support suitable habitat for the Finescale Dace which occurs in small freshwater creeks and shallow weedy areas of lakes and ponds in the central Sandhills of Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.	Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.	Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Finescale Dace. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1)**.**	These bridge activities could result in materials falling from the bridge deck and impacting the Finescale Dace or its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).	Ephemeral and intermittant channels may contain elements of suitable habitat within them. When the channel is dry, species will not be present, but channel modifications may convert suitable habitat characteristics of the channel to unsuitable habitat for use by the species when water is present. In addition, in-channel work may cause an increase in sedimentation or turbidity downstream of the site once water returns. Therefore, this activity may affect this species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).	Finescale Dace utilizes shrubby overhangs along creek banks. Construction activities may destroy or remove this type of vegetation, which may affect species habitat. Landscaping and revegetation involves reestablishment of upland vegetation in areas disturbed by construction, and the type of plants used may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).	These activities could result in downstream erosion and sedimentation, and reduction in water quality for the Finescale Dace. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5)**.**	These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing turbidity or sedimentation, and require consultation.
NE	Asphalt Patching	Ø							
MA	Bank Stabilization								
NE	Barge Staging		Ø						
NLAA CC[2]	Bridge Deck Repair								
NLAA CC[2]	Bridge Deck Replacement								
NLAA CC[2]	Bridge Painting								
NLAA CC[2]	Bridge Rail Repair/Replacement								
NLAA CC[2]	Bridge Substructure New, Replacement, or Repair - Ephemeral								
NLAA CC[2]	Bridge Substructure New, Replacement, or Repair - Intermittent								
MA	Bridge Substructure New, Replacement, or Repair - Perennial								
NLAA CC[2]	Bridge Superstructure New & Replacement - Ephemeral								
NLAA CC[2]	Bridge Superstructure New & Replacement - Intermittent								
NLAA CC[2]	Bridge Superstructure New & Replacement - Perennial								
MA	Channel Grade Stabilization Structures								
MA	Channelization, Ephemeral								
MA	Channelization, Intermittent								
MA	Channelization, Perennial								
NLAA CC[2] or MA	Clearing and Grubbing - Non-woody Vegetation								
NLAA CC[2] or MA	Clearing and Grubbing - Trees & Shrubs								
NLAA CC[2]	Cofferdams								
NE	Concrete Pavement Repair		Ø						
NE	Crack Sealing and Joint Sealing		Ø						
MA	Culvert New, Replacement, Extension, Repair - Ephemeral								
MA	Culvert New, Replacement, Extension, Repair - Intermittent								
MA	Culvert New, Replacement, Extension, Repair - Perennial								
NE	Curb & Flume								
NE	Curb & Gutter								
NLAA CC[1]	Detention Basin								
MA	De-watering								
MA	Drilled Shafts								
NE	Earth Shoulder Construction								
NE	Erosion Control - Barriers								
NE	Erosion Control - Erosion Checks								
NE	Erosion Control - Inlet/Outlet Protection								
NE	Erosion Control - Mulching								
NE	Erosion Control - Rolled Erosion Control								
NE	Erosion Control - Slope Interruption								
NE	Erosion Control - Traps and Basins								
NLAACC[4]	Erosion Control - Vegetation								
NE	Fencing								
NE	Grading Above the Hinge Point								
NLAA CC[2] or MA	Grading Below the Hinge Point								
NE	Guardrail Repair with Soil Disturbance								
NE	Guardrail Repair without Soil Disturbance								
MA	Habitat Fragmentation, Modification of Connectivity								
NLAA CC[1]	Landscaping								
NE	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance								
NE	Lighting, Traffic & Pedestrian Signals, DMS w/out Soil Disturbance								
NE	Microsurfacing								
NE	Milling and/or In-place Recycling								
NE	Nighttime work with Lights			Ø					
NE	Noise Walls (Not in water/wetlands)								
NE	Overpass								
NE	Pavement Removal								
NE	Paving								
NLAA CC[2] or MA	Piers								
MA	Pile Driving - Impact								
MA	Pile Driving - Vibratory								
NLAA CC[3]	Pile/Pier Encasement								
NLAA CC[3]	Pipe Jacking & Casing								
MA	Pre-watering								
NLAA CC[2] or MA	Removal of Structures and Obstructions								
MA	Replacing a Bridge with a Culvert								
NE	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal								
NE	Retaining Walls (NOT IN Water/Wetlands)								
NE	Rock or Gravel Surfacing								
MA	Shoo-fly								
NE	Sidewalks and Bikeways								
NE	Signs with Soil Disturbance								
NE	Signs without Soil Disturbance								
MA	Stream Channel Impact, Ephemeral								
MA	Stream Channel Impact, Intermittent								
MA	Stream Channel Impact, Perennial								
MA	Temporary Crossing, Causeway, Work-Platform								
NE	Trenched Widening								
NE	Underground Utility Conduit								
MA	Wetland Mitigation								

GRAY WOLF

Federal Status: Endangered
Nebraska Status: Endangered

Photo by Joel Sartore

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since the Gray Wolf does not permanently occupy these locations and are no known permanent populations in the state, there will be ***no effect*** on the species.	Although these areas may be used as movement corridors, these types of activities may have a negligible, discountable, temporary restriction of movements during construction only. During construction, individual animals could continue movements avoiding the construction location. Because these types of activities do not modify large areas of natural habitats, do not impede movements, and because the species does not permanently occupy these areas, there will be ***no effect*** on the species.	These activities ***may affect*** the species due to habitat fragmentation and require consultation.
Asphalt Patching	NE	Ø		
Bank Stabilization	NE		Ø Ø	
Barge Staging	NE		Ø Ø	
Bridge Deck Repair	NE	Ø		
Bridge Deck Replacement	NE		Ø Ø	
Bridge Painting	NE		Ø Ø	
Bridge Rail Repair/Replacement	NE	Ø		
Bridge Substructure New, Replacement, or Repair - Ephemeral	NE		Ø Ø Ø Ø	
Bridge Substructure New, Replacement, or Repair - Intermittent	NE		Ø Ø Ø Ø	
Bridge Substructure New, Replacement, or Repair - Perennial	NE		Ø Ø Ø Ø	
Bridge Superstructure New & Replacement - Ephemeral	NE	Ø		
Bridge Superstructure New & Replacement - Intermittent	NE		Ø Ø Ø Ø	
Bridge Superstructure New & Replacement - Perennial	NE		Ø Ø Ø Ø	
Channel Grade Stabilization Structures	NE		Ø Ø Ø Ø	
Channelization, Ephemeral	NE		Ø Ø Ø Ø	
Channelization, Intermittent	NE	Ø		
Channelization, Perennial	NE		Ø Ø Ø Ø	
Clearing and Grubbing - Non-woody Vegetation	NE		Ø Ø Ø Ø	
Clearing and Grubbing - Trees & Shrubs	NE		Ø Ø Ø Ø	
Cofferdams	NE		Ø Ø Ø Ø	
Concrete Pavement Repair	NE	Ø		
Crack Sealing and Joint Sealing	NE		Ø Ø	
Culvert New, Replacement, Extension, Repair - Ephemeral	NE		Ø Ø	
Culvert New, Replacement, Extension, Repair - Intermittent	NE		Ø Ø	
Culvert New,Replacement, Extension, Repair - Perennial	NE	Ø		
Curb & Flume	NE		Ø Ø Ø Ø	
Curb & Gutter	NE		Ø Ø Ø Ø	
Detention Basin	NE		Ø Ø Ø Ø	
De-watering	NE	Ø		
Drilled Shafts	NE		Ø Ø Ø Ø	
Earth Shoulder Construction	NE		Ø Ø Ø Ø	
Erosion Control - Barriers	NE		Ø Ø Ø Ø	
Erosion Control - Erosion Checks	NE	Ø		
Erosion Control - Inlet/Outlet Protection	NE		Ø Ø Ø Ø	
Erosion Control - Mulching	NE		Ø Ø Ø Ø	
Erosion Control - Rolled Erosion Control	NE	Ø		
Erosion Control - Slope Interruption	NE		Ø Ø Ø Ø	
Erosion Control - Traps and Basins	NE		Ø Ø Ø Ø	
Erosion Control - Vegetation	NE		Ø Ø Ø Ø	
Fencing	NE	Ø		
Grading Within the Hinge Point	NE		Ø Ø Ø Ø	
Grading Outside the Hinge Point	NE		Ø Ø Ø Ø	
Guardrail Repair with Soil Disturbance	NE		Ø Ø Ø Ø	
Guardrail Repair without Soil Disturbance	NE	Ø		
Habitat Fragmentation, Modification of Connectivity	NE		Ø Ø Ø Ø	
Landscaping	NE		Ø Ø Ø Ø	
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NE	Ø		
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	NE		Ø Ø Ø Ø	
Microsurfacing	NE		Ø Ø Ø Ø	
Milling and/or In-place Recycling	NE		Ø Ø Ø Ø	
Nighttime work with Lights	NE		Ø Ø Ø Ø	
Noise Walls (Not in water/wetlands)	NE	Ø		
Overpass	NE		Ø Ø Ø Ø	
Pavement Removal	NE		Ø Ø Ø Ø	
Paving	NE	Ø		
Piers	NE		Ø Ø Ø Ø	
Pile Driving - Impact	NE		Ø Ø Ø Ø	
Pile Driving - Vibratory	NE		Ø Ø Ø Ø	
Pile/Pier Encasement	NE	Ø		
Pipe Jacking & Casing	NE		Ø Ø Ø Ø	
Pre-watering	NE		Ø Ø Ø Ø	
Removal of Structures and Obstructions	NE		Ø Ø Ø Ø	
Replacing a Bridge with a Culvert	NE	Ø		
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE		Ø Ø Ø Ø	
Retaining Walls (NOT IN Water/Wetlands)	NE		Ø Ø Ø Ø	
Rock or Gravel Surfacing	NE		Ø Ø Ø Ø	
Shoo-fly	NE	Ø		
Sidewalks and Bikeways	NE		Ø Ø Ø Ø	
Signs with Soil Disturbance	NE		Ø Ø Ø Ø	
Signs without Soil Disturbance	NE		Ø Ø Ø Ø	
Stream Channel Impact, Ephemeral	NE	Ø		
Stream Channel Impact, Intermittent	NE		Ø Ø Ø Ø	
Stream Channel Impact, Perennial	NE		Ø Ø Ø Ø	
Temporary Crossing, Causeway, Work-Platform	NE	Ø		
Trenched Widening	NE		Ø Ø Ø Ø	
Underground Utility Conduit	NE		Ø Ø Ø Ø	
Wetland Mitigation	NE		Ø Ø Ø Ø	

INTERIOR LEAST TERN

Sternula antillarum athalassos
Federal Status: Not listed
Nebraska Status: Endangered

Photo by Gary Smyle, American Bird Conservancy

ACTIVITIES

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since these activities do not occur within suitable habitat for the Interior Least Tern, there will be ***no effect*** on the species.	These activities occur in paved areas, urbanized locations, and generally in locations that do not support suitable habitat for the Interior Least Tern which utilize dry, exposed sandbars or beach areas, mostly along the Platte and Missouri Rivers. Since these activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.	Based on the location of this activity being within the confines of the roadway, known tolerance of the species to human activity/presence, and the short duration of the construction (approximately moves 1-mile per day, there will be ***no effect*** on the species	These construction activities could occur during nesting season create noise or human disturbance that could impact the species through directly harming the animal, disturbing breeding or foraging behaviors, disturbing occupied or suitable habitat, or indirectly modifying habitat. All permanent lighting will be directed away from suitable habitat. With the implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Conditions 1, 2).	River transport and placement of barge(s) within the river channel during nesting season creates noise or human disturbance that could impact the species through directly harming the animal, disturbing breeding or foraging behaviors, disturbing occupied or suitable habitat, or indirectly modifying habitat. With the implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 3).	These activities involve reestablishment of vegetation in areas disturbed by construction. Establishment of non-native species, or species that are too tall, could alter habitat suitability for the Interior Least Tern which prefers open areas with wide visibility. With the implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 4).	Nighttime work with lights during the nesting season could impact the species through directly harming the animal, disturbing breeding behavior, disturbing occupied or suitable habitat, or indirectly modifying habitat. With the implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 5).	These activities ***may affect*** the species due to habitat modifications, direct takings, and/or habitat fragmentation and require consultation.
Asphalt Patching	NE	Ø							
Bank Stabilization	MA								!
Barge Staging	NLAA CC [3]					*			
Bridge Deck Repair	NLAA CC [1, 2]				*				
Bridge Deck Replacement	NLAA CC [1, 2,3]				*				
Bridge Painting	NLAA CC [1, 2]				*				
Bridge Rail Repair/Replacement	NLAA CC [1, 2]				*				
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC [1, 2]				*				
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA CC [1, 2]				*				
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA CC [1, 2]				*				
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC [1, 2]				*				
Bridge Superstructure New & Replacement - Intermittent	NLAA CC [1, 2]				*				
Bridge Superstructure New & Replacement - Perennial	NLAA CC [1, 2]				*				
Channel Grade Stabilization Structures	NLAA CC [1, 2]				*				
Channelization, Ephemeral	NLAA CC [1, 2]				*				
Channelization, Intermittent	NLAA CC [1, 2]				*				
Channelization, Perennial	NLAA CC [1, 2]				*				
Clearing and Grubbing - Non-woody Vegetation	NLAA CC [1, 2]				*				
Clearing and Grubbing - Trees & Shrubs	NLAA CC [1, 2]				*				
Cofferdams	NLAA CC [1, 2]				*				
Concrete Pavement Repair	NLAA CC [1, 2]				*				
Crack Sealing and Joint Sealing	NE			Ø					
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC [1, 2]				*				
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA CC [1, 2]				*				
Culvert New, Replacement, Extension, Repair - Perennial	NLAA CC [1, 2]				*				
Curb & Flume	NE		Ø						
Curb & Gutter	NE	Ø							
Detention Basin	NLAA CC [1, 2]				*				
De-watering	NLAA CC [1, 2]				*				
Drilled Shafts	NLAA CC [1, 2]				*				
Earth Shoulder Construction	NE	Ø							
Erosion Control - Barriers	NLAA CC [1, 2]				*				
Erosion Control - Erosion Checks	NLAA CC [1, 2]				*				
Erosion Control - Inlet/Outlet Protection	NLAA CC [1, 2]				*				
Erosion Control - Mulching	NLAA CC [1, 2, 4]				*		*		
Erosion Control - Rolled Erosion Control	NLAA CC [1, 2]				*				
Erosion Control - Slope Interruption	NLAA CC [1, 2]				*				
Erosion Control - Traps and Basins	NLAA CC [1, 2]				*				
Erosion Control - Vegetation	NLAA CC [1, 2, 4]				*		*		
Fencing	NLAA CC [1, 2]				*				
Grading Within the Hinge Point	NE		Ø						
Grading Outside the Hinge Point	NLAA CC [1, 2]				*				
Guardrail Repair with Soil Disturbance	NLAA CC [1, 2]				*				
Guardrail Repair without Soil Disturbance	NLAA CC [1, 2]				*				
Habitat Fragmentation, Modification of Connectivity	MA								!
Landscaping	NLAA CC [1, 2, 4]				*		*		
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NLAA CC [1, 2]				*				
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	NLAA CC [1, 2]				*				
Microsurfacing	NE	Ø							
Milling and/or In-place Recycling	NE		Ø						
Nighttime work with Lights	NLAA CC [5]							*	
Noise Walls (Not in water/wetlands)	NLAA CC [1, 2]				*				
Overpass	NLAA CC [1, 2]				*				
Pavement Removal	NLAA CC [1, 2]				*				
Paving	NE	Ø							
Piers	NLAA CC [1, 2]				*				
Pile Driving - Impact	NLAA CC [1, 2]				*				
Pile Driving - Vibratory	NLAA CC [1, 2]				*				
Pile/Pier Encasement	NLAA CC [1, 2]				*				
Pipe Jacking & Casing	NLAA CC [1, 2]				*				
Pre-watering	NLAA CC [1, 2]				*				
Removal of Structures and Obstructions	NLAA CC [1, 2]				*				
Replacing a Bridge with a Culvert	NLAA CC [1, 2]				*				
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø							
Retaining Walls (NOT IN Water/Wetlands)	NLAA CC [1, 2]				*				
Rock or Gravel Surfacing	NE	Ø							
Shoo-fly	NLAA CC [1, 2]				*				
Sidewalks and Bikeways	NE		Ø						
Signs with Soil Disturbance	NLAA CC [1, 2]				*				
Signs without Soil Disturbance	NE		Ø		*				
Stream Channel Impact, Ephemeral	NLAA CC [1, 2]				*				
Stream Channel Impact, Intermittent	NLAA CC [1, 2]				*				
Stream Channel Impact, Perennial	NLAA CC [1, 2]				*				
Temporary Crossing, Causeway, Work-Platform	NLAA CC [1, 2]				*				
Trenched Widening	NE		Ø						
Underground Utility Conduit	NLAA CC [1, 2]				*				
Wetland Mitigation	MA								!

LAKE STURGEON

Acipenser fulvescens
Federal Status: Not Listed
Nebraska Status: Threatened

Photo Zeb Hogan

EFFECTS and JUSTIFICATION

ACTIVITIES	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair -	Bridge Substructure New, Replacement, or Repair -	Bridge Substructure New, Replacement, or Repair -	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams
Effect Determination	NE	MA	NLAA CC[1]	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	NE	MA	MA	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	MA	NE	MA	MA	NLAA CC [7]	NLAA CC [7]	NLAA CC[1]
The scope of work for these activities is limited to the road surface/bridge deck. Since the Lake Sturgeon does not occur in these locations, there will be ***no effect*** on the species.	Ø																			
These activities occur in paved areas, urbanized locations, uplands, ephmeral streams, and generally in locations that do not support suitable habitat for the Lake Sturgeon which occurs in large silty rivers with a diversity of depths and velocities, and primarily in the Missouri and lower Platte Rivers in Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.								Ø							Ø					
Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.																				
Construction noise could disturb reproductive and foraging activities for the Lake Sturgeon due to both vibratory and acoustical impacts. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).			*																	*
Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).																				
Disposal of drill cuttings within the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).																				
These bridge activities could result in materials falling from the bridge deck and directly taking or indirectly altering or contaminating its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).				*	*	*	*				*	*	*							
Discharge of water or spoil into the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. These types of activities could also degrade suitable habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5).																				
Flow modifications or disturbances within the river channel could affect the amount and connectivity of suitable habitat for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 6).																				
These activities could result in downstream erosion and sedimentation, and reduction in water quality in suitable habitat for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect the species*** (see Conservation Condition 7).																		*	*	
These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing sedimentation, and require consultation.		!							!	!				!		!	!			

ACTIVITIES	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing
Effect Determination	NE	NE	NE	MA	MA	NE	NE	NLAA CC[2]	NLAA CC[5]	NLAA CC[3, 5]	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
The scope of work for these activities is limited to the road surface/bridge deck. Since the Lake Sturgeon does not occur in these locations, there will be ***no effect*** on the species.	Ø	Ø																		
These activities occur in paved areas, urbanized locations, uplands, ephmeral streams, and generally in locations that do not support suitable habitat for the Lake Sturgeon which occurs in large silty rivers with a diversity of depths and velocities, and primarily in the Missouri and lower Platte Rivers in Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.			Ø			Ø	Ø				Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø
Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.																				
Construction noise could disturb reproductive and foraging activities for the Lake Sturgeon due to both vibratory and acoustical impacts. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).																				
Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).								*												
Disposal of drill cuttings within the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).										*										
These bridge activities could result in materials falling from the bridge deck and directly taking or indirectly altering or contaminating its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).																				
Discharge of water or spoil into the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. These types of activities could also degrade suitable habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5).									*	*										
Flow modifications or disturbances within the river channel could affect the amount and connectivity of suitable habitat for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 6).																				
These activities could result in downstream erosion and sedimentation, and reduction in water quality in suitable habitat for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect the species*** (see Conservation Condition 7).																				
These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing sedimentation, and require consultation.				!	!															

ACTIVITIES	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil	Lighting, Traffic & Pedestrian Signals, DMS w/out Soil	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing
Effect Determination	NE	NLAA CC[7] or MA	NE	NE	MA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NLAA CC[1,7]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1,5]	NLAA CC[1]
The scope of work for these activities is limited to the road surface/bridge deck. Since the Lake Sturgeon does not occur in these locations, there will be ***no effect*** on the species.									Ø	Ø				Ø	Ø					
These activities occur in paved areas, urbanized locations, uplands, ephmeral streams, and generally in locations that do not support suitable habitat for the Lake Sturgeon which occurs in large silty rivers with a diversity of depths and velocities, and primarily in the Missouri and lower Platte Rivers in Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.	Ø		Ø	Ø		Ø	Ø	Ø				Ø	Ø							
Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.											Ø									
Construction noise could disturb reproductive and foraging activities for the Lake Sturgeon due to both vibratory and acoustical impacts. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).																*	*	*	*	*
Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).																				
Disposal of drill cuttings within the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).																				
These bridge activities could result in materials falling from the bridge deck and directly taking or indirectly altering or contaminating its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).																				
Discharge of water or spoil into the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. These types of activities could also degrade suitable habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5).																			*	
Flow modifications or disturbances within the river channel could affect the amount and connectivity of suitable habitat for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 6).																				
These activities could result in downstream erosion and sedimentation, and reduction in water quality in suitable habitat for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect the species*** (see Conservation Condition 7).		*														*				
These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing sedimentation, and require consultation.		!			!															

ACTIVITIES	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	MA	NLAA CC[6, 7]	MA	NE	NE	NE	NLAA CC[6]	NE	NE	NE	NE	MA	MA	NLAA CC [1, 5, 6]	NE	NE	MA
The scope of work for these activities is limited to the road surface/bridge deck. Since the Lake Sturgeon does not occur in these locations, there will be ***no effect*** on the species.						Ø											
These activities occur in paved areas, urbanized locations, uplands, ephmeral streams, and generally in locations that do not support suitable habitat for the Lake Sturgeon which occurs in large silty rivers with a diversity of depths and velocities, and primarily in the Missouri and lower Platte Rivers in Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.				Ø	Ø			Ø	Ø	Ø	Ø				Ø	Ø	
Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.																	
Construction noise could disturb reproductive and foraging activities for the Lake Sturgeon due to both vibratory and acoustical impacts. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).														*			
Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).																	
Disposal of drill cuttings within the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).																	
These bridge activities could result in materials falling from the bridge deck and directly taking or indirectly altering or contaminating its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).																	
Discharge of water or spoil into the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. These types of activities could also degrade suitable habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5).														*			
Flow modifications or disturbances within the river channel could affect the amount and connectivity of suitable habitat for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 6).		*					*							*			
These activities could result in downstream erosion and sedimentation, and reduction in water quality in suitable habitat for the Lake Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect the species*** (see Conservation Condition 7).		*															
These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing sedimentation, and require consultation.	!		!									!	!				!

MOUNTAIN PLOVER

Charadrius montanus

Federal Status: Proposed Threatened
Nebraska Status: Threatened

Photo by Richard Ditch

ACTIVITIES

EFFECTS and JUSTIFICATION

EFFECTS and JUSTIFICATION	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair - Ephemeral	Bridge Substructure New, Replacement, or Repair - Intermittent	Bridge Substructure New, Replacement, or Repair - Perennial	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Post-Construction Erosion Control	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	NE	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[3]	MA	NLAA CC[1]	NE	MA	NLAA CC[1]	NLAA CC[1,2]	NLAA CC[1,2]	NE	NLAA CC[3]	NLAA CC[2]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[3]	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]
The scope of work for these activities is limited to the road surface/bridge deck. Since the Mountain Plover does not permanently occupy these locations and there are no elements of suitable habitat in these locations, there will be ***no effect*** on the species.	Ø																																																	Ø																	Ø											
These activities occur in paved areas, urbanized locations, open water, and generally in locations that do not support suitable habitat for the Mountain Plover which inhabits arid shortgrass prairie, agricultural fields, areas of bare ground and prairie dog towns in the Kimball Grasslands and Panhandle Prairies of Nebraska. Since these activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.			Ø																								Ø																		Ø																									Ø							
Based on the location of this activity being within the confines of the roadway, known tolerance of the species to human activity/presence, and the short duration of the construction (approximately moves 1-mile per day, there will be ***no effect*** on the species																						Ø																																																									
These construction activities during nesting season create noise or human disturbance that could impact the species through directly harming the animal, disturbing breeding or foraging behaviors, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*			*			*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*		*	*	*		*	*	*	*	*	*	*
Temporary or permanent lighting during the nesting season could impact the species through directly harming the animal, disturbing breeding behavior, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 2).																																																*	*			*																										
Construction activities could create noise or disturbances for the species during construction/installation and impact the animal by disturbing breeding or foraging behaviors, or disturbing occupied habitat. Based on the short duration of activities and implementation of the conservation conditions , this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).																																										*									*														*													
These activities ***may affect*** the species due to habitat modifications, direct takings, and/or habitat fragmentation and require consultation.																																											!			!																																

NORTHERN REDBELLY DACE

Phoxinus eos
Federal Status: Not Listed
Nebraska Status: Threatened

Photo by Konrad P. Schmidt

EFFECTS and JUSTIFICATION

Effect Determination	ACTIVITIES	The scope of work for these activities is limited to the road surface/bridge deck. Since the Northern Redbelly Dace does not occur in these locations, there will be ***no effect*** on the species.	These activities occur in paved areas, urbanized locations, uplands, large rivers, and generally in locations that do not support suitable habitat for the Northern Redbelly Dace which occurs in clear cool water in small streams with adequate vegetation, slow to moderate current and silt or sand substrate. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.	Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.	Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for this fish species. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).	These bridge activities could result in materials falling from the bridge deck and impacting the Northern Redbelly Dace or its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).	Ephemeral and intermittant channels may contain elements of suitable habitat within them. When the channel is dry, species will not be present, but channel modifications may convert suitable habitat characteristics of the channel to unsuitable habitat for use by the species when water is present. In addition, in-channel work may cause an increase in sedimentation or turbidity downstream of the site once water returns. Therefore, this activity may affect this species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).	Northern Redbelly Dace utilizes shrubby overhangs along creek banks. Construction activities may destroy or remove this type of vegetation, which may affect species habitat. Landscaping and revegetation involves reestablishment of upland vegetation in areas disturbed by construction, and the type of plants used may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).	These activities could result in downstream erosion and sedimentation, and reduction in water quality for this fish species. With implementation of conservation conditions, potential impacts will be minimized; therefore, therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5).	These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing turbidity or sedimentation, and require consultation.
NE	Asphalt Patching	Ø							
MA	Bank Stabilization								!
NE	Barge Staging		Ø						
NLAA CC[2]	Bridge Deck Repair				*	*			
NLAA CC[2]	Bridge Deck Replacement					*			
NLAA CC[2]	Bridge Painting					*			
NLAA CC[2]	Bridge Rail Repair/Replacement					*			
NLAA CC[2]	Bridge Substructure New, Replacement, or Repair - Ephemeral				*		*		
NLAA CC[3]	Bridge Substructure New, Replacement, or Repair - Intermittent						*		
MA	Bridge Substructure New, Replacement, or Repair - Perennial								!
NLAA CC[2]	Bridge Superstructure New & Replacement - Ephemeral				*				
NLAA CC[2]	Bridge Superstructure New & Replacement - Intermittent				*				
NLAA CC[2]	Bridge Superstructure New & Replacement - Perennial				*				
MA	Channel Grade Stabilization Structures								!
MA	Channelization, Ephemeral								!
MA	Channelization, Intermittent								!
MA	Channelization, Perennial								!
NLAA CC[3] or MA	Clearing and Grubbing - Non-woody Vegetation								!
NLAA CC[3] or MA	Clearing and Grubbing - Trees & Shrubs								!
NLAA CC[3]	Cofferdams						*		
NE	Concrete Pavement Repair	Ø							
NE	Crack Sealing and Joint Sealing	Ø							
MA	Culvert New,Replacement, Extension, Repair - Ephemeral								!
MA	Culvert New, Replacement, Extension, Repair - Intermittent								!
MA	Culvert New, Replacement, Extension, Repair - Perennial								!
NE	Curb & Flume		Ø						
NE	Curb & Gutter		Ø						
NLAA CC[1]	Detention Basin							*	
MA	De-watering								!
MA	Drilled Shafts								!
NE	Earth Shoulder Construction		Ø						
NE	Erosion Control - Barriers		Ø						
NE	Erosion Control - Erosion Checks		Ø						
NE	Erosion Control - Inlet/Outlet Protection		Ø						
NE	Erosion Control - Mulching		Ø						
NE	Erosion Control - Rolled Erosion Control		Ø						
NE	Erosion Control - Slope Interruption		Ø						
NE	Erosion Control - Traps and Basins		Ø						
NLAACC[4]	Erosion Control - Vegetation								
NE	Fencing		Ø						
NE	Grading Within the Hinge Point		Ø						
NLAA CC[3] or MA	Grading Outside the Hinge Point								!
NE	Guardrail Repair with Soil Disturbance		Ø						
MA	Guardrail Repair without Soil Disturbance		Ø						!
MA	Habitat Fragmentation, Modification of Connectivity								!
NLAA CC[4]	Landscaping								!
NE	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance		Ø						
NE	Lighting, Traffic & Pedestrian Signals, DMS w/out Soil Disturbance		Ø						
NE	Microsurfacing	Ø							
NE	Milling and/or In-place Recycling	Ø							
NE	Nighttime work with Lights			Ø					
NE	Noise Walls (Not in water/wetlands)		Ø						
NE	Overpass		Ø						
NE	Pavement Removal	Ø							
NE	Paving	Ø							
NLAA CC[3] or MA	Piers								
MA	Pile Driving - Impact								!
MA	Pile Driving - Vibratory								!
NLAA CC[3]	Pile/Pier Encasement								!
NLAA CC[3]	Pipe Jacking & Casing								
MA	Pre-watering								!
NLAA CC[3] or MA	Removal of Structures and Obstructions								!
MA	Replacing a Bridge with a Culvert								!
NE	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Ø							
NE	Retaining Walls (NOT IN Water/Wetlands)		Ø						
NE	Rock or Gravel Surfacing	Ø							
MA	Shoo-fly								!
NE	Sidewalks and Bikeways		Ø						
NE	Signs with Soil Disturbance		Ø						
NE	Signs without Soil Disturbance		Ø						
MA	Stream Channel Impact, Ephemeral		Ø						!
MA	Stream Channel Impact, Intermittent								!
MA	Stream Channel Impact, Perennial								!
MA	Temporary Crossing, Causeway, Work-Platform								!
NE	Trenched Widening		Ø						
NE	Underground Utility Conduit		Ø						
MA	Wetland Mitigation								!

PALLID STURGEON

Scaphirhynchus albus
Federal Status: Endangered
Nebraska Status: Endangered

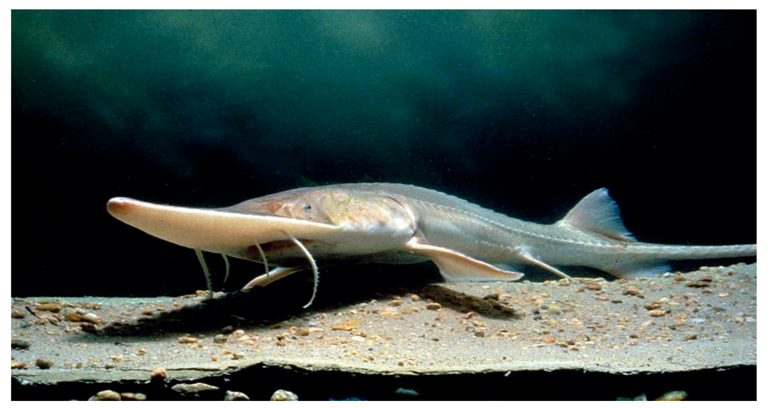

Photo by Ken Bouc, Nebraska Game and Parks Commission

ACTIVITIES

EFFECTS and JUSTIFICATION

EFFECTS and JUSTIFICATION	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair - Ephemeral	Bridge Substructure New, Replacement, or Repair - Intermittent	Bridge Substructure New, Replacement, or Repair - Perennial	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance	Lighting, Traffic & Pedestrian Signals, DMS w/out Soil Disturbance	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	NE	MA	NLAA CC[1]	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	NE	MA	MA	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	MA	NE	MA	MA	NLAA CC[7]	NLAA CC[7]	NLAA CC[1]	NE	NE	NE	MA	MA	NE	NE	NLAA CC[2]	NLAA CC[5]	NLAA CC[3,5]	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NLAA CC[7] or MA	NE	NE	MA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NLAA CC[1,7]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1,5]	NLAA CC[1]	MA	NLAA CC[6,7]	MA	NE	NE	NE	NLAA CC[6]	NE	NE	NE	NE	MA	MA	NLAA CC [1,5,6]	NE	NE	MA
The scope of work for these activities is limited to the road surface/bridge deck. Since the Pallid Sturgeon does not occur in these locations, there will be ***no effect*** on the species.	Ø																				Ø	Ø																												Ø	Ø				Ø	Ø											Ø											
These activities occur in paved areas, urbanized locations, uplands, ephmeral streams, and generally in locations that do not support suitable habitat for the Pallid Sturgeon which occurs in large silty rivers with a diversity of depths and velocities, and primarily in the Missouri and lower Platte Rivers in Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.								Ø							Ø								Ø			Ø	Ø				Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		Ø	Ø		Ø	Ø	Ø				Ø	Ø											Ø	Ø			Ø	Ø	Ø	Ø				Ø	Ø	
Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.																																																			Ø																										
Construction noise could disturb reproductive and foraging activities for the Pallid Sturgeon due to both vibratory and acoustical impacts. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).			*																	*																																				*	*	*	*	*														*			
Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Pallid Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).																											|*|																																																			
Disposal of drill cuttings within the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).																														*																																																
These bridge activities could result in materials falling from the bridge deck and directly taking or indirectly altering or contaminating its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).				*	*	*	*				*	*	*																																																																		
Discharge of water or spoil into the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. These types of activities could also degrade suitable habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5).																													*	*																													*																*			
Flow modifications or disturbances within the river channel could affect the amount and connectivity of suitable habitat for the Pallid Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 6).																																																														*					*							*			
These activities could result in downstream erosion and sedimentation, and reduction in water quality in suitable habitat for the Pallid Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect the species*** (see Conservation Condition 7).																		*	*																							*														*						*															
These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing sedimentation, and require consultation.		!							!	!				!		!	!							!	!																	!			!																!		!									!	!				!

PIPING PLOVER

Charadrius melodus

Federal Status: Threatened
Nebraska Status: Threatened

Photo by Bob Gress

ACTIVITIES

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since these activities do not occur within suitable habitat for the Piping Plover, there will be ***no effect*** on the species.	These activities occur in paved areas, urbanized locations, and generally in locations that do not support suitable habitat for the Piping Plover which utilize dry, exposed sandbars or beach areas, mostly along the Platte and Missouri Rivers. Since these activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.	Based on the location of this activity being within the confines of the roadway, known tolerance of the species to human activity/presence, and the short duration of the construction (approximately moves 1-mile per day, there will be ***no effect*** on the species	These construction activities could occur during nesting season create noise or human disturbance that could impact the species through directly harming the animal, disturbing breeding or foraging behaviors, disturbing occupied or suitable habitat, or indirectly modifying habitat. All permanent lighting will be directed away from suitable habitat. With the implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Conditions 1, 2).	River transport and placement of barge(s) within the river channel during nesting season creates noise or human disturbance that could impact the species through directly harming the animal, disturbing breeding or foraging behaviors, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 3).	These activities involve reestablishment of vegetation in areas disturbed by construction. Establishment of non-native species, or species that are too tall, could alter habitat suitability for the Piping Plover which prefers open areas with wide visibility. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 4).	Nighttime work with lights during the nesting season could impact the species through directly harming the animal, disturbing breeding behavior, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 5).	These activities ***may affect*** the species, and require consultation.
Asphalt Patching	NE	Ø							
Bank Stabilization	MA								!
Barge Staging	NLAA CC[3]					*			
Bridge Deck Repair	NLAA CC[1, 2]				*				
Bridge Deck Replacement	NLAA CC[1, 2, 3]				*	*			
Bridge Painting	NLAA CC[1, 2]				*				
Bridge Rail Repair/Replacement	NLAA CC[1, 2]				*				
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC[1, 2]				*				
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA CC[1, 2]				*				
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA CC[1, 2]				*				
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC[1, 2]				*				
Bridge Superstructure New & Replacement - Intermittent	NLAA CC[1, 2]				*				
Bridge Superstructure New & Replacement - Perennial	NLAA CC[1, 2]				*				
Channel Grade Stabilization Structures	NLAA CC[1, 2]				*				
Channelization, Ephemeral	NLAA CC[1, 2]				*				
Channelization, Intermittent	NLAA CC[1, 2]				*				
Channelization, Perennial	NLAA CC[1, 2]				*				
Clearing and Grubbing - Non-woody Vegetation	NLAA CC[1, 2]				*				
Clearing and Grubbing - Trees & Shrubs	NLAA CC[1, 2]				*				
Cofferdams	NLAA CC[1, 2]				*				
Concrete Pavement Repair	NLAA CC[1, 2]				*				
Crack Sealing and Joint Sealing	NE			Ø					
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC[1, 2]				*				
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA CC[1, 2]				*				
Culvert New, Replacement, Extension, Repair - Perennial	NLAA CC[1, 2]				*				
Curb & Flume	NE		Ø						
Curb & Gutter	NE	Ø							
Detention Basin	NLAA CC[1, 2]				*				
De-watering	NLAA CC[1, 2]				*				
Drilled Shafts	NLAA CC[1, 2]				*				
Earth Shoulder Construction	NE	Ø							
Erosion Control - Barriers	NLAA CC[1, 2]				*				
Erosion Control - Erosion Checks	NLAA CC[1, 2]				*				
Erosion Control - Inlet/Outlet Protection	NLAA CC[1, 2]				*				
Erosion Control - Mulching	NLAA CC[1, 2, 4]				*		*		
Erosion Control - Rolled Erosion Control	NLAA CC[1, 2]				*				
Erosion Control - Slope Interruption	NLAA CC[1, 2]				*				
Erosion Control - Traps and Basins	NLAA CC[1, 2]				*				
Erosion Control - Vegetation	NLAA CC[1, 2, 4]				*		*		
Fencing	NLAA CC[1, 2]				*				
Grading Within the Hinge Point	NE		Ø						
Grading Outside the Hinge Point	NLAA CC[1, 2]				*				
Guardrail Repair with Soil Disturbance	NLAA CC[1, 2]				*				
Guardrail Repair without Soil Disturbance	NLAA CC[1, 2]				*				
Habitat Fragmentation, Modification of Connectivity	MA								!
Landscaping	NLAA CC[1, 2, 4]				*		*		
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NLAA CC[1, 2]				*				
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	NLAA CC[1, 2]				*				
Microsurfacing	NE	Ø							
Milling and/or In-place Recycling	NE		Ø						
Nighttime work with Lights	NLAA CC[5]							*	
Noise Walls (Not in water/wetlands)	NLAA CC[1, 2]				*				
Overpass	NLAA CC[1, 2]				*				
Pavement Removal	NLAA CC[1, 2]				*				
Paving	NE	Ø							
Piers	NLAA CC[1, 2]				*				
Pile Driving - Impact	NLAA CC[1, 2]				*				
Pile Driving - Vibratory	NLAA CC[1, 2]				*				
Pile/Pier Encasement	NLAA CC[1, 2]				*				
Pipe Jacking & Casing	NLAA CC[1, 2]				*				
Pre-watering	NLAA CC[1, 2]				*				
Removal of Structures and Obstructions	NLAA CC[1, 2]				*				
Replacing a Bridge with a Culvert	NLAA CC[1, 2]				*				
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø							
Retaining Walls (NOT IN Water/Wetlands)	NLAA CC[1, 2]				*				
Rock or Gravel Surfacing	NE	Ø							
Shoo-fly	NLAA CC[1, 2]				*				
Sidewalks and Bikeways	NE		Ø						
Signs with Soil Disturbance	NLAA CC[1, 2]				*				
Signs without Soil Disturbance	NE		Ø						
Stream Channel Impact, Ephemeral	NLAA CC[1, 2]				*				
Stream Channel Impact, Intermittent	NLAA CC[1, 2]				*				
Stream Channel Impact, Perennial	NLAA CC[1, 2]				*				
Temporary Crossing, Causeway, Work-Platform	NLAA CC[1, 2]				*				
Trenched Widening	NE		Ø						
Underground Utility Conduit	NLAA CC[1, 2]				*				
Wetland Mitigation	MA								!

RED KNOT

Calidris canutus rufa
Federal Status: Threatened
Nebraska Status: Threatened

Photo by USFWS

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since the Red Knot does not permanently occupy these locations and there are no elements of suitable habitat in these locations, there will be ***no effect*** on the species.	There is a slight possibility that these project activities may encounter migrating Red Knot during construction; however because of the ephemeral nature of this species, potential impacts are considered insignificant or dicountable and there is **not likely** to be an **adverse affect** on the species. ***NOTE** Because of the ephemeral nature of the occurrences of the species in the state of Nebraska, there are **no applicable conservation conditions at this time**.	These activities **may affect** the species due to habitat fragmentation and requires consultation.
Asphalt Patching	NE	Ø		
Bank Stabilization	NLAA		*	
Barge Staging	NLAA		*	
Bridge Deck Repair	NLAA		*	
Bridge Deck Replacement	NLAA		*	
Bridge Painting	NLAA		*	
Bridge Rail Repair/Replacement	NE	Ø		
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA		*	
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA		*	
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA		*	
Bridge Superstructure New & Replacement - Ephemeral	NLAA		*	
Bridge Superstructure New & Replacement - Intermittent	NLAA		*	
Bridge Superstructure New & Replacement - Perennial	NLAA		*	
Channel Grade Stabilization Structures	NLAA		*	
Channelization, Ephemeral	NLAA		*	
Channelization, Intermittent	NLAA		*	
Channelization, Perennial	NLAA		*	
Clearing and Grubbing-Non-woody Vegetation	NLAA		*	
Clearing and Grubbing-Trees & Shrubs	NLAA		*	
Cofferdams	NLAA		*	
Concrete Pavement Repair	NLAA		*	
Crack Sealing and Joint Sealing	NLAA		*	
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA		*	
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA		*	
Culvert New, Replacement, Extension, Repair - Perennial	NLAA		*	
Curb & Flume	NLAA		*	
Curb & Gutter	NLAA		*	
Detention Basin	NLAA		*	
De-watering	NLAA		*	
Drilled Shafts	NLAA		*	
Earth Shoulder Construction	NLAA		*	
Erosion Control - Barriers	NLAA		*	
Erosion Control - Erosion Checks	NLAA		*	
Erosion Control - Inlet/Outlet Protection	NLAA		*	
Erosion Control - Mulching	NLAA		*	
Erosion Control - Rolled Erosion Control	NLAA		*	
Erosion Control - Slope Interruption	NLAA		*	
Erosion Control - Traps and Basins	NLAA		*	
Erosion Control - Vegetation	NLAA		*	
Fencing	NLAA		*	
Grading Within the Hinge Point	NLAA		*	
Grading Outside the Hinge Point	NLAA		*	
Guardrail Repair with Soil Disturbance	NLAA		*	
Guardrail Repair without Soil Disturbance	NLAA		*	
Habitat Fragmentation, Modification of Connectivity	MA			!
Landscaping	NLAA		*	
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NLAA		*	
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	NLAA		*	
Microsurfacing	NE	Ø		
Milling and/or In-place Recycling	NE	Ø		
Nighttime work with Lights	NLAA		*	
Noise Walls (Not in water/wetlands)	NLAA		*	
Overpass	NLAA		*	
Pavement Removal	NLAA		*	
Paving	NE	Ø		
Piers	NLAA		*	
Pile Driving - Impact	NLAA		*	
Pile Driving - Vibratory	NLAA		*	
Pile/Pier Encasement	NLAA		*	
Pipe Jacking & Casing	NLAA		*	
Pre-watering	NLAA		*	
Removal of Structures and Obstructions	NLAA		*	
Replacing a Bridge with a Culvert	NLAA		*	
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø		
Retaining Walls (NOT IN Water/Wetlands)	NLAA		*	
Rock or Gravel Surfacing	NE	Ø		
Shoo-fly	NLAA		*	
Sidewalks and Bikeways	NLAA		*	
Signs with Soil Disturbance	NLAA		*	
Signs without Soil Disturbance	NLAA		*	
Stream Channel Impact, Ephemeral	NLAA		*	
Stream Channel Impact, Intermittent	NLAA		*	
Stream Channel Impact, Perennial	NLAA		*	
Temporary Crossing, Causeway, Work-Platform	NLAA		*	
Trenched Widening	NLAA		*	
Underground Utility Conduit	NLAA		*	
Wetland Mitigation	NLAA		*	

SALT CREEK TIGER BEETLE

Cicindela nevadica lincolniana
Federal Status: Endangered
Nebraska Status: Endangered

Photo by Robert Becker

EFFECTS and JUSTIFICATION

	Effect Determination	ACTIVITIES	The scope of work for these activities is limited to the road surface/bridge deck. Since this species does not permanently occupy these locations and there are no elements of suitable habitat in these locations, there will be ***no effect*** on the species.	These activities do not cause soil or vegetation disturbances. Since these activity types do not affect the species' habitat (which includes wet, un-vegetated mudflats or salt flats, and internal drainages and associated tributaries of Salt Creek and Little Salt Creek in Nebraska) or the species and does not change the existing habitat conditions, there will be ***no effect*** on the species.	These bridge activities could result in materials falling from the bridge deck and debris removal which would impact the Salt Creek Tiger Beetle through directly harming the animal, impacting the animal by disturbing breeding or foraging behaviors, or indirectly modifying habitat. With implementation of the conservation condition, the activity ***may affect, but is not likely to adversely affect*** the species. (see Conservation Condition 1)	These activities ***may affect*** the species due to habitat modifications, direct takings, nighttime lighting impacts, and/or habitat fragmentation and require consultation.
	NE	Asphalt Patching	Ø			
	MA	Bank Stabilization				!
	NE	Barge Staging		Ø		
	NLAA CC[1]	Bridge Deck Repair			*	
	MA	Bridge Deck Replacement				!
	NLAA CC[1]	Bridge Painting			*	
	NLAA CC[1]	Bridge Rail Repair/Replacement			*	
	MA	Bridge Substructure New, Replacement, or Repair - Ephemeral				!
	MA	Bridge Substructure New, Replacement, or Repair - Intermittent				!
	MA	Bridge Substructure New, Replacement, or Repair - Perennial				!
	MA	Bridge Superstructure New & Replacement - Ephemeral				!
	MA	Bridge Superstructure New & Replacement - Intermittent				!
	MA	Bridge Superstructure New & Replacement - Perennial				!
	MA	Channel Grade Stabilization Structures				!
	MA	Channelization, Ephemeral				!
	MA	Channelization, Intermittent				!
	MA	Channelization, Perennial				!
	MA	Clearing and Grubbing - Non-woody Vegetation				!
	MA	Clearing and Grubbing - Trees & Shrubs				!
	MA	Cofferdams				!
	NE	Concrete Pavement Repair	Ø			
	NE	Crack Sealing and Joint Sealing	Ø			
	MA	Culvert New, Replacement, Extension, Repair - Ephemeral				!
	MA	Culvert New, Replacement, Extension, Repair - Intermittent				!
	MA	Culvert New, Replacement, Extension, Repair - Perennial				!
	MA	Curb & Flume				!
	MA	Curb & Gutter				!
	MA	Detention Basin				!
	MA	De-watering				!
	MA	Drilled Shafts				!
	MA	Earth Shoulder Construction				!
	MA	Erosion Control - Barriers				!
	MA	Erosion Control - Erosion Checks				!
	MA	Erosion Control - Inlet/Outlet Protection				!
	MA	Erosion Control - Mulching				!
	MA	Erosion Control - Rolled Erosion Control				!
	MA	Erosion Control - Slope Interruption				!
	MA	Erosion Control - Traps and Basins				!
	MA	Erosion Control - Vegetation				!
	MA	Fencing				!
	MA	Grading Within the Hinge Point				!
	MA	Grading Outside the Hinge Point				!
	MA	Guardrail Repair with Soil Disturbance				!
	NE	Guardrail Repair without Soil Disturbance		Ø		
	MA	Habitat Fragmentation, Modification of Connectivity				!
	MA	Landscaping				!
	MA	Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance				!
	MA	Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance				!
	NE	Microsurfacing	Ø			
	NE	Milling and/or In-place Recycling	Ø			
	MA	Nighttime work with Lights				!
	MA	Noise Walls (Not in water/wetlands)				!
	MA	Overpass				!
	NE	Pavement Removal	Ø			
	NE	Paving	Ø			
	MA	Piers				!
	MA	Pile Driving - Impact				!
	MA	Pile Driving - Vibratory				!
	MA	Pile/Pier Encasement				!
	MA	Pipe Jacking & Casing				!
	MA	Pre-watering				!
	MA	Removal of Structures and Obstructions				!
	MA	Replacing a Bridge with a Culvert				!
	NE	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Ø			
	MA	Retaining Walls (NOT IN Water/Wetlands)				!
	NE	Rock or Gravel Surfacing	Ø			
	MA	Shoo-fly				!
	MA	Sidewalks and Bikeways				!
	MA	Signs with Soil Disturbance				!
	NE	Signs without Soil Disturbance		Ø		
	MA	Stream Channel Impact, Ephemeral				!
	MA	Stream Channel Impact, Intermittent				!
	MA	Stream Channel Impact, Perennial				!
	MA	Temporary Crossing, Causeway, Work-Platform				!
	MA	Trenched Widening				!
	MA	Underground Utility Conduit				!
	MA	Wetland Mitigation				!

SALT CREEK TIGER BEETLE (Critical Habitat)

Cicindela nevadica lincolniana
Federal Status Endangered
Nebraska Status: Endangered

Photo by Robert Becker

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since these locations do not contain primary constituent elements of critical habitat, these activities will have ***no effect*** to designated critical habitat.	These activities do not cause soil or vegetation disturbances. Since these activity types do not affect primary constituent elements of critical habitat, there will be ***no effect*** to designated critical habitat.	These bridge activities could result in materials falling from the bridge deck and debris removal which would impact Salt Creek Tiger Beetle critical habitat through directly or indirectly modifying habitat. With implementation of the conservation condition, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1)	These activities ***may affect*** the species due to habitat modifications, nighttime lighting impacts, and/or habitat fragmentation and require consultation.
Asphalt Patching	NE	Ø			
Bank Stabilization	MA				!
Barge Staging	NE		Ø		
Bridge Deck Repair	NLAA CC[1]			*	
Bridge Deck Replacement	MA				!
Bridge Painting	NLAA CC[1]			*	
Bridge Rail Repair/Replacement	NLAA CC[1]			*	
Bridge Substructure New, Replacement, or Repair - Ephemeral	MA				!
Bridge Substructure New, Replacement, or Repair - Intermittent	MA				!
Bridge Substructure New, Replacement, or Repair - Perennial	MA				!
Bridge Superstructure New & Replacement - Ephemeral	MA				!
Bridge Superstructure New & Replacement - Intermittent	MA				!
Bridge Superstructure New & Replacement - Perennial	MA				!
Channel Grade Stabilization Structures	MA				!
Channelization, Ephemeral	MA				!
Channelization, Intermittent	MA				!
Channelization, Perennial	MA				!
Clearing and Grubbing - Non-woody Vegetation	MA				!
Clearing and Grubbing - Trees & Shrubs	MA				!
Cofferdams	MA				!
Concrete Pavement Repair	NE	Ø			
Crack Sealing and Joint Sealing	NE	Ø			
Culvert New, Replacement, Extension, Repair - Ephemeral	MA				!
Culvert New, Replacement, Extension, Repair - Intermittent	MA				!
Culvert New, Replacement, Extension, Repair - Perennial	MA				!
Curb & Flume	MA				!
Curb & Gutter	MA				!
Detention Basin	MA				!
De-watering	MA				!
Drilled Shafts	MA				!
Earth Shoulder Construction	MA				!
Erosion Control - Barriers	MA				!
Erosion Control - Erosion Checks	MA				!
Erosion Control - Inlet/Outlet Protection	MA				!
Erosion Control - Mulching	MA				!
Erosion Control - Rolled Erosion Control	MA				!
Erosion Control - Slope Interruption	MA				!
Erosion Control - Traps and Basins	MA				!
Erosion Control - Vegetation	MA				!
Fencing	MA				!
Grading Within the Hinge Point	MA				!
Grading Outside the Hinge Point	MA				!
Guardrail Repair with Soil Disturbance	MA				!
Guardrail Repair without Soil Disturbance	NE		Ø		
Habitat Fragmentation, Modification of Connectivity	MA				!
Landscaping	MA				!
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	MA				!
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	MA				!
Microsurfacing	NE	Ø			
Milling and/or In-place Recycling	NE	Ø			
Nighttime work with Lights	MA				!
Noise Walls (Not in water/wetlands)	MA				!
Overpass	MA				!
Pavement Removal	NE	Ø			
Paving	NE	Ø			
Piers	MA				!
Pile Driving - Impact	MA				!
Pile Driving - Vibratory	MA				!
Pile/Pier Encasement	MA				!
Pipe Jacking & Casing	MA				!
Pre-watering	MA				!
Removal of Structures and Obstructions	MA				!
Replacing a Bridge with a Culvert	MA				!
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø			
Retaining Walls (NOT IN Water/Wetlands)	MA				!
Rock or Gravel Surfacing	NE	Ø			
Shoo-fly	MA				!
Sidewalks and Bikeways	MA				!
Signs with Soil Disturbance	MA				!
Signs without Soil Disturbance	NE		Ø		
Stream Channel Impact, Ephemeral	MA				!
Stream Channel Impact, Intermittent	MA				!
Stream Channel Impact, Perennial	MA				!
Temporary Crossing, Causeway, Work-Platform	MA				!
Trenched Widening	MA				!
Underground Utility Conduit	MA				!
Wetland Mitigation	MA				!

SALTWORT

Salicornia rubra
Federal Status: Not Listed
Nebraska Status: Endangered

Photo by Chris Helzer, The Nature Conservancy

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck which does not support plant growth. Since these activities do not occur within suitable habitat for the Saltwort, there will be ***no effect*** on the species.	These activities occur in paved areas, open water, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat for the Saltwort which occurs on salt flats of saline meadows in wet, clayey, highly saline soils. Since the activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.	Night-time work with lights does not directly utilize or alter suitable habitat for the Saltwort, and it does not directly or indirectly impact the species. Therefore, there will be ***no effect*** on the species.	These bridge activities could impact suitable habitat for the Saltwort, with the possible effects of crushing the plants or contaminating the soils. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).	These activities occur in salt flats, saline wetlands, or saline soils. Since the project area could support suitable habitat for the Saltwort, the activities ***may affect*** the species, and require consultation.
Asphalt Patching	NE	Ø				
Bank Stabilization	MA					!
Barge Staging	NE		Ø			
Bridge Deck Repair	NLAA CC[1]				*	
Bridge Deck Replacement	NLAA CC[1]				*	
Bridge Painting	NLAA CC[1]				*	
Bridge Rail Repair/Replacement	NLAA CC[1]				*	
Bridge Substructure New, Replacement, or Repair - Ephemeral	MA					!
Bridge Substructure New, Replacement, or Repair - Intermittent	MA					!
Bridge Substructure New, Replacement, or Repair - Perennial	MA					!
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC[1]				*	
Bridge Superstructure New & Replacement - Intermittent	NLAA CC[1]				*	
Bridge Superstructure New & Replacement - Perennial	NLAA CC[1]				*	
Channel Grade Stabilization Structures	MA					!
Channelization, Ephemeral	MA					!
Channelization, Intermittent	MA					!
Channelization, Perennial	MA					!
Clearing and Grubbing - Non-woody Vegetation	MA					!
Clearing and Grubbing - Trees & Shrubs	MA					!
Cofferdams	MA					!
Concrete Pavement Repair	NE	Ø				
Crack Sealing and Joint Sealing	NE	Ø				
Culvert New, Replacement, Extension, Repair - Ephemeral	MA					!
Culvert New, Replacement, Extension, Repair - Intermittent	MA					!
Culvert New, Replacement, Extension, Repair - Perennial	MA					!
Curb & Flume	MA					!
Curb & Gutter	MA					!
Detention Basin	MA					!
De-watering	MA					!
Drilled Shafts	MA					!
Earth Shoulder Construction	MA					!
Erosion Control - Barriers	MA					!
Erosion Control - Erosion Checks	MA					!
Erosion Control - Inlet/Outlet Protection	MA					!
Erosion Control - Mulching	MA					!
Erosion Control - Rolled Erosion Control	MA					!
Erosion Control - Slope Interruption	MA					!
Erosion Control - Traps and Basins	MA					!
Erosion Control - Vegetation	MA					!
Fencing	MA					!
Grading Within the Hinge Point	MA					!
Grading Outside the Hinge Point	MA					!
Guardrail Repair with Soil Disturbance	MA					!
Guardrail Repair without Soil Disturbance	NE	Ø				
Habitat Fragmentation, Modification of Connectivity	MA		Ø			
Landscaping	MA					!
Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance	MA					!
Lighting, Traffic & Pedestrian Signals, DMS w/o Soil Disturbance	NE	Ø				
Microsurfacing	NE	Ø				
Milling and/or In-place Recycling	NE	Ø				
Nighttime work with Lights	NE			Ø		
Noise Walls (Not in water/wetlands)	MA					!
Overpass	MA					!
Pavement Removal	NE	Ø				
Paving	NE	Ø				
Piers	MA					!
Pile Driving - Impact	MA					!
Pile Driving - Vibratory	MA					!
Pile/Pier Encasement	MA					!
Pipe Jacking & Casing	MA					!
Pre-watering	MA					!
Removal of Structures and Obstructions	MA					!
Replacing a Bridge with a Culvert	MA					!
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø				
Retaining Walls (NOT IN Water/Wetlands)	MA					!
Rock or Gravel Surfacing	NE	Ø				
Shoo-fly	MA					!
Sidewalks and Bikeways	MA					!
Signs with Soil Disturbance	MA					!
Signs without Soil Disturbance	NE		Ø			
Stream Channel Impact, Ephemeral	MA					!
Stream Channel Impact, Intermittent	MA					!
Stream Channel Impact, Perennial	MA					!
Temporary Crossing, Causeway, Work-Platform	MA					!
Trenched Widening	MA					!
Underground Utility Conduit	MA					!
Wetland Mitigation	MA					!

SCALESHELL MUSSEL

Leptodea leptodon
Federal Status: Endangered
Nebraska Status: Endangered

Photo by Dr. M.C. Barnhart

ACTIVITIES

EFFECTS and JUSTIFICATION

The scope of work for these activities is limited to the road surface/bridge deck. Since Scaleshell Mussel does not occur in these locations, there will be ***no effect*** on the species.

These activities occur in uplands and ephemeral streams, and generally in locations that do not support suitable habitat for the Scaleshell Mussel which occurs in medium to large unpolluted rivers with mud, sand or gravel substrate, and in the upper reach of the Missouri River in Nebraska . Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.

These construction activities could physically disturb the Scaleshell Mussel by causing erosion and sedimentation, and suffocation; therefore these activities may affect the species. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).

These construction activities could result in erosion and sedimentation, and suffocation of the Scaleshell Mussel, therefore these activities may affect the species. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 2).

Barges and other equipment used in water can carry invasive aquatic species, including the Zebra Mussel which can starve and suffocate the Scaleshell Mussel by attaching to its shell in large numbers. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 3).

These bridge activities could result in materials falling from the bridge deck and directly taking the species or indirectly altering or contaminating habitat. Therefore, this activity may affect the species. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 4).

Discharge of water or spoil into the river channel could result in erosion and sedimentation, and suffocation of the Scaleshell Mussel. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 5).

Activities	Effect Determination	The scope of work … road surface/bridge deck	These activities occur in uplands …	… (see Conservation Condition 1)	… (see Conservation Condition 2)	… (see Conservation Condition 3)	… (see Conservation Condition 4)	… (see Conservation Condition 5)
Asphalt Patching	NE	Ø						
Bank Stabilization	MA							
Barge Staging	NLAA CC 1, 3			*		*		
Bridge Deck Repair	NLAA CC 4						*	
Bridge Deck Replacement	NLAA CC 4						*	
Bridge Painting	NLAA CC 4						*	
Bridge Rail Repair/Replacement	NLAA CC 4						*	
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC 2, 4				*		*	
Bridge Substructure New, Replacement, or Repair - Itermittent	MA							
Bridge Substructure New, Replacement, or Repair - Perennial	MA							
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC 2, 4				*		*	
Bridge Superstructure New & Replacement - Intermittent	NLAA CC 2, 4				*		*	
Bridge Superstructure New & Replacement - Perennial	MA							
Channel Grade Stabilization Structures	MA							
Channelization, Ephemeral	NLAA CC 2				*			
Channelization, Intermittent	MA							
Channelization, Perennial	MA							
Clearing and Grubbing - Non-woody Vegetation	NE		Ø					
Clearing and Grubbing - Trees & Shrubs	NE		Ø					
Cofferdams	NLAA CC 1, 3, 5			*		*		*
Concrete Pavement Repair	NE	Ø						
Crack Sealing and Joint Sealing	NE	Ø						
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC 2				*			
Culvert New, Replacement, Extension, Repair - Intermittent	MA							
Culvert New, Replacement, Extension, Repair - Perennial	MA							
Curb & Flume	NE		Ø					
Curb & Gutter	NE	Ø						
Detention Basin	NLAA CC 2				*			
De-watering	NLAA CC 1, 5			*				*
Drilled Shafts	NLAA CC 1, 5			*				*
Earth Shoulder Construction	NE		Ø					
Erosion Control - Barriers	NE		Ø					
Erosion Control - Erosion Checks	NE		Ø					
Erosion Control - Inlet/Outlet Protection	NE		Ø					
Erosion Control - Mulching	NE		Ø					
Erosion Control - Rolled Erosion Control	NE		Ø					
Erosion Control - Slope Interruption	NE		Ø					
Erosion Control - Traps and Basins	NE		Ø					
Erosion Control - Vegetation	NE		Ø					
Fencing	NE		Ø					
Grading Within the Hinge Point	NE		Ø					
Grading Outside the Hinge Point	NLAA CC 1			*				
Guardrail Repair with Soil Disturbance	NE		Ø					
Guardrail Repair without Soil Disturbance	NE		Ø					
Habitat Fragmentation, Modification of Connectivity	MA							
Landscaping	NE		Ø					
Lighting, Traffic and Pedestrian Signals, Dynamic Message Signs w/ soil	NE		Ø					
Lighting, Traffic and Pedestrian Signals, Dynamic Message Signs w/out	NE		Ø					
Microsurfacing	NE	Ø						
Milling and/or In-place Recycling	NE	Ø						
Nighttime work with Lights	NE		Ø					
Noise Walls (Not in water/wetlands)	NE		Ø					
Overpass	NE		Ø					
Pavement Removal	NE	Ø						
Paving	NE	Ø						
Piers	NLAA CC 1,2,3,5			*	*	*		*
Pile Driving - Impact	NLAA CC 1,3			*		*		
Pile Driving - Vibratory	NLAA CC 1,3			*		*		
Pile/Pier Encasement	NLAA CC 1,2,3,5			*	*	*		*
Pipe Jacking & Casing	NE		Ø					
Pre-watering	MA							
Removal of Structures and Obstructions	NLAA CC 1,2,3			*	*	*		
Replacing a Bridge with a Culvert	MA							
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø						
Retaining Walls (NOT IN Water/Wetlands)	NE		Ø					
Rock or Gravel Surfacing	NE	Ø						
Shoo-fly	MA							
Sidewalks and Bikeways	NE		Ø					
Signs with Soil Disturbance	NE		Ø					
Signs without Soil Disturbance	NE		Ø					
Stream Channel Impact, Ephemeral	NLAA CC 2				*			
Stream Channel Impact, Intermittent	MA							
Stream Channel Impact, Perennial	MA							
Temporary Crossing, Causeway, Work-Platform	NLAA CC 1, 2, 3, 5			*	*	*		*
Trenched Widening	NE		Ø					
Underground Utility Conduit	NE		Ø					
Wetland Mitigation	NLAA CC 1			*				

These activities ***may affect*** critical habitat due to habitat modifications, flow modifications, direct takings, and/or by increasing turbidity or sedimentation, and require consultation.			!							!	!			!	!		!	!							!	!																				!																!		!				!					!	!				

SMALL WHITE LADY'S SLIPPER

Cypripedium candidum

Federal Status: Not Listed

Nebraska Status: Threatened

Photo by Eugene Reimer

EFFECTS and JUSTIFICATION

ACTIVITIES	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair - Ephemeral	Bridge Substructure New, Replacement, or Repair - Intermittent	Bridge Substructure New, Replacement, or Repair - Perennial	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance	Lighting, Traffic & Pedestrian Signals, DMS w/o Soil Disturbance	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	NE	NLAA CC [1]	NE	NLAA CC [2] or [1]	NLAA CC [2] or [1]	NLAA CC [2] or [1]	NLAA CC [2] or [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [2] or [1]	NLAA CC [2] or [1]	NLAA CC [2] or [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NE	NE	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NE	NLAA CC [1]	NLAA CC [1]	NE	NLAA CC [1]	NE	NE	NE	NLAA CC [1]	NE	NE	NE	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NE	MA	NLAA CC [1]	NLAA CC [1]	NE	NE	NE	NE	NLAA CC [1]	NLAA CC [1]	NE	NE	NLAA CC [1]	NLAA CC [1or2]	NLAA CC [1or2]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NE	NLAA CC [1]	NE	NLAA CC [1]	NE	NLAA CC [1]	NE	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]	NLAA CC [1]
The scope of work for these activities is limited to the road surface/bridge deck which does not support plant growth. Since these activities do not occur within suitable habitat for the Small White Lady’s Slipper, there will be ***no effect*** on the species.	Ø																				Ø	Ø																											Ø	Ø				Ø	Ø									Ø		Ø											
These activities occur in open water, paved areas, urbanized locations, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat for the Small White Lady’s Slipper which occurs in moist prairies and sedge meadows. Since the activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.			Ø																								Ø			Ø		Ø	Ø	Ø		Ø	Ø	Ø						Ø				Ø																				Ø		Ø							
Night-time work with lights does not directly utilize or alter suitable habitat for the Small White Lady’s Slipper, and it does not directly or indirectly impact the species. Therefore, there will be ***no effect*** on the species.																																																			Ø																										
These activities could disturb suitable habitat for the Small White Lady’s Slipper. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect the species*** (see Conservation Condition 1).		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*	*	*	*			*		*				*				*	*	*	*	*			*	*					*	*			*	*	*	*	*	*	*	*		*		*		*		*	*	*	*	*	*	*
These activities could indirectly affect the hydrology of the area and thereby affect the Small White Lady's Slipper. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).																												*																																																	
These bridge activities could impact suitable habitat for Small White Lady’s Slipper, with the possible effects of crushing plants or contaminating soils. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).				*	*	*	*				*	*	*																																												*	*																			
Habitat fragmentation activities could reduce the amount, size, or other aspect of habitat suitability for the Small White Lady’s Slipper. Reduction in habitat suitability ***may affect*** the species, and requires consultation.																																													!																																

SOUTHERN FLYING SQUIRREL

Glaucomys volans

Federal Status: Not Listed
Nebraska Status: Threatened

Photo by Michael Patrikeev

EFFECTS and JUSTIFICATION

	Effect Determination	ACTIVITIES
	NE	Asphalt Patching
	NE	Bank Stabilization
	NE	Barge Staging
	NE	Bridge Deck Repair
	NLAA CC [1]	Bridge Deck Replacement
	NE	Bridge Painting
	NE	Bridge Rail Repair/Replacement
	NLAA CC [1]	Bridge Substructure New, Replacement, or Repair - Ephemeral
	NLAA CC [1]	Bridge Substructure New, Replacement, or Repair - Intermittent
	NLAA CC [1]	Bridge Substructure New, Replacement, or Repair - Perennial
	NLAA CC [1]	Bridge Superstructure New & Replacement - Ephemeral
	NLAA CC [1]	Bridge Superstructure New & Replacement - Intermittent
	NLAA CC [1]	Bridge Superstructure New & Replacement - Perennial
	NE	Channel Grade Stabilization Structures
	NE	Channelization, Ephemeral
	NE	Channelization, Intermittent
	NE	Channelization, Perennial
	NE	Clearing and Grubbing - Non-woody Vegetation
	MA	Clearing and Grubbing - Trees & Shrubs
	NE	Cofferdams
	NLAA CC [1]	Concrete Pavement Repair
	NE	Crack Sealing and Joint Sealing
	NLAA CC [1]	Culvert New, Replacement, Extension, Repair - Ephemeral
	NLAA CC [1]	Culvert New, Replacement, Extension, Repair - Intermittent
	NLAA CC [1]	Culvert New, Replacement, Extension, Repair - Perennial
	NE	Curb & Flume
	NE	Curb & Gutter
	NE	Detention Basin
	NE	De-watering
	NLAA CC [1]	Drilled Shafts
	NLAA CC [1]	Earth Shoulder Construction
	NE	Erosion Control - Barriers
	NE	Erosion Control - Erosion Checks
	NE	Erosion Control - Inlet/Outlet Protection
	NE	Erosion Control - Mulching
	NE	Erosion Control - Rolled Erosion Control
	NE	Erosion Control - Slope Interruption
	NE	Erosion Control - Traps and Basins
	NE	Erosion Control - Vegetation
	NLAA CC [1]	Fencing
	NE	Grading Within the Hinge Point
	MA	Grading Outside the Hinge Point
	NE	Guardrail Repair with Soil Disturbance
	NE	Guardrail Repair without Soil Disturbance
	MA	Habitat Fragmentation, Modification of Connectivity
	NLAA CC [2]	Landscaping
	NLAA CC [1,3]	Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance
	NLAA CC [1,3]	Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance
	NE	Microsurfacing
	NE	Milling and/or In-place Recycling
	NLAA CC [3]	Nighttime work with Lights
	NLAA CC [1]	Noise Walls (Not in water/wetlands)
	MA	Overpass
	NLAA CC [1]	Pavement Removal
	NLAA CC [1]	Paving
	NLAA CC [1]	Piers
	NLAA CC [1]	Pile Driving - Impact
	NLAA CC [1]	Pile Driving - Vibratory
	NE	Pile/Pier Encasement
	NLAA CC [1]	Pipe Jacking & Casing
	NE	Pre-watering
	NE	Removal of Structures and Obstructions
	NLAA CC [1]	Replacing a Bridge with a Culvert
	NE	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal
	NE	Retaining Walls (NOT IN Water/Wetlands)
	NE	Rock or Gravel Surfacing
	NLAA CC [1]	Shoo-fly
	NLAA CC [1]	Sidewalks and Bikeways
	NE	Signs with Soil Disturbance
	NE	Signs without Soil Disturbance
	NE	Stream Channel Impact, Ephemeral
	NE	Stream Channel Impact, Intermittent
	NE	Stream Channel Impact, Perennial
	NE	Temporary Crossing, Causeway, Work-Platform
	NE	Trenched Widening
	NE	Underground Utility Conduit
	NE	Wetland Mitigation
The scope of work for these activities is limited to the road surface/bridge deck. Since the Southern Flying Squirrel does not permanently occupy these areas and they are not critical to the species life history, there will be ***no effect*** on the species.	Ø	Ø	Ø																Ø																				Ø	Ø											Ø		Ø								
The Southern Flying Squirrel is found in hardwood forests along the Missouri River in Nebraska. These activities occur in streams and bottomlands, paved areas, urbanized locations, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat. Since the species does not occur in the location of the activity, there will be ***no effect*** on the species.		Ø	Ø		Ø	Ø						Ø	Ø	Ø	Ø	Ø		Ø						Ø	Ø	Ø	Ø			Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		Ø		Ø	Ø										Ø		Ø	Ø			Ø			Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø
Construction activities could create noise or human disturbances for the Southern Flying Squirrel, which may cause them to abandon their denning cavities. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).					*			*	*	*	*	*	*							*		*	*	*					*	*								*													*				*			*			*	*	*	*	*	*		*			*			*	*								
These activities involve reestablishment of vegetation in areas disturbed by construction, which could alter the habitat structure and species composition. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 2).																																																																																													
Roadway lighting or night-time work with lights could create disrupt night-time activities for the Southern Flying Squirrel. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 3).																																																																																													
These activities ***may affect*** the species due to habitat modifications, direct takings, and/or habitat fragmentation and require consultation.																																																																																													

STURGEON CHUB

Macrhybopsis gelida
Federal Status: Not Listed
Nebraska Status: Endangered

Photo by David Ostendorf

EFFECTS and JUSTIFICATION

ACTIVITIES	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair - Ephemeral	Bridge Substructure New, Replacement, or Repair - Intermittent	Bridge Substructure New, Replacement, or Repair - Perennial	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance	Lighting, Traffic & Pedestrian Signals, DMS w/out Soil Disturbance	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	NE	MA	NLAA CC[1]	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	NE	MA	MA	NLAA CC[4]	NLAA CC[4]	NLAA CC[4]	MA	NE	MA	MA	NLAA CC[7]	NLAA CC[7]	NLAA CC[1]	NE	NE	NE	MA	MA	NE	NE	NLAA CC[2]	NLAA CC[5]	NLAA CC[3, 5]	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NLAA CC[7] or MA	NE	NE	MA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NLAA CC[1,7]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1,5]	NLAA CC[1]	MA	NLAA CC[6, 7]	MA	NE	NE	NE	NLAA CC[6]	NE	NE	NE	NE	MA	MA	NLAA CC[1,5,6]	NE	NE	MA
The scope of work for these activities is limited to the road surface/bridge deck. Since the Sturgeon Chub does not occur in these locations, there will be ***no effect*** on the species.	ø																				ø	ø																											ø	ø				ø	ø											ø											
These activities occur in paved areas, urbanized locations, uplands, ephmeral streams, and generally in locations that do not support suitable habitat for the Sturgeon Chub which occurs in large silty rivers with a diversity of depths and velocities, and primarily in the Missouri and lower Platte Rivers in Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.								ø							ø								ø			ø	ø				ø	ø	ø	ø	ø	ø	ø	ø	ø	ø	ø		ø	ø		ø	ø	ø				ø	ø											ø	ø			ø	ø	ø	ø				ø	ø	
Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.																																																			ø																										
Construction noise could disturb reproductive and foraging activities for the Sturgeon Chub due to both vibratory and acoustical impacts. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).			*																	*																																				*	*	*	*	*														*			
Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Sturgeon Chub. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).																												*																																																	
Disposal of drill cuttings within the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).																														*																																														
These bridge activities could result in materials falling from the bridge deck and directly taking or indirectly altering or contaminating its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 4).				*	*	*	*				*	*	*																																																																
Discharge of water or spoil into the river channel could result in erosion, sedimentation, and turbidity, which could directly take species through suffocation of larval sturgeon. These types of activities could also degrade suitable habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 5).																													*	*																													*															*			
Flow modifications or disturbances within the river channel could affect the amount and connectivity of suitable habitat for the Pallid Sturgeon. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 6).																																																														*					*							*			
These activities could result in downstream erosion and sedimentation, and reduction in water quality in suitable habitat for the Sturgeon Chub. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect the species*** (see Conservation Condition 7).																		*	*																							*														*						*															
These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing sedimentation, and require consultation.		!							!	!				!		!	!							!	!																	!			!																!		!									!	!				!

SWIFT FOX

Vulpes velox

Federal Status: Not Listed
Nebraska Status: Endangered

Photo by Greg Lasley

ACTIVITIES

EFFECTS and JUSTIFICATION

1. The scope of work for these activities is limited to the road surface/bridge deck. Since the Swift fox does not permanently occupy these areas and they are not critical to the species life history, there will be ***no effect*** on the species.
2. Swift Fox inhabit shortgrass prairies and build their dens or occupy existing dens in loose soils on open prairies, along fences, or in tilled fields. These activities occur in open water, paved areas, areas previously disturbed by recent project activities (which were assessed through the matrix process), and in locations that do not support suitable habitat. Since the species does not occur in the location of the activity, there will be ***no effect*** on the species.
3. Construction activities could impact the species through directly harming the animal, impacting the animal by disturbing breeding or foraging behaviors, disturbance of occupied or suitable unoccupied dens, or indirectly modifying habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).
4. Construction construction/installation of fencing has the potential to impact swift fox movements thereby disturbing breeding or foraging behaviors, or disturbing occupied dens. With the requirement to install animal passage friendly fencing per conservation conditoins, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 2 and 3).
5. These activities ***may affect*** the species due to habitat modifications, direct takings, habitat fragmentation, and/or impacts to movement and to visual vantage points and require consultation.

ACTIVITIES	Effect Determination	1	2	3	4	5
Asphalt Patching	NE	Ø				
Bank Stabilization	NLAA CC [1]			*		
Barge Staging	NE		Ø			
Bridge Deck Repair	NE	Ø				
Bridge Deck Replacement	NE	Ø				
Bridge Painting	NE	Ø				
Bridge Rail Repair/Replacement	NE	Ø				
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC [1]			*		
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA CC [1]			*		
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA CC [1]			*		
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC [1]			*		
Bridge Superstructure New & Replacement - Intermittent	NLAA CC [1]			*		
Bridge Superstructure New & Replacement - Perennial	NLAA CC [1]			*		
Channel Grade Stabilization Structures	NLAA CC [1]			*		
Channelization, Ephemeral	NLAA CC [1]			*		
Channelization, Intermittent	NLAA CC [1]			*		
Channelization, Perennial	NLAA CC [1]			*		
Clearing and Grubbing - Non-woody Vegetation	NLAA CC [1]			*		
Clearing and Grubbing - Trees & Shrubs	NLAA CC [1]			*		
Cofferdams	NE		Ø			
Concrete Pavement Repair	NE	Ø				
Crack Sealing and Joint Sealing	NE	Ø				
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC [1]			*		
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA CC [1]			*		
Culvert New, Replacement, Extension, Repair - Perennial	NLAA CC [1]			*		
Curb & Flume	NLAA CC [1]			*		
Curb & Gutter	NE		Ø			
Detention Basin	NLAA CC [1]			*		
De-watering	NE		Ø	*		
Drilled Shafts	NLAA CC [1]			*		
Earth Shoulder Construction	NLAA CC [1]			*		
Erosion Control - Barriers	NE		Ø			
Erosion Control - Erosion Checks	NE		Ø			
Erosion Control - Inlet/Outlet Protection	NE		Ø			
Erosion Control - Mulching	NE		Ø			
Erosion Control - Rolled Erosion Control	NE		Ø			
Erosion Control - Slope Interruption	NE		Ø			
Erosion Control - Traps and Basins	NE		Ø			
Erosion Control - Vegetation	NE		Ø			
Fencing	NLAA CC [2, 3]				*	
Grading Within the Hinge Point	NLAA CC [1]			*		
Grading Outside the Hinge Point	NLAA CC [1]			*		
Guardrail Repair with Soil Disturbance	NLAA CC [1]			*		
Guardrail Repair without Soil Disturbance	NE		Ø			
Habitat Fragmentation, Modification of Connectivity	MA					!
Landscaping	NLAA CC [1]			*		
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NLAA CC [1]			*		
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	NE		Ø			
Microsurfacing	NE	Ø				
Milling and/or In-place Recycling	NE	Ø				
Nighttime work with Lights	NLAA CC [1]			*		
Noise Walls (Not in water/wetlands)	NLAA CC [1]			*		
Overpass	NLAA CC [1]			*		
Pavement Removal	NE	Ø				
Paving	NE	Ø				
Piers	NLAA CC [1]			*		
Pile Driving - Impact	NLAA CC [1]			*		
Pile Driving - Vibratory	NLAA CC [1]			*		
Pile/Pier Encasement	NLAA CC [1]			*		
Pipe Jacking & Casing	NLAA CC [1]			*		
Pre-watering	NLAA CC [1]			*		
Removal of Structures and Obstructions	NLAA CC [1]			*		
Replacing a Bridge with a Culvert	NLAA CC [1]			*		
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø				
Retaining Walls (NOT IN Water/Wetlands)	NLAA CC [1]			*		
Rock or Gravel Surfacing	NE	Ø				
Shoo-fly	NLAA CC [1]			*		
Sidewalks and Bikeways	NE	Ø				
Signs with Soil Disturbance	NLAA CC 1			*		
Signs without Soil Disturbance	NE		Ø			
Stream Channel Impact, Ephemeral	NLAA CC [1]			*		
Stream Channel Impact, Intermittent	NLAA CC [1]			*		
Stream Channel Impact, Perennial	NLAA CC [1]			*		
Temporary Crossing, Causeway, Work-Platform	NLAA CC [1]			*		
Trenched Widening	NE		Ø			
Underground Utility Conduit	NLAA CC [1]			*		
Wetland Mitigation	NLAA CC [1]			*		

Thick-Billed Longspur

Rhynchophanes mccownii

Federal Status: Not listed
Nebraska Status: Threatened

Photo by
Shawn Billerman

EFFECTS and JUSTIFICATION / ACTIVITIES	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair - Ephemeral	Bridge Substructure New, Replacement, or Repair - Intermittent	Bridge Substructure New, Replacement, or Repair - Perennial	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Post-Construction Erosion Control	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	NE	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[3]	MA	NLAA CC[1]	NE	MA	NLAA CC[1]	NLAA CC[1,2]	NLAA CC[1,2]	NE	NLAA CC[3]	NLAA CC[2]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[3]	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]
The scope of work for these activities is limited to the road surface/bridge deck and not known to increase noise above the current traffic conditions. Since the thick-billed longspur does not permanently occupy these locations and there are no elements of suitable habitat in these locations, there will be ***no effect*** on the species.	Ø																																																	Ø																	Ø											
These activities occur in paved areas, urbanized locations, open water, and generally in locations that do not support suitable habitat for the thick-billed longspur which inhabits arid shortgrass prairie, agricultural fields, areas of bare ground and prairie dog towns in the Kimball Grasslands and Panhandle Prairies of Nebraska. Since these activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.			Ø																								Ø																		Ø																										Ø							
These construction activities during nesting season create noise or human disturbance that could impact the species through directly harming the animal, disturbing breeding or foraging behaviors, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*			*			*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*		*	*	*		*	*	*	*	*	*	*
Temporary or permanent lighting during the nesting season could impact the species through directly harming the animal, disturbing breeding behavior, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 2).																																																*	*			*																										
Construction activities could create noise or disturbances for the species during construction/installation and impact the animal by disturbing breeding or foraging behaviors, or disturbing occupied habitat. Based on the short duration of activities and implementation of the conservation conditions , this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).																																										*									*														*													
These activities ***may affect*** the species due to habitat modifications, direct takings, and/or habitat fragmentation and require consultation.																																											!			!																																

TIMBER RATTLESNAKE

Crotalus horridus
Federal Status: Not Listed
Nebraska Status: Threatened

Photo by Jon Ferrar, NEBRASKAland

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since the timber rattlesnake does not permanently occupy these areas and they are not critical to the species life history, there will be ***no effect*** on the species if the species range conservation condition is followed (avoidance of snakes, Condition R14).	These activities do not cause soil or vegetation disturbances. Since these activity types do not affect the species or its habitat (upland grasslands and deciduous and riparain woodlands with rock outcrops), there will be ***no effect*** on the species if the species range conservation condition is followed (Condition R15).	Construction activities could impact the species through human disturbance, directly harming the animal, disturbing occupied or suitable habitat, or indirectly modifying habitat. For these activities vibratory impacts are possible, however, those are considered negliable due to short duration and magnitude. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).	Construction activities could impact the species because of the long duration and magnitudge of vibratory impacts. Vibratory impacts have the potential to impact foraging, resting, and sunning activities. With implementation of the conservation conditions, these activities may affect, but are not likely to adversely affect the species (see Conservation Condition 1).	Silt fencing could create a physical obstruction impeding movement of the timber rattlesnake. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 2).	Net types of erosion control devices could entangle the timber rattlesnake and result in direct take. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 3).	These activities could result in disturbance from human presence or in materials falling from the bridge deck and debris removal which would impact the timber rattlesnake through directly harming the animal, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, the activity ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 4).
Asphalt Patching	NE	Ø						
Bank Stabilization	NLAA CC[1]							
Barge Staging	NE		Ø					
Bridge Deck Repair	NLAA CC[4 or 1]			*	*			
Bridge Deck Replacement	NLAA CC[4 or 1]			*	*			
Bridge Painting	NLAA CC[4 or 1]			*	*			
Bridge Rail Repair/Replacement	NLAA CC[4 or 1]			*	*			
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC[1]							
Bridge Substructure New, Replacement, or Repair - Itermittent	NLAA CC[1]							
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA CC[1]							
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC[4 or 1]			*	*			
Bridge Superstructure New & Replacement - Intermittent	NLAA CC[4 or 1]			*	*			
Bridge Superstructure New & Replacement - Perennial	NLAA CC[4 or 1]			*	*			
Channel Grade Stabilization Structures	NLAA CC[1]			*	*			
Channelization, Ephemeral	NLAA CC[1]			*	*			
Channelization, Intermittent	NLAA CC[1]			*	*			
Channelization, Perennial	NLAA CC[1]			*	*			
Clearing and Grubbing - Non-Woody Vegetation	NLAA CC[1]			*	*			
Clearing and Grubbing - Trees & Shrubs	NLAA CC[1]			*	*			
Cofferdams	NLAA CC[1]			*	*			
Concrete Pavement Repair	NE	Ø						
Crack Sealing and Joint Sealing	NE	Ø						
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC[1]			*	*			
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA CC[1]			*	*			
Culvert New, Replacement, Extension, Repair - Perennial	NLAA CC[1]			*	*			
Curb & Flume	NLAA CC[1]			*	*			
Curb & Gutter	NE	Ø						
Detention Basin	NLAA CC[1]			*	*			
De-watering	NLAA CC[1]			*	*			
Drilled Shafts	NLAA CC[1]			*	*			
Earth Shoulder Construction	NLAA CC[1]			*	*			
Erosion Control - Barriers	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Erosion Checks	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Inlet/Outlet Protection	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Mulching	NLAA CC[1]			*	*			
Erosion Control - Rolled Erosion Control	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Slope Interruption	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Traps and Basins	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Vegetation	NLAA CC[1,2,3]			*	*	*	*	*
Fencing	NLAA CC[1]			*	*			
Grading Within the Hinge Point	NLAA CC[1]			*	*			
Grading Outside the Hinge Point	NLAA CC[1]			*	*			
Guardrail Repair with Soil Disturbance	NLAA CC[1]			*	*			
Guardrail Repair without Soil Disturbance	NE							
Habitat Fragmentation, Modification of Connectivity	MA		Ø					
Landscaping	NLAA CC[1]			*	*			
Lighting, Traffic and Pedestrian Signals, Dynamic Message Signs w/ soil	NLAA CC[1]			*	*			
Lighting, Traffic and Pedestrian Signals, Dynamic Message Signs w/out	NE		Ø					
Microsurfacing	NE	Ø						
Milling and/or In-place Recycling	NLAA CC[1]							
Nightime work with Lights	NE		Ø					
Noise Walls (Not in water/wetlands)	NLAA CC[1]			*	*			
Overpass	NLAA CC[1]			*	*			
Pavement Removal	NE	Ø						
Paving	NE	Ø						
Piers	NLAA CC[1]			*	*			
Pile Driving - Impact	NLAA CC[1]			*	*			
Pile Driving - Vibratory	NLAA CC[1]			*	*			
Pile/Pier Encasement	NLAA CC[1]			*	*			
Pipe Jacking & Casing	NLAA CC[1]			*	*			
Pre-watering	NLAA CC[1]			*	*			
Removal of Structures and Obstructions	NLAA CC[1]			*	*			
Replacing a Bridge with a Culvert	MA							
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø						
Retaining Walls (NOT IN Water/Wetlands)	NLAA CC[1]			*	*			
Rock or Gravel Surfacing	NE		Ø					
Shoo-fly	NLAA CC[1]			*	*			
Sidewalks and Bikeways	NLAA CC[1]			*	*			
Signs with Soil Disturbance	NLAA CC[1]			*	*			
Signs without Soil Disturbance	NE		Ø					
Stream Channel Impact, Ephemeral	NLAA CC[1]			*	*			
Stream Channel Impact, Intermittent	NLAA CC[1]			*	*			
Stream Channel Impact, Perennial	NLAA CC[1]			*	*			
Temporary Crossing, Causeway, Work-Platform	NLAA CC[1]			*	*			
Trenched Widening	NLAA CC[1]			*	*			
Underground Utility Conduit	NLAA CC[1]			*	*			
Wetland Mitigation	NLAA CC[1]			*	*			

These activities ***may affect*** the species due to habitat modifications, direct takings, and/or habitat fragmentation and require consultation.																																													!																		!														

TOPEKA SHINER

Notropis topeka
Federal Status: Endangered
Nebraska Status: Endangered

Photo from Kansas DW & P

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since the Topeka Shiner does not occur in these locations, there will be ***no effect*** on the species.	These activities occur in paved areas, urbanized locations, uplands, large rivers, and generally in locations that do not support suitable habitat for the Topeka Shiner which occurs in small quiet clear prairie creeks or spring-fed pools in larger streams, in Cherry County wetlands and North Loup landscapes in Nebraska. Since the species does not occur in the location of the activities, there will be ***no effect*** on the species.	Night-time work with lights does not directly or indirectly impact this fish species. Therefore, there will be ***no effect*** on the species.	Construction of detention basins could result in erosion and sedimentation, and reduction in water quality for the Topeka Shiner. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 1).	These bridge activities could result in materials falling from the bridge deck and impacting the Topeka Shiner or its habitat. Therefore, this activity may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).	Topeka Shiner utilizes shrubby overhangs along creek banks. Construction activities may destroy or remove this type of vegetation, which may affect species habitat. Landscaping and revegetation involves reestablishment of upland vegetation in areas disturbed by construction, and the type of plants used may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affec*** t the species (see Conservation Condition 3).	These activities ***may affect*** the species due to habitat modifications, flow modifications, direct takings, and/or by increasing turbidity or sedimentation, and require consultation.
Asphalt Patching	NE	Ø						
Bank Stabilization	MA		Ø					
Barge Staging	NE							
Bridge Deck Repair	NLAA CC[2]							
Bridge Deck Replacement	MA							
Bridge Painting	NLAA CC[2]							
Bridge Rail Repair/Replacement	NLAA CC[2]							
Bridge Substructure New, Replacement, or Repair - Ephemeral	MA							
Bridge Substructure New, Replacement, or Repair - Intermittent	MA							
Bridge Substructure New, Replacement, or Repair - Perennial	MA							
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC[2]							
Bridge Superstructure New & Replacement - Intermittent	NLAA CC[2]							
Bridge Superstructure New & Replacement - Perennial	NLAA CC[2]							
Channel Grade Stabilization Structures	MA							
Channelization, Ephemeral	MA							
Channelization, Intermittent	MA							
Channelization, Perennial	MA							
Clearing and Grubbing - Non-woody Vegetation	MA							
Clearing and Grubbing - Trees & Shrubs	MA							
Cofferdams	MA							
Concrete Pavement Repair	NE							
Crack Sealing and Joint Sealing	NE							
Culvert New, Replacement, Extension, Repair - Ephemeral	MA							
Culvert New, Replacement, Extension, Repair - Intermittent	MA							
Culvert New, Replacement, Extension, Repair - Perennial	MA							
Curb & Flume	NE							
Curb & Gutter	NE							
Detention Basin	NLAA CC[1]							
De-watering	MA							
Drilled Shafts	MA							
Earth Shoulder Construction	NE							
Erosion Control - Barriers	NE							
Erosion Control - Erosion Checks	NE							
Erosion Control - Inlet/Outlet Protection	NE							
Erosion Control - Mulching	NE							
Erosion Control - Rolled Erosion Control	NE							
Erosion Control - Slope Interruption	NE							
Erosion Control - Traps and Basins	NE							
Erosion Control - Vegetation	NLAA CC[3]							
Fencing	NE							
Grading Within the Hinge Point	NE							
Grading Outside the Hinge Point	MA							
Guardrail Repair with Soil Disturbance	NE							
Guardrail Repair without Soil Disturbance	MA							
Habitat Fragmentation, Modification of Connectivity	NE							
Landscaping	NE							
Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance	NE							
Lighting, Traffic & Pedestrian Signals, DMS w/out Soil Disturbance	MA							
Microsurfacing	NE							
Milling and/or In-place Recycling	NE							
Nighttime work with Lights	NE							
Noise Walls (Not in water/wetlands)	NE							
Overpass	NE							
Pavement Removal	NE							
Paving	NE							
Piers	MA							
Pile Driving - Impact	MA							
Pile Driving - Vibratory	MA							
Pile/Pier Encasement	MA							
Pipe Jacking & Casing	MA							
Pre-watering	MA							
Removal of Structures and Obstructions	MA							
Replacing a Bridge with a Culvert	NE							
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE							
Retaining Walls (NOT IN Water/Wetlands)	NE							
Rock or Gravel Surfacing	MA							
Shoo-fly	NE							
Sidewalks and Bikeways	NE							
Signs with Soil Disturbance	NE							
Signs without Soil Disturbance	MA							
Stream Channel Impact, Ephemeral	MA							
Stream Channel Impact, Intermittent	MA							
Stream Channel Impact, Perennial	MA							
Temporary Crossing, Causeway, Work-Platform	NE							
Trenched Widening	NE							
Underground Utility Conduit	NE							
Wetland Mitigation	MA							

TOPEKA SHINER (Critical Habitat)

Notropis topeka

Federal Status: Endangered

Nebraska Status: Endangered

Photo by Garold Sneegas

EFFECTS and JUSTIFICATION

ACTIVITIES	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair - Ephemeral	Bridge Substructure New, Replacement, or Repair - Intermittent	Bridge Substructure New, Replacement, or Repair - Perennial	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance	Lighting, Traffic & Pedestrian Signals, DMS w/out Soil Disturbance	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	NE	MA	NE	NLAA CC[2]	MA	NLAA CC[2]	NLAA CC[2]	MA	MA	MA	NLAA CC[2]	NLAA CC[2]	NLAA CC[2]	MA	MA	MA	MA	MA	MA	MA	NE	NE	MA	MA	MA	NE	NE	NLAA CC[1]	MA	MA	NE	NE	NE	NE	NE	NE	NE	NE	NLAA CC[3]	NE	NE	MA	NE	NE	MA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	MA	MA	MA	MA	MA	MA	MA	MA	NE	NE	NE	MA	NE	NE	NE	MA	MA	MA	MA	NE	NE	MA
The scope of work for these activities is limited to the road surface/bridge deck. Since the Topeka Shiner critical habitat does not occur in these locations, there will be ***no effect*** on the critical habitat	Ø																				Ø	Ø																											Ø	Ø				Ø	Ø									Ø		Ø											
These activities occur in paved areas, urbanized locations, uplands, large rivers, and generally in locations that do not support suitable habitat for the Topeka Shiner, which occurs in small quiet clear prairie creeks or spring-fed pools in larger streams, in Cherry County wetlands and North Loup landscapes in Nebraska. Since these areas are considered unsuitable habitat within the overall boundaries of critical habitat, actions within these areas will have ***no effect*** on the critical habitat.			Ø																							Ø	Ø				Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		Ø	Ø		Ø	Ø		Ø	Ø	Ø				Ø	Ø												Ø			Ø	Ø	Ø					Ø	Ø	
Night-time work with lights does not directly or indirectly impact this species critical habitat. Therefore, there will be ***no effect*** on the critical habitat.																																																			Ø																										
Construction of detention basins could result in erosion and sedimentation, and reduction in water quality within critical habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the critical habitat (see Conservation Condition 1).																												*																																																	
These bridge activities could result in materials falling from the bridge deck and impacting or modifying critical habitat. Therefore, this activity may affect the critical habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversey affect*** the critical habitat (see Conservation Condition 2).				*		*	*				*	*	*																																																																
Topeka Shiner utilizes shrubby overhangs along creek banks. Construction activities may destroy or remove this type of vegetation, which may affect species habitat. Landscaping and revegetation involves reestablishment of upland vegetation in areas disturbed by construction, and the type of plants used may affect the species. With implementation of conservation conditions, potential impacts will be minimized; therefore, this activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).																																							*																																						
These activities may affect critical habitat due to habitat modifications, flow modifications, direct takings, and/or by increasing turbidity or sedimentation, and require consultation.		!			!			!	!	!				!	!	!	!	!	!	!			!	!	!				!	!												!			!											!	!	!	!	!	!	!	!				!				!	!	!	!			!

UTE LADIES'-TRESSES

Spiranthes diluvialis
Federal Status: Threatened
Nebraska Status: Threatened

Photo by Teresa Prendusi

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck which does not support plant growth. Since these activities do not occur within suitable habitat for the Ute Ladies'-Tresses, there will be ***no effect*** on the species.	These activities occur in open water, paved areas, urbanized locations, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat for the Ute Ladies'-Tresses which occurs in sub-irrigated, somewhat alkaline, wet meadows. Since the activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.	Night-time work with lights does not directly utilize or alter suitable habitat for the Ute Ladies'-Tresses, and it does not directly or indirectly impact the species. Therefore, there will be ***no effect*** on the species.	These activities could disturb suitable habitat for the Ute Ladies'-Tresses. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).	These activities could indirectly affect the hydrology of the area and thereby affect the Ute Ladies'-Tresses. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).	If these activities are restricted to the area between the hinge-points of the roadway, the activity will not occur in locations with suitable habitat for the Ute Ladies'-Tresses, because the area within the hinge-point is non-natural ground with frequent disturbance. Work within the hinge-point may proceed. If these activities occur outside the hinge-point, the activity could disturb suitable habitat. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).	These bridge activities could impact suitable habitat for Ute Ladies'-Tresses, with the possible effects of crushing plants or contaminating soils. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 3).	Habitat fragmentation activities could reduce the amount, size, or other aspect of habitat suitability for the Ute Ladies'-Tresses. Reduction in habitat suitability ***may affect*** the species, and requires consultation.
Asphalt Patching	NE	Ø							
Bank Stabilization	NLAA CC[1]				*				
Barge Staging	NE		Ø						
Bridge Deck Repair	NLAA CC[3 or 1]				*			*	
Bridge Deck Replacement	NLAA CC[3 or 1]				*			*	
Bridge Painting	NLAA CC[3 or 1]				*			*	
Bridge Rail Repair/Replacement	NLAA CC[3 or 1]				*			*	
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC[1]				*				
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA CC[1]				*				
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA CC[1]				*				
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC[3 or 1]				*			*	
Bridge Superstructure New & Replacement - Intermittent	NLAA CC[3 or 1]				*			*	
Bridge Superstructure New & Replacement - Perennial	NLAA CC[3 or 1]				*			*	
Channel Grade Stabilization Structures	NLAA CC[1]				*				
Channelization, Ephemeral	NLAA CC[1]				*				
Channelization, Intermittent	NLAA CC[1]				*				
Channelization, Perennial	NLAA CC[1]				*				
Clearing and Grubbing - Non-woody Vegetation	NLAA CC[1]				*				
Clearing and Grubbing - Trees & Shrubs	NLAA CC[1]				*				
Cofferdams	NLAA CC[1]				*				
Concrete Pavement Repair	NE	Ø							
Crack Sealing and Joint Sealing	NE	Ø							
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC[1]				*				
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA CC[1]				*				
Culvert New, Replacement, Extension, Repair - Perennial	NLAA CC[1]				*				
Curb & Flume	NLAA CC[1]				*				
Curb & Gutter	NE		Ø						
Detention Basin	NLAA CC[1]					*			
De-watering	NLAA CC[1]				*				
Drilled Shafts	NE		Ø						
Earth Shoulder Construction	NLAA CC[2]						*		
Erosion Control - Barriers	NE		Ø						
Erosion Control - Erosion Checks	NE		Ø						
Erosion Control - Inlet/Outlet Protection	NE		Ø						
Erosion Control - Mulching	NLAA CC[1]				*				
Erosion Control - Rolled Erosion Control	NE		Ø						
Erosion Control - Slope Interruption	NE		Ø						
Erosion Control - Traps and Basins	NE		Ø						
Erosion Control - Vegetation	NLAA CC[1]				*				
Fencing	NLAA CC[1]				*				
Grading Above the Hinge Point	NLAA CC[1]				*				
Grading Below the Hinge Point	NLAA CC[1]				*				
Guardrail Repair with Soil Disturbance	NLAA CC[2]						*		
Guardrail Repair without Soil Disturbance	NE		Ø						
Habitat Fragmentation, Modification of Connectivity	MA								!
Landscaping	NLAA CC[1]				*				
Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturbance	NLAA CC[2]						*		
Lighting, Traffic & Pedestrian Signals, DMS w/o Soil Disturbance	NE		Ø						
Microsurfacing	NE	Ø							
Milling and/or In-place Recycling	NE	Ø							
Nighttime work with Lights	NE			Ø					
Noise Walls (Not in water/wetlands)	NLAA CC[1]				*				
Overpass	NLAA CC[1]				*				
Pavement Removal	NE	Ø							
Paving	NE	Ø							
Piers	NLAA CC[1]				*				
Pile Driving - Impact	NLAA CC[1 or 3]				*			*	
Pile Driving - Vibratory	NLAA CC[1 or 3]				*			*	
Pile/Pier Encasement	NLAA CC[1]				*				
Pipe Jacking & Casing	NLAA CC[1]				*				
Pre-watering	NLAA CC[1]				*				
Removal of Structures and Obstructions	NLAA CC[1]				*				
Replacing a Bridge with a Culvert	NLAA CC[1]				*				
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø							
Retaining Walls (NOT IN Water/Wetlands)	NLAA CC[1]				*				
Rock or Gravel Surfacing	NE	Ø							
Shoo-fly	NLAA CC[1]				*				
Sidewalks and Bikeways	NE		Ø						
Signs with Soil Disturbance	NLAA CC[2]						*		
Signs without Soil Disturbance	NE		Ø						
Stream Channel Impact, Ephemeral	NLAA CC[1]				*				
Stream Channel Impact, Intermittent	NLAA CC[1]				*				
Stream Channel Impact, Perennial	NLAA CC[1]				*				
Temporary Crossing, Causeway, Work-Platform	NLAA CC[1]				*				
Trenched Widening	NE		Ø						
Underground Utility Conduit	NLAA CC[1]				*				
Wetland Mitigation	NLAA CC[1]				*				

WESTERN MASSASAUGA

Sistrurus catenatus
Federal Status: Not Listed
Nebraska Status: Threatened

Photo by Jim Scharosch

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	The scope of work for these activities is limited to the road surface/bridge deck. Since the Massasauga does not permanently occupy these areas and they are not critical to the species life history, there will be ***no effect*** on the species if the species range conservation condition is followed (avoidance of snakes, Condition R5).	These activities do not cause soil or vegetation disturbances. Since these activity types do not affect the species or its habitat (upland grasslands and moist areas such as wet meadows, marshland, and floodplains), there will be ***no effect*** on the species if the species range conservation condition is followed (Condition R6).	Construction activities could impact the species through human disturbance, directly harming the animal, disturbing occupied or suitable habitat, or indirectly modifying habitat. For these activities vibratory impacts are possible, however, those however, those are considered negliable due to short duration and magnitude. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).	Construction activities could impact the species because of the long duration and magnitudge of vibratory impacts. Vibratory impacts have the potential to impact foraging, resting, and sunning activities. With implementation of the conservation conditions, these activities **may affect, but are not likely to adversely affect** the species (see Conservation Condition 1).	Silt fencing could create a physical obstruction impeding movement of the Massasauga. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 2).	Net types of erosion control devices could entangle the Massasauga and result in direct take. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 3).	These activities could result in disturbance from human presence or in materials falling from the bridge deck and debris removal which would impact the Massasauga through directly harming the animal, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, the activity ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 4).
Asphalt Patching	NE	Ø						
Bank Stabilization	NLAA CC[1]							
Barge Staging	NE		Ø					
Bridge Deck Repair	NLAA CC[4 or 1]			*				
Bridge Deck Replacement	NLAA CC[4 or 1]			*				
Bridge Painting	NLAA CC[4 or 1]			*				
Bridge Rail Repair/Replacement	NLAA CC[4 or 1]			*				
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC[1]							
Bridge Substructure New, Replacement, or Repair - Itermittent	NLAA CC[1]							
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA CC[1]							
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC[4 or 1]			*				
Bridge Superstructure New & Replacement - Intermittent	NLAA CC[4 or 1]			*				
Bridge Superstructure New & Replacement - Perennial	NLAA CC[4 or 1]			*				
Channel Grade Stabilization Structures	NLAA CC[1]			*				
Channelization, Ephemeral	NLAA CC[1]			*				
Channelization, Intermittent	NLAA CC[1]			*				
Channelization, Perennial	NLAA CC[1]			*				
Clearing and Grubbing - Non-Woody Vegetation	NLAA CC[1]			*				
Clearing and Grubbing - Trees & Shrubs	NLAA CC[1]			*				
Cofferdams	NLAA CC[1]			*				
Concrete Pavement Repair	NE	Ø						
Crack Sealing and Joint Sealing	NE	Ø						
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC[1]			*	*			
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA CC[1]			*	*			
Culvert New, Replacement, Extension, Repair - Perennial	NLAA CC[1]			*	*			
Curb & Flume	NLAA CC[1]			*	*			
Curb & Gutter	NE	Ø						
Detention Basin	NLAA CC[1]			*	*			
De-watering	NLAA CC[1]			*	*			
Drilled Shafts	NLAA CC[1]			*	*			
Earth Shoulder Construction	NLAA CC[1]			*	*			
Erosion Control - Barriers	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Erosion Checks	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Inlet/Outlet Protection	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Mulching	NLAA CC[1]			*	*			
Erosion Control - Rolled Erosion Control	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Slope Interruption	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Traps and Basins	NLAA CC[2,3]			*	*	*	*	*
Erosion Control - Vegetation	NLAA CC[1,2,3]			*	*	*	*	*
Fencing	NLAA CC[1]			*	*			
Grading Within the Hinge Point	NLAA CC[1]			*	*			
Grading Outside the Hinge Point	NLAA CC[1]			*	*			
Guardrail Repair with Soil Disturbance	NLAA CC[1]			*	*			
Guardrail Repair without Soil Disturbance	NE							
Habitat Fragmentation, Modification of Connectivity	MA		Ø					
Landscaping	NLAA CC[1]			*	*			
Lighting, Traffic and Pedestrian Signals, Dynamic Message Signs w/ soil	NLAA CC[1]			*	*			
Lighting, Traffic and Pedestrian Signals, Dynamic Message Signs w/out	NE		Ø					
Microsurfacing	NE	Ø						
Milling and/or In-place Recycling	NLAA CC[1]			*				
Nighttime work with Lights	NE		Ø					
Noise Walls (Not in water/wetlands)	NLAA CC[1]			*	*			
Overpass	NLAA CC[1]			*	*			
Pavement Removal	NE	Ø						
Paving	NE	Ø						
Piers	NLAA CC[1]			*	*	*	*	*
Pile Driving - Impact	NLAA CC[1]			*	*	*	*	*
Pile Driving - Vibratory	NLAA CC[1]			*	*	*	*	*
Pile/Pier Encasement	NLAA CC[1]			*				
Pipe Jacking & Casing	NLAA CC[1]			*				
Pre-watering	NLAA CC[1]			*				
Removal of Structures and Obstructions	NLAA CC[1]			*				
Replacing a Bridge with a Culvert	MA							
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NE	Ø						
Retaining Walls (NOT IN Water/Wetlands)	NLAA CC[1]			*				
Rock or Gravel Surfacing	NE		Ø					
Shoo-fly	NLAA CC[1]			*	*	*	*	*
Sidewalks and Bikeways	NLAA CC[1]			*	*			
Signs with Soil Disturbance	NLAA CC[1]			*	*			
Signs without Soil Disturbance	NE		Ø					
Stream Channel Impact, Ephemeral	NLAA CC[1]			*	*	*	*	*
Stream Channel Impact, Intermittent	NLAA CC[1]			*	*	*	*	*
Stream Channel Impact, Perennial	NLAA CC[1]			*	*	*	*	*
Temporary Crossing, Causeway, Work-Platform	NLAA CC[1]			*	*	*	*	*
Trenched Widening	NLAA CC[1]			*	*	*	*	*
Underground Utility Conduit	NLAA CC[1]			*	*	*	*	*
Wetland Mitigation	NLAA CC[1]			*	*	*	*	*

These activities ***may affect*** the species due to habitat modifications, direct takings, and/or habitat fragmentation and require consultation.																																														!																		!														

WESTERN PRAIRIE-FRINGED ORCHID

Platanthera praeclara
Federal Status: Threatened
Nebraska Status: Threatened

Photo by J. Challey

EFFECTS and JUSTIFICATION

ACTIVITIES	Asphalt Patching	Bank Stabilization	Barge Staging	Bridge Deck Repair	Bridge Deck Replacement	Bridge Painting	Bridge Rail Repair/Replacement	Bridge Substructure New, Replacement, or Repair - Ephemeral	Bridge Substructure New, Replacement, or Repair - Intermittent	Bridge Substructure New, Replacement, or Repair - Perennial	Bridge Superstructure New & Replacement - Ephemeral	Bridge Superstructure New & Replacement - Intermittent	Bridge Superstructure New & Replacement - Perennial	Channel Grade Stabilization Structures	Channelization, Ephemeral	Channelization, Intermittent	Channelization, Perennial	Clearing and Grubbing - Non-woody Vegetation	Clearing and Grubbing - Trees & Shrubs	Cofferdams	Concrete Pavement Repair	Crack Sealing and Joint Sealing	Culvert New, Replacement, Extension, Repair - Ephemeral	Culvert New, Replacement, Extension, Repair - Intermittent	Culvert New, Replacement, Extension, Repair - Perennial	Curb & Flume	Curb & Gutter	Detention Basin	De-watering	Drilled Shafts	Earth Shoulder Construction	Erosion Control - Barriers	Erosion Control - Erosion Checks	Erosion Control - Inlet/Outlet Protection	Erosion Control - Mulching	Erosion Control - Rolled Erosion Control	Erosion Control - Slope Interruption	Erosion Control - Traps and Basins	Erosion Control - Vegetation	Fencing	Grading Within the Hinge Point	Grading Outside the Hinge Point	Guardrail Repair with Soil Disturbance	Guardrail Repair without Soil Disturbance	Habitat Fragmentation, Modification of Connectivity	Landscaping	Lighting, Traffic & Pedestrian Signals, DMS w/ Soil Disturburbance	Lighting, Traffic & Pedestrian Signals, DMS w/o Soil Disturbance	Microsurfacing	Milling and/or In-place Recycling	Nighttime work with Lights	Noise Walls (Not in water/wetlands)	Overpass	Pavement Removal	Paving	Piers	Pile Driving - Impact	Pile Driving - Vibratory	Pile/Pier Encasement	Pipe Jacking & Casing	Pre-watering	Removal of Structures and Obstructions	Replacing a Bridge with a Culvert	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Retaining Walls (NOT IN Water/Wetlands)	Rock or Gravel Surfacing	Shoo-fly	Sidewalks and Bikeways	Signs with Soil Disturbance	Signs without Soil Disturbance	Stream Channel Impact, Ephemeral	Stream Channel Impact, Intermittent	Stream Channel Impact, Perennial	Temporary Crossing, Causeway, Work-Platform	Trenched Widening	Underground Utility Conduit	Wetland Mitigation
Effect Determination	NE	NLAA CC[1]	NE	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[2 or 1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NE	NE	NE	NLAA CC[1]	NE	NE	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	MA	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NE	NLAA CC[1, 3]	NLAA CC[1]	NLAA CC[1]	NE	NE	NLAA CC[1]	NLAA CC[1 or 2]	NLAA CC[1 or 2]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NE	NLAA CC[1]	NE	NLAA CC[1]	NE	NLAA CC[1]	NE	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]	NLAA CC[1]
The scope of work for these activities is limited to the road surface/bridge deck which does not support plant growth. Since these activities do not occur within suitable habitat for the Western Prairie-Fringed Orchid, there will be ***no effect*** on the species.	Ø																				Ø	Ø																											Ø	Ø				Ø	Ø									Ø		Ø											
These activities occur in open water, paved areas, urbanized locations, areas previously disturbed by other construction activities, and generally in locations that do not support suitable habitat for the Western Prairie-Fringed Orchid which occurs in wet to somewhat drier native prairies. Since the activities do not occur in locations with suitable habitat, there will be ***no effect*** on the species.			Ø																								Ø			Ø		Ø	Ø	Ø		Ø	Ø	Ø						Ø																								Ø		Ø							
Sodium vapor and LED lighting have the potentail to impact the Western Prairie-Fringed Orchid if it draws it's dependent nightime active pollinators away from the plant. With implementation of conservation conditions to direct lighting away from suitable habitat potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1 and/or 3).																																															*	*			*																										
These activities could disturb suitable habitat for the Western Prairie-Fringed Orchid. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*	*	*	*			*		*				*				*	*	*	*	*			*	*					*	*			*	*	*	*	*	*	*	*		*		*		*		*	*	*	*	*	*	*
These activities could indirectly affect the hydrology of the area and thereby affect the Western Prairie Fringed Orchid. With implementation of conservation conditions, potential impacts will be minimized; therefore, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 1).																												*																																																		
These bridge activities could impact suitable habitat for Western Prairie-Fringed Orchid, with the possible effects of crushing plants or contaminating soils. With implementation of conservation conditions, potential impacts will be minimized; therefore, the activity ***may affect, but is not likely to adversely affect*** the species (see Conservation Condition 2).				*	*	*	*				*	*	*																																												*	*																				
Habitat fragmentation activities could reduce the amount, size, or other aspect of habitat suitability for the Western Prairie-Fringed Orchid. Reduction in habitat suitability ***may affect*** the species, and requires consultation.																																													!																																	

WHOOPING CRANE

Grus americana
Federal Status: Endangered
Nebraska Status: Endangered

Photo by Brian E. Small

EFFECTS and JUSTIFICATION

ACTIVITIES	Effect Determination	These project activities are limited to the road surface and either occur in urbanized areas, are of short duration, and/or do not involve a significant on-ground human presence. Therefore, there will be ***no effect*** on the species.	These construction activities may occur during migratory seasons, creating noise or human disturbance that could impact the species through directly harming the animal, disturbing staging, roosting or foraging behaviors, disturbing occupied or suitable habitat, or indirectly modifying habitat. All permanent lighting will be directed away from suitable habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Conditions 1 or 2).	These activities involve reestablishment of vegetation in areas disturbed by construction. The establishment of non-native species, or species that are too tall, could alter habitat suitability for the Whoopong Crane, which prefers open areas with wide visibility. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect the species*** (see Conservation Condition 3).	Nighttime work with lights during the migration season could impact the species through harrassing the animal, disturbing occupied or suitable habitat, or indirectly modifying habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 4).	These activities ***may affect*** the species due to habitat modifications, direct takings, and/or habitat fragmentation and require consultation.
Asphalt Patching	NLAA CC 1 or 2		*			
Bank Stabilization	MA					!
Barge Staging	MA					!
Bridge Deck Repair	NLAA CC 1 or 2		*			
Bridge Deck Replacement	NLAA CC 1 or 2		*			
Bridge Painting	NLAA CC 1 or 2		*			
Bridge Rail Repair/Replacement	NLAA CC 1 or 2		*			
Bridge Substructure New, Replacement, or Repair - Ephemeral	NLAA CC 1 or 2		*			
Bridge Substructure New, Replacement, or Repair - Intermittent	NLAA CC 1 or 2		*			
Bridge Substructure New, Replacement, or Repair - Perennial	NLAA CC 1 or 2 or MA		*			!
Bridge Superstructure New & Replacement - Ephemeral	NLAA CC 1 or 2		*			
Bridge Superstructure New & Replacement - Intermittent	NLAA CC 1 or 2		*			
Bridge Superstructure New & Replacement - Perennial	NLAA CC 1 or 2		*			
Channel Grade Stabilization Structures	NLAA CC 1 or 2		*			
Channelization, Ephemeral	NLAA CC 1 or 2		*			
Channelization, Intermittent	NLAA CC 1 or 2		*			
Channelization, Perennial	NLAA CC 1 or 2		*			
Clearing and Grubbing - Non-woody Vegetation	NLAA CC 1 or 2		*			
Clearing and Grubbing Trees & Shrubs	NLAA CC 1 or 2		*			
Cofferdams	NLAA CC 1 or 2		*			
Concrete Pavement Repair	NLAA CC 1 or 2		*			
Crack Sealing and Joint Sealing	NLAA CC 1 or 2		*			
Culvert New, Replacement, Extension, Repair - Ephemeral	NLAA CC 1 or 2		*			
Culvert New, Replacement, Extension, Repair - Intermittent	NLAA CC 1 or 2		*			
Culvert New, Replacement, Extension, Repair - Perennial	NLAA CC 1 or 2		*			
Curb & Flume	NLAA CC 1 or 2		*			
Curb & Gutter	NE					
Detention Basin	NLAA CC 1 or 2	ø				
De-watering	NLAA CC 1 or 2		*			
Drilled Shafts	NLAA CC 1 or 2		*			
Earth Shoulder Construction	NLAA CC 1 or 2		*			
Erosion Control - Barriers	NLAA CC 1 or 2		*			
Erosion Control - Erosion Checks	NLAA CC 1 or 2		*			
Erosion Control - Inlet/Outlet Protection	NLAA CC 1 or 2		*			
Erosion Control - Mulching	NLAA CC (1 or 2) plus 3		*	*		
Erosion Control - Rolled Erosion Control	NLAA CC 1 or 2		*			
Erosion Control - Slope Interruption	NLAA CC 1 or 2		*			
Erosion Control - Traps and Basins	NLAA CC 1 or 2		*			
Erosion Control - Vegetation	NLAA CC (1 or 2) plus 3		*	*		
Fencing	NLAA CC 1 or 2		*			
Grading Within the Hinge Point	NLAA CC 1 or 2		*			
Grading Outside the Hinge Point	NLAA CC 1 or 2		*			
Guardrail Repair with Soil Disturbance	NLAA CC 1 or 2		*			
Guardrail Repair without Soil Disturbance	NLAA CC 1 or 2		*			
Habitat Fragmentation, Modification of Connectivity	MA			*		!
Landscaping	NLAA CC (1 or 2) plus 3		*			
Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance	NLAA CC 1 or 2		*			
Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance	NLAA CC 1 or 2		*			
Microsurfacing	NLAA CC 1 or 2		*			
Milling and/or In-place Recycling	NLAA CC 1 or 2		*			
Nighttime work with Lights	NLAA CC 4		*		*	
Noise Walls (Not in water/wetlands)	NLAA CC 1 or 2		*			
Overpass	NLAA CC 1 or 2		*			
Pavement Removal	NLAA CC 1 or 2		*			
Paving	NLAA CC 1 or 2		*			
Piers	NLAA CC 1 or 2		*			
Pile Driving - Impact	NLAA CC 1 or 2		*			
Pile Driving - Vibratory	NLAA CC 1 or 2		*			
Pile/Pier Encasement	NLAA CC 1 or 2		*			
Pipe Jacking & Casing	NLAA CC 1 or 2		*			
Pre-watering	NLAA CC 1 or 2		*			
Removal of Structures and Obstructions	NLAA CC 1 or 2		*			
Replacing a Bridge with a Culvert	NLAA CC 1 or 2		*			
Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	NLAA CC 1 or 2		*			
Retaining Walls (NOT IN Water/Wetlands)	NLAA CC 1 or 2		*			
Rock or Gravel Surfacing	NE	ø				
Shoo-fly	NLAA CC 1 or 2		*			
Sidewalks and Bikeways	NLAA CC 1 or 2		*			
Signs with Soil Disturbance	NLAA CC 1 or 2		*			
Signs without Soil Disturbance	NLAA CC 1 or 2		*			
Stream Channel Impact, Ephemeral	NLAA CC 1 or 2		*			
Stream Channel Impact, Intermittent	NLAA CC 1 or 2		*			
Stream Channel Impact, Perennial	NLAA CC 1 or 2		*			
Temporary Crossing, Causeway, Work-Platform	NLAA CC 1 or 2		*			
Trenched Widening	NLAA CC 1 or 2		*			
Underground Utility Conduit	NLAA CC 1 or 2		*			
Wetland Mitigation	MA					!

WHOOPING CRANE (Critical Habitat)

Grus americana
Federal Status: Endangered
Nebraska Status: Endangered

Photo by Brian E. Small

EFFECTS and JUSTIFICATION

Effect Determination	ACTIVITIES	The scope of work for these activities is limited to the road surface/bridge deck, paved areas, and/or urbanized locations and generate temporary, minor levels of noise, which would not impact the functionality or intended conservation role of critical habitat. In addition, these activity areas do not contain primary constituent elements of critical habitat. Therefore, these activities will have ***no effect*** to designated critical habitat.	These construction activities could create noise or human disturbance during construction which may impact the primary constituent elements of critical habitat if the work occurs during the migration season. These activities, conducted outside the migration season, would not impact the functionality or intended conservation role of the critical habitat. With implementation of the conservation conditions, these activities ***may affect, but are not likely to affect*** designated critical habitat (see Conservation Condition 1).	These bridge activities could result in materials falling from the bridge deck and debris removal which would impact Whooping Crane critical habitat through directly or indirectly modifying habitat. With implementation of the conservation conditions, the activity ***may affect, but is not likely to adversely affect*** designated critical habitat (see Conservation Condition 2).	These activities involve reestablishment of vegetation in areas disturbed by construction. The establishment of non-native species, or species that are too tall, could alter habitat suitability for the Whoopong Crane, which prefers open areas with wide visibility. With implementation of the conservation conditions, these activities ***may affect, but are not likely to adversely affect*** the species (see Conservation Condition 3)	These activities ***may affect*** the species due to habitat modifications, nighttime lighting impacts, and/or habitat fragmentation and require consultation
NE	Asphalt Patching	Ø				
MA	Bank Stabilization					
MA	Barge Staging					
NLAA CC[2]	Bridge Deck Repair			* * * *		! !
NLAA CC[2]	Bridge Deck Replacement					
NLAA CC[2]	Bridge Painting					
NLAA CC[2]	Bridge Rail Repair/Replacement					
MA	Bridge Substructure New, Replacement, or Repair - Ephemeral					!
MA	Bridge Substructure New, Replacement, or Repair - Intermittent					!
MA	Bridge Substructure New, Replacement, or Repair - Perennial					!
MA	Bridge Superstructure New & Replacement - Ephemeral					!
MA	Bridge Superstructure New & Replacement - Intermittent					!
MA	Bridge Superstructure New & Replacement - Perennial					!
MA	Channel Grade Stabilization Structures					!
MA	Channelization, Ephemeral					!
MA	Channelization, Intermittent					!
MA	Channelization, Perennial					!
MA	Clearing and Grubbing - Non-woody Vegetation					!
MA	Clearing and Grubbing - Trees & Shrubs					!
MA	Cofferdams					!
NLAA CC[1]	Concrete Pavement Repair		*			
NE	Crack Sealing and Joint Sealing	Ø				
MA	Culvert New, Replacement, Extension, Repair - Ephemeral					!
MA	Culvert New, Replacement, Extension, Repair - Intermittent					!
MA	Culvert New, Replacement, Extension, Repair - Perennial					!
NE	Curb & Flume	Ø				
NE	Curb & Gutter	Ø				
MA	Detention Basin					!
MA	De-watering					!
MA	Drilled Shafts					!
NE	Earth Shoulder Construction					!
NE	Erosion Control - Barriers	Ø				
NE	Erosion Control - Erosion Checks	Ø				
NE	Erosion Control - Inlet/Outlet Protection	Ø				
NLAA CC 3	Erosion Control - Mulching		*			
NE	Erosion Control - Rolled Erosion Control	Ø				
NE	Erosion Control - Slope Interruption	Ø				
NE	Erosion Control - Traps and Basins	Ø				
NLAA CC[1 plus 3]	Erosion Control - Vegetation		*			
NLAA CC[1 plus 3]	Fencing		*			
NE	Grading Within the Hinge Point	Ø				
MA	Grading Outside the Hinge Point					!
NE	Guardrail Repair with Soil Disturbance	Ø				
NE	Guardrail Repair without Soil Disturbance	Ø				
MA	Habitat Fragmentation, Modification of Connectivity					!
NLAA CC[1 plus 3]	Landscaping		*			
MA	Lighting, Traffic and Pedestrian Signals, DMS w/ Soil Disturbance					!
MA	Lighting, Traffic and Pedestrian Signals, DMS w/out Soil Disturbance					!
NE	Microsurfacing	Ø				
NE	Milling and/or In-place Recycling	Ø				
MA	Nighttime work with Lights					!
MA	Noise Walls (Not in water/wetlands)					!
MA	Overpass					!
NE	Pavement Removal	Ø				
NE	Paving	Ø				
MA	Piers					!
MA	Pile Driving - Impact					!
MA	Pile Driving - Vibratory					!
NE	Pile/Pier Encasement	Ø				
MA	Pipe Jacking & Casing					!
NLAA CC[1]	Pre-watering		*			
NLAA CC[1 plus 3]	Removal of Structures and Obstructions		*			
MA	Replacing a Bridge with a Culvert					!
NE	Resurfacing-Fog/Slurry Seal, Armor Coat/Chip Seal	Ø				
MA	Retaining Walls (NOT IN Water/Wetlands)	Ø				
NE	Rock or Gravel Surfacing					!
MA	Shoo-fly					!
MA	Sidewalks and Bikeways					!
NE	Signs with Soil Disturbance	Ø				
NE	Signs without Soil Disturbance	Ø				
MA	Stream Channel Impact, Ephemeral					!
MA	Stream Channel Impact, Intermittent					!
MA	Stream Channel Impact, Perennial					!
MA	Temporary Crossing, Causeway, Work-Platform					!
NE	Trenched Widening	Ø				
NLAA CC[1 plus 3]	Underground Utility Conduit		*			
MA	Wetland Mitigation					!