

IOWA DEPARTMENT OF NATURAL RESOURCES (DNR)

REQUEST FOR PROPOSAL - INFORMAL

RFP COVER SHEET

Administrative Information:

TITLE OF RFP: Hill Road Bridge Replacement **RFP Number:** 24CRDLWBWSCHU-0001

Bureau: Land, Waters and Engineering

Engineering services from a qualified engineering consulting firm for the design for a bridge replacement project on Hill Road at Volga River State Recreation Area.

The selected firm will prepare final designs, including drawings, specifications and cost estimates. The firm will be responsible for coordinating the process with DNR staff, obtain all permits, perform needed survey (including any necessary archaeological and wetland delineation), prepare bid documents, develop addenda, answer pre-bid questions, conduct one onsite preconstruction meeting, conduct onsite construction inspection at critical construction milestones, and will also be retained during construction for any clarification from the DNR Field Engineer by phone. The bid information, addenda, drawings and specifications will be distributed by the DNR.

DNR seeks to purchase: specifications will be distributed by the DNR.

Number of mos. or yrs. of the initial term of the contract: 21 Months **Number of possible annual extensions:** 0

Tentative Contract term start date: April 1, 2024 **Tentative Contract term end date:** September 30, 2025

DNR Issuing Officer: Whitney Schuhardt

515-250-3617 , whitney.schuhardt@dnr.iowa.gov

502 E 9th St

Des Moines, IA 50319

PROCUREMENT TIMETABLE—Event or Action: **Date/Time (Central Time):**

DNR Posts Notice of RFP on TSB website December 13, 2023, 11:00am

DNR Issues RFP December 15, 2023, 11:00am

RFP written questions, requests for clarification, and suggested changes from Respondents are due: Date: January 10, 2024

DNR's written response to RFP questions, requests for clarifications, and suggested changes are due: Date: January 12, 2024

Proposals Due Date: January 19, 2024

Proposals Due Time: 11:00am

Anticipated Date to Issue Notice of Intent to Award: March 15, 2024

Anticipated Date to Execute Contract: April 1, 2024

Relevant Websites: **Web-address:**

Internet website where Addenda to this RFP will be posted: <http://bidopportunities.iowa.gov/>

Internet website where contract terms and conditions are posted: <https://das.iowa.gov/sites/default/files/procurement/pdf/050116%20terms%20services.pdf>
<https://das.iowa.gov/sites/default/files/procurement/pdf/050116%20terms%20goods.pdf>
<http://iowadnr.gov/About-DNR/RFP-Bid-Lettings>

SECTION 1 INTRODUCTION

1.1 Purpose

The purpose of this Informal Request for Proposals (RFP) is to solicit proposals from Responsible Respondents to provide the goods and/or services identified on the RFP cover sheet and further described in Section 4 of this RFP.

The DNR tentatively intends to award a Contract(s) beginning and ending on the dates listed on the RFP cover sheet, and the DNR, in its sole discretion, may extend the Contract(s) for up to the number of annual extensions identified on the RFP cover sheet.

“Responsible Respondent” means a Respondent that has the capability in all material respects to perform the scope of work and specifications of the Contract. In determining whether a Respondent is a Responsible Respondent, the DNR may consider various factors including, but not limited to, the Respondent’s competence and qualifications to provide the goods or services requested, the Respondent’s integrity and reliability, the past performance of the Respondent and the best interest of the DNR.

“Responsive Proposal” means a Proposal that complies with the material provisions of this RFP.

1.2 Overview of the RFP Process

This RFP is designed to provide Respondents with the information necessary for the preparation of competitive Proposals. The RFP process is for the DNR’s benefit and is intended to provide the DNR with competitive information to assist in the selection process. It is not intended to be comprehensive. Each Respondent is responsible for determining all factors necessary for submission of a comprehensive Proposal.

Respondents will be required to submit their Proposals in written format by hand delivery, hard copy mail, fax or e-mail to the Issuing Officer. It is the DNR’s intention to evaluate Proposals from all Respondents that submit timely Responsive Proposals, and award the Contract(s) in accordance with Section 5, Evaluation and Selection.

1.3 Background Information

Volga River State Recreation Area in scenic northeast Iowa is often referred to as “Little Switzerland” because of its rugged topography. Old steel bridges cross the Volga River and striking rock formations, prairie areas and natural woodlands characterize the 5,700-acre area. A variety of wildlife, including deer, red fox and beavers are often spotted in the park, which is open to public hunting during hunting season.

The bridge is located on Hill Road north of the Albany Equestrian Campground.

SECTION 2 ADMINISTRATIVE INFORMATION

2.1 Issuing Officer

The Issuing Officer identified in the RFP cover sheet is the sole point of contact regarding the RFP from the date of issuance until a Notice of Intent to Award the Contract is issued.

2.2 Restriction on Communication

From the issuance date of this RFP until a Notice of Intent to Award the Contract is issued, Respondents may contact only the Issuing Officer. The Issuing Officer will respond only to written questions regarding the procurement process. Questions related to the interpretation of this RFP must be submitted as provided in Section 2.3. Oral questions related to the interpretation of this RFP will not be accepted. Respondents may be disqualified if they contact any DNR employee other than the Issuing Officer.

2.3 Questions, Requests for Clarification, and Suggested Changes

Respondents are invited to submit written questions and requests for clarifications regarding the RFP. Respondents may also submit suggestions for changes to the specifications of this RFP. The questions, requests for clarifications, or suggestions must be in writing and received by the Issuing Officer on or before the date and time listed on the RFP cover sheet. Oral questions will not be permitted. If the questions, requests for clarifications, or suggestions pertain to a specific section of the RFP, Respondent will reference the page and section number(s). The DNR will send written responses to questions, requests for clarifications, or suggestions received from Respondents on or before the date listed on the RFP cover sheet. The DNR’s written responses will become an addendum to the RFP. If the DNR decides to adopt a suggestion that modifies the RFP, the DNR will issue an addendum to the RFP.

The DNR assumes no responsibility for oral representations made by its officers or employees unless such representations are confirmed in writing and incorporated into the RFP through an addendum.

2.4 Amendment to the RFP

The DNR reserves the right to amend the RFP at any time using an addendum. The Respondent will acknowledge receipt of all addenda in its Proposal. If the DNR issues an addendum after the due date for receipt of Proposals, the DNR may, in its sole discretion, allow Respondents to amend their Proposals in response to the addendum.

2.5 Submission of Proposals

The DNR must receive the Proposal in written format by hand delivery, fax, hard copy mail, or email at the Issuing Officer's address, fax number, or email identified on the RFP cover sheet before the "Proposals Due" date and time listed on the RFP cover sheet. **This is a mandatory specification and will not be waived by the DNR. Any Proposal received after this deadline will not be considered.** Respondents who hard copy mail proposals must allow ample mail delivery time to ensure timely receipt of their proposals. It is the Respondent's responsibility to ensure that the proposal is received by the DNR Issuing Officer prior to due date and time. Postmarking by the due date will not substitute for actual receipt of the proposal.

Respondents must furnish all information necessary to enable the DNR to evaluate the Proposal. Oral information provided by the Respondent will not be considered part of the Respondent's Proposal unless it is reduced to writing.

2.6 Costs of Preparing the Proposal

The costs of preparation and delivery of the Proposal are solely the responsibility of the Respondent.

2.7 No Commitment to Contract

The DNR reserves the right to reject any or all Proposals received in response to this RFP, cancel this RFP, or advertise a new RFP at any time prior to the execution of the Contract. Issuance of this RFP in no way constitutes a commitment by the DNR to award a contract.

2.8 Nonmaterial Variances

The DNR reserves the right to determine whether a Bid substantially complies with the requirements of this RFP. Nonmaterial variances are not necessarily disqualifying. The determination of materiality is in the sole discretion of the DNR.

2.9 Public Records and Requests for Confidential Treatment

You may request confidential treatment of specific information included in your proposal submitted in response to this RFP. Requesting confidential treatment of any item of information does not necessarily mean that confidential treatment will be granted.

You must provide a copy of your proposal where you have deleted the information for which confidential treatment is requested. The confidential status of the deleted information is not established until DNR has made a determination that it is appropriate to allow confidential treatment for the specific document containing that item of information.

In order to request confidential treatment, you must comply with the provisions of 561 Iowa Administrative Code Chapter 2, which may be found at the following location:

<https://www.legis.iowa.gov/law/administrativeRules/agencies>. 561 Iowa Administrative Code Section 2.5(7) provides that all claims for confidential treatment made to the Iowa Department of Natural Resources must be substantiated in writing with the following information:

- 1) A statement of all measures the business has taken to protect the confidentiality of the information, and a statement of intent to continue to take such measures;
- 2) Practices and policies of other businesses, if known, regarding confidentiality of similar information;
- 3) A statement that the information is not, and has not been, reasonably attainable without the consent of the

business by other persons other than government bodies by use of legitimate means;

- 4) A statement demonstrating that disclosure of the information is likely to cause substantial harm to the business's competitive position; and
- 5) A reference to any other determinations of confidential status of the information or similar information.

2.10 Release of Claims

By submitting a Proposal, the Respondent agrees that it will not bring any claim or cause of action against the DNR based on any misunderstanding concerning the information provided in the RFP or concerning the DNR's failure, negligent or otherwise, to provide the Respondent with pertinent information in this RFP.

2.11 Evaluation of Proposals Submitted

Proposals that are timely submitted and are not rejected will be reviewed and evaluated in accordance with Section 5 of the RFP. The DNR will not necessarily award a Contract resulting from this RFP to the Respondent offering the lowest cost. Instead, the DNR will award the Contract(s) to the Responsible Respondent(s) whose Responsive Proposal the DNR believes will provide the best value to the DNR.

2.12 Award Notice and Acceptance Period

Notice of Intent to Award the Contract(s) will be sent to all Respondents submitting a timely Proposal and may be posted to the website shown on the RFP cover sheet. Negotiation and execution of the Contract(s) will be completed no later than thirty (30) days from the date of the Notice of Intent to Award or such other time as designated by DNR. If the successful Respondent fails to negotiate and deliver an executed Contract by that date, the DNR, in its sole discretion, may cancel the award and award the Contract to the remaining Respondent the DNR believes will provide the best value to the DNR.

2.13 No Contract Rights until Execution

Respondent will not acquire any legal or equitable rights regarding the Contract unless and until the Contract has been fully executed by the successful Respondent and the DNR.

SECTION 3 FORM AND CONTENT OF PROPOSALS

3.1 Instructions

These instructions prescribe the required format and content of the Proposal. They are designed to facilitate a uniform review process. The Proposal will be typewritten and divided into two parts: (1) the Technical Proposal and (2) the Cost Proposal.

- 3.1.1** If a Respondent proposes more than one solution to the RFP specifications, each will be labeled and submitted in a separate Proposal and each will be evaluated separately.

3.2 Technical Proposal

The following Respondent information will be included in the Technical Proposals. Items listed in Section 3.2 will be considered in the evaluation and scoring of the Technical Proposals:

- 3.2.1 Executive Summary** The Respondent will prepare an executive summary and overview of the goods and/or services it is offering, including all of the following information:

- 3.2.1.1** Statements that demonstrate that the Respondent has read, understands and agrees with the Terms and Conditions of the RFP including the Contract provisions in Section 6.

- 3.2.1.2** An overview of the Respondent's plans for complying with the Specifications of this RFP.

- 3.2.1.3** Any other summary information the Respondent deems to be pertinent.

3.2.2 Experience

The Respondent must provide the following information regarding its experience:

- 3.2.2.1** Number of years in business.
- 3.2.2.2** Number of years of experience with providing the types of goods and/or services sought by the RFP.
- 3.2.2.3** The level of technical experience in providing the types of goods and/or services sought by the RFP.

3.3 Cost Proposal

The Respondent will provide its Cost Proposal with the proposal for the proposed goods and services using Attachment #5 – Cost Proposal.

SECTION 4 DESCRIPTION OF WORK AND SCOPE OF WORK

Overview

The successful Respondent will provide the services to the DNR in accordance with the requirements as provided in this Scope of Work.

4.1 Statement of Work

The recreation area's development began in the late 1960s when the Iowa Conservation Commission selected Volga River as one of three sites as part of the large lake initiative with the goal of creating more water-related recreation opportunities for Iowans. The bridge is located on Hill road north of the equestrian campground and was constructed in the late 1950s. The current condition of the bridge can be seen in Attachment #7.

This bridge is used by heavy vehicles with trailers and farm equipment. The 18'x24' Precast Concrete Bridge needs to be replaced due to observed structural deficiencies. The original plans can be seen in Attachment #8.

Respondent is to provide a complete design for a replacement. The replacement is not limited to a bridge design, but should have a minimum design service life of 75 years. Construction staking will be the responsibility of the construction contractor.

Tree Removal must occur between October 1st and March 31st in accordance with the guidance for threatened and endangered bat species. Bridge demolition may not occur prior for June 15th to accommodate spring planting season and construction must be complete prior to September 15th for fall harvest unless single lane traffic access is available.

The Respondent shall meet on-site with the DNR to establish goals, objectives, and standards including but not limited to expectations, regulatory requirements, timelines, and communication protocols.

The Respondent shall perform needed surveys, which may include topographic, archaeological, or wetland surveys. Respondent shall submit 50% complete preliminary drawings showing the basic infrastructure layout in accordance with the state standards and the opinion of probable cost to the DNR. The Respondent shall schedule an in-person review meeting to go over plans, schedule, and estimated cost. DNR shall provide any comments within five (5) business days of receipt, which the Respondent shall incorporate or address in the 90% drawings.

The Respondent shall prepare applications and apply for construction permits as an agent of the DNR as necessary, including without limitation clearances required by the sovereign lands construction permits, archeological clearances, state flood plain permits, and US Army Corp Section 404 permits.

The Respondent shall submit electronic copies of 80% complete design including drawings, technical specifications, and opinion of probable cost to DNR. Meet with DNR within five (5) business days of Respondent submitting the 80% complete design. DNR shall provide its review and comments to Respondent not more than five (5) business days from this meeting.

The Respondent shall incorporate DNR's comments into the final version of the design contract documents. Deliver one electronic PDF format copy and one electronic DGN file format copy of the Contract Documents. This final submission shall be signed and sealed, suitable for permitting and bidding. The final design shall include detailed calculations, as appropriate. A final opinion of probable cost shall be included.

The Respondent shall develop addenda and answer questions from potential bidders.

The bid information, addenda and drawings and specifications will be printed and distributed by the DNR.

The Respondent shall assist DNR during the bidding phase in answering technical questions about the plans and specifications developed by the Respondent upon request of the DNR.

Provide clarification on plans and specifications, if necessary and directed by DNR, during the bidding and construction phase of the Project. Nothing in this Task shall relieve the obligation of the Respondent to modify plans and specifications at no additional cost to the DNR to overcome any errors or omissions unknown at the final review but that may become evident thereafter, consistent with the warranties and representations provisions of the contract.

Provide construction oversight and inspection assistance. Respondent shall attend one onsite pre-construction meeting hosted by the DNR with the selected construction contractor. For dates the Respondent is on site, the Respondent shall keep a daily job report and electronic photos of construction activities. Respondent shall provide the DNR with an electronic copy of all daily job reports and construction photos. In addition, the Respondent may be required to provide telephone consultation during construction for project oversight and review shop drawings for the Project.

Statement of Work. Contractor will perform the following Tasks by the Task Milestone Dates identified in the following table:

Deliverables	Task Milestone Date
Task 1: Kickoff Meeting Description: The respondent shall meet on-site with the DNR to establish goals, objectives, and standards including but not limited to expectations, regulatory requirements, timelines, and communication protocols.	No later than April 14, 2024
Task 2: 50% Design Review Description: The respondent shall perform needed surveys, which may include topographic, archaeological, or wetland surveys. Respondent shall submit 50% complete preliminary drawings showing the basic infrastructure layout in accordance with the state standards and the opinion of probable cost to the DNR. The respondent shall schedule an in-person review meeting to go over plans, schedule, and estimated cost. DNR shall provide any comments within five business days of receipt, which the respondent shall incorporate or address in the 90% drawings.	No later than May 13, 2024
Task 3: Apply for Permits Description: The respondent shall prepare applications and apply for construction permits as necessary, including without limitation clearances, state flood plain permits, and US Army Corp Section 404 permits.	No later than July 3, 2024
Task 4: 80% Construction Bidding Documents Description: The Respondent shall submit electronic copies of 80% complete design including drawings, technical specifications, and opinion of probable cost to DNR. Meet with DNR within five (5) business days of Respondent submitting the 80% complete design. DNR shall provide its review and comments to Respondent not more than five (5) business days from this meeting.	No later than July 3, 2024
Task 5: 100% Construction Bidding Documents Description: The Respondent shall incorporate DNR's comments into the final version of the design contract documents. Deliver one electronic PDF format copy and one electronic DGN	No later than September 3, 2024

file format copy of the Contract Documents. This final submission shall be signed and sealed, suitable for permitting and bidding. The final design shall include detailed calculations, as appropriate. A final opinion of probable cost shall be included.	
Task 6: Project Bidding Description: The Respondent shall develop addenda and answer questions from potential bidders.	No later than October 24, 2024
Task 7: Construction Administration Description: The Respondent shall assist DNR during the bidding phase in answering technical questions about the plans and specifications developed by the Respondent upon request of the DNR. Provide clarification on plans and specifications, if necessary and directed by DNR, during the bidding and construction phase of the Project. Nothing in this Task shall relieve the obligation of the Respondent to modify plans and specifications at no additional cost to the DNR to overcome any errors or omissions unknown at the final review but that may become evident thereafter, consistent with the warranties and representations provisions of the contract. Provide construction oversight and inspection assistance. Respondent shall attend one onsite pre-construction meeting hosted by the DNR with the selected construction contractor. For dates the Respondent is on site, the Respondent shall keep a daily job report and electronic photos of construction activities. Respondent shall provide the DNR with an electronic copy of all daily job reports and construction photos. In addition, the Respondent may be required to provide telephone consultation during construction for project oversight and review shop drawings for the project.	No later than December 14, 2024

4.2 Respondent Requirements Engineer licensed in the State of Iowa.

SECTION 5 EVALUATION AND SELECTION

5.1 Introduction

This section describes the evaluation process that will be used to determine which Proposal(s) provides the greatest benefit to the DNR. DNR will not necessarily award the Contract to the Respondent offering the lowest cost to the DNR. Instead, the DNR will award to the Respondent whose Responsive Proposal the DNR believes will provide the best value to the DNR.

5.2 Evaluation Committee

The DNR will conduct a comprehensive, fair, and impartial evaluation of Proposals received in response to this RFP. The DNR will use an Evaluation Committee to review and evaluate the Technical Proposals. The DNR Evaluation Committee will make its technical recommendation using the following technical criteria, which are listed in no particular order:

- a. Cost;
- b. Technical Expertise. The experience of the Respondent's key individual(s) assigned to complete responsibilities described in the Statement of Work;
- c. Past Performance. Respondent's professional experience and performance record; including three Letter(s) of Reference. Respondent's actual examples of previous or current work similar to the goods and/services sought in the Statement of Work;
- d. Capacity: The capacity of the Respondent and Project Team to complete responsibilities described in the Statement of Work; including, the Respondent's proposed implementation timeline to complete responsibilities described in the Statement of Work;
- e. Work Plan: Compliance and thoroughness of Respondent's response to the RFP Technical Proposal. Respondent's work plan to complete responsibilities described in the Statement of Work.

SECTION 6 CONTRACT TERMS AND CONDITIONS

6.1 Contract Terms and Conditions

By submitting a response, each Respondent acknowledges its acceptance of the Terms and Conditions of the contract template “DNR Standard Contract Conditions” and “General Conditions” found at <http://www.iowadnr.gov/About-DNR/RFP-Bid-Lettings>.

If a Respondent takes exception to a contract provision, then the Respondent must state the specific exception and the reason for the exception, and must attach to its “Respondent Cost Proposal” the specific contract language it proposes to include as an alternative to the provision. Contract provision exceptions that materially change the terms or the requirements of this informal bidding process may be deemed non-responsive by the DNR, as determined in its sole discretion, resulting in possible disqualification of the Respondent’s quote. With regard to the “DNR Standard Contract Conditions,” DNR and the successful Respondent may agree to modifications to the terms of the “DNR Standard Contract Conditions” as necessary to negotiate the terms of a contract. A Respondent’s failure to state an exception to any contract provision and propose alternative language may be deemed by the DNR to constitute the Respondent’s acceptance thereof. The DNR reserves the right to refuse to enter into a contract with the successful Respondent for any reason, even after delivery of the Intent to Award a Contract.

6.2 Contract Length

The term of the Contract will tentatively begin and end on the dates indicated on the RFP cover sheet.

The DNR will have the sole option to amend the contract resulting from this Informal RFP for subsequent periods, adding up to no more than six years total from the beginning date of the original contract, by executing a signed amendment prior to the expiration of the original contract.

6.3 Insurance (optional, delete this section if not needed)

The Contract will require the successful Respondent to maintain insurance coverage(s) in accordance with the insurance provisions of the General Terms and Conditions and of the type and in the minimum amounts set forth below, unless otherwise required by the DNR.

TYPE OF INSURANCE	LIMIT	AMOUNT
General Liability (including contractual liability) written on an occurrence basis	General Aggregate Products -	\$2 million
	Comp/Op Aggregate	\$1 Million
	Personal injury	\$1 Million
	Each Occurrence	\$1 Million
Automobile Liability (including contractual liability) written on an occurrence basis	Combined single limit	\$1 Million
Property Damage	Each Occurrence	\$1 Million
	Aggregate	\$1 Million
Workers Compensation and Employer Liability	As Required by Iowa law	As required by Iowa law

The Contractor is required to submit a Certificate of Insurance, which indicates coverage and notice provisions as required. The Insurer will state in the certificate that no cancellation of the insurance may be made without at least thirty (30) days written notice to the DNR. Acceptance of the insurance certificates by the DNR will not act to relieve the Contractor of any obligation under this Contract. It will be the responsibility of Contractor to keep the respective insurance policies and coverages current and in force during the life of this Contract. Contractor will be responsible for all premiums, deductibles, and for any inadequacy, absence or limitation of coverage. The Contractor will have no claim or other recourse against the DNR for any costs or loss attributable to any of the foregoing, all of which will be borne solely by the Contractor. Notwithstanding any other provision of this

Contract, Contractor will be fully responsible and liable for meeting and fulfilling all of its obligations under this section of the Contract.

ATTACHMENT #5 - COST PROPOSAL**Payment Terms**

Per *Iowa Code § 8A.514* the DNR of Iowa is allowed sixty (60) days to pay an invoice submitted by a vendor.

What discount will you give for payment in 15 days?

What discount will you give for payment in 30 days?

Cost Proposal

Respondent's Cost Proposal will include an all-inclusive, itemized, total cost in U.S. Dollars (including all travel, expenses, etc. in prices). All pricing to be FOB Destination, freight cost and all expenses included; and based on Net 60 Days Payment Terms. The following template is required. Please use additional pages to provide any additional narrative support for the costing information.

Task (should match task in Section 4- SOW)	Cost	Time Frame	Total Costs
Task 1: Kickoff Meeting	Total Hours _____ \$ _____ / hour _____	No later than April 14, 2024	\$
Task 2: 50% Design Review	Total Hours _____ \$ _____ / hour _____	No later than May 13, 2024	\$
Task 3: Apply for Permits	Total Hours _____ \$ _____ / hour _____	No later than July 3, 2024	\$
Task 4: 80% Construction Bidding Documents	Total Hours _____ \$ _____ / hour _____	No later than July 3, 2024	\$
Task 5: 100% Construction Bidding Documents	Total Hours _____ \$ _____ / hour _____	No later than September 3, 2024	\$
Task 6: Project Bidding	Total Hours _____ \$ _____ / hour _____	No later than October 24, 2024	\$
Task 7: Construction Administration	Total Hours _____ \$ _____ / hour _____	No later than December 14, 2024	\$
Grand Total Quote			\$

Signature: _____

Date: _____

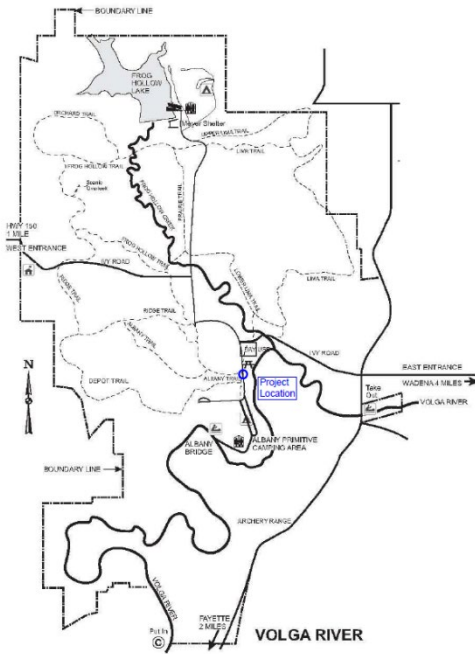
Printed Name and Title: _____

Name of Contractor Organization: _____

Address: _____

Phone: _____ E-mail: _____

ATTACHMENT #6 – PROJECT LOCATION MAPS



ATTACHMENT #7 – EXISTING STRUCTURE PHOTOS



Form 1-E

2M-1-55-10,252-53502

APR 8 1957

REQUEST FOR } ~~APPROVAL~~ } SECONDARY ROAD SYSTEM

LOCATION

County

1 Twp. 92-N Range. 8-W Sec. 14 ☐ Civil Twp. Westfield

2 Over (cr. or river) Small Dr. Ditch No. _____ (Sta. pres. struct. 8+75.0)
(Sta. pro. struct. _____)

3 Road System ☐ County Trunk FD-186 Fayette Haul to site 4 mi.
☐ Local Co. Nearest shipping point _____
☐ City _____

GENERAL DATA

4 Drainage area: 800 A (Show sketch of area on reverse side this sheet.)

5 Character of watershed: Cultivated Timberland Pasture (Fayette Silty loam)

6 Extreme high water: Elev. 997.5 Date 1947 Information from observation at site
Probably occurs once in 20 years. Area highwater discharge 110 sq. ft.

7 Ordinary highwater: Elev. 995.0 Date of last occurrence 1953 Infor. from observation
Probably occurs once in 5 years. Area highwater discharge 75 sq. ft.

8 Ice conditions: Does stream carry appreciable amount of ice? No Elev. high ice —

9 Low water: Elev. 990.0, on (date) 2-15-57, Average low water elev. Dry run

10 Stream bed: Avg. elev. at site 990.0, Elev. 993.8 upstream 100 ft. Elev. 986.5
downstream 400 ft. Fall in stream in feet per mile 47

11 Is excessive local scour probable No Probable max. depth of scour below stream bed 0 ft.

12 Is stream deepening or filling? No Approx. amount per year —

13 Will all flood water pass thru proposed structure? Yes What provision is made for
overflow? None

14 Can channel be cleared to afford more waterway? No (Indicate location and amount)

15 Is stream widening? No (Show direction, rate and amount)

16 Does stream carry appreciable amount of large driftwood? No

17 Character of foundation material How was data secured I.S.H.C. to make soundings

18 Bench marks X-on N.W. corner of top step to house Sta. 94+230
Elev. 1000.00

19 Traffic count (vehicles per day) —

PRESENT OR OLD STRUCTURE

20	Superstructure	Wood	Substructure	Untreated Plank & Timber
21	Floor	Wood	Number and length of spans	1-16'
22	Width of roadway	16'	Grade Elev.	998.7
23	Condition of superstructure	Poor	IHC Design No.	
24	Condition of substructure	Poor	Approval File No.	

PROPOSED STRUCTURE

25 Superstructure: Type (4-10-1) Precast Conc. Length of span 18'
26 Substructure: (4-10-2)
27 Floor Precast Conc. Roadway width 24' Loading H 15
28 Grade elev. 109.10 Elev. bottom footings abuts. — piers —
29 Kind of railing Steel Channel Location, width of sidewalk —
30 Length of foundation piling — Length and kind trestle piling 30'
31 Angle of skew with centerline of road 0° (Show on plan)
32 Special details:
33 Remarks

Notes for {Design
Approval} Checked by

Proj. No. _____ File _____
I.H.C. Des No. _____
County _____

Notes and recommendations by _____ Date _____
County Engineer

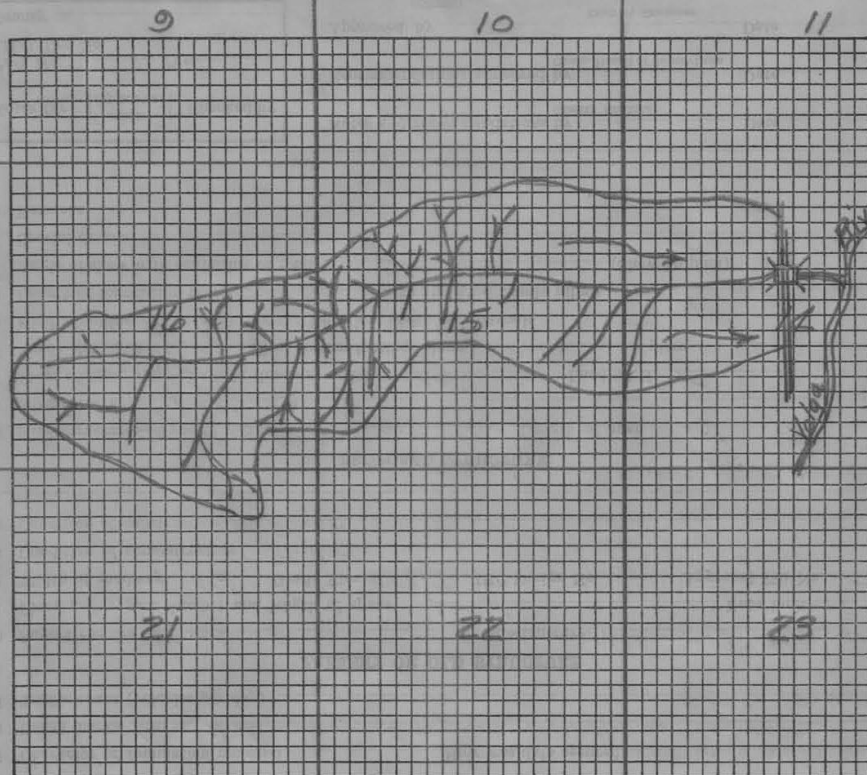
Recommendations approved by _____ Date _____
Chmn. Board of Supervisors

Approved by _____ Date _____
District Engineer

(OVER)

District Engineer

T-93-N, R-8-W



PLAT OF DRAINAGE AREA Scale $2\frac{1}{2}" = 1 \text{ mile}$

The drainage area is to be plotted as completely and accurately as possible and to the largest practicable scale. Use a definite scale, as 1" equals $\frac{1}{4}$, $\frac{1}{2}$, 1 or 2 miles, and indicate above what scale has been used. In addition to the outlines of the watershed indicate the positions of the streams and, roughly, the character of the soil and the relative locations of the steep and flat portions. Whenever practicable, the above information should be secured by going over the area either on foot or in a car. For very large watersheds the information may be secured from the best existing maps, preferably maps of the United States Geological Survey.

REMARKS.

Give additional information by reference to marginal number on reverse side of this sheet.

Marginal No.	
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IMPORTANT NOTE

The information given on this form must in all cases be supplemented by complete plat and profile of the site, drawn to a convenient scale on a separate sheet.

The information as shown on this form is essential and must be supplied in detail before the plans can be prepared or approved. It will be necessary to return this form for correction unless the data supplied is complete. The plans will not be started or approved by the commission until signed by the Chairman of the Board of Supervisors and District Engineer.

This form is to be used in all cases for designs to be prepared by the Commission and must accompany plans submitted to the Commission for approval.

POSTED
RECORDED
IOWA HIGHWAY COMMISSION

STATE OF IOWA
STATE HIGHWAY COMMISSION
DESIGN FOR

BRIDGE

SECONDARY ROAD SYSTEM
FAYETTE COUNTY
JUNE 1937

INDEX OF SHEETS:
No. 1 Title sheet, Estimated Quantities
2 Situation Plan & Abutment Details

SPECIFICATIONS:
Iowa State Highway Commission Series 1930
plus current special provisions.

MINIMUM SUPERELEVATION:
Bridge at Sta. 3178
Out to Out concrete 20.00' = 0.0028 miles

Notes:
Fayette County, 1811. Potholes, bridge, sign, abutments
Specified in S & T, instruction No. 1, dated March 11, 1935



In left hand of
June 28, 1937

DESIGN NO.	REAL NO.	DESCRIPTION	CONCRETE	STEEL	REINFORC.	STRUCTURE	DESIGNED AND PLANNED BY	CHECKED BY	APPROVED BY	DATE	REMARKS
24-57	31-2121	18" x 24" PRECAST CONC ABUTMENT, STEEL RAIL CONCRETE THREE ABUTTS	212 CY	1866 LB.	350	181	158 L.F.	158 L.F.	158 L.F.	158 L.F.	158 L.F.

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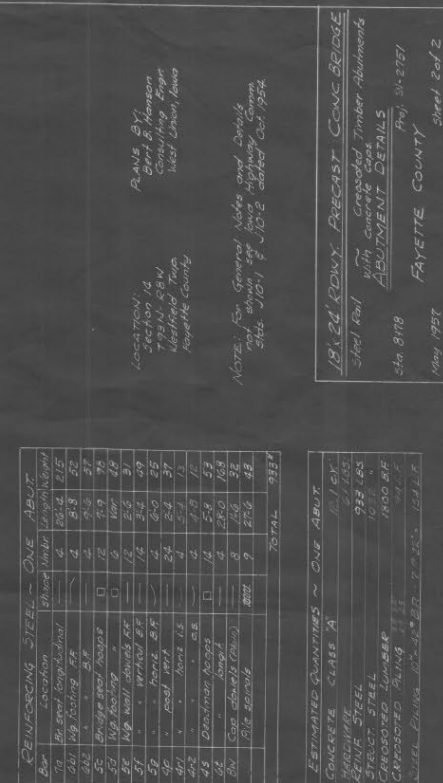
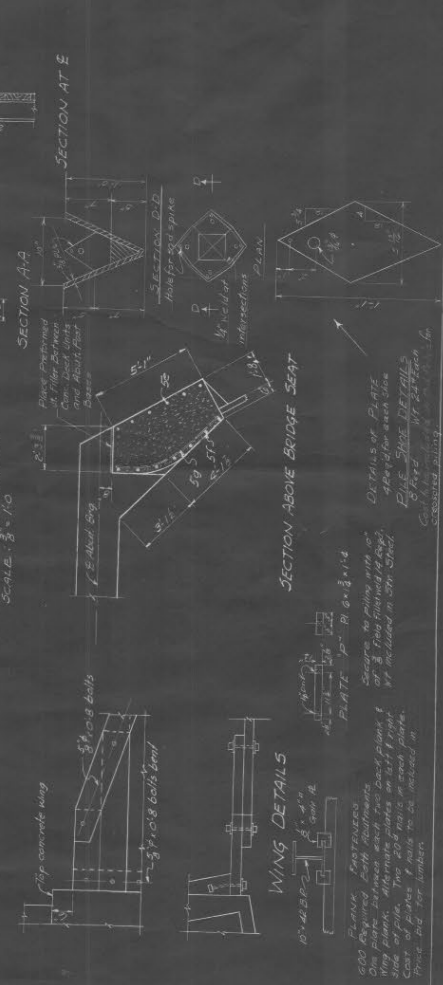
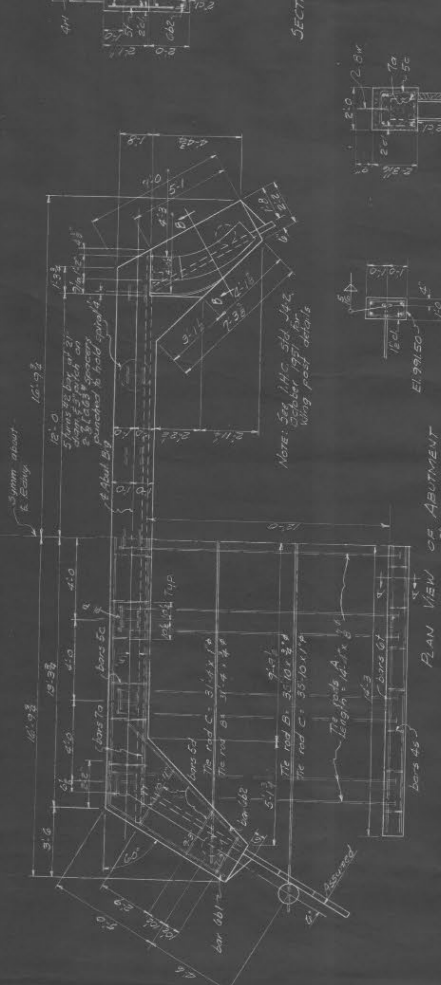
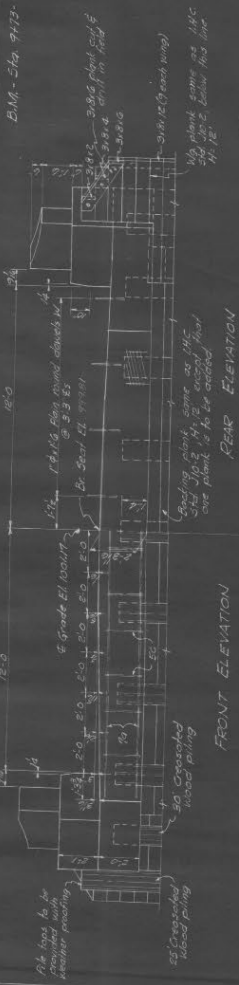
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B.M. - Sta. 972.5' - 1" on Mul. car top edge of house - El. 1000.00



18' x 24' RONY PRECAST CONC BRIDGE
 Steel rail with cross-timber railings
 ABUTMENT DETAILS
 Sta 818
 Fayette County
 May 1951
 Steel 2 of 2