



Estimating Operational Expenses for Bridge Repair Projects



Connect with us: info@trucknhustlenews.com



Estimating Operational Expenses for Bridge Repair Projects

1. Logistics Costs

Fuel Expenses:

- Estimate the amount of fuel required based on projected mileage.
- Calculate costs using current fuel prices and vehicle fuel efficiency ratings.

Vehicle Maintenance:

- Budget for routine maintenance, including oil changes, tire replacements, and inspections.
- Set aside funds for unexpected repairs and breakdowns, considering the wear and tear from frequent use.

Route Planning:

- Factor in costs for route optimization software or tools that enhance delivery efficiency.
- Consider tolls, parking fees, and potential delays due to construction or traffic.

2. Compliance Costs

Permits and Licenses:

- Identify required permits for transporting heavy or oversized loads and their associated costs.
- Include any necessary licenses for operating in different jurisdictions.

Regulatory Fees:

- Account for fees related to compliance with federal and state transportation regulations.
- Include costs for inspections and certifications required for specialized cargo.





3. Staffing Expenses

Driver Wages:

- Estimate base wages and potential overtime pay for drivers involved in bridge repair projects.
- Factor in any additional compensation for handling specialized loads or working in challenging conditions.

Administrative Costs:

- Include salaries for administrative staff managing contracts, scheduling, and compliance documentation.
- Consider costs for additional administrative support if project scale increases.

Specialized Personnel:

- Budget for hiring or training specialized personnel, such as logistics coordinators or safety officers.
- Include costs for any consultants or experts required for specific aspects of the project.

4. Equipment Costs

Acquisition:

- Budget for purchasing or leasing specialized equipment, such as cranes or flatbeds for oversized cargo.
- Consider costs for equipment upgrades or modifications needed for specific project requirements.

Depreciation:

- Factor in depreciation costs for equipment used over the project's duration.
- Estimate the impact of wear and tear on equipment value and replacement needs.





5. Overhead Costs

Office Space:

- Include costs for renting or maintaining office space used for managing project operations.
- Consider utilities, internet, and other expenses related to office upkeep.

Utilities and Supplies:

- Budget for utilities such as electricity, water, and heating in office and operational facilities.
- Include costs for office supplies, including paper, printer ink, and other necessary materials.

6. Contingency Fund

Unexpected Expenses:

- Set aside a percentage of your budget as a contingency fund for unforeseen costs, such as sudden repairs or delays.
- Ensure this fund is sufficient to cover potential financial gaps or emergencies.

7. Profit Margin Calculation

Revenue vs. Expenses:

- Estimate potential revenue from bridge repair contracts based on project size and frequency.
- Compare expected revenue against estimated operational expenses to calculate potential profit margins.
- Adjust pricing or operational strategies as needed to achieve desired profit levels.





★ BONUS CONTENT ★

The Large Bridge Project Grants under the Bridge Investment Program are available for bridges with total eligible project costs over \$100 million, with minimum grant awards of \$50 million and a maximum award of 50 percent of the total eligible project costs. Priority consideration is given to projects that are ready to proceed to construction. The program also funds projects that require pre-construction work and benefit from a multi-year grant agreement.

Below are the 13 Large Bridge Project Grants awarded in this round:

- The Oregon Department of Transportation will receive \$1.4 billion for the Interstate Bridge Replacement Program, connecting Portland, Oregon, and Vancouver, Washington, to replace two aging vertical lift bridges that carry I-5 over the Columbia River. The modern, seismically resilient, and multimodal replacement bridges will provide safe and accessible options for driving, walking, biking, rolling, and riding transit. The project will help reduce travel times and congestion along this critical corridor, improve safety and quality of life, and lower carbon emissions. This project was also awarded a \$600 million Mega grant earlier this year.
- The Massachusetts Department of Transportation will receive \$993 million for the Sagamore Bridge Replacement Project in Cape Cod, Massachusetts, to replace the bridge, which experiences high crash rates and congestion, and improve the safety, efficiency, and reliability of the movement of people and goods over the Canal. This project was also awarded a \$372 million Mega grant earlier this year.
- The Alabama Department of Transportation will receive \$550 million for the I-10 Mobile River Bridge Replacement and Bayway Multimodal Project in Mobile, Alabama to improve safety, reliability, and mobility for residents in the project area. The improved bridge will support local small businesses and the national economy through a more efficient movement of goods along Interstate 10, a critical corridor for the country.
- The Pennsylvania Department of Transportation will receive \$500 million for the I-83 South Bridge Replacement Project in Harrisburg, Pennsylvania, to replace a bridge originally built in 1960, and widened in 1982, that carries more than 125,000 vehicles per day over the Susquehanna River. The bridge is the major cross-river connection in Downtown Harrisburg and is key to intermodal connectivity – ultimately linking Pennsylvania’s capital region with Baltimore.



- The Tennessee Department of Transportation will receive \$394 million for the America's River Crossing Project in Memphis, Tennessee and West Memphis, Arkansas, to replace the 75-year-old I-55 bridge over the Mississippi River. This is a nationally significant corridor for commerce and serves as a critical connector for residents, workers, and freight movement between Tennessee, Arkansas, and Mississippi. The new structure will add capacity and improve geometric design.
- The Rhode Island Department of Transportation will receive \$251 million for the I-95 15: Infrastructure for Tomorrow's Economy Project in Providence, Rhode Island, to improve the condition of 15 bridges critical to the local economy. The project will support the safe movement of goods and travel of residents, connecting them to key neighborhoods throughout the city of Providence.
- The North Carolina Department of Transportation will receive \$242 million for the Cape Fear Memorial Bridge Replacement Project in Wilmington, North Carolina, to replace a 54-year-old structure that carries US 17/US 76/US 421 across the Cape Fear River between New Hanover and Brunswick Counties – the fastest-growing counties in the state.
- The South Carolina Department of Transportation will receive \$175 million for the I-95 over Lake Marion Bridge Replacement Project in Santee, South Carolina, to replace four bridges that were constructed in 1968 over Lake Marion as part of I-95 – a nationally and regionally significant corridor and a major north-south artery. The project will reduce congestion and maintenance costs and improve safety.
- The Oklahoma Department of Transportation will receive \$124 million for the Roosevelt Memorial Bridge Replacement Project in Byran and Marshall Counties, Oklahoma to replace the structure that carries US-70 over Lake Texoma. The bridge was constructed in 1942, with a design that is now outdated to meet current traffic needs and future traffic demand. The project will improve the efficiency and reliability of the movement of people and freight, increase resiliency to flooding, and increase safety through a new pedestrian and bicycle crossing.
- Miami-Dade County will receive \$101 million for the Venetian Causeway Bridge Replacement Project in Miami, Florida, to replace 11 Venetian Causeway bridges that were originally built in 1926, with newer, more resilient infrastructure anticipated to last 50 years, meeting updated design codes and improving safety.





- The West Virginia Department of Transportation will receive \$88 million for the Market Street Bridge Replacement Project in East Steubenville, West Virginia and Steubenville, Ohio, to replace a historic bridge built in 1904. The damaged bridge cannot meet its current capacity and is at the end of its useful life. The replacement bridge will allow for the safer and more efficient movement of people and goods along this regionally significant route, connecting communities in the region and supporting its economic livelihood.
- The New Mexico Department of Transportation will receive \$72 million for the Nogal Canyon Bridge Replacement Project in Socorro County, New Mexico, to replace the two bridges that carry Interstate 25 over Nogal Canyon in Socorro County. The existing truss bridges are deteriorating rapidly and are at the end of their useful life. The replacement bridges will be the signature bridges of New Mexico's interstate system, ensuring continued efficiency and mobility along this nationally significant corridor and supporting the economic competitiveness of the region and state.
- The Kansas Department of Transportation will receive \$63 million for the 18th Street Bridge Replacement Project in Kansas City, Kansas, to replace a major river crossing built in 1959 that has undergone numerous rehabilitations over its 60-year life, including emergency repairs to extend its service life. The replacement project is the most cost-effective solution, saving public dollars that would have gone towards costly repairs to the original bridge. The new bridge will provide accommodations for active transportation.

