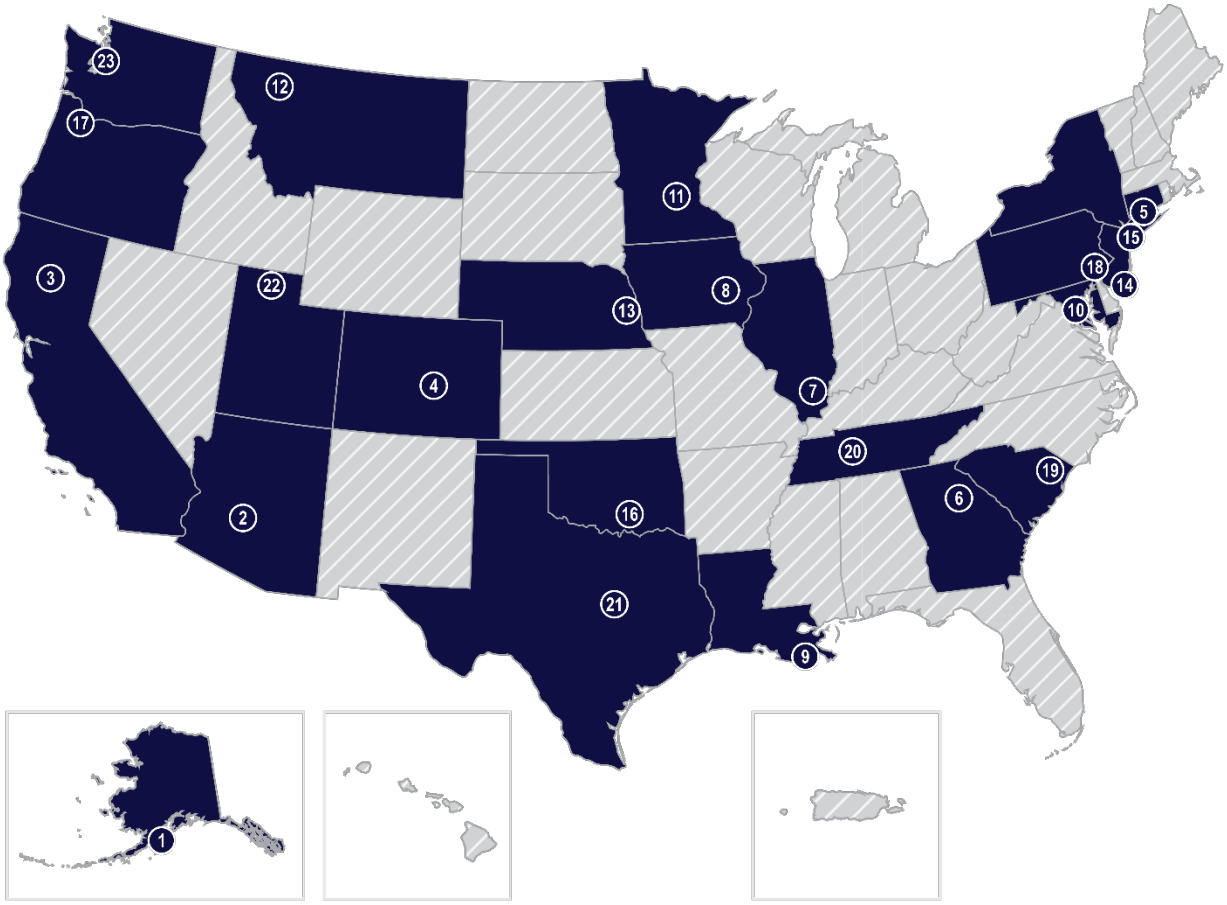
BRIDGE INVESTMENT PROGRAM (BIP)

U.S. Department of Transportation
Federal Highway Administration

BIP Planning Grant Awards
FY 2022



U.S. Department of Transportation
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BIP Planning Grant 2022 Awards Fact Sheets
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BIP Planning, Rural

Kodiak Sargent Creek and Russian River Bridges Planning Study

Kodiak Island Borough, Alaska

Grant Funding: $1,288,000
Estimated Total Planning Project Costs: $1,610,000

Project Description

The Kodiak Sargent Creek and Russian River Bridges Planning Study includes a Planning and Environment Linkages (PEL) study, hydrologic study, and other planning activities that are necessary to replace two bridges.

Project Benefits

This planning project should lead to moving these bridges toward replacement. The project will contribute to the functioning and growth of the economy, which depends on the bridges for freight connectivity and movement of residents within the Borough. The deterioration of the bridges and related transportation assets threatens to result in bridge service gaps, which replacement would overcome. Access to the nearby subdivision, too, should promote greater land-use productivity and mixed-income residential development.

Photo source: Kodiak Island Borough, Alaska

U.S. Department of Transportation
Federal Highway Administration

BIP Planning, Rural

Gila River Bridge
Maricopa County, Arizona

Grant Funding: $421,600
Estimated Total Planning Project Costs: $527,000

Project Description
A Candidate Assessment Report (CAR) to determine the location of a new bridge and preserve the historic integrity of the current bridge (for pedestrian and bike use). The new bridge could become the first component of a planned 39-mile, regional high-capacity roadway, called the Hidden Waters.

Project Benefits
A Candidate Assessment Report (CAR) is needed to determine the location of the new bridge and associated improvements, according to the applicant. This planning project is envisioned to lead to a bridge project that would achieve multiple benefits by replacing a nine-span, narrow, vertical posted/load posted, fracture-critical steel bridge with a new modern structure. The new structure would eliminate a 22-mile detour for many vehicles in a rural portion of Maricopa County. The new bridge would improve safety, efficiency, and reliability of the movement of people and freight over the Old US 80 Bridge.

Photo source: Maricopa County, Arizona

U.S. Department of Transportation
Federal Highway Administration

BIP Planning, Rural

Tehama County Feasibility Study Woodson Bridge
Tehama County, California

Grant Funding: $320,000
Estimated Total Planning Project Costs: $400,000

Project Description
Feasibility study to determine if the Woodson Bridge can be rehabilitated by stabilizing the sub-structure (scour critical) or if a new bridge must be constructed. The project will include a life-cycle cost analysis for both alternatives.

Project Benefits
The project that would result from this planning study will mitigate scour vulnerability affecting the bridge; provide safer routes for schools, agriculture, and commercial freight; provide shorter routes to reduce fire response time; provide shorter routes for disadvantaged communities; and improve travel time and Vehicle Miles Traveled (VMT).

Photo source: Tehama County, California

U.S. Department of Transportation
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BIP Planning, Urban

Fillmore Street Bridge Improvements

City of Colorado Springs, Colorado

Grant Funding: $750,000
Estimated Total Planning Project Costs: $1,500,000

Project Description

Planning and Environment Linkages (PEL) study for two bridges on Fillmore Street over Monument Creek and Pikes Peak Greenway Trail and Union Pacific Railroad.

Project Benefits

This planning project will evaluate a bridge project to replace two structures that are at a critical point of degradation and anticipated to fall into poor condition in the next inspection. The replacement would rectify the lack of bicycle and pedestrian infrastructure and would address existing traffic congestion for short- and long-term conditions on Fillmore Street.

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BIP Planning, Urban

I-95 Exits 7-9
Connecticut DOT, Connecticut

Grant Funding: $1,000,000
Estimated Total Planning Project Costs: $6,000,000

Project Description
A Planning and Environment Linkages (PEL) study to develop and examine preliminary alternatives for replacement of bridge 00032 and the reconfiguration of I-95 through the City of Stamford. Will develop a draft purpose and need and potential alternatives that address deficiencies identified.

Project Benefits
Benefits from the PEL study include an evaluation of possible projects within the study area that have logical termini and independent utilities. The evaluation would identify a recommended class of action for each potential project under the National Environmental Policy Act (NEPA). The Connecticut DOT will evaluate pedestrian and bicycle improvements as feasible as part of the PEL study. Recommendations for the prioritization or phasing of the projects will be provided in light of importance and anticipated available funding. The planning study will allow for scrutiny of the root causes of persistent crashes and engineering solutions will thus be recommended that will promote a much safer facility. Additionally, existing problems with congestion will be examined in the planning study. Engineering solutions will be generated to improve reliability and efficiency for all vehicles using the bridge.

Photo source: Connecticut DOT, Connecticut

U.S. Department of Transportation
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BIP Planning, Urban

Transforming Critical Links in Athens-Clarke County
Athens-Clarke County, Georgia

Grant Funding: $772,000
Estimated Total Planning Project Costs: $965,000

Project Description
Planning and feasibility study to rehabilitate six bridges.

Project Benefits
The study will lead toward resolving traffic congestion throughout Athens-Clarke County; creating a pedestrian and bicycle network separate from roadways; encouraging transit-oriented development and the start of developing underutilized transit routes; and developing a transportation infrastructure that supports transportation diversity, equitable access, and environmental stewardship. Most of these benefits will be from meeting standards of traffic, load capacity, bridge railings, transitions, and guardrails.

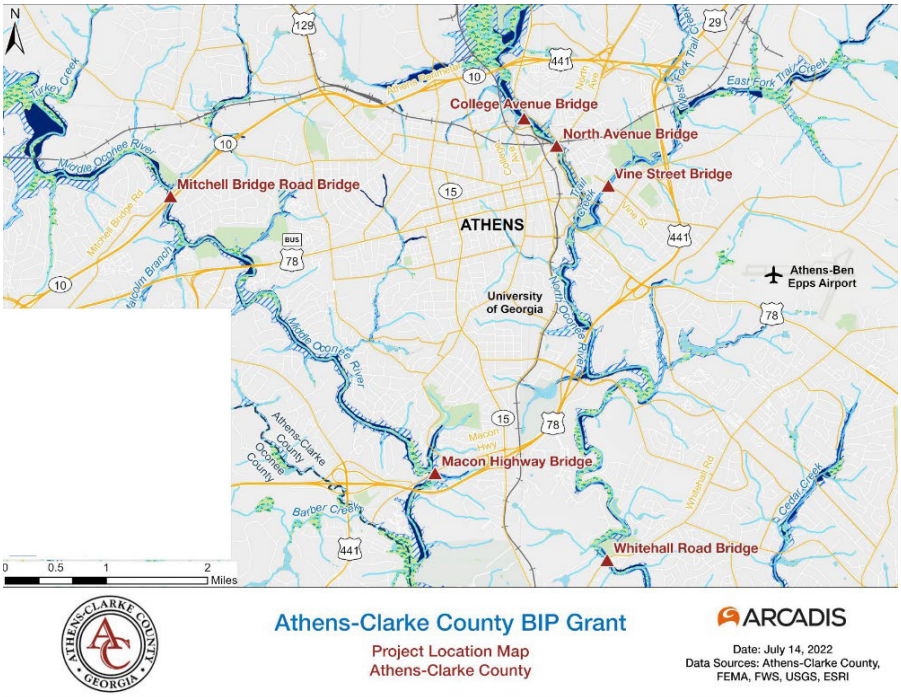

Photo source: Athens-Clarke County, Georgia

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BIP Planning, Rural

Peabody Road Bridge Replacement
Gallatin County, Illinois

Grant Funding: $48,000
Estimated Total Planning Project Costs: $60,000

Project Description
Planning study to replace Peabody Road Bridge.

Project Benefits
This planning project will evaluate the Peabody Road Bridge for replacement of a structurally and geometrically deficient structure that is in poor condition. The Peabody Road Bridge is a critical agricultural transportation link for farmers transporting commodities from southeastern Illinois to the Ohio River grain-loading facilities at the Shawneetown Port. In addition, the Shawneetown Port Authority has received funding to construct a major fertilizer offloading facility in 2023. It is anticipated that the bridge will carry a substantial amount product from the facility. Loss of this structure would place additional financial burdens on the commercial and agricultural users of this bridge, increasing the transportation cost, fuel consumption, and transport time.

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BIP Planning, Urban

Burlington Street/Highway 1 Bridge Improvements
Iowa City, Iowa

Grant Funding: $300,000
Estimated Total Planning Project Costs: $600,000

Project Description
A planning study to determine the feasibility of replacing two existing bridges with a single structure.

Project Benefits
This project will address a variety of challenges on this regionally important corridor. Bisecting Iowa City, the Iowa River is part of the city's history and identity but also contributes to some of the City's challenges. The Iowa River divides the community in half, with only a limited number of crossings to serve as connections for users between east and west Iowa City. The proposed project will replace two adjoining bridges with a single structure, which should be an improvement for the traveling public and reduce future maintenance. The proposed structure would also provide for critical utility crossings of the Iowa River without having to install them deep below the riverbed.

Photo source: Iowa City, Iowa

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BIP Planning, Urban

Replacement of Old LA 182 over Lafourche Bayou
Lafourche Parish, Louisiana

Grant Funding: $60,000
Estimated Total Planning Project Costs: $75,000

Project Description
Planning, feasibility analysis, and revenue forecasting for development of a plan to replace bridge 200860.

Project Benefits
Bridge 200860 carries Old LA 182 over Bayou Lafourche. It is a vertical lift bridge, allowing commercial and personal ships to travel up Bayou Lafourche. This bridge carries a large amount of pedestrian traffic across the bayou and has average daily traffic of approximately 6,000 vehicles. It is imperative for this bridge to stay in good working condition as it gives ships an additional 8 miles of the bayou for docking purposes during hurricanes and heavy storms, according to the applicant. This planning project will lead toward replacement of this bridge and thus to improving the safety of movement of people and freight over and under this bridge.

Photo source: Lafourche Parish, Louisiana

U.S. Department of Transportation
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BIP Planning, Urban

PG County Connecting Communities Bundled Bridge Replacement Project

Prince George's County, Maryland

Grant Funding: $560,000
Estimated Total Planning Project Costs: $700,000

Project Description

Planning project to evaluate replacement of two bridges in poor condition, to be bundled in a future construction project.

Project Benefits

This planning project will address the deteriorated condition and safety features of two bridges, both of which are in poor condition. The location of the two bridges, within several Federal and State listed areas of interest, make them ideal candidates for improvements to positively affect the surrounding community. Additionally, both bridges carry roadways that support public bus routes. The resulting project will improve the safety, equity, efficiency, and reliability of the movement of people and freight over both bridges.

Photo source: Prince George's County, Maryland

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BIP Planning, Urban

St. Albans Bay Bridge
City of Excelsior, Minnesota

Grant Funding: $269,600
Estimated Total Planning Project Costs: $337,000

Project Description
Planning project to evaluate improvement of the Minnetonka Boulevard Bridge over St. Albans Bay of Lake Minnetonka. The goal is to better understand the process and options of upgrading or replacing an historically eligible bridge.

Project Benefits
The existing St. Albans Bay Bridge shows several signs of deterioration that will continue until a replacement or rehabilitation occurs. The new bridge would eliminate the maintenance issues associated with the existing bridge that negatively affect safety, efficiency, and reliability. Existing issues include load rating restriction, cracking, spalling, exposed rebar, rutting, surface rusting, heavy corrosion, delamination, narrow roadway, poor shoulder, lack of guardrail on the approach, and poor sightlines. There are currently no dedicated bicycle or pedestrian facilities on the existing bridge. The shoulders and drive lanes are very narrow, so walking and bicycling is unsafe. A "Complete Streets" approach would be used in design of the new bridge, which may include sidewalks on one or both sides of the bridge and dedicated bicycle facilities.

Photo source: City of Excelsior, Minnesota

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BIP Planning, Rural

Flathead County Bridge Improvement Project
Flathead County, Montana

Grant Funding: $240,000
Estimated Total Planning Project Costs: $300,000

Project Description
The Flathead County Bridge Improvement Project includes initial planning activities for four county bridges: Dry Creek Bridge, Swift Creek Bridge, Baker Avenue Bridge, and Whitefish Stage Bridge.

Project Benefits
Improvements to the Flathead County Bridges would result in cost-savings by preventing the closure or reduced use of the bridges; benefits from protection, including improved seismic and scour protection; reductions in maintenance costs; safety benefits, including the reduction of accidents and related costs; person and freight mobility benefits, including congestion reduction and reliability improvements; national or regional economic benefits; benefits from long-term resiliency to extreme weather events, flooding, or other natural disasters; environmental benefits, including wildlife connectivity; and benefits to nonvehicular and public transportation users.

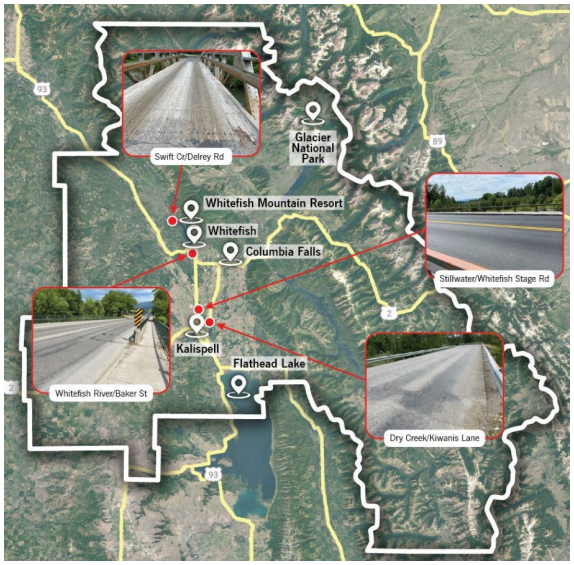

Photo source: Flathead County, Montana

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BIP Planning, Urban

Fort Crook Road Bridge
City of Bellevue, Nebraska

Grant Funding: $440,000
Estimated Total Planning Project Costs: $550,000

Project Description
The Feasibility and Planning and Environment Linkages (PEL) analysis of Fort Crook Road Bridge is to evaluate the replacement project of the Fort Crook Road Bridge.

Project Benefits
The Fort Crook Road Bridge consists of parallel northbound and southbound structures, built in 1956 and 1973, respectively. Each structure carries three lanes of traffic, and they currently offer no pedestrian or bicycle accommodations. Both structures have severe deterioration due to age and drainage issues, according to the applicant. This project would improve safety, efficiency, and reliability of the movement of people and freight over the structures. The project also will reduce the number of bridges in poor or fair condition and at risk of falling into poor condition within the next three years. This project includes an enhanced pedestrian environment (e.g., side-walks, trails, buffered bikeways), the Fort Crook Road/24th Street BRT line, and provisions for active mobility, such as bicycles and scooters.

Photo source: City of Bellevue, Nebraska

U.S. Department of Transportation
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BIP Planning, Rural

Cape May County Bridge Planning Project

Cape May County Bridge Commission, New Jersey

Grant Funding: $1,980,000
Estimated Total Planning Project Costs: $2,575,000

Project Description

The Cape May County Bridge Planning Project will determine preliminary preferred alternatives to replace four bridges (Townsend Inlet, Corson's Inlet, Grassy Sound, and Great Channel).

Project Benefits

This planning project is expected to lead to two future bridge replacement projects, each of which would significantly improve the safety, efficiency, and reliability of the movement of people and freight. In their current condition, the bridges in this planning study present a serious safety issue, as the deficiencies in the structures of these bridges could lead to critical failures down the line. These bridges are outdated and unsafe, with geometric, load, and traffic deficiencies, according to the applicant. Additionally, the bridges' current condition impacts the efficiency and reliability of the movement of people and freight over the bridges. It is anticipated two of the bridges would be bundled into one large project and the remaining two would be advanced as individual bridge projects.

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BIP Planning, Urban

East River Bridges Capital Program Development
City of New York, New York

Grant Funding: $1,600,000
Estimated Total Planning Project Costs: $2,000,000

Project Description
East River Bridges Capital Program Development is the planning and development of a 30-year capital construction program for four iconic East River bridges: Brooklyn, Manhattan, Williamsburg and Ed Koch Queensboro.

Project Benefits
The completion of the East River Bridges Capital Program Development will result in a suite of proposed capital projects to be implemented through 2050. The most significant economic effect of the East River Bridges study will be to support long-term job creation and economic growth by maintaining mobility on several key Northeast transportation corridors. Additionally, NYC DOT will seek to research and evaluate national and international best practices for utilizing innovative technologies for bridge management and project delivery of long-span bridges.

Photo source: City of New York, New York

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BIP Planning, Rural

Roosevelt Memorial Bridge Improvement Program
Oklahoma DOT, Oklahoma

Grant Funding: $957,300
Estimated Total Planning Project Costs: $3,191,000

Project Description
Planning activities to support improvement of the Roosevelt Memorial Bridge.

Project Benefits
This project will lead toward replacement of a bridge that will provide a safe crossing of Lake Texoma. The planned replacement bridge will meet all current design criteria, accommodate future traffic demands, improve the efficiency and reliability of the movement of people and freight, increase resiliency, and provide a new bicycle and pedestrian crossing. The project will consider innovative project delivery methods, such as accelerated bridge construction and progressive design-build.

Photo source: Oklahoma DOT, Oklahoma

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BIP Planning, Urban

IBR Hayden Island Ground Improvement Study
Oregon DOT, Oregon

Grant Funding: $1,000,000
Estimated Total Planning Project Costs: $2,000,000

Project Description
Ground improvement study for seismic analysis to support future project preliminary engineering work for the replacement of the I-5 bridge over the Columbia River.

Project Benefits
The existing I-5 bridge is at risk of facing closure in a major seismic event. The application describes how a closure of the bridge would threaten the transportation network's efficiency and the ability to move goods and people in the Portland metropolitan region. The Interstate Bridge Replacement (IBR) Hayden Island Ground Improvement Study will help mitigate existing seismic risks from liquefiable soils to the proposed infrastructure in the IBR program area. The Ground Improvement Study will establish construction techniques to protect the replacement structure's long-term utility through a resilient construction approach. The bridge replacement project would address congestion and safety; this bridge has been ranked the worst bottleneck in Oregon and Washington, according to the applicant. Additionally, the bridge's facilities are inadequate for pedestrians, cyclists, and individuals using mobility devices.

Photo source: Oregon DOT, Oregon

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BIP Planning, Urban

Philadelphia Overhead Bridge Rehabilitation Program

City of Philadelphia, Pennsylvania

Grant Funding: $1,560,000
Estimated Total Planning Project Costs: $1,950,000

Project Description

The Philadelphia Overhead Bridge Rehabilitation Program is a planning and feasibility study of 18 bridges over electrified rail lines to determine efficient strategies and cost-effective solutions for rehabilitation of these bridges.

Project Benefits

The planning and feasibility work undertaken by this project will enable improvement of 18 bridges. It also will provide significant direct and indirect benefits to roadway users, as well as Amtrak and SEPTA passengers. Most important, the study will allow the City to work with Amtrak and SEPTA to develop a comprehensive strategy for improving the condition of aging bridges and for prioritizing and bundling bridge projects for future contracts. Effectively prioritizing projects means that resources can be focused on addressing structures in the poorest condition, which will allow the City to identify and address hazards proactively and in the most cost-effective fashion, according to the applicant.

Photo source: City of Philadelphia, Pennsylvania

U.S. Department of Transportation
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BIP Planning, Rural

I-95 Planning and Design Resiliency
South Carolina DOT, South Carolina

Grant Funding: $720,000
Estimated Total Planning Project Costs: $900,000

Project Description
The I-95 Planning and Design Resiliency planning grant is to determine how to replace or rehabilitate 12 rural bridges over the Great Pee Dee River.

Project Benefits
These bridges, in the northeast corner of South Carolina (Figure1) are in poor or scour critical condition. The bridges are currently threatened by aging, outdated design standards, and extreme weather events. These factors pose significant risks to the safety, efficiency, and reliability of the nationally important I-95 freight and tourism corridor that crosses the Great Pee Dee River floodplain. This planning project will address these challenges and provide improvements.

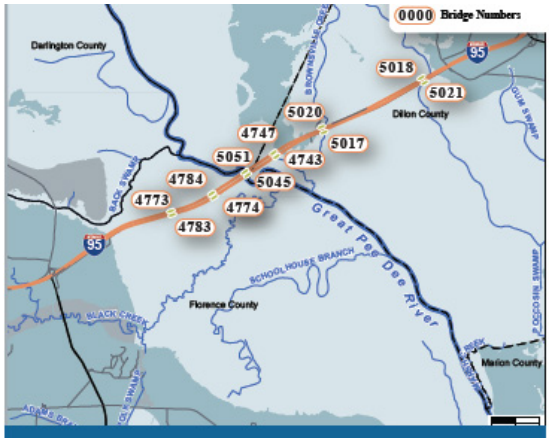

Figure 1: Project Location

Photo source: South Carolina DOT, South Carolina

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BIP Planning, Rural

Hickman County Planning
Hickman County, Tennessee

Grant Funding: $120,000
Estimated Total Planning Project Costs: $150,000

Project Description
Hickman County Planning is a county-wide planning program to perform a feasibility analysis of the 213 bridges and identify which of these bridges would be most in need for bridge replacement, rehabilitation, preservation, or protection.

Project Benefits
This planning project will help address the challenge of identifying bridges that potentially impede the mobility of freight and people and thereafter streamlining maintenance items. Additionally, this project will help identify which bridges may be safety, efficiency, and reliability concerns.

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BIP Planning, Urban

Primrose Creek Bridges Planning
City of Waco, Texas

Grant Funding: $800,000
Estimated Total Planning Project Costs: $1,000,000

Project Description
Model and develop alternatives for the channel and bridge crossings to contain the floodplain to the channel for seven flood-prone bridges.

Project Benefits
The existing bridges restrict mobility of the public and reduce efficiency for emergency response vehicles when inundated during rain events. The bridge project that would result from the planning project will increase the safety, efficiency, and reliability of movement over the project corridor's seven bridges for both people and goods.

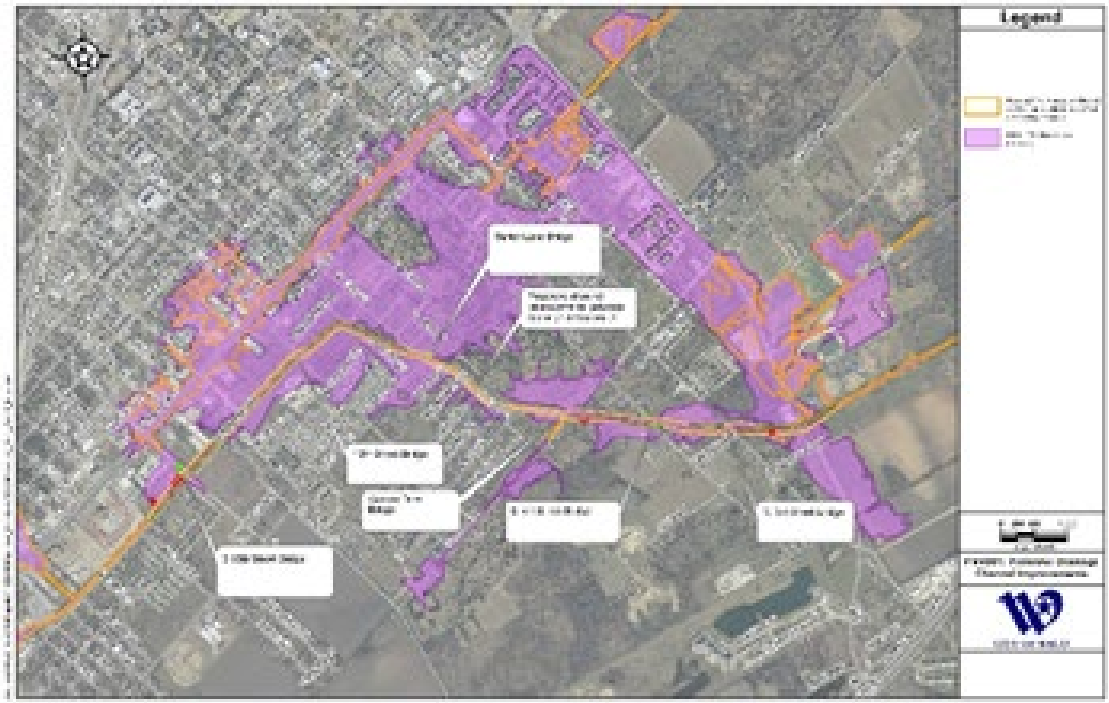

Photo source: City of Waco, Texas

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BIP Planning, Rural

I-84 Uintah Junction to Echo Junction Feasibility Study

Utah DOT, Utah

Grant Funding: $800,000
Estimated Total Planning Project Costs: $1,000,000

Project Description

Feasibility study to inspect and identify treatment needs for 40 bridges along a 31-mile stretch of I-84 in rural Utah.

Project Benefits

The feasibility study will lead toward a future I-84 Bridge Project bundle that would identify bridges at risk of falling into poor condition. The study would document a course of action for rehabilitating or preserving the bridges. The feasibility study would also identify a future capital improvement project that will improve the safety, efficiency, and reliability of the corridor for people and freight. This would be achieved by reducing the total person-miles traveled over bridges in poor condition, promoting equitable transportation costs and access in these rural counties, promoting competitiveness of the U.S. economy, and improving access to job opportunities.

Photo source: Utah DOT, Utah

U.S. Department of Transportation
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BIP Planning, Urban

4th/Argo Railyard Bridge Replacement Planning Study
City of Seattle, Washington

Grant Funding: $2,400,000
Estimated Total Planning Project Costs: $3,000,000

Project Description
This planning project would lead to TS&L (type, size, and location) for the 4th/Argo Railyard Bridge Replacement following a previous seismic retrofit that identified replacement as the best, most cost-effective option.

Project Benefits
The 4th/Argo Railyard Bridge is of concern as it has been partially closed since October 2017, with all modes of traffic restricted from using the northbound curb lane. The planning efforts of this project will lead to a future bridge replacement project that will provide for safe and predictable travel for people walking, biking, riding transit, and driving cars, and freight trucks to access jobs and essential services. It will also protect safe, efficient, and cost-effective rail freight mobility for the railyard beneath the existing bridge.

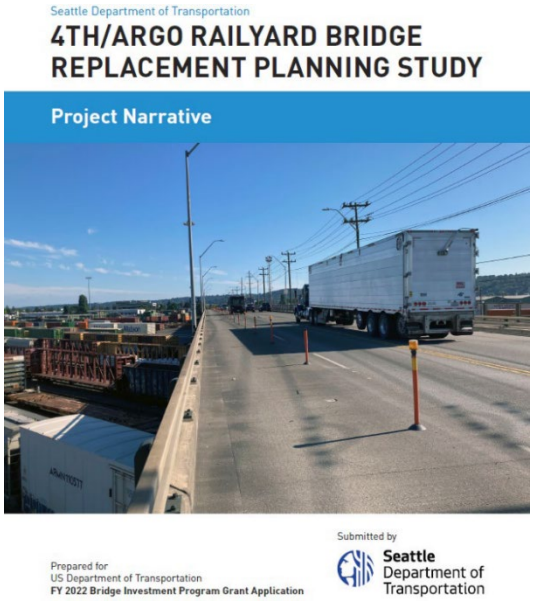

Photo source: City of Seattle, Washington