Sam Page
County Executive



Daniel W. Dreisewerd, P.E., PTOE
Acting Director

Stephanie Leon Streeter, P.E. Deputy Director

May 22, 2019

RE: Notice to Consultants
Request for Qualifications
Consulting Engineering Services
New Ballwin Road Bridge No. 349
0.55 miles south of Kiefer Creek Road
Federal Project No. BRO-B096(005)
TIP #5204E-19
St. Louis County Project No. CR-1773

The St. Louis County Department of Transportation is requesting the services of a well-qualified consulting engineering firm to perform the described professional services for the subject project. Qualifications-Based Selection (QBS), in accordance with RSMo. 8.285 through 8.291, will be used to determine the successful respondent. Note, St. Louis County Revised Ordinance SLCRO 107.071 is not applicable to the selection process for this contract.

# General Description of Services Required:

The project involves the replacement of the New Ballwin Road Bridge No. 349 over Kiefer Creek, located 0.55 miles south of Kiefer Creek Road. Anticipated required elements include, but are not limited to:

- Hydraulics & FEMA No-Rise Certification
- Geotechnical Analysis & Design (as necessary)
- Structural Analysis & Design
- Roadway Design
- Drainage and Water Quality Design and MSD Permitting (as necessary)
- Miscellaneous Pick-Up Survey Work (as necessary)
- Utility Coordination (as necessary)
- Right-of-Way Plans
- Preliminary Plans
- Final Plans
- Job Special Provisions
- Construction Estimates
- Coordination with the Missouri Department of Transportation (MoDOT)

## Services to Be Provided by St. Louis County Staff:

- Topographic Surveying
- Property Surveying
- Compilation of Bid Documents

Request for Qualifications Consulting Engineering Services New Ballwin Road Bridge No. 349 Replacement

- Compile and Submit Plans, Specifications, and Estimates (P,S, & E)
- Management of the Bidding Process
- Compile and Submit Concurrence in Award Request
- Contract Processing and Execution
- Compile and Submit Construction Notice to Proceed Request
- Construction Engineering
- Materials Testing

The anticipated project schedule is tied to East-West Gateway reasonable progress deadlines and is outlined below. Firms unable to meet these deadlines should not submit a Qualifications Statement.

Qualifications Statements Due: June 11, 2019
Selection Announced: June, 2019
Scoping Meeting: June, 2019

Negotiation: June, 2019 – July, 2019 Council Authorization/Contract Execution: August, 2019 - October, 2019

Estimated Notice to Proceed Date: October 28, 2019
Preliminary Plans Complete: March, 2020
Right-of-Way Plans Complete: June, 2020
Final Plans Complete: March, 2021

Please limit your Qualifications Statement to no more than seven (7) pages. The submittal should include the following:

- A statement describing expressing your firm's interest in the project.
- Key project staff and their qualifications.
- Current workload and availability of key staff throughout the project.
- Project approach
- Details of other similar projects your firm has taken through final design in the recent past. Contact information should be provided for similar projects completed for other agencies.
- DBE Utilization Plan

Firms may submit a copy of their company's general qualifications <u>separately</u> as a <u>single</u> additional document. There is no length limit to this document. This supplemental information is not required and is not guaranteed to be considered in the scoring process. <u>All project specific information should be included in the seven-page</u> Oualifications Statement.

All prime consultants shall be prequalified with MoDOT. It is further required that your firm submit an Affidavit of Compliance with the federal work authorization program along with a copy of your firm's E-Verify Memorandum of Understanding (15CSR 60-15.020) be submitted with your firm's Statement of Qualifications. These items do not count towards the seven-page limit.

Request for Qualifications Consulting Engineering Services New Ballwin Road Bridge No. 349 Replacement

Qualifications Statements will be scored based on the following criteria:

- Overall Experience and Technical Competence <u>30 points</u>
  - Project Manager has appropriate qualifications and has successfully managed similar projects (10 points)
  - Technical Leads have appropriate qualifications and have successfully performed on similar projects (10 points)
  - Project Team, including subconsultants, has experience working together on similar projects (10 points)
- Past Record of Performance **20 points** 
  - o Prior projects presented are representative of the technical challenges of the project being solicited (10 points)
  - o Prior projects include federal-aid projects for Missouri Local Public Agencies (5 points)
  - o Performance on prior projects (5 points)
    - Provide project contact information for non-County projects.
    - LPA Federal-Aid Projects Preferred
- Capacity and Capability 20 points
  - Statements concerning Project Team availability appear realistic (5 points)
  - o Record of meeting project schedules (15 points)
    - Provide complete project timelines for three recent projects:
      - Projects should be among those discussed in the "Past Record of Performance." Projects must have been completed (through construction) in the past five (5) years
      - Timelines should include entire project life, from consultant selection through completion of construction. Milestones listed, when applicable, should include:
        - Consultant Selection
        - o Consultant Contract was Fully Executed
        - Consultant Notice-to-Proceed
        - o Preliminary Plan Approval
        - o Right-of-Way Plan Approval
        - o A-Date
        - o P,S&E Approval
        - o Right-of-Way Clearance
        - o Bid Opening
        - o Award
        - o Construction NTP
        - o Construction Time Allowed
        - Construction Completed.
      - Explanations should be provided for any milestones that appear to have significant delays.
      - Tabular format is preferred.
- Project Approach 30 points
  - O Discuss items including, but not limited to:
    - Potential technical challenges and proposed solutions

- Opportunities for innovation
- Project-specific utility coordination approach
- Measures to be taken by project team to keep project on schedule

This project is classified as non-complex per the Department's revised QBS policy. Selection will be made based solely on the scoring of Statements of Qualification received and no interviews will be conducted.

A Disadvantaged Business Enterprise (DBE) goal of 18% has been established for this project. DBE firms must be listed in the MRCC DBE Directory located on MoDOT's website at <a href="www.modot.gov">www.modot.gov</a>, in order to be counted toward participation in any established DBE Goal. St. Louis County encourages DBE firms to submit as prime on any project for which they are qualified. Any sub-consultants needed to complete the professional services requested by St. Louis County must be listed.

If your firm would like to be considered for the consulting services, please e-mail your Qualifications Statement to Pam Thebeau, P.E., Supervisor, Project Managers at <a href="PThebeau@stlouisco.com">PThebeau@stlouisco.com</a> as a PDF file. General qualifications shall also be submitted in PDF format. Any mailed or hand-delivered hard copy submittals will be discarded. All Qualifications Statements must be received by 2:00 p.m., local time, on June 11, 2019 to be considered for this project. Questions regarding this solicitation shall be submitted in writing via e-mail to the project contact above. Phone inquiries will not be accepted. Failure to comply with the requirements of the RFQ may negatively impact the evaluation of the consultant's Statement of Qualifications.

Pertinent project programming files, inspection reports, and existing plans are attached following this Notice.

| St. Louis                      | County, New Ballwin Road Bridge No. 349 Replacement   |
|--------------------------------|---|
| Federal Aid No.:               | BRO-B096(005); TIP #5204E-19  |
| Location:                      | New Ballwin Road over Kiefer Creek  |
| Proposed Improvement:          | Bridge Replacement  |
| Length:                        | 0.10 miles  |
| Approximate Construction Cost: | \$1,390,300   |
| DBE Goal Determination         | 18%   |
| Consultant Services Required:  | The project involves the replacement of the New Ballwin Road Bridge No. 349 over Kiefer Creek, located 0.55 miles south of Kiefer Creek Road.  • Hydraulics & FEMA No-Rise Certification  • Geotechnical Analysis & Design (as necessary)  • Structural Analysis & Design  • Roadway Design  • Drainage Design and Water Quality Design and MSD Permitting (as necessary)  • Miscellaneous Pick-Up Survey Work (as necessary)  • Utility Coordination (as necessary)  • Right-of-Way Plans  • Preliminary Plans  • Final Plans  • Job Special Provisions  • Construction Estimates  • Coordination with the Missouri Department of Transportation (MoDOT) |
| Other Comments:  Contact:      | Services to Be Provided by St. Louis County Staff:  Topographic surveying Property surveying Compilation of Bid Documents Compile and Submit Plans, Specifications, and Estimates (P,S, & E) Management of the Bidding Process Compile and Submit Concurrence in Award Request Contract Processing and Execution Compile and Submit Construction Notice to Proceed Request Construction Engineering Materials Testing  Pamela R. Thebeau, P.E.  |
| Contact.                       | Supervisor, Project Managers St. Louis County Department of Transportation  PThebeau@stlouisco.com  All questions and submittals via e-mail. Phone inquiries not accepted.  |
| Deadline:                      | June 11, 2019 at 2:00 p.m.  |

# **Project Information Form**



# **Off-System Bridge Funding (BRO)**

| Sponsoring Agency:        |  |  |
|---------------------------|--|--|
|                           |  |  |
| Project Title:            |  |  |
| Fodous Amount Donnested   |  |  |
| Federal Amount Requested: |  |  |

### **PROJECT CHECKLIST AND SUBMITTAL REQUIREMENTS**

The evaluation and scoring of all projects will be based on the answers provided in the application and the attachments submitted. Submit one electronic copy. Save the electronic copy as a PDF file using the following format:

BRO\_[Sponsor]\_[Project Name].pdf.

| terials sh  | ould be submitted in the following order.  |  |  |  |
|---|--|--|--|--|
| Project Application: Completed BRO information form |  |  |  |  |
|   | Completed Bito Information form  |  |  |  |
| nent A:   | <b>Project location map</b> – depict the location of the project on a base map such as a town road map, GIS map, aerial photo, or another base map suitable to clearly show the project's overall location. Provide on an 8 ½ x 11 page.   |  |  |  |
|   | Detailed cost estimate – use Estimate of Project Costs excel file provided.  Letter of permission from facility owner – provide if sponsor does not own roadway.  Letter of support from match source – provide if individual, business, other local public agency, or other third-party is providing matching funds.  |  |  |  |
| nent B:   | Photographs – attach photo(s) of the current bridge.  Detailed map – if applicable, provide a map showing:   |  |  |  |
|   | Roadway realignment diagram – if applicable, provide a diagram showing existing and proposed vertical or horizontal realignment of the connecting roadway.  Typical bridge section – show details of before and after bridge improvements.  Bridge condition – attach State-issued inspection report or other documentation from State DOT showing bridge condition.  Preventive maintenance activities – provide documentation from FHWA showing its approval of proposed preventive maintenance plan. Include list showing at least the bridges that are part of the program, ADT, sufficiency rating, maintenance activity, maintenance cost, when the structure is due for replacement, and the cost to replace the structure (in present dollars). Documentation must show that project will extend life of bridges. Required only for preventive maintenance projects. |  |  |  |
|   |  |  |  |  |

| SPONSOR INFORMATI               | ION                     |                |           |                  |                                |
|---------------------------------|-------------------------|----------------|-----------|------------------|--------------------------------|
| Sponsoring agency:              |                         |                |           |                  |                                |
| Secondary sponsor agency (i     | if applicable):         |                |           |                  |                                |
| Chief Elected Official/Chief    |                         |                |           |                  |                                |
| Name:                           |                         | Title          |           |                  |                                |
| Street address:                 |                         | I              | - I       |                  |                                |
| City:                           | State:                  | Cour           | nty:      |                  | ZIP code:                      |
| Project contact:                |                         |                |           |                  |                                |
| Name:                           |                         | Title:         |           |                  |                                |
| Agency:                         |                         | l.             | · ·       |                  |                                |
| Street address:                 |                         |                |           |                  |                                |
| City:                           | State:                  | Cou            | nty:      |                  | ZIP code:                      |
| Phone Number:                   | 1                       | E-mail ad      |           |                  | ,                              |
| Application contact:            |                         |                |           |                  |                                |
| Name:                           |                         |                | Pho       | ne Number:       |                                |
| E-mail address:                 |                         |                |           |                  | 1                              |
|                                 |                         |                |           |                  |                                |
| PROJECT INFORMATION             | ON                      |                |           |                  |                                |
| Project title:                  |                         |                |           |                  |                                |
| Project status:                 |                         | Is th          | s applic  | cation request f | or a piece of a larger project |
| New project                     |                         | (pha           | se) or t  | he entire length | of project?                    |
| Continuation of STP-S/C         | MAQ/TAP project         |                | Phase     |                  |                                |
| Add to existing non-fede        | erally funded project   |                | Full pro  | ject             |                                |
| If project is a continuation of | f another project that  | was previo     | usly pro  | ogrammed in the  | e TIP, provide TIP ID # of     |
| existing project and also exp   | lain this relationship: |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
| If this project is a phase of a | full project, how man   | y phases ar    | e left to | complete the p   | project? Briefly explain each  |
| phase (i.e., project limits and | d general improvemer    | nts):          |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
| Has your agency previously of   | competed for funds fo   | or this specif | ic proje  | ect?             |                                |
| Yes No Unknown                  |                         |                |           |                  |                                |
| If yes, when?                   |                         |                |           |                  |                                |
|                                 |                         |                |           |                  |                                |
| Estimated completion (const     | truction) month/year:   |                |           |                  |                                |

| ROADWAY INFORMATION  |  |                     |  |
|--|--|---------------------|--|
| Name of street or facility to be improved:                 |  |                     |  |
| Does the sponsoring agency own and maintain this facility? |  |                     |  |
| Yes No Unknown   |  |                     |  |
| If no, a letter of support for this proj                   | ect is required from the facility owner. |                     |  |
| Project length (miles):                                    |  |                     |  |
| Feature crossed (i.e., Fee Fee Creek)                      | :  |                     |  |
| Federal functional classification of re                    | oad (per EWG)¹:                          |                     |  |
| Bridge sufficiency rating:                                 |  |                     |  |
| Bridge identification number (federa                       | al ID):                                  |                     |  |
|  | CURRENT:                                 | PROPOSED:           |  |
| Traffic volumes (AADT):                                    | Year:                                    | Year:               |  |
| Speed limit of street:                                     |  |                     |  |
| Bridge width:  |  |                     |  |
| Deck width:  |  |                     |  |
| Number of through lanes:                                   |  |                     |  |
| Number of turn lanes:                                      |  |                     |  |
| Two-way left turn lanes?                                   | Yes No                                   | Yes No              |  |
| Typical lane width:  |  |                     |  |
| Outside lane width:  |  |                     |  |
| Shoulder width:  |  |                     |  |
| On-street parking allowed?                                 | Yes No                                   | Yes No Unknown      |  |
| Curb and gutter?   | Yes No                                   | Yes No Unknown      |  |
| Sidewalks?   | One-side Both sides                      | One-side Both sides |  |
|  | None                                     | None                |  |
| Sidewalk width:  | _  |                     |  |
| Sidewalk condition:  | Poor Fair Good                           |                     |  |
|  | None                                     | n/a                 |  |
| On-road bicycle facility <sup>2</sup> ?                    | Yes No                                   | Yes No Unknown      |  |
| Shared-use path or sidepath?                               | Yes No                                   | Yes No Unknown      |  |
| Shared-use path or sidepath                                |  |                     |  |
| width:   |  |                     |  |
| Located on transit route?                                  | Yes No                                   | n/a                 |  |
|  |  |                     |  |
| PREVENTIVE MAINTENANCE                                     |  |                     |  |
| Note: Complete only if preventive m                        | aintenance activity is proposed.         |                     |  |
| How many bridges are proposed?                             |  |                     |  |
| How will the maintenance activities                        | extend the life of the bridge structures | ?                   |  |
|  |  |                     |  |
|  |  |                     |  |
|  |  |                     |  |
|  |  |                     |  |
|  |  |                     |  |
|  |  |                     |  |
| Have the preventive maintenance a                          | ctivities been approved by FHWA?         |                     |  |
| Yes No Unknown   |  |                     |  |

<sup>&</sup>lt;sup>1</sup> East-West Gateway Functional Classification maps: <a href="http://www.ewgateway.org/transportation-planning/roadway-functional-classification/">http://www.ewgateway.org/transportation-planning/roadway-functional-classification/</a>.

<sup>&</sup>lt;sup>2</sup> On-road bicycle facility includes: bike lanes (separated, buffered, and standard) and shared-lane markings.

| LAND ACQUISITION INFORMA  | TION   |  |  |  |
|---|--|--|--|--|
| Status of right-of-way acquisition:   |  |  |  |  |
| All acquired or none needed   |  |  |  |  |
| ☐ In process  |  |  |  |  |
| Not started   |  |  |  |  |
|   | s to be acquired (all properties, permanent and/or temporary easements,                    |  |  |  |
| TSCL, and other rights-of-way):   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
| If any residential or commercial displa   | cements are anticipated, give details on how many and if they are                          |  |  |  |
| residential and/or commercial:  |  |  |  |  |
| ·   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
| Right-of-way acquisition by:  |  |  |  |  |
| Right-of-way condemnation by:   |  |  |  |  |
| Will the project traverse any public property, such as a public park that has used federal funds (i.e., Land and  |  |  |  |  |
| Water Conservation Funds) in the past?  |  |  |  |  |
| Yes No Unknown  |  |  |  |  |
|   |  |  |  |  |
| UTILITY COORDINATION  |  |  |  |  |
|   | e with utilities prior to construction.  |  |  |  |
| UTILITY COORDINATION  Note: Project sponsor must coordinate  Will the project require the relocation  |  |  |  |  |
| Note: Project sponsor must coordinate   |  |  |  |  |
| Note: Project sponsor must coordinate Will the project require the relocation Yes No Unknown If yes, check the appropriate box to se  |  |  |  |  |
| Note: Project sponsor must coordinate Will the project require the relocation Yes No Unknown  | of any utilities?  |  |  |  |
| Note: Project sponsor must coordinate Will the project require the relocation Yes No Unknown If yes, check the appropriate box to se Electric Phone   | of any utilities?  |  |  |  |
| Note: Project sponsor must coordinate Will the project require the relocation Yes No Unknown If yes, check the appropriate box to se Electric Phone Gas   | of any utilities?  |  |  |  |
| Note: Project sponsor must coordinate  Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric  Phone  Gas  Water  | of any utilities?  |  |  |  |
| Note: Project sponsor must coordinate  Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric  Phone  Gas  Water  Cable TV  | of any utilities?  |  |  |  |
| Note: Project sponsor must coordinate  Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer  | of any utilities?  |  |  |  |
| Note: Project sponsor must coordinate  Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric  Phone  Gas  Water  Cable TV  | of any utilities?  |  |  |  |
| Note: Project sponsor must coordinate  Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer  | of any utilities?  |  |  |  |
| Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer Sanitary sewer  | of any utilities?  lect the type of utility. Then give the names of the utility companies. |  |  |  |
| Note: Project sponsor must coordinate  Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer  | of any utilities?  lect the type of utility. Then give the names of the utility companies. |  |  |  |
| Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer Sanitary sewer  | of any utilities?  lect the type of utility. Then give the names of the utility companies. |  |  |  |
| Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer Sanitary sewer  | of any utilities?  lect the type of utility. Then give the names of the utility companies. |  |  |  |
| Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer Sanitary sewer  | of any utilities?  lect the type of utility. Then give the names of the utility companies. |  |  |  |
| Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer Sanitary sewer  | of any utilities?  lect the type of utility. Then give the names of the utility companies. |  |  |  |
| Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer Sanitary sewer  | of any utilities?  lect the type of utility. Then give the names of the utility companies. |  |  |  |
| Note: Project sponsor must coordinate  Will the project require the relocation  Yes No Unknown  If yes, check the appropriate box to se  Electric Phone Gas Water Cable TV Storm sewer Sanitary sewer Give details concerning potential utility | of any utilities?  lect the type of utility. Then give the names of the utility companies. |  |  |  |

| RAILROAD COORDINATION                                       |  |                      |  |
|---|--|----------------------|--|
| Does the project traverse any property owned by a railroad? |  |                      |  |
| Yes No Unknown  |  |                      |  |
| Is there a railroad within 500' of projection               | ct limits?   |                      |  |
| Yes No Unknown  |  |                      |  |
| Name of railroad:   |  |                      |  |
| Number of crossings impacted:                               |  |                      |  |
| Are the crossings active?                                   | Yes No   |                      |  |
| Width of crossing:  |  |                      |  |
| What is the crossing type?  Timber                          |  |                      |  |
| Rubberized  |  |                      |  |
| Asphalt   |  |                      |  |
| Concrete Other  |  |                      |  |
| Describe other:   |  |                      |  |
| Describe other.   |  |                      |  |
|   |  |                      |  |
|   |  |                      |  |
| PROJECT MAINTENANCE   |  |                      |  |
| List any regular maintenance tasks ant                      | icinated over the next 25 years:                   |                      |  |
| List any regular maintenance tasks and                      | incipated over the next 23 years.                  |                      |  |
|   |  |                      |  |
|   |  |                      |  |
|   |  |                      |  |
|   |  |                      |  |
|   |  |                      |  |
| Estimated annual cost to maintain faci                      | ility and funding source:                          |                      |  |
|   |  |                      |  |
|   |  |                      |  |
|   |  |                      |  |
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|   |  |                      |  |
| AMERICANS WITH DISABILITI                                   | ES ACT   |                      |  |
| Under the 1990 Americans with Disabi                        | ilities Act (ADA), Title II requires public entiti | es with more than 50 |  |
|   | on and create an effective ADA transition pla      |                      |  |
| Does your local public agency have mo                       | ore than 50 employees?                             |                      |  |
| Yes No Unknown  |  |                      |  |
| If yes, does your agency have an adop                       | ted ADA transition plan?                           |                      |  |
| Yes No Unknown  |  |                      |  |
| If your agency has an ADA transition p                      |  |                      |  |
| If ADA transition plan is not adopted, v                    | when is it expected to be adopted?                 |                      |  |

<sup>&</sup>lt;sup>3</sup> FHWA Questions and Answers about ADA/Section 504: <a href="https://www.fhwa.dot.gov/civilrights/programs/ada\_sect504qa.cfm">https://www.fhwa.dot.gov/civilrights/programs/ada\_sect504qa.cfm</a>.

| PROJECT DESCRIPTION  |
|--|
| Provide a brief description of the purpose of the project and the scope of work. Be as specific as possible. |
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# PROJECT DEVELOPMENT SCHEDULE

**Note**: Many stages can occur concurrently.

| Activity Description   | Start Date<br>(MM/YYYY) | Finish Date<br>(MM/YYYY) | Time Frame<br>(Months) |
|--|-------------------------|--------------------------|------------------------|
| Receive notification letter  | 11/2018                 | 11/2018                  | 1                      |
| Execute agreement (project sponsor and DOT)  |                         |                          |                        |
| Engineering services contract submitted and approved*                                    |                         |                          |                        |
| Obtain environmental clearances (106, CE-2, etc.)  |                         |                          |                        |
| Public meeting/hearing   |                         |                          |                        |
| Develop and submit preliminary plans   |                         |                          |                        |
| Preliminary plans approved   |                         |                          |                        |
| Develop and submit right-of-way plans  |                         |                          |                        |
| Review and approval of right-of-way plans  |                         |                          |                        |
| Submit and receive approval for notice to proceed for right-of-way acquisition (A-Date)* |                         |                          |                        |
| Right-of-way acquisition   |                         |                          |                        |
| Utility coordination   |                         |                          |                        |
| Develop and submit PS&E  |                         |                          |                        |
| District approval of PS&E/advertise for bids*  |                         |                          |                        |
| Submit and receive bids for review and approval  |                         |                          |                        |
| Project implementation/construction  |                         |                          |                        |
| * = : . : .  |                         |                          |                        |

<sup>\*</sup> Finish date must match fiscal year for each milestone shown in **bold** text.

# FINANCIAL PLAN

**Note**: Fiscal years are federal fiscal years (October 1 through September 30). Federal participation for a phase of work must not exceed 80%.

| Activity  | Starting<br>Federal Fiscal<br>Year | Total Phase Cost | BRO Funds | Sponsor Share | Sponsor<br>Share<br>Percentage |
|---|------------------------------------|------------------|-----------|---------------|--------------------------------|
| PE / Planning /<br>Environmental Studies  | FY                                 |                  |           |               |                                |
| Right-of-Way  | FY                                 |                  |           |               |                                |
| Implementation  | FY                                 |                  |           |               |                                |
| Construction<br>Engineering   | FY                                 |                  |           |               |                                |
| TOTAL PROJECT COST  |                                    |                  |           |               |                                |
| Identify the source(s) of local matching funds, and the amount for each source: |                                    |                  |           |               |                                |

| SAFETY   |
|--|
| Is the bridge structurally deficient or functionally obsolete?  Structurally deficient Functionally obsolete   |
| MULTIMODAL   |
| Describe the existing conditions of the bicycle/pedestrian environment where the proposed facility will be constructed:  |
| Does the proposed project incorporate any of the following bicycle-related improvements?    Separated bike lane/cycle track/protected bike lane   Shared-use path/trail   Buffered bike lane   Standard bike lane (not buffered)   Marked shared roadway (shared-lane markings, "sharrow")   Paved shoulder   Other   None   Describe other: |
| Does the proposed project incorporate any of the following pedestrian-related improvements?  New sidewalks Sidewalk reconstruction Construction of new curb ramps Curb ramp reconstruction Railing or protective screening/concrete barrier Pedestrian-scale lighting Other None Describe other:   |
| Is the project within ½ mile of a school?  Yes No Unknown  If yes, identify the school(s):   |

| Is the project within ½ mile of an activity center, employment center, or community resource (i.e., a business |
|--|
| district, retail center, medical facility, community center, park)?  |
| Yes No Unknown   |
| If yes, identify all activity centers, employment centers, and/or community resources (planned or existing):   |
|  |
|  |
|  |
|  |
|  |
|  |
| INTERMODAL CONNECTIONS   |
| Does the facility have a posted weight limit?  |
| Yes No Unknown   |
| If yes, what is the posted weight limit?   |
|  |
|  |
|  |

# New Ballwin Road Bridge No. 349 (096B349) St. Louis County, MO



New Ballwin Road Bridge No. 349 St. Louis County Project No. CR-1773

27 (single span) 29 (single span) 32 Current Bridge Length (ft): Anticipated Bridge Length (ft):

Anticipated Out-to-out width:

|   | QUANTITY | UNIT     | UNIT PRICE  | ESTIMATED COST      | SUB-TOTAL |
|---|----------|----------|-------------|---------------------|-----------|
| Removal of Improvements                                   | 1        | Lump Sum | \$8,000     | \$8,000             |           |
| Land Disturbance Permits                                  | 1        | Lump Sum | \$1,000     | \$1,000             |           |
| Erosion Control & SWPPP                                   | 1        | Lump Sum | \$10,000    | \$10,000            |           |
|   |          |          |             | Earthwork           | \$19,000  |
| Type 5 Aggregate Base (4" Thick)                          | 360      | SY       | \$8         | \$2,880             |           |
| Type "C" Bituminous Concrete (Pavement)                   | 50       | Tons     | \$200       | \$10,000            |           |
| Type "X" Bituminous Concrete (Base)                       | 180      | Tons     | \$125       | \$22,500            |           |
| Tack-Emulsified Asphalt (SS-1H)                           | 40       | Gal.     | \$7         | \$280               |           |
| Prime-Liquid Asphalt (MC30)                               | 130      | Gal.     | \$10        | \$1,300             |           |
| Bridge Approach Slab (Bridge)                             | 156      | SY       | \$250       | \$39,000            |           |
| Concrete Approach Pavement                                | 213      | SY       | \$110       | \$23,430            |           |
| Class "A" Underdrain                                      | 76       | L.F.     | \$30        | \$2,280             |           |
| Bridge Anchor Section (Safety Barrier Curb)               | 4        | Each     | \$2,000     | \$8,000             |           |
| Crashworthy Guardrail Terminal                            | 4        | Each     | \$3,000     | \$12,000            |           |
| Heavy Stone Revetment                                     | 250      | S.Y.     | \$55        | \$13,750            |           |
| Standard Traffic Control Devices                          | 1        | Lump Sum | \$10,000    | \$10,000            |           |
| Temporary Pavement (to connect to temp. bridge)           | 1        | Lump Sum | \$25,000.00 | \$25,000            |           |
| Miscellaneous (5% of above)                               |          |          |             | \$8,600             |           |
|   |          |          |             | Roadway Work        | \$179,020 |
| Removal of Bridges  | 1        | Lump Sum | \$25,000    | \$25,000            |           |
| Class I Excavation  | 223      | C.Y.     | \$80        | \$17,840            |           |
| Structural Steel Piles (12 in.)                           | 700      | L.F.     | \$125       | \$87,500            |           |
| Dynamic Pile Testing                                      | 2        | Each     | \$2,500     | \$5,000             |           |
| Pre-Bore for Piling                                       | 700      | L.F.     | \$55        | \$38,500            |           |
| Pile Point Reinforcement                                  | 14       | Each     | \$130       | \$1,820             |           |
| Class "B" Concrete (Substructure)                         | 108      | C.Y.     | \$1,000     | \$108,000           |           |
| Safety Barrier Curb (Bridges, Cast-in-Place)              | 160      | L.F.     | \$135       | \$21,600            |           |
| Bridge Plaque   | 1        | Each     | \$1,000     | \$1,000             |           |
| Class B-2 Concrete (Superstructure on Concrete NU Girder) | 104      | C.Y.     | \$1,000     | \$104,000           |           |
| Laminated Neoprene Bearing Pads                           | 10       | Each     | \$350       | \$3,500             |           |
| Prestressed Concrete Members, NU Girders                  | 145      | L.F.     | \$250       | \$36,250            |           |
| Reinforcing Steel (Bridges)                               | 6,480    | Lbs.     | \$1.10      | \$7,128             |           |
| Reinforcing Steel (Epoxy-Coated) (Grade 60)               | 4,160    | Lbs.     | \$2.00      | \$8,320             |           |
| Vertical Drain at End Bents                               | 2        | Each     | \$2,600     | \$5,200             |           |
| Temporary Bridge  | 30       | L.F.     | \$4,000     | \$120,000           |           |
|   |          |          |             | Bridges (Vehicular) | \$590,658 |
| Detours   | 1        | Lump Sum | \$5,000     | \$5,000             |           |
| Misc. (Site Restoration)                                  | 1        | Lump Sum | \$10,000    | \$10,000            |           |
| Misc. (Mobilization, Office, etc.)                        |          |          |             | \$78,900            |           |
|   |          |          |             | Miscellaneous       | \$93,900  |
| TOTAL before contingencies                                |          |          |             |                     | \$882,578 |
| Contingencies (10% of above)                              |          |          |             | \$88,300            | \$88,300  |
| TOTAL with contingencies                                  |          |          |             |                     | \$970,878 |

Date: 9/5/2018

\$1,390,300

#### RIGHT-OF-WAY COSTS

| Appraised ROW  | \$60,000 | Utilities (Lump Sum)             | \$50,000  |
|--|----------|----------------------------------|-----------|
| Titles, Appraisals, Condemnation Costs @ 30%           | \$18,000 |                                  |           |
| Total  | \$78,000 | Construction Cost                | \$971,000 |
| (Includes 10% Contingency, Rounded to Nearest \$1,000) |          |                                  |           |
|  |          | Admin. Eng. & Const. Supv.       | \$145,650 |
|  |          | Survey & Design Engineering Cost | \$145,650 |
|  |          | Right-of-Way Cost                | \$78,000  |
|  |          | Environmental                    | \$0       |
|  |          | Railroad                         | \$0       |

**Total Cost** 



New Ballwin Road Bridge No. 096B349

Looking East



New Ballwin Road Bridge No. 096B349

Looking West



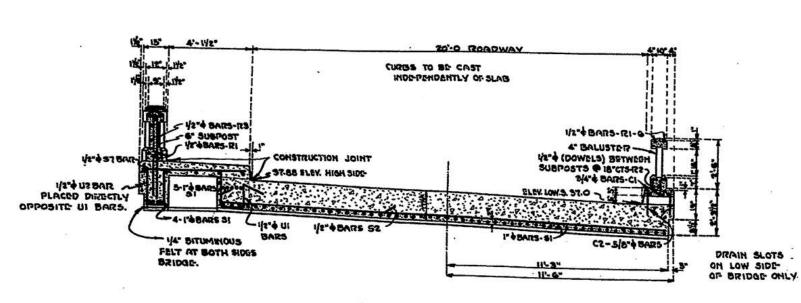
New Ballwin Road Bridge No. 096B349

Looking South



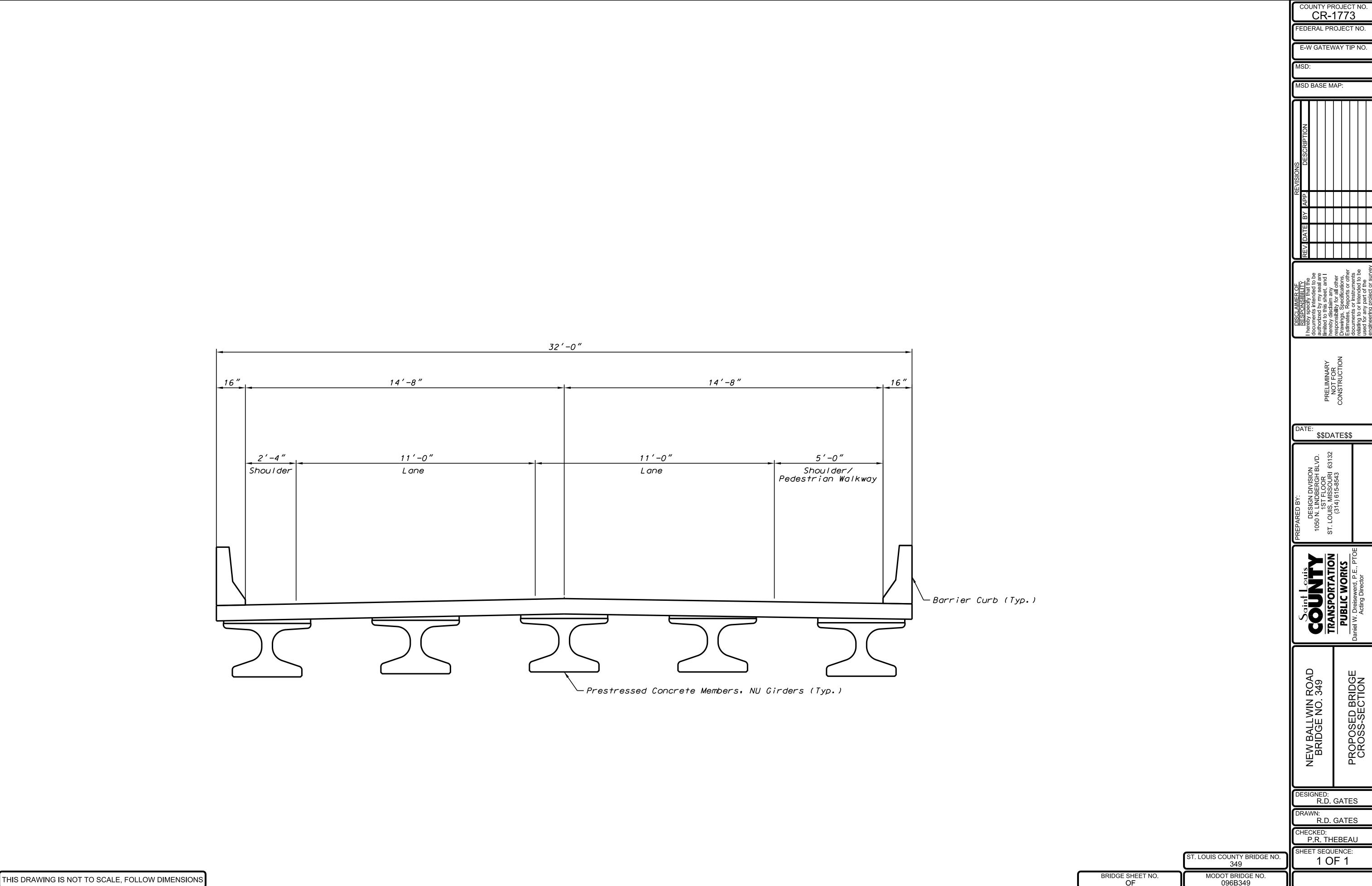
New Ballwin Road Bridge No. 096B349

Looking North



# SECTION AT ABUTMENT

St. Louis County, MO New Ballwin Road Bridge No. 096B349 Existing Bridge Cross Section



MODOT BRIDGE NO. 096B349





NONSTATBR 096B349 County: ST. LOUIS  $\textbf{District}: \ SL$ 15611 Class: Bridge: Federal ID:

GENERAL STRUCTURE INFORMATION

00000 P-LOAD POSTED W/RESTRICT [5D] Route: [41] Structure Status:

47450 **MERAMEC** S31 T45 R5 E [4] Place Code: [9] Location:

COUNTY KIEFER CR [22] Owner: [6] Features Intersected:

NEW BALLWIN RD ULOCAL [7] Facility Carried: [26] Functional Classification: 38 33 11.18 (DMS) COUNTY [16] Latitude: [21] Maintenance Responsibility:

90 33 6.33 (DMS) **4.89 MILES** [17] Longitude: [11] Milepoint:

AGE AND SERVICE - GEOMETRIC DATA - MATERIAL

[27] Year Built: [106] Year Reconstructed: 28 FT. [51] Bridge Width: 20 FT. 4.8 IN. [49] Structure Length: 20 FT. 0 IN. 26 FT. 0 IN. [32] Approach Roadway Width: [52] Deck Width:

[42B] Type of Service Under: WATERWAY [28A] Lanes On: 2 [19] Detour Length: [28B] Lanes Under: 123.38 MILES

1932

| COMPONENTS                                    | # SPANS | PRED | MATERIAL               | CONSTRUCTION |
|---|---------|------|------------------------|--------------|
| MAIN SERIES                                   | 1       | X    | REINFORCED CONCRETE    | SOLID SLAB   |
|   |         |      |                        |              |
| [107] Deck Type :                             |         |      | REINCONC               | CIP          |
| [108A] Wearing Surface:                       |         |      | ASPHALT                | BITUMSEAL    |
| [108B] Membrane :<br>[108C] Deck Protection : |         |      | NOTAPPLIC<br>Notapplic | NONE<br>NONE |

#### AADT INFORMATION

[29] AADT on Structure: 772 [30] Year: 2018 [109] AADT Truck:

[114] Future AADT: 1,235 [115] Year: 2038 [102] Direction of Traffic: 2-WAY TRAFFIC

#### STRUCTURE POSTING

FIELD POSTING Problem Code: Problem Direction Code:

Category: S-15 TRUCK WEIGHT LIMIT 40 TONS EXCEPT SINGLE UNIT TANDEM REAR AXLE TRUCKS 22 TONS WEIGHT LIMIT

22 40 Ton 1: Ton 2:

#### APPROVED POSTING

S-15 TRUCK WEIGHT LIMIT 40 TONS EXCEPT SINGLE UNIT TANDEM REAR AXLE TRUCKS 22 TONS WEIGHT LIMIT Category:

Ton 1: Ton 2: Ton 3:

#### COMPUTER GENERATED DEFICIENCY AND EVALUATION ITEMS

NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.

| Rated Item                             | Rating                    | Rating Date |
|--|---------------------------|-------------|
| [Item 67] Structure Evaluation Rating: | 5-BETTER THAN MINIMUM     | 8/8/2002    |
| [Item 68] Deck Geometry Rating:        | 3-BASICALLY INTOL CORRECT | 6/30/2008   |
| [Item 69] Underclearance:              | N-NOT APPLICABLE          | 3/1/2002    |
| Sufficiency Rating:                    | 41.0 %                    | 5/23/2012   |
| Deficiency:                            | FUNCTIONAL                | 8/8/2002    |
| Funding Eligibility:                   | FULL                      | 1/18/2018   |
| Estimated New Structure Length:        | 49 FT.                    | 1/18/2018   |
| <b>Estimated Structure Cost:</b>       | \$161,670                 | 1/18/2018   |
| <b>Estimated Total Project Cost:</b>   | \$242,505                 | 1/18/2018   |
| Year of Cost Estimate:                 | 2018                      | 1/18/2018   |

NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.



August 20, 2018 9:59:17am

County: ST. LOUIS District: SL Class: NONSTATBR Bridge: 096B349 Federal ID: 15611

\*\*\*\*STRUCTURE GENERAL INSPECTION\*\*\*\*

|90| Inspection Type: GENERAL |91| Designated Frequency: 24 Inspection Responsibility:
| Inspection Date: 1/25/2018 | \*\* Calculated Frequency: 11 | Element Inspection Required: NO

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

**General Inspection Comments** 

InspectorTeam LeaderOrganizationTOBY KEMPERXSAINT LOUIS COUNTYSCOTT R. NORRISSAINT LOUIS COUNTY

\*\*\*\*UNDERWATER INSPECTION\*\*\*\*

Inspection Category: DRY [92B] Designated Frequency: 60 Inspection Responsibility:

Inspection Date: 1/25/2018 \*\*Calculated Frequency: 23 NBI: NO

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

**Underwater Inspection Comments** 

InspectorTeam LeaderOrganizationTOBY KEMPERXSAINT LOUIS COUNTYSCOTT R. NORRISSAINT LOUIS COUNTY

\*\*\*\*SPECIAL INSPECTION\*\*\*\*

Inspection Category: CHANNEL CROSS SECTIONS [92C] Designated Frequency: 72 Inspection Responsibility:

Inspection Date: 8/4/2014 \*\*Calculated Frequency: NBI: NO

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

**Special Inspection Comments** 

InspectorTeam LeaderOrganizationDANIEL R VALLEYSAINT LOUIS COUNTYJAMES B.W. CARR (NTLQ)SAINT LOUIS COUNTY

\*\*\*\*OTHER SPECIAL INSPECTIONS\*\*\*\*

Category Frequency Calculated Frequency\*\* Date Inspection Responsibility NBI

\*\* If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.



August 20, 2018 9:59:17am

County: ST. LOUIS District: SL Class: NONSTATBR Bridge: 096B349 Federal ID: 15611

### \*\*\*\*GENERAL COMMENTS AND CONDITION RATINGS\*\*\*\*

#### **General Comments:**

(LIVINR1, 05/12/2008)--A SINGLE SPAN REINFORCED CONCRETE SLAB STRUCTURE ON FULL HEIGHT GRAVITY REINFORCED CONCRETE ABUTMENT ON SPREAD FOOTING.

[Item 58]--Deck Condition Rating:

5-FAIR CONDITION

Rating Date: 05/02/2012

**Deck Rating Comments** 

(MOBSLCO, 06/28/2018)--TOPSIDE: HEAVY RUTTING; 2 PATCHED POTHOLES ARE HOLDING, BUT ONE HAS A LARGE CRACK THROUGH THE CENTER; SEVERAL SPALLS ALONG TOP EDGE OF CURB ON WEST SIDE.

[Item 59]--Superstructure Condition Rating:

5-FAIR CONDITION Rating Date: 05/02/2012

Superstructure Rating Comments

(MOBSLCO, 06/28/2018)--MAP CRACKING ALONG WESTERN EDGE OF SLAB UNDER CURB LINE WITH HEAVY EFFLORESCENCE AND RUST ABOUT FOUR FOOT WIDE ON SOUTH SIDE TO ABUTMENT AND ONE FOOT WIDE ON NORTH SIDE. LARGE SPALL ALONG DECK EDGE AT NE CORNER WITH TWO EXPOSED BARS. EFFLORESCENCE ALONG REST OF EAST EDGE AT JOINT OF FULL LENGTH PATCH. LONGITUDINAL CRACK AT CENTER FROM NORTH ABUTMENT FULL LENGTH.

[Item 60]--Substructure Condition Rating:

5-FAIR CONDITION

Rating Date: 02/21/2014

**Compass Direction:** 

Substructure Rating Comments

(MOBSLCO, 06/28/2018)--LARGE VERTICAL FULL HEIGHT CRACK AT CENTER OF SOUTH ABUTMENT. SEPARATION OF BEARING AT WEST SIDE OF CRACK. DIAGONAL CRACKS IN SOUTH ABUTMENT AT TOP HALF OF STEM NEAR EACH WING WALL. DIAGONAL CRACKS AT TOP OF NE WING WALL WITH EFFLORESCENCE. DIAGONAL CRACK AT NW WING WALL. EFFLORESCENCE ON SOUTH ABUTMENT UNDER MAP CRACKS NEAR WEST EDGE. HAIRLINE VERTICAL CRACK IN NORTH ABUTMENT. FOOTING IS EXPOSED. NO UNDERMINING.

[Item 61]--Channel Condition Rating:

5-MAJOR DAMAGE Rating Date: 02/21/2014

Rating Comments

(CARRJ3, 02/21/2014)--POOR ALIGNMENT UPSTREAM; WATER FLOWS UP AGAINST SOUTH ABUTMENT; HEAVY VEGETATION AND SEDIMENT ON NORTH SIDE.

[Item 62]--Culvert Condition Rating:

N-NOT APPLICABLE

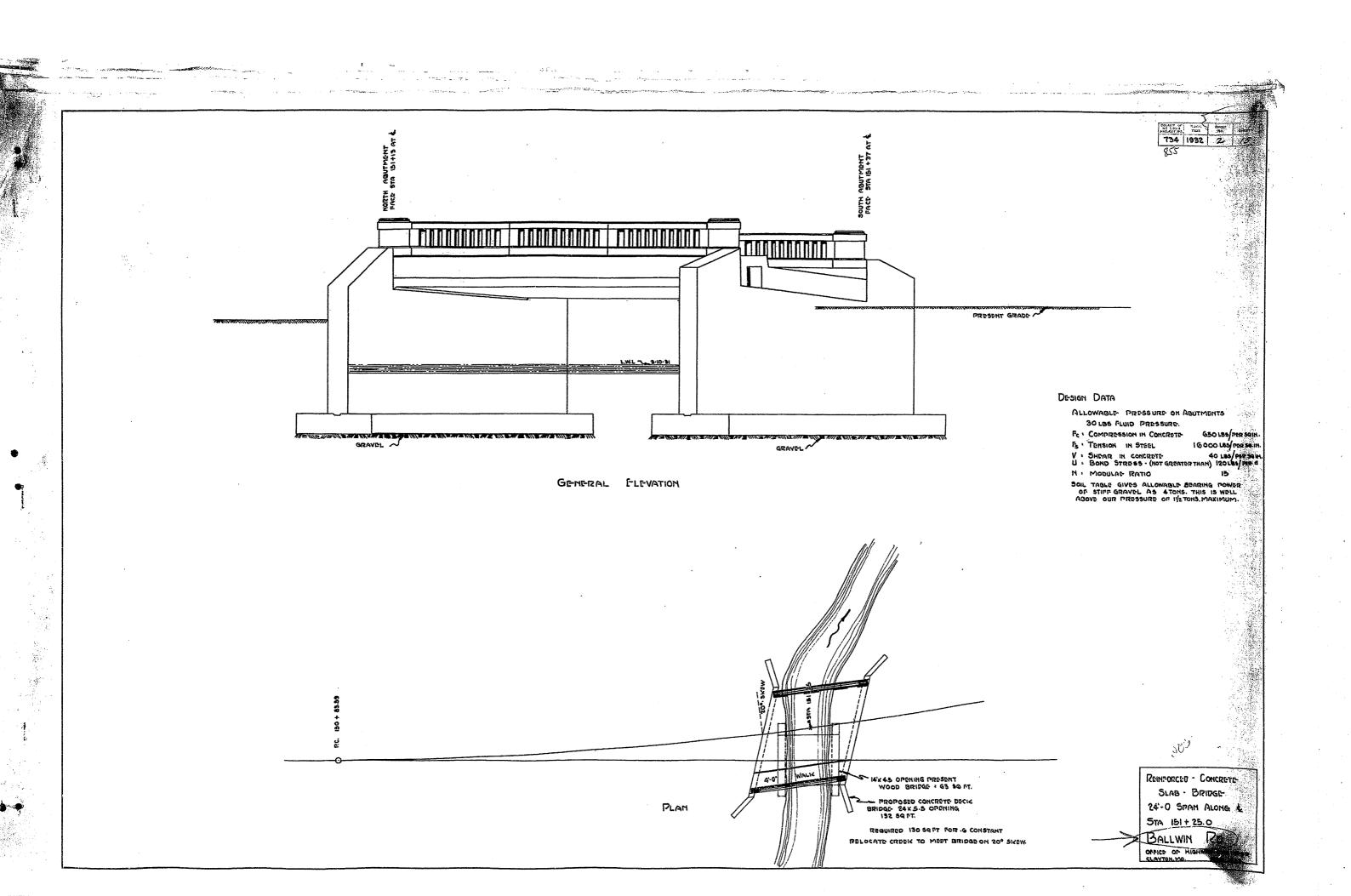
**Rating Date:** 03/01/2002

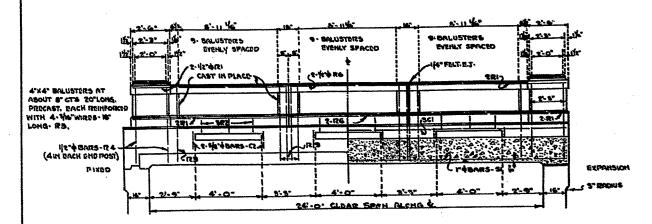
Rating Comments



August 20, 2018 9:59:17am

County: ST. LOUIS NONSTATBR 096B349 15611 District: SL Bridge: Class: Federal ID: \*\*\*\*APPRAISAL RATINGS\*\*\*\* DOESNT MEET CURRNT STND-0 **Rating Date:** 03/28/2006 [Item 36A]--Bridge Railing Appraisal: **Rating Comments** DOESNT MEET CURRNT STND-0 **Rating Date:** 03/28/2006 [Item 36B]--Transition Railing Appraisal: **Rating Comments** DOESNT MEET CURRNT STND-0 **Rating Date:** 03/28/2006 [Item 36C]--Approach Railing Appraisal: **Rating Comments** DOESNT MEET CURRNT STND-0 **Rating Date:** 03/28/2006 [Item 36D]--Rail End Treatment Appraisal: Rating Comments DECK/APPRCH OVERTOP SLIGT [Item 71]--Waterway Adequacy: **Rating Date:** 03/01/2002 **Rating Comments** 6-SATISFACTORY **Rating Date:** 08/08/2002 [Item 72]--Approach Roadway Alignment: **Rating Comments** (HOLZBJ, 08/08/2002)--MINOR REDUCTION IN SAFE OPERATING SPEED DUE TO HORIZONTAL ALIGNMENT. 5-FOUNDATION STABLE **Rating Date:** 3/1/2002 [Item 113]--Scour Assessment: **Type of Scour Evaluation:** <u>Rating Comments</u> (LIVINR1, 05/12/2008)--FOOTING EXPOSED ALL ALONG SOUTH ABUTMENT. FOUNDATION STABLE. (LIVINR1, 05/12/2008)--SCOUR ALONG FOOTING OF SOUTH ABUTMENT AND SOUTHWEST WINGWALL. **Work Comments:** 

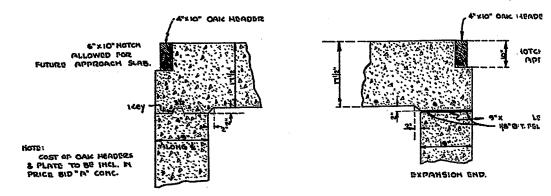




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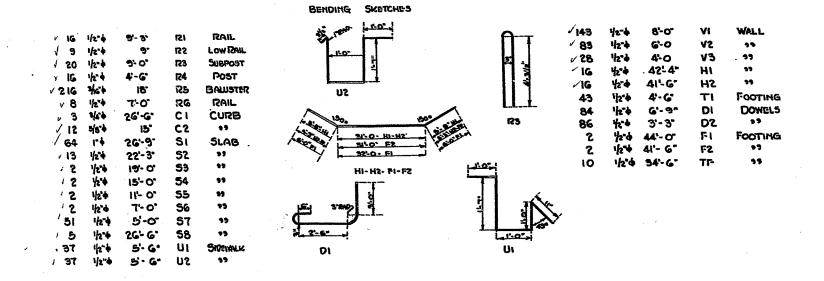
SECTION ALONG LOW. SIDE-



PIXED END

DETAILS OF NOTCH FOR FUTURE APPROACH
SLAB AND BEARINGS.

# BILL OF REINFORCING STEEL



| TOTAL ES          | TAMATED        | TITHAUD        | 1175 |
|-------------------|----------------|----------------|------|
| ITEMS.            | SUPERSTRUCTURE | SUBSTRUCTURE   | 10   |
| CLASS"A" CONCRUTE | 40.700.409.    |                | 4    |
| -3.               |                | @4.02 CT:402   | _    |
| -X-               | 3.1 CU.YP3.    |                |      |
| REINFORCING STORL | 2811.04        | 6056.0#        | 35   |
| HOITAVANATION     |                | 245cu.405      |      |
| Снанны снансь     | (SEE COMMON EX | CAVATION STEM! | 7_   |

COST OF LEAD PLATES - BIT. JOINTS - CAIC FE. TO BE INCL. IN PRICE BID "A" CONC.

