HANOVER TOWNSHIP

REQUEST FOR QUALIFICATIONS ("RFQ")
FOR PROFESSIONAL ENGINEERING SERVICES

ROHRSSEN ROAD BRIDGE OVER POPLAR CREEK (SN 016-3047)

RFQ #2024-01 **NOVEMBER 18, 2024**

THREE (3) HARD COPIES & ONE (1) ELECTRONIC COPY
OF THE RESPONSE TO BE SUBMITTED

All hard copy responses must be addressed to:
Caleb Hanson, Director, Facilities and Road Maintenance
RE: RFQ #2024-01
250 S. IL Rt. 59 Bartlett, IL 60103

Electronic responses must be submitted via email to:
chanson@hanover-township.org

RESPONSES MUST BE RECEIVED NO LATER THAN 4:30 P.M. CST, ON DECEMBER 13, 2024

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I. INTRODUCTION

Hanover Township ("Township") seeks to retain the services of a qualified and experienced consulting engineering firm ("Consultant") to provide professional engineering services for the preparation of preliminary engineering and environmental ("Phase I") studies, design engineering ("Phase II") plans and specifications, and construction engineering ("Phase III") services for the replacement of the Rohrssen Road Bridge over Poplar Creek (SN 016-3047). Please see **Section III: Project Scope and Schedule** for additional details about the project.

These services are professional in nature. It is understood that the selected Consultant acting as an individual, partnership, corporation or other legal entity, is of professional status, licensed to perform in the State of Illinois and licensed for all applicable professional discipline(s) requiring licensing and will be governed by the professional ethics in its relationship to the Township. It is also understood that all reports, information, or data prepared or assembled by the Consultant will be confidential in nature and will not be made available to any individual or organization, except the Township, without the prior written approval of the Township.

The prime consultant will have principal responsibility for the progress of services, adherence to budget and schedule, and the successful execution of all tasks required under the contract. The Consultant shall be financially solvent as well as each of its members, if a joint venture. Additionally, its employees, agents or sub-Consultants of any tier shall be competent to perform the services required under this RFQ document. The Township has established a Disadvantaged Business Enterprise ("DBE") goal of 10% for this contract.

II. HANOVER TOWNSHIP BACKGROUND

Hanover Township, established in 1850, is located in the northwest section of Cook County, in the northeast section of the State of Illinois that contains 6 municipalities within its boundaries. The Township has a population of approximately 101,000 people and an area of 36 square miles.

It is governed by a Board of Trustees including the Township Supervisor and four Trustees. Also included are the Township Assessor and Township Clerk. All are elected to a 4 year term by the citizens of the township. Daily operations of the Township are managed by the Township Administrator and Deputy Township Administrator.

Hanover Township's principal responsibilities include social services, general assistance, and to maintain the unincorporated Township roadways and bridges. The township has approximately 26 lane miles of roadway and oversees the unincorporated roads not maintained by municipal, Cook County, or the State of Illinois.

III. PROJECT SCOPE AND SCHEDULE

PROJECT SCOPE

The scope of services includes the preparation of preliminary engineering and environmental (Phase I) studies, design engineering (Phase II) plans and specifications, and construction engineering (Phase III) services for the replacement of the Rohrssen Road Bridge over Poplar Creek (SN 016-3047). All services must be performed in accordance with applicable policies from the Illinois Department of

Transportation (IDOT). These policies include and are not limited to the IDOT Bureau of Local Roads and Streets Manual, the IDOT Bureau of Design and Environment Manual, the IDOT Bridge Manual, the IDOT Geotechnical Manual, the IDOT Drainage Manual, and other policies adopted by IDOT or the Township.

The Township intends to seek federal funding for this project and therefore the project must be administered in a manner that will keep it eligible to receive federal funding.

The Township shall negotiate with the selected Consultant relating to Phase I services for the base contract. During or after completion of Phase I, the Township reserves the right to negotiate and/or amend the contract for Phase II services, publicly advertise Phase II services, or take no immediate action. During or after the completion of Phase II, the Township reserves the right to negotiate and/or amend the contract for Phase III engineering services, publicly advertise Phase III engineering services, or take no immediate action. Should the negotiation be unsuccessful with the incumbent consultant at any phase; the Township reserves the right to advertise Phase II and/or Phase III services publicly or take no immediate action. All actions shall be determined solely by the Township.

The Consultant's services and tasks may include, but are not limited to the following:

General (applies to all project phases)

Project Administration

- Attend monthly progress meetings with the Township and Cook County Department of Transportation and Highways to provide project updates
- Prepare monthly progress reports for inclusion with monthly invoices
- Prepare, maintain, and monitor the project schedule

Quality Assurance/Qualify Control (QA/QC)

- Perform QA/QC reviews of all project deliverables prior to submittal to the Township

Stakeholder Coordination

- Attend all external project meetings and prepare meeting minutes
- Coordinate with local municipalities and all other potentially impacted stakeholders, including but not limited to IDOT and property owners as applicable

Phase I Services

Data Collection

- Collect data on existing and proposed conditions near the bridge (e.g. roadway infrastructure, bicycle/pedestrian facilities, future land developments, etc.)
- Coordinate with utility companies to obtain atlases and other utility-related drawings, incorporate into the existing base files and identify potential conflicts
- Obtain, review, and incorporate any existing as-built plans, specifications, and addenda

Topographic Survey

- Perform a topographic survey of the bridge and the surrounding area
- Perform stream surveys and tree surveys near the bridge and surrounding area

- Perform right-of-way investigation and identify land acquisition needs
- Prepare base maps and aerial mosaics

Geotechnical/Pavement Analysis

- Perform geotechnical investigations and prepare geotechnical reports
- Collect roadway borings and pavement cores

Traffic and Crash Analysis

- Develop traffic projections, including coordination with the Chicago Metropolitan Agency for Planning (CMAP)
- Prepare Crash Analysis studies

Environmental Studies

- Prepare Environmental Survey Request (ESR) screening forms and, if required, a full ESR and obtain all required environmental clearances for the project
- Prepare wetland delineations, wetland reports, and Wetland Impact Evaluation forms
- Prepare a Special Waste Assessments (PESA)
- Engage in pre-application permit coordination with US Army Corps of Engineers (USACE), Metropolitan Water Reclamation District (MWRD), and other regulatory agencies as needed

Drainage Studies

- Prepare drainage studies including hydraulic surveys and reports, Location Drainage Studies, technical memos, and other related drainage analyses and reports

Geometric Studies

- Prepare project-specific design criteria
- Resolve design and coordination issues and obtain design variance approvals
- Identify and evaluate various geometric alternatives; select a preferred alternative
- Prepare concept (30%) engineering plans including plan and profile sheets, cross sections, etc. for the preferred alternative

Structural Analysis

- Perform bridge inspections
- Amend the existing Bridge Condition Report (if required)
- Prepare Type, Size and Location drawings for the bridge

Maintenance of Traffic Analysis

- Prepare maintenance of traffic analysis, reports, and detour route coordination (if required)

Quantity Calculation and Cost Estimate

- Calculate, review, and compile construction quantities
- Prepare cost estimates

Project Development Report

- Prepare Project Development Report (State-Approved Categorical Exclusion assumed)

Public Involvement

- Develop and maintain a project stakeholder list
- Develop project-specific briefing documents and exhibits for public distribution
- Host a public information meeting to present the preferred alternative and maintenance of traffic plans to the public

Should the Township elect to amend the contract to add Phase II services, the following services and tasks are intended to be negotiated, but not limited depending on the outcome of Phase I.

Phase II Services

Environmental Studies

- Prepare a Preliminary Site Investigation (PSI), if required
- Prepare an ESR Addendum and update any environmental surveys as needed to ensure all environmental clearances remain current through letting

Contract Plans

- Prepare preliminary (60%) engineering plans including but not limited to plan and profile sheets, index of specifications, quantities and cost estimates
- Prepare pre-final (90%) engineering plans including but not limited to plan and profile sheets, index of specifications, quantities and cost estimates, detail sheets (structural, drainage, erosion control, maintenance of traffic, etc.), general notes and highway standards, and existing plan details for information only
- Prepare final (100%) contract plans and documents which resolve all previous comments on the 60% and 90% submittals

Right-Of-Way Coordination

- If land acquisition is required for the project, prepare plats and legal descriptions for approval by the IDOT Bureau of Land Acquisition, perform appraisals, review appraisals prepared by others, and oversee negotiations with property owners

Permit Coordination

- Prepare all required permit applications and obtain construction permits from the US Army Corps of Engineers (USACE), Metropolitan Water Reclamation District (MWRD), and other regulatory agencies (if needed)

Public Involvement

- Maintain the project stakeholder list
- Develop project-specific briefing documents and exhibits for public distribution

Should the Township elect to amend the contract to add Phase III services, the following services and tasks are intended to be negotiated, but not limited depending on the outcome of Phase II.

Phase III Services

Pre-Construction Phase

- Review all project bid/contract documents, plans and specifications, addenda, quantities, elevations and dimensions
- Review and document existing site conditions. Anticipate any potential conflicts / issues and develop alternative solutions.
- Perform original cross-sectioning
- Set up master file system/project box (daily diary, field books, quantity books, as built plans, forms, reports, logs etc.)
- Review and fulfill all reporting requirements for project grants, agreements and permits
- Coordinate, monitor and document utility and other permit work

Construction Phase

- Maintain master file system/project box (daily diary, field books, quantity books, as built plans, forms, reports, logs etc.) and ensure it remains neatly arranged and in proper order and up to date
- Keep all project documentation (daily diary, field books, quantity books, as-built plans, forms, reports, logs, etc.) up to date and include all relevant observations/information.
- Review all submittals, Requests for Information (RFIs), extra work and Agreed-Upon Procedures (AUPs) for compliance with the construction contract and respond accordingly; maintain logs, track status, and ensure timely turnaround.
- Inspect the establishment and maintenance of traffic control and protection and pedestrian access for conformance with the contract plans and documents; perform all necessary traffic control and pedestrian access checks, document deficiencies and provide to the contractor for timely action; verify satisfactory correction within the allotted time; otherwise, inform the Township of deficiencies not corrected by the Contractor and impose traffic control deficiency deduction until resolved.
- Monitor and document erosion control; ensure conformity with the contract plans and documents.
- Verify construction layout; inspect and monitor materials, ensure proper certification; inspect general construction for compliance with all contract documents.
- Resolve construction design and other issues; issue field orders and update field order log; negotiate contract extra work and AUPs; incorporate all revisions into project documentation and reflect on as-built plans.
- Measure, calculate and quantify items; prepare progressive documentation.
- Prepare pay estimates and change orders
- Coordinate, monitor and document utility and other permit work
- Review material test reports for concrete, asphalt and aggregates; update and issue material test reports log.

- Maintain a running list of all remedial work items and periodically provide to contractor for timely action; facilitate timely and satisfactory completion of all work and acceptance of the project.
- Perform final inspection of the project with the Township, Contractor(s), local and/or state agency representatives; indicate all remedial work items on the final inspection report and provide to the Contractor for timely action; verify satisfactory completion of all remedial work within the allotted time and provide a recommendation to the Township for acceptance of the project; otherwise, inform the Township of remedial work not completed by the Contractor and impose liquidated damages until resolved.
- Review and fulfill all construction requirements and reporting for project grants, agreements and permits.

Post-Construction Phase

- Complete evaluations for all Contractors who performed work on the project
- Conduct post construction meeting(s) with all interested parties
- Transmit all warranties/guarantees
- Complete, review, and compile final quantities and all final documentation
- Prepare balancing change order
- Complete and submit the master file system/project box including but not limited to the following items:
    - field books
    - quantity books
    - daily diary
    - as built plans (must be in hard copy)
    - forms, reports, logs
- Finalize all reporting requirements for project grants, agreements and permits.

PROJECT SCHEDULE

The table below summarizes the anticipated duration of each project phase. This schedule is preliminary in nature and is subject to funding availability and the status of any needed land acquisition.

Phase I Engineering	18 months (2025-2026)
Phase II Engineering	24 months (2027-2028)
Phase III Construction	12 months (2029/2030)

IV. KEY PERSONNEL REQUIREMENTS

The following Key Personnel, along with desired credentials have been identified as needed for Phase I of this contract:

- **Project Manager:** an Illinois licensed Professional Engineer or Illinois licensed Structural Engineer who will assume the responsibility for all aspects of the work documents

- **Project Engineer:** an Illinois licensed Professional Engineer who will be directly involved in the development of the reports, studies, analyses, and plan documents including overseeing roadway geometric analyses and safety investigations
- **Structural Engineer:** an Illinois Licensed Structural Engineer who will perform/supervise in the area of structural calculations and the preparation of all structural reports and plans.
- **Drainage Engineer:** an Illinois Licensed Professional Engineer with an Association of State Floodplain Manager's Certified Floodplain Manager (CFM) designation who will perform/supervise in the area of drainage calculations and the preparation of drainage reports.
- **Land Surveyor:** an Illinois Licensed Professional Land Surveyor who will perform/supervise survey of the project area
- **Geotechnical Engineer:** an Illinois Licensed Professional Engineer who will perform/supervise in the area of geotechnical calculations and the preparation of geotechnical reports

Should the Township elect to amend the contract to add Phase II and/or Phase III services, Key Personnel required for those project phases will be established at that time.

V. PRE-QUALIFICATION REQUIREMENTS

Unless otherwise noted below, the Prime Consultant must be IDOT prequalified in the following categories.

- Highways – Roads and Streets
- Structures – Highway Bridges – Typical
- Special Studies – Location Drainage
- Location Design Studies – Rehabilitation
- Hydraulic Reports – Waterway – Typical (can be fulfilled by the Prime or a Sub-Consultant)
- Special Services – Construction Inspection

All firms/Key Personnel must be IDOT prequalified in the area of expertise for which they will be utilized.

VI. SUBMITTAL REQUIREMENTS AND INSTRUCTIONS

SUBMITTAL REQUIREMENTS

- **Number of Copies:** Submit three (3) hard copies of proposals and one (1) electronic copy to the mailing address/email address listed on the cover page of this RFQ.
- **Format:** Proposals must be prepared on standard 8 ½"x 11" letter size paper.
- **Cover Letter:** This letter includes an introduction, maximum two pages in length. Include the company name and address, name, title, telephone/fax number and email address of the person(s) who is authorized to represent the company and acknowledgment of any addenda, if any. The letter must be signed by an officer in the business organization authorized to bind the firm and to commit all services within the proposal. The cover letter should include a statement of commitment to meet the contract DBE participation goal of 10%.
- **Executive Summary.** The executive summary should include the Respondent's understanding of the scope of services and the Township's goals set forth to be met through the performance of engineering services. Respondent shall include an organizational chart of the firm and its team

members as part of the executive summary. Such summary shall also include a detailed description as to why the Respondent is the best qualified to perform the services requested.

- **Key Personnel and Company Experience:** Identify the Key Personnel (see **Section IV. Key Personnel Requirements** for specific positions identified) who are committed to provide the services, state their role and areas of responsibility/activities, and comment on their availability/capacity to complete services within the identified schedule. Provide details about the company's experience in designing similar projects. Include client contact information and client references for similar projects cited.
- **Commitment to meet the Contract DBE Goal:** Provide a plan delineating the various anticipated categories and/or disciplines of work/services to be provided by DBE firms. Provide the names and qualifications for the prospective DBE firms that you plan to use to fulfill the participation goal of 10% for this project.
- **Pre-Qualification Letters**. Interested consultants shall include their categories of pre-qualifications with the Illinois Department of Transportation as part of their proposal.
- **Disclosure Statement.** The Township requires all consultants to fill out a disclosure statement with the application. Please see **Appendix 1: Conflict of Interest Form.**

SUBMITTAL INSTRUCTIONS

Submit three (3) hard copies of proposals and one (1) electronic copy for consideration no later than **4:30 P.M. on December 13, 2024** to:

Caleb Hanson, Director, Facilities and Road Maintenance
RE: RFQ #2024-01
250 S. IL Rt. 59 Bartlett, IL 60103

Electronic responses must be submitted via email to: chanson@hanover-township.org

The advertisement for this RFQ was placed on the Township's website athttps://www.hanover-township.org/departments/clerk-s-office/bid-information. Questions regarding this RFQ must be submitted via email, directed to Caleb Hanson, Director, Facilities and Road Maintenance at chanson@hanover-township.org no later than 4:30 P.M. on November 27, 2024. The Township will post any questions received along with answers on their website athttps://www.hanover-township.org/departments/clerk-s-office/bid-information by 4:30 P.M. on December 6, 2024.

The Township anticipates the following schedule for contract procurement activities:

RFQ posted on the Township website	**November 18, 2024**
Proposer Inquiry Deadline	**November 27, 2024**
Response to Inquiries	**December 6 , 2024**
Proposal Due Date	**December 13, 2024**
Evaluation of Proposals	**December 2024-January 2025**
Contract Negotiations	**February 2025**

Contract Award	**March 2025**

The Township reserves the right to reject any submittal that deviates from the submittal requirements. No additional or missing documents will be accepted after the due date and time except as may be requested by the Township.

VII. EVALUATION CRITERIA

The Evaluation Committee will review the submittals in accordance with the following criteria:

- Project Approach – 20%
- Firm Experience – 20%
- Strength of Personnel – 10%
- Staffing Plan – 10%
- Work Capacity – 15%
- Past Performance – 15%
- Participation of DBE – 10%

VIII. SELECTION

Responses to the RFQ will be reviewed by representative(s) from the Township, Cook County Department of Transportation and Highways, and/or other representatives later identified ("Evaluation Team"). Upon receipt of proposals, the Evaluation Team will use the criteria outlined in **Section VI. Evaluation Criteria** to select the firm most qualified for the project and notify all applicants.

The Evaluation Team may choose to conduct interviews, oral presentations and/or seek clarification from selected Respondents. The Township will then contact the consulting firm the Evaluation Team finds most qualified for the project to negotiate the scope of services and contract fee. Should the first selected firm be unable to reach an agreement regarding the terms of a contract, the Township may enter into negotiations with the next highest-scoring consulting firm until an agreement is reached with a qualified firm. **The Township intends to award a base contract for Phase I services with a 18-month term, with the option to add Phase II and/or Phase III services at a later date as specified in Section III. Project Scope and Schedule.**

The Township reserves the right to terminate this procurement at any stage if it is determined to be in the best interest of the Township. In no event will the Township be liable to Respondents for any cost or damages incurred by Respondents or other interested parties in connection with the procurement process, including but not limited to any and all costs of preparing responses to the RFQ and participation in any interviews, oral presentation or negotiations.

All responses submitted to the Township are subject to the Freedom of Information Act. Respondent agrees not to pursue any cause of action against the Township with regard to disclosure of information.

No Township elected official, officer, or employee who participates in the procurement, management, or administration of engineering services contracts or subcontracts has, directly or indirectly, any financial or other interest in connection with the proposed engineering contracts or subcontracts.

No person or entity performing services for the Township has, directly or indirectly, any financial or other interest in any real property to be acquired for the project.

The Consultant has no suspension and debarment actions as specified in federal regulation 2 CFR Part 1200 and 2 CFR Part 180.

APPENDIX 1: CONFLICT OF INTEREST FORM

See next page.

HANOVER TOWNSHIP

Consultant's Financial Disclosure Statement

RETURN WITH STATEMENT OF EXPERIENCE AND FINANCIAL CONDITION

Calendar Year _____

Consultant Name	
Legal Address	
City, State, Zip	
Telephone Number	Email Address

The telephone number and email address supplied above must be a contact readily available if Hanover Township (the Township) has questions.

The disclosures hereinafter made by the firm are each a material representation of fact upon which reliance is placed should the Township enter into the contract with the firm.

Section 50-35 of the Illinois Procurement Code provides that all offers of more than $50,000 and all subconsultant agreements with an annual value of more than $50,000 shall be accompanied by disclosure of the financial interests of the firm. This disclosed information for the successful firm will be maintained and subject to release by request pursuant to the Freedom of Information Act, filed with the Procurement Policy Board, and shall be incorporated as a material term of the contract. Furthermore, pursuant to Section 5-5, the Procurement Policy Board may review a proposal, bid, or contract and issue a recommendation to void a contract or reject a proposal or bid based on any violation of the Procurement Code or the existence of a conflict of interest as provided in subsections (b) and (d) of Section 50-35.

Prime Consultant's Responsibility

Hanover Township may void the offer or contract if it is later determined that the prime or subconsultant rendered a false or erroneous disclosure. A prime consultant or subconsultant may be suspended or debarred for violations of the Procurement Code. If a false certification is made by the subconsultant, then the prime consultant's submitted offer and the executed contract may not be declared void, unless the prime consultant refuses to terminate the subconsultant upon the Township's request after a finding that the subconsultant's certification was false.

Instructions

The following packet includes three sections that must be completed and returned with the Statement of Interest, or the firm may be considered nonresponsive and the Statement of Interest will not be accepted:

1. Qualifying Questions for Form A,
2. Form A: Financial Information & Potential Conflicts of Interest Disclosure, and
3. Form B: Other Contracts & Procurement-Related Information Disclosure.

Form A and Form B must be signed and dated by a person that is authorized to execute contracts for your organization. Electronic and digital signatures are allowed. The person signing can be, but does not have to be, the person for which the form is being completed. The firm is responsible for the accuracy of any information provided.

Form A: Financial Information & Potential Conflicts of Interest Disclosure

Form A pertains to the individuals meeting the ownership or distributive share requirements as stated below.

The financial interests to be disclosed shall include:

- Any ownership or distributive income share that is greater than or equal to 5% or an amount greater than 60% of the annual salary of the Governor, or the offering entity or its parent entity, whichever is less, **the current annual salary of the Governor is $177,412.00.**
- If the firm is owned by an Employee Stock Ownership Plan (ESOP) please check the appropriate box on Qualifying Questions for Form A and provide the % of ownership as well. The individuals in the ESOP that have a greater than or equal to 5% ownership or distributive income share, or an amount greater than 60% of the annual salary of the Governor will need to be identified on Form A.
- If the firm is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure.
- If the firm is a privately held entity that is exempt from Federal 10K reporting, but has more than 100 shareholders, it may submit the information that Federal 10K companies are required to report and list the names of any person or entity holding any ownership share that is greater than or equal to 5%.
  - *If this is true for your firm, check the "Other" box on Form A and designate the firm is a 10K and supply the 10K documents as additional attachments within the disclosure.*
- The names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

A button is supplied on Form A called "Add another Form A", which once clicked will copy Form A. Click the button as many times as you need to identify individuals who meet the above criteria.

If your firm has over 50 pages of Form A's, please provide a summary of the disclosures at the end of Form B as an attachment.

Additionally, if your firm has an abundance of individuals with the same Form A information, you can fill out one (1) Form A and provide an attached listing of those individuals to save time.

Form B: Other Contracts & Procurement-Related Information Disclosure

The firm shall identify, by checking "Yes" or "No" on Form B any other current or pending contracts, proposals, leases, or other ongoing procurement relationships the offering entity has with the Township and shall clearly identify the unit and the contract, proposal, lease, or other relationships.

If "Yes" is checked, the firm must identify each such relationship by listing descriptive information such as project number, title, contract, etc.

If "No" is checked, the firm only needs to check the box, sign and date at the bottom of Form B.

Qualifying Questions for Form A

The following seven questions ***must*** be answered in order to determine how Form A is to be completed. Answer all seven questions before going on to Form A.

Ownership Certification

The following clarifies the ownership structure of your firm for the Township's review.

	Yes	No
1. Is your firm a Subsidiary and owned by a Parent entity(ies)?	☐	☐
If your answer is "Yes", please disclose the Parent entity(ies) ownership on Form A and supply the name of the Parent entity(ies) below.		
Parent entity(ies): _____		
2. Will the individuals that will be submitted on Form A equal 100% ownership?	☐	☐
If your answer is "No", please verify by answering the following question.		
a) Is any of the remaining ownership held by individuals receiving or holding less than 5% of the offering entity's or parent entity's total distributive income, or less than 60% of the annual salary of the Governor? *(If you feel the answer is No, please add an explanation.)*	☐	☐
3. Is your firm owned by an ESOP?	☐	☐
If your answer is "Yes", please disclose the % below and on Form A identify the individuals who have ownership or distributive income share that is greater than or equal to 5%, or an interest which has a value of more than 60% of the annual salary of the Governor.		
ESOP %: _____		

Identifying Financial Information & Potential Conflicts of Interest

	Yes	No
4. Does anyone in your organization have a direct or beneficial ownership share of greater than or equal to 5% of the offering entity or parent entity?	☐	☐
5. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than 60% of the annual salary of the Governor?	☐	☐
6. Does anyone in your organization receive more than 60% of the annual salary of the Governor of the offering entity's or parent entity's distributive income? *(Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.)*	☐	☐
7. Does anyone in your organization receive greater than or equal to 5% of the offering entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor?	☐	☐

If any of the answers to questions 1 – 7 are "Yes", the completion of Form A is required, and the Form A ***must*** be signed and dated.

Add another Form A

Form A: Financial Information & Potential Conflicts of Interest Disclosure

Disclosure of the information contained in this form is required by Section 50-35 of the Illinois Procurement Code (30 ILCS 500). Firms desiring to enter into a contract with the Township must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form.

Disclosure of Financial Information

The individual named below has an interest in the FIRM (or its Parent) in terms of ownership or distributive income share that is greater than or equal to 5%, or an interest which has a value of more than 60% of the annual salary of the Governor.

FOR INDIVIDUAL

Name: _____

Address: _____

_____

☐ Stock with % or $ value of ownership/distributable income share: _____

☐ Other (explain): _____

Disclosure of Potential Conflicts of Interest

Firm must check "Yes" or "No" to indicate which, if any, of the following potential conflict of interest relationships apply. If the answer to any question is "Yes", please describe and attach additional pages if needed.

	Yes	No
1. **Township employment**, currently or in the previous three years, including contractual employment of services?	☐	☐
If your answer is "Yes", please answer each of the following questions, and provide description in the space(s) below to those you answer yes to.		
a) Are you currently an officer or employee of either the Township?	☐	☐
b) Are you currently appointed to or employed by Hanover Township? If you are currently appointed to or employed by the Township, and your annual salary exceeds 60% of the annual salary of the Governor, provide your annual salary:	☐	☐
c) If you are currently appointed to or employed by Hanover Township, and your annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7½% of the total distributable income of your firm, partnership, association, or corporation, or (ii) an amount in excess of the salary of the Governor?	☐	☐
d) If you are currently appointed to or employed by Hanover Township, and your annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15% in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor?	☐	☐
2. **Township employment** of spouse, father, mother, son, or daughter, including contractual employment services in the previous two years?	☐	☐
If your answer is yes, please answer each of the following questions, and provide description in the space(s) below to those you answer yes to.		

		Yes	No
a)	Is your spouse or any minor children currently an officer or employee of Hanover Township?	☐	☐
b)	Is your spouse or any minor children currently appointed to or employed by the Township? If your spouse or minor children is/are currently appointed to or employed by the Township, and his/her annual salary exceeds 60% of the annual salary of the Governor, provide the name of your spouse and/or minor children, and his/her annual salary.	☐	☐
c)	If your spouse or any minor children is/are currently appointed to or employed by the Township, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7½% of the total distributable income of your firm, partnership, association, or corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor?	☐	☐
d)	If your spouse or any minor children are currently appointed to or employed by the Township , and his/her annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15% in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor?	☐	☐
3.	**Elective status**: the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous three years?	☐	☐
4.	Relationship to anyone holding elective office currently or in the previous two years: spouse, father, mother, son, or daughter?	☐	☐
5.	**Appointive office**: the holding of any appointive government office of the State of Illinois, the United States of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in the discharge of that office currently or in the previous three years?	☐	☐
6.	Relationship to anyone holding appointive office currently or in the previous two years: spouse, father, mother, son or daughter?	☐	☐
7.	Employment, currently or in the previous three years, as or by any registered lobbyist of the state government?	☐	☐
8.	Relationship to anyone who is or was a registered lobbyist in the previous two years: spouse, father, mother, son, or daughter?	☐	☐
9.	Compensated employment, currently or in the previous three years, by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections?	☐	☐

	Yes	No
10. Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last two years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections?	☐	☐
11. **Communication Disclosure**. Disclose the name and address of each lobbyist and other agent of the firm or offeror who is not identified in Form A, who has communicated, is communicating, or may communicate, with any Township officer or employee concerning the statement of interest, bid or offer. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the process and throughout the term of the contract. ***If your firm uses (lobbyist firm), lobbyists that were either hired to work on this specific SOI, bid or offer OR to assist your firm with this PTB, then answer Yes and indicate specifics, else please mark No.*** If yes, supply name and address of person(s) and firm name below and: a) Disclose all lobbyist costs, fees, compensation, reimbursements, or other remunerations paid, or to be paid related to this PTB Item. b) Agree Consultant will not bill to the Township any lobbyist costs, fees, compensation, reimbursements, or other remunerations. _____ _____	☐	☐
12. **Suspension or Debarment Disclosure.** For each of the persons identified under Form A, disclose whether any of the following has occurred within the previous 10 years: suspension or debarment from contracting with any governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the procurement process and term of the contract if the bid or offer is successful. If yes, supply information below: Name of person(s): _____ Nature and date of disclosure: _____	☐	☐

This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Under penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of my knowledge.

Completed by: ☐ _____ _____
Signature of Individual or Authorized Officer — Date

The firm has a continuing obligation to supplement these disclosures under Sec. 50-35 of the Procurement Code.

Form B: Other Contracts & Procurement-Related Information Disclosure

Disclosure of the information contained in this form is required by Section 50-35 of the Illinois Procurement Code (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for Statements of Interest in excess of $50,000, and for all open-ended contracts. This Form B must also be completed for subconsultant agreements with an annual value of more than $50,000 from subconsultants identified in Section 20-120 in the Illinois Procurement Code and for all open-ended subconsultant agreements.

Disclosure of Other Contracts and Procurement-Related Information

Answer the following question.

	Yes	No
1. Does the firm have any pending contracts (including leases), statements of interest, bids, proposals, or other ongoing procurement relationship with Hanover Township?	☐	☐

If your answer is "No", the firm only needs to complete the signature box and date on the bottom of this page.

If your answer is "Yes", identify each such relationship by showing PTB/PSB if applicable, Project name and the role of your firm as either a Prime or Sub (attach additional pages as necessary).

AGENCY	PTB/PSB	PROJECT NAME	ROLE (PRIME/ SUB FIRM)

Add A Row

The Disclosure is signed and made under penalty of perjury for all for-profit entities, by an authorized officer or employee on behalf of the bidder or offeror pursuant to Sections 50-13 and 50-35 of the Illinois Procurement Code. This Disclosure information is submitted on behalf of the firm listed on page 1.

Completed by: ☐ _____ _____

Signature of Individual or Authorized Representative — Date

APPENDIX 2: DRAFT BRIDGE CONDITION REPORT AND ROADWAY DESIGN MEMORANDUM

A copy of the draft Bridge Condition Report (BCR) and a draft Roadway Design Memorandum prepared for this project in February 2023 has been included with this RFQ for reference. The draft BCR has been submitted to IDOT and is currently under review. If more current versions of these documents become available, they will be provided to the selected Consultant upon contract award.

These documents include preliminary recommendations on the proposed scope of work for this project for information and reference. The recommendations contained in these documents will need to be reviewed and validated during Phase I by the Consultant. If, during the Phase I study it is determined that the scope of work will be significantly modified from what is included in the draft BCR, an update to the BCR may be required as specified in **Section III. Project Scope and Schedule.**

BRIDGE CONDITION REPORT

Agency/Region: District One/Region One
Route: Rohrssen Road
County: Cook
Contract Number: N/A
Structure Number: 016-3047
Location: Rohrssen Road over Poplar Creek



Prepared by: Milhouse Engineering & Construction, Inc.
333 South Wabash Street, Suite 2901
Chicago, IL 60604

Date Prepared: February 3rd, 2023

MILHOUSE

Table of Contents

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II.	Physical Description of Structure	1
III.	Field Inspection & Physical Evaluation	2
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V.	Discussion and Recommended Scope of Work	6

Attachments:

A. Location Map
B. IDOT Master Structure Report
C. Bridge Inspection Report
D. Top and Bottom of Deck Survey
E. Substructure Condition Survey
F. Cost Estimate
G. Proposed Structure Sketch
H. Structure Photos
I. Hey and Associates, Inc. Memorandum
J. Abbreviated Existing Plans

I. Geographical & Administrative Data

Structure Number:	**016-3047**
County:	**Cook**
Route Carried:	**Rohrssen Road**
Feature Crossed:	**Poplar Creek**
Section:	**N/A**
Station:	**0.2700**

Roadway Classification:	**Minor Collector**
Design/Posted Speed:	**30 mph**
ADT (current):	**3000 (2018)**
ADTT (current):	**90 (2019)**
DHV:	
Inventory Rating (HS/HL):	**0.920 (33)**
Operating Rating (HS/HL):	**1.530 (55)**
Sufficiency Rating:	**49.2**

Construction / Reconstruction / Repair History

The original structure was built in 1958 as route C.H. 074, section 074-0101 M.F.T. The structure was rehabilitated in 1980 as part of M.F.T. 78-12411-00-BR. Repairs consisted of removal of bituminous wearing surface on the prestressed concrete box beams of the bridge deck; installation of neoprene expansion dams: application of waterproofing membrane system; installation of bituminous concrete surface course, class I wearing surface on bridge deck and removal and reconstruction of concrete bridge railing. The structure was also rehabilitated in 2001 as part of M.F.T. Number 00-09111-90-BR, CCHD Project Number 007T111. Repairs consisted of removal of the bituminous wearing surface and replacement with latex modified concrete overlay; removal of the concrete parapet walls and replacement with concrete parapet walls and aluminum railings conforming to the latest standards at that time; repairs to the substructure elements; resurfacing the approach pavements; re-establishing the slope at the southeast corner and providing erosion protection and replacement of the approach guardrails.

II. Physical Description of Structure:

The existing structure is located approximately 0.3 miles north of IL-19 (East Chicago St.) in the Hanover Township. The structure is a single span bridge measuring 54'-0" back-to-back of abutments and 51'-0" centerline-to-centerline of bearings. The deck consists of a 1'-10" wide sidewalk and 1'-2" wide parpet on either side of a curb-to-curb roadway width of 24'-0", for a total out-to-out width of 30'-0". The superstructure consists of ten 3'-0" wide x 2'-3" deep prestressed concrete box beams and a latex concrete wearing surface varying in depth between 5-1/2" and 1-3/4". The superstructure is supported on reinforced cast-in-place concrete abutments founded on spread footings. The structure has a skew of 0 degrees and the design loading on the structure nameplate indicates H20-S16-44.

III. Field Inspection & Physical Evaluation:

The bridge inspection was performed by Milhouse Engineering & Construction, Inc. on June 13, 2022. The intention of the inspection was to document existing deficiencies and evaluate the potential scope of work that would be required to raise the low beam of the structure to be in compliance with the IDOT Local Roads and Streets design requirements based on the updated FEMA floodplain elevations data (Please see Attachment). The structure was also evaluated for compliance with the latest standards of the IDOT Bureau of Design and Environment Manual.

The below sections provide summaries of the conditions observed during the structure inspection.

Deck:

The concrete wearing surface is in poor condition and corresponds directly to the superstructure rating for prestressed concrete box beams. The top surface of the box beams are covered with a latex concrete overlay wearing surface which varies in thickness from 5-1/2" to 1-3/4". The wearing surface typically exhibits open longitudinal cracks ranging from approximately 1/16" up to 3" wide in spots along the full length of the structure (approximately 270 LF). Hairline transverse cracks are also scattered throughout the wearing surface. The wearing surface also exhibits nine areas of delamination (98 SF total) and five spalls (approximately 14 SF) and are also illustrated in the inspection field notes (See Attachment D).

Parapets:

The East parapet typically exhibits hairline vertical cracks at approximately five foot intervals along its full length (17 LF total). Areas of pop-outs with rusting are also noted at the lower inside and outside face of the parapet. The West parapet typically exhibits hairline vertical cracks at approximately five foot intervals along its full length (13 LF total). Areas of pop-outs with rusting are also noted at the lower inside and outside face face of the parapet.

Joints:

The expansion joints were observed to be in poor condition. The north and south expansion joint openings were measured to be approximately 1" and the temperature at the time of inspection was approximately 70 degrees. The north and south expansion joints are partially covered in bituminous patches with spalling and deterioration along the headers on the approach sides. The preformed expansion joint fillers are damaged or torn along the full length of the joints. Joints are leaking along the full lengths as is evident in the abutment photos (See photos).

Beams:

The precast prestressed concrete box beams are in poor condition. Beam 1 exhibits two 6 SF spalls near midspan, less than 1/3 beam width, one with two severed strands and

the other with 3 exposed and heavily corroded strands. Beam 4 exhibits a 10 SF spall near midspan less tha 1/3 the beam width with 2 severed strands. Beam 9 exhibits a 2 SF spall approximately 6 feet from the south end, with no exposed strands visible. Beams 4 and 6 exhibit minor spalling with rust staining at the north end, and beam 7 at the south end. Total of 33 SF of spalls. Stalactitic leaching between beams 8 and 9, and 9 and 10 is also observed at the north end.

Substructure:

The abutments are in overall good condition. Typically there are scattered areas of minor cracking with leaching. The north abutment exhibits map cracking at the upper west corner below beam 10 (approximately 10 SF) and spall below beam 9 (approximately 1 SF). The south abutment exhibits map cracking at the upper east end of the stem (approximately 8 SF), a spall at the lower east end of the stem with exposed reinforcement (approximately 8 SF), a spall below beams 6 & 7 at the upper portion of the stem (approximately 6 SF), a spall at the lower west end of the stem (approximately 10 SF), a spall at the upper west portion of the stem (approximately 8 SF) and map cracking at the west end of the abutment (approximately 30 SF). The Substructure Condition Survey is provided in Attachment E of this report.

Other

Some deck drains are fully or partially clogged with debris and sediment which may be preventing water from flowing freely through the drain.

Inspection History (NBIS Ratings)

The following list summarizes the three most recent Bridge Inspection Reports as reported to the Illinois Structure Information System based on the National Bridge Inspection Standards Ratings. The most recent inspection is provided in Attachment C of this report for reference.

Year	Deck	Superstructure	Substructure
2018	4	4	7
2020	4	4	7
2022	4	4	7

Geometric, Horizontal & Vertical Clearance / Hydraulic Data:

The clear roadway width of the structure (curb-to-curb) is 24’-0” and 30’-0” out-to-out. This does not meet the current design criteria in the IDOT Local Roads and Streets manual required for Urban Collectors/Local Streets Bridges, as such, the structure is classified as functionally obsolete and is a high priority for replacement.

Additionally, a study was performed by Hey and Associates, Inc. in April of 2022 at the request of Cook County DOTH to evaluate the Rohrssen Road Bridge with respect to the FEMA floodplain elevations and IDOT Local Roads and Streets design requirements. In summary, one foot of clearance from the low chord of the bridge to the

30-year Design High-Water Elevation is required by the IDOT Local Roads and Streets design criteria. Based on the preliminary FEMA FIS data, the Rohrssen Road Bridge will only have 0.05 feet (approximately 5/8") clearance. Memo is included in Attachment I of this report.

IV. Potential Scope of Work Determination & Analysis

The potential scope of work is based on the evaluation of several factors which include the current condition of the bridge elements, the current geometric and hydraulic design criteria and the transportation and economic plans for the area.

According to the condition rating criteria of IDOT's Structure Information and Procedure Manual, the Superstructure is in Poor condition based on the extent of spalls with severed and/or corroded strands located mid-span on several of the PPC Deck Beams. The wearing surface exhibits advanced deterioration consisting of large open cracks, spalls and delaminated areas. The Substructure with several areas of spalls and cracks is rated in overall Good Condition.

Geometrically, the structure is classified as functionally obsolete and is a high priority for replacement as noted in the above section. Also, the low chord clearance to the 30-year design high water elevation is not adequate and necessitates that the structure be raised to meet the 1 foot clearance criteria.

The following alternatives were considered for the structure to meet current acceptable design standards. Structure costs are only provided for comparison purposes.

Alternative One –Superstructure Replacement (Rehabilitation):

Alternative One includes removal and replacement of the precast prestressed concrete superstructure, parapet and aluminum railings. Structural repair of concrete and epoxy crack sealing at each of the abutments would also be included in this alternative. As a result of superstructure replacement, the structure rating would raise from poor to good. This alternative does not include widening of the structure or modification to the substructure. Thus, it will not allow the structure to meet the current policy requirements for the structure width and low-beam. In order for this alternative to be a possibility, a waiver of policy would need to be granted by the approving authority.

Since the sufficiency rating for this structure is below 50, replacement is required in order to be eligible for federal funding under the STP Bridge Program and Illinois Special Bridge Program. These options would not be applicable for this alternative. However, the structure would be eligible for state funding through the Township Bridge Program. As mentioned above, rehabilitation would first require a waiver of policy since geometric and hydraulic policy requirements will not be met.

Alternative Two –Superstructure Replacement with Substructure Modification (Reconstruction):

Alternative Two includes removal and replacement of the precast prestressed concrete superstructure, parapet and aluminum railings, and widening of the existing substructure to accommodate an additional beam line to support a wider proposed roadway typical section of 35'-2" out-to-out. The existing abutments would also require modification to accommodate a wider typical section, as well as the beam seats to raise the low beam elevation approximately 1 foot to meet the design clearance requirements of the IDOT Local Roads and Streets Manual. This raises the profile of the structure and consequentially, the approach roadways on either side of the structure would need to be reconstructed to match the new profile. The existing abutments are in good condition and may be considered for reuse, however, the foundations were originally constructed to support a 30' wide deck. The foundation may require modification to accommodate the increase in width. Feasibility of reusing the abutments would need to be verified during the design phase to determine if the new structure loads can be supported. To preserve the integrity of the abutments, additional work would include patching spalls and sealing cracks as required.

The sufficiency rating for this structure is below 50, as such replacement is required in order to be eligible for funding under the STP Bridge Program as well as the Illinois Special Bridge Program and would not be applicable for this alternative.

Alternative Three – Complete Bridge Replacement (PPC Deck Beams – Stub Abutment):

Alternative Three includes the removal and replacement of the existing structure with no salvage. The new structure will be constructed on a raised profile to accommodate the required clearance to the 30-year design high water elevation. The new structure will be designed to meet the current geometric criteria of the IDOT Local Roads and Streets Manual.

The new structure will be a single span bridge measuring approximately 60'-0" in length and out-to-out width of 35'-2". Traffic will be carried on a new precast prestressed concrete box-beams with a concrete or HMA wearing surface. The superstructure will be supported by reinforced concrete stub abutments supported on driven steel piles. Proposed stub abutment will be constructed behind the existing abutments on either end of the bridge, resulting in an increase in length of approximately 10 feet. The existing channel cross section beneath the structure will be modified to a trapezoidal shape with riprap sloping from each stub abutment to the streambed.

Since the sufficiency rating for this structure is below 50, the structure meets the eligibility requirement for federal funding under the STP Bridge Program and the Illinois Special Bridge Program. This structure also qualifies for state funding through the Township Bridge Program.

Alternative Four – Complete Bridge Replacement (Steel beams – Integral Stub Abutment):

Alternative Two includes the removal and replacement of the existing structure with no salvage. The new structure will be constructed on a raised profile to accommodate the

required clearance to the 30-year design high water elevation. The new structure will be designed to meet the current geometric criteria of the IDOT Local Roads and Streets Manual.

The new structure will be a single span bridge measuring approximately 60'-0" in length with an out-to-out width of 35'-2". The superstructure will consists of rolled steel beams with a reinforced concrete deck. The superstructure will be supported by integral reinforced concrete stub abutments supported on driven steel piles. The proposed stub abutments will be constructed behind the existing abutments on either end of the bridge, resulting in an increase in length of approximately 6 feet. The existing channel cross section beneath the structure will be modified to a trapezoidal shape with riprap sloping from each stub abutment to the streambed.

Since the sufficiency rating for this structure is below 50, the structure meets the eligibility requirement for federal funding under the STP Bridge Program and the Illinois Special Bridge Program. This structure also qualifies for state funding through the Township Bridge Program.

Construction Staging

As this is a single span relatively narrow structure, staged construction is not viewed as a feasible option for any of the above alternatives. Road will be closed to thru traffic and detoured via Shales Parkway to the west of Rohrssen Road.

V. Discussion & Recommended Scope of Work

Alternative One achieves the goal of raising the structure condition rating from poor to good by replacing the superstructure and performing repairs to the substructure elements which extends the life of the structure. The structure will not meet geometric and hydraulic policy requirements with this alternative. Additionally, this alternative would require a waiver of policy by the approving authority. Based on these factors along with the estimated cost, this option is not recommended. The estimated cost of this scope of work is $807,000 as shown in Attachment F.

Alternative Two achieves the primary goal of raising the low beam of the structure to meet current IDOT standards as well as raising the structure condition rating from poor to good. It also widens the cross section of the structure to comply with current geometric requirements. The alternative would require a structural capacity evaluation of the reinforced concrete abutments to ensure the increase loads due to the structure widening can be supported on the existing spread footing foundations. The estimated cost of this scope of work is $1,616,000 as shown in Attachment F.

Alternative Three, similar to Alternative Two, achieves the primary goal of raising the low beam of the structure to meet current IDOT standards. It also widens the cross section of the structure to comply with current geometric requirements. This option also uses the most efficient construction depth (approx. 36 inches) by using PPC Deck beams for the superstructure. Other superstructure options will result in an increase in construction depth and subsequently raise the profile of the bridge and adjacent roadways. Since this

alternative is a complete replacement, new substructure elements would be designed and constructed in accordance with current IDOT policy. The estimated cost of this scope of work is $1,789,000 as shown in Attachment F.

Alternative Four, similar to Alternative Three, achieves the primary goal of raising the low beam of the structure to meet current IDOT standards. It also widens the cross section of the structure to comply with current geometric requirements. This option uses rolled steel beams for the superstructure which will results in an increase in construction depth (approx. 47 inches) when compared to alternative 3 above. Due to this increase, the profile of the structure and adjacent roadways will need to be raised accordingly to maintain the required low beam clearance. Since this alternative is a complete replacement, new substructure elements would be designed and constructed in accordance with current IDOT policy. The estimated cost of this scope of work is $2,128,000 as shown in Attachment F.

Alternative one is not considered as a feasible option as it does not take provide the required clearance beneath the structure or update the bridge cross section to meet current policy requirments. In regards to alternative two, taking into consideration the relatively small size of the structure, salvage of the existing abutments does not represent a significant cost savings and will required more maintenance during the life of the structure. Additionally, structural evaluation of the existing abutments and modification presents the possibility of unforeseen difficulties that could arise during design and construction, further increasing costs. Alternatives three and four both provide complete replacement of the structure. A completely new structure would also require less maintenance, provide ease of design and construction, while also providing an overall longer service life. PPC Deck beams generally are low maintenance and provide a shallower construction depth. However, these beams may also be heavier resulting in a more robust substructure design and increased costs. A steel superstructure may be may be painted or galvanized to protect the steel. Additionally, the use of fully integral abutments eliminates the need for joints. The will mitigate the need for joint maintenance and prevent advanced deterioration of beam ends. A steel superstructure may also be lighter resulting in a more efficient substructure design and decreased cost. Based on these considerations, Alternative four is the recommended scope of work.

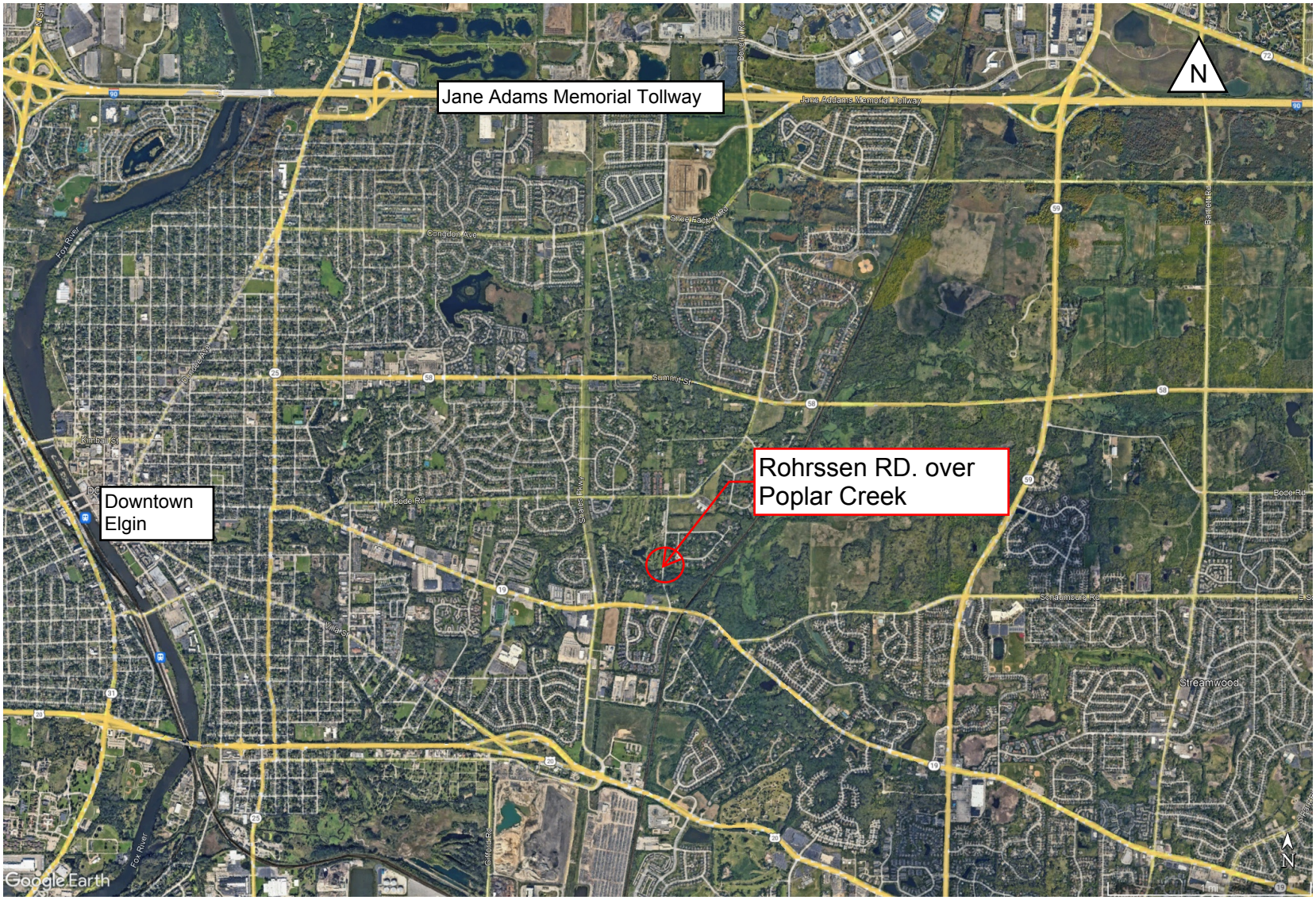
The estimated cost of this scope of work is $2,128,000 as shown in Attachment F.

Summary of Alternatives

Alternative	Scope	Structure Type	Span Length	Bridge Width	Foundation Type	Superstructure Depth	Vertical Clearance	Total Cost
Alt #1	Removal and replacement of the precast prestressed concrete superstructure, parapet and aluminum railings, structural repair of concrete and epoxy crack sealing at each of the abutments.	PPC Deck Beams	54'	30'-0"	Existing full-height reinforced concrete abutments on spread footings.	27"	0.05'	$807,000
Alt #2	Removal and replacement of the precast prestressed concrete superstructure, parapet and aluminum railings, and widening of the existing substructure to accommodate an additional beam line to support a wider proposed roadway typical section. Abutment modifications to accommodate a wider typical section, as well as the beam seats to raise the low beam elevation approximately 1 foot.	PPC Deck Beams	54'	35'-2"	Modified existing full-height reinforced concrete abutments on spread footings.	27"	1.0'+	$1,616,000
Alt #3	Removal and replacement of the existing structure with no salvage. The structure will be a single span bridge measuring approximately 60'-0" in length and out-to-out width of 35'-2". Superstructure will consist of precast prestressed concrete box-beams with a concrete or HMA wearing surface. The superstructure will be supported by reinforced concrete stub abutments supported on driven steel piles.	27" PPC Deck Beams	60'	35'-2"	Reinforced concrete stub abutment on driven steel piles.	27"	1.0'+	$1,789,000
Alt #4	Removal and replacement of the existing structure with no salvage. The structure will be a single span bridge measuring approximately 60'-0" in length and out-to-out width of 35'-2". Superstrucrure will consists of rolled steel beam with a reinforced concrete deck. The superstructure will be supported by reinforced concrete integral stub abutments supported on driven steel piles.	Rolled Steel Beams	60'	35'-2"	Reinforced concrete stub abutment on driven steel piles.	36"	1.0'+	$2,128,000

ATTACHMENT A

Location Map


Jane Adams Memorial Tollway
Rohrssen RD. over Poplar Creek
Downtown Elgin
N
Streamwood
Google Earth

ATTACHMENT B

IDOT Master Structural Report

Illinois Department of Transportation
Structures Information Management System
Structure Summary Report

Structure Number: 016-3047 **District:** 1

Inventory Data

Facility Carried: ROHRSSEN RD
Feature Crossed: POPLAR CREEK
Bridge Remarks: GRDRAILS HAVE SPALLED & LOOSE PCC.NORTH ABUT HAS LARGE SPALL @ W.CORNER.
Bridge Status: 1 OPEN - NO RESTRICT
Status Date: 4/1/1988 12:00:00 AM
Status Remarks:
Maint County: 016 COOK
Maint Township: 09 HANOVER
Maint Responsibility: 90 TOWNSHIP OR ROAD DISTRICT UNKNOWN
Service On/Under: 1 HIGHWAY 5 / WATERWAY
Reporting Agency: 9 TOWNSHIP OR ROAD DISTRICT
Main Span Matl/Type: 5 PRESTRESS CONCRETE / 05 BOX BEAM OR GIRDER-MULTIPLE
Nbr Of Main Spans: 1 **Nbr Of Approach Spans:** 0
*****Approaches*****
Near #1 Matl/Type: /
Near #2 Matl/Type: /
Far #1 Matl/Type: /
Far #2 Matl/Type: /
Median Width/Type: 0 Ft. / 0 None
Guardrail Type L/R: 0None / 0 None
Toll Facility Indicator: 0 No Toll
Latitude: 42.03313870 **S** **Longitude:** 88.23045102 **S**
Deck Structure Type: E PCAST PRES CN DK BM
Sidewalks Under Structure: 0 None

Bridge Name: ROHRSON RD BRIDGE
Location: 0.3 M N ILL 19 P7
Replaced By: -
Replaces: -
Last Update Date: 03/30/2021
Parallel Structure: None
Multi-Level Structure Nbr:
Skew Direction: N None
Skew Angle: 0 **D**
Structure Flared: No
Historical Significance: No
Border Bridge State:
Bdr State SN:
Bdr State % Responsibility: 0
Structural Steel Wt 0
Substructure Material: 55
Rated By: 2 IDOT
Inventory Rating: 0.920(33)
Operating Rating: 1.530(55)
Design Load: 02 HS20
Deck Structure Thickness: 27 **SD:** Y **FO:** Y
RR Vertical Underclear: 0 **Ft** 0 **In**

Sufficiency Rating: 49.2
HBP Eligible: Yes
Rate Method: 6 LOAD FACTOR (LF) REPORTED BY RATING FACTOR (RF)
Load Rating Date: 11/14/2016

Structure Length: 54.0
AASHTO Bridge Length: 50.0
Length of Long Span: 51.0
Bridge Roadway Width: 24.0
Appr Roadway Width: 24.0
Deck Width: 30.0
Sidewalk Width Right: 1.8
Sidewalk Width Left: 1.8
Navigation Control: 0 No
Navigation Horiz Clear: 0
Navigation Vert Clear: 0
Culvert Fill Depth: 0.0
Number Culvert Cells: 0
Culvert Opening Area: 0.0
Culvert Cell Height: 0.00
Culvert Cell Width: 0.00
Railroad Crossing Info
Crossing 1 Nbr:
Crossing 1 Nbr:
RR Lateral Underclear: 0.0

Key Route On Data

Key Route Nbr: TOWNSHIP OR ROAD DISTRICT 0801
Appurtenances Main Route 00000
Inventory County: 016 COOK
Township/Road Dist 09 HANOVER
Municipality 0000
Urban Area: 1051 1051
Functional Class: 6 MINOR COLLECTOR
**** CLEARANCES **** **South/East** **North/West**
Max Rdwy Width: 24.0
Horizontal: 27.9 0.0
Lateral:

Station: 0.2700
Segment:
Linked: Y
Natl. Hwy System: Not on NHS
Inventory Direction:
Curr AADT Yr/Count: 2018 / 3000
Est Truck Percentage: 3
Number Of Lanes: 2
One Or Two Way: 2 Two-Way
Bypass Length: 1
Future AADT Yr/Cnt: 2032 / 3657
Designated Truck Rte: NONE
Special Systems: No

Key Route Under Data

Station:
Segment:
Linked:
Natl. Hwy System:
Inventory Direction:
Curr AADT Yr/Count: /
Est Truck Percentage:
South/East **North/West**
Number Of Lanes:
One Or Two Way:
Bypass Length:
Future AADT Yr/Cnt: /
Designated Truck Rte:
Special Systems:

*** Marked Route On Data ***

	Designation		Kind		Number
Route #1:	1	Mainline	4	FAS, CH, or TR's Unmarked	
Route #2:	1	Mainline			
Route #3:	1	Mainline			

*** Marked Route Under Data ***

Designation	Kind	Number

Structure Number: 016-3047 **District: 1**

Data Related to Inspection Information

*** Inspection Intervals ***				*** Maximum Allowable Posting Limits ***				Bridge Posting Level:	
Routine NBIS:	24 MOS	**Underwater:**	0 MOS	**One Truck At A Time:**	0	**Combination Type 3S-1:**	Tons	5	No Posting Required
		Special:	N	**Single Unit Vehicles:**	Tons	**Combination Type 3S-2**	Tons		

Inspection/Appraisal Information

Inspection Date: 06/19/2020 **Inspection Temperature:** 73Deg. F

Deck:	4	POOR CONDITION - ADVANCED DETERIORATION						**Single Unit Vehicles:**	Tons
Superstructure:	4	POOR CONDITION - ADVANCED DETERIORATION						**Combination Type 3S-1:**	Tons
Substructure:	7	GOOD CONDITION - SOME MINOR PROBLEMS						**Combination Type 3S-2:**	Tons
Culvert:	N	NOT APPLICABLE						**One Truck At A Time:**	0
Channel and Protection:	7	GOOD CONDITION - SOME MINOR PROBLEMS		**Deck Wearing Surf:**	C	LAT MOD CON OVERLAY		**Last Paint Type:**	
Structural Evaluation:	4	MINIMUM ADEQUACY TO BE LEFT IN PLACE		**Deck Membrane:**	F	NONE			
Deck Geometry:	2	INTOLERABLE - HIGH PRIORITY FOR REPLACEMENT		**Deck Protection:**	J	NONE			
Underclearance-Vert/Lat.:	N	NOT APPLICABLE		**Total Deck Thick:**	29.0				
Waterway Adequacy:	9	SUPERIOR TO PRESENT DESIRABLE CRITERIA		**Last Paint Date:**					
Approach Roadway Align:	8	EQUAL TO PRESENT DESIRABLE CRITERIA							
Bridge Railing Appraisal:	2	Doesn't Meet Standards							
Approach Guardrail:	333	Acceptable	Acceptable	Acceptable					
Pier Navig Protection:	N	N/A							

Underwater Inspection/Appraisal Information

Inspection Date:
Temperature: **Inspection Method:**
Appraisal Rating:

Scour Critical Information

Rating: 5 CALCULATED SCOUR ACCEPTABLE **Evaluation Method:** B Rational Analysis
Analysis Date: 01/05/1998

Miscellaneous

Microfilm Data Recorded: No

Construction Information

Year: 1958 Original Reconstructed
Route: CH 074 **Sta:** 10+60.00 **Sta:**
Section Nbr: 074-0101 M.F.T.
Contract Nbr:
Fed Aid Pr#: 00000000000000
Built By: 0 UNKNOWN

ATTACHMENT C

Bridge Inspection Report

Illinois Department of Transportation

Routine Inspection Report

SN: 016-3047	District: 1	Spans: 1	Appr. Spans: 0	Skew: 0	ADT: 3000	Truck Pct: 3
ADT Un:	Maint. Co: COOK		Twsp: HANOVER		Status: OPEN - NO RESTRICTIONS	
Facility Carried: ROHRSSEN RD			Feature Crossed: POPLAR CREEK			
Location: 0.3 M N ILL 19 P7	Municipality:		Team/Sub Section:		Insp/Rte:	
Bridge Name: ROHRSSEN RD BRIDGE			Material & Type: PRESTRESS CONCRETE/BOX BEAM - MULTIPLE ADJACENT			
Insp. Intervals Routine: 24	Fracture Critical: 0		Underwater: 0	Special: 0	Element Level: 0	
90 - Inspection Date: 06/13/2022			90C - Temp (°F): 70 deg		90B1 - In Depth: ☑	
Is Delinquent: ☐	Reason:					
90A - Agency Program Manager: John Mueller						
90A1 - Team Leader: Emanuel Odoms			90A2 - Inspector: Jules Williams-Lambert			

90B - Previous Inspection Remarks

Resources

Time to Inspect (H:M): 04:00	Traffic Control: N	Boat: N	Waders: Y	Snooper: N
Ladder: N	Manlift: N	Bucket Truck: N	Other: _	

Inspector's Appraisals

	Prev	New	Comments
58 - Deck Condition:	4	4	Deck condition rating is same as superstructure condition rating (Item 59)
59 - Superstructure Condition:	4	4	Beams 1 & 4 exhibit spalling with exposed prestressed strands at midspan for less than 1/3 of the box beam width. Some areas of spalling at beam ends, see remarks.
60 - Substructure Condition:	7	7	Scattered areas of minor to mod. cracking w/ leaching, typ. Spalled areas w/ exp. reinf. at east & west ends of south abut.
62 - Culvert Condition:	N	N	
61 - Channel Condition:	7	7	
71 - Waterway Adequacy:	9	9	
72 - Approach Rdwy Align:	8	8	
111 - Pier Navig Protection:	N	N	

	Prev	New
36A - Bridge Railing Adequacy:	2	2

	Prev	New		Prev	New		Prev	New
Approach Guardrail Adequacy: 36B - Transitions:	3	3	36C - Guardrail:	3	3	36D - Ends:	3	3

Additional Inventory Data - To Be Verified During Routine Inspection

108A - Wearing Surface Type: C	108B - Type of Membrane: F	108C - Deck Protection: J	
108D - Total Deck Thickness (In.): 29			
59A - Paint Date (Mo/Yr):	59B - Paint Type:		
59C - Utilities Attached: N N N			
113A - Scour Critical Analysis Date: 1/5/199	113 - Scour Critical Rating: 5	113B - Evaluation Method: B	

Weight Limit Posting:	70A2 - Single Unit Vehicles:	
	70B2 - Combination Type 3S-1 (3 or 4 axles):	
	70C2 - Combination Type 3S-2 (5 or more axles):	
	70D2 - One Truck at a Time:	

90B - Inspection Remarks

Beam numbering is from East to West.

Beam 1 exhibits two 6 sf spalls near midspan, less than 1/3 beam width, one with 2 severed strands and the other with 3 exposed and heavily corroded strands.

Beam 4 exhibits a 10 sf spall near midspan, less than 1/3 beam width, with 2 severed strands.

Beam 9 exhibits a 2 sf spall approx 6 ft from south end, no exposed strands visible.

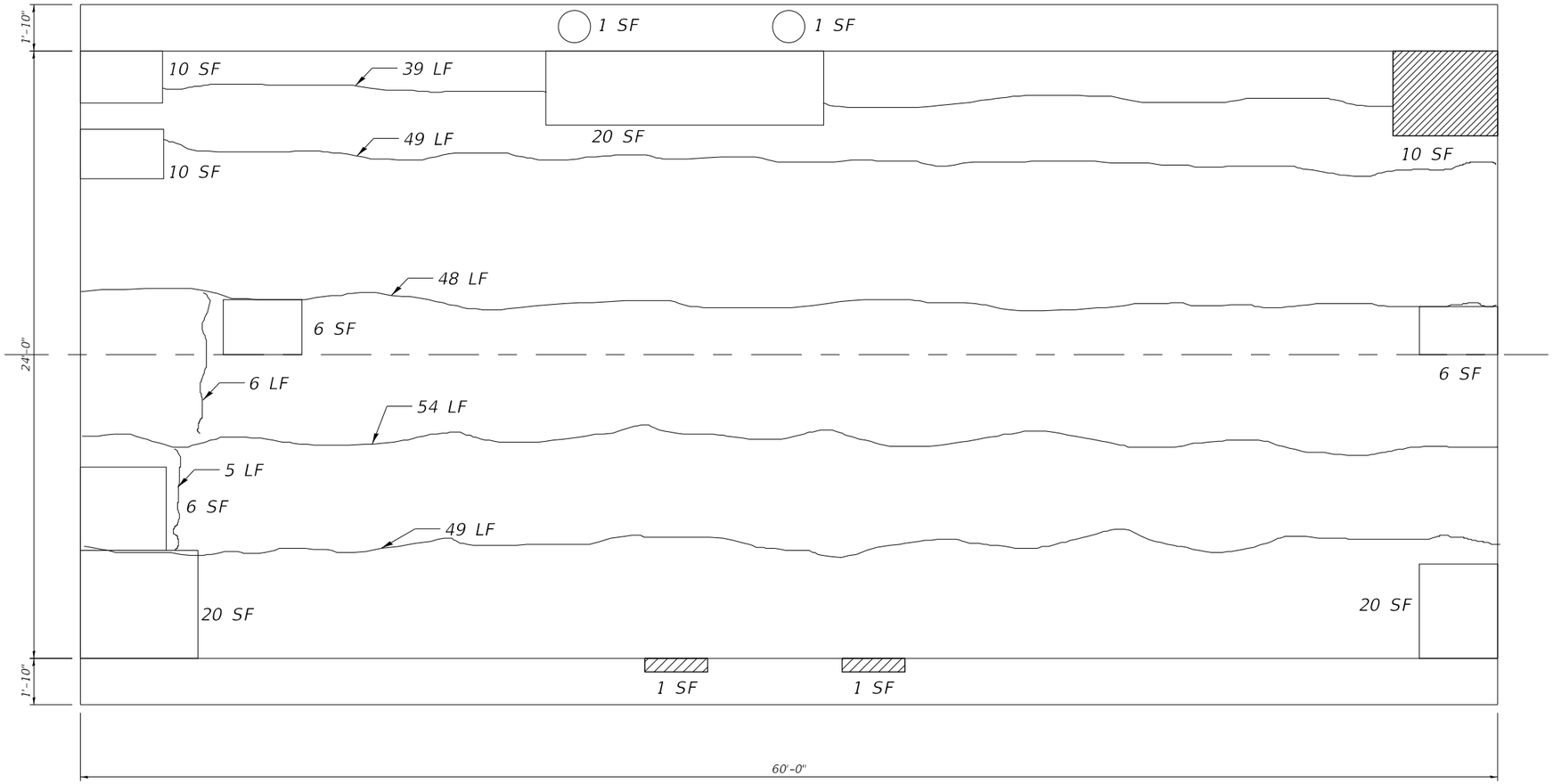
Beams 4 & 6 exhibit minor spalling with rust staining at north end, and beam 7 at south end.

	Signature	Date
Inspection Team Leader:	Emanuel Odom	6/13/2022
Agency Program Manager:	[signature]	6/22/2022

Use Additional Forms as Needed

ATTACHMENT D

Top and Bottom of Deck Condition Surveys



TOP OF DECK

LEGEND

- CRACK≤ 1/16" (L.F.)
- CRACK> 1/16" (L.F.)
- DELAMINATION (S.F.)
- SPALL (S.F.)
- SPALL W/ EXPOSED REINF. (S.F.)
- MAP CRACKING (S.F.)

DRAWN BY TCS DATE

CHECKED BY HT DATE

MILHOUSE ENGINEERING & CONSTRUCTION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	DATE	DESCRIPTION

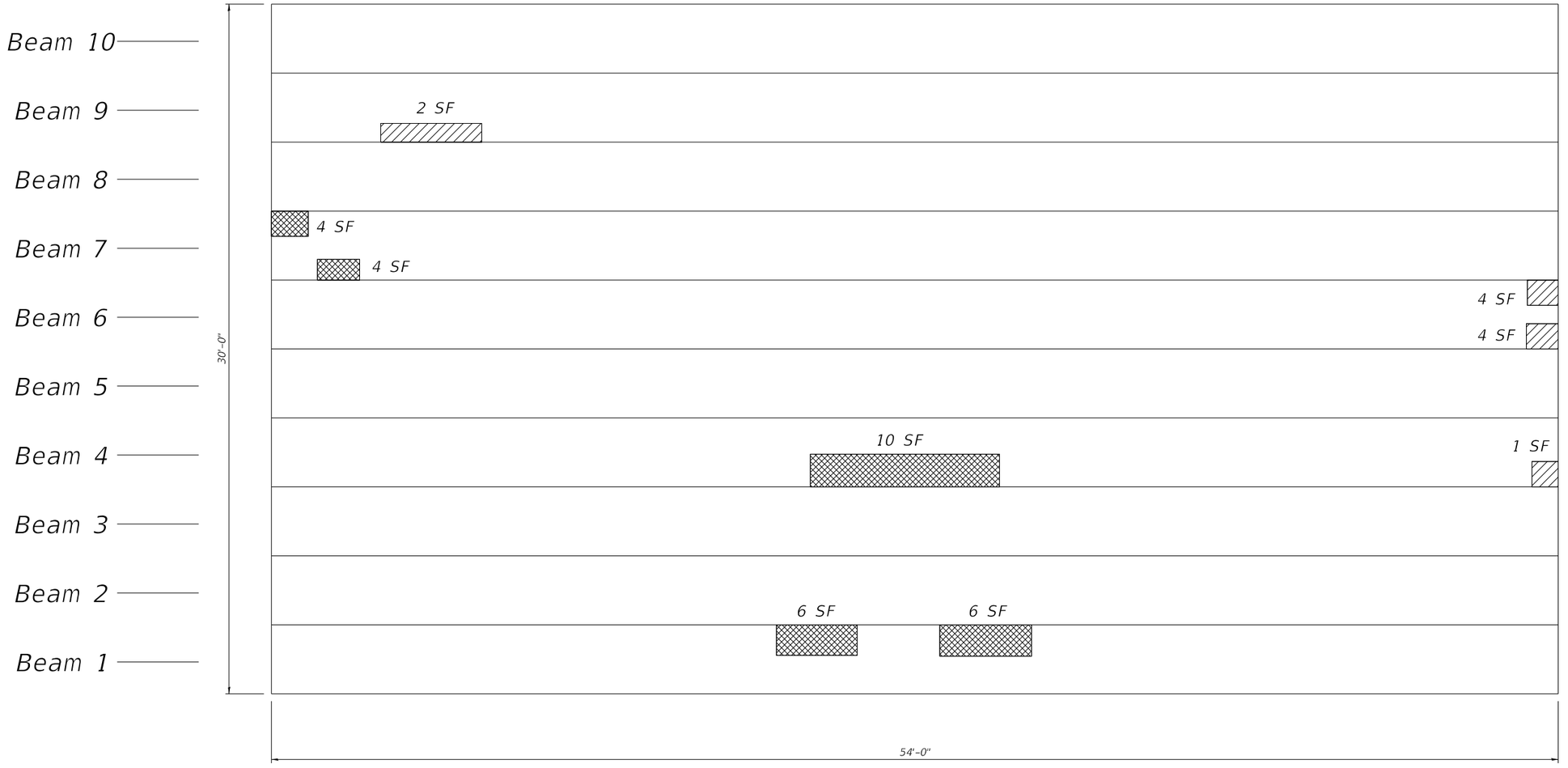
CONTRACT NO. xx-xx-xxxx

xxx-xxxx ROHRSSEN ROAD PHASE I
TOP OF DECK

SHT NO. 02

DRAWING NO. ____ OF

P:\2021\1030-00 - CCDOTH Preliminary Engineering Services_*2028-18231A\1030-11 - Task Order_*11 Rohrssen Road Phase I Scoping\3 Technical Documents\3.2 Field Note Sketches\DGN files\INSPECTION NOTES.dgn



BOTTOM OF DECK

LEGEND

- CRACK≤ 1/16" (L.F.)
- CRACK> 1/16" (L.F.)
- DELAMINATION (S.F.)
- SPALL (S.F.)
- SPALL W/ EXPOSED REINF. (S.F.)
- MAP CRACKING (S.F.)

P:\2021\1038-00 - CCDOTH Preliminary Engineering Services_*2020-18231A\1038-11 - Task Order_*11 Rohrssen Road Phase I Scoping\3 Technical Documents\3.2 Field Notes Sketches\DGN files\INSPECTION NOTES.dgn

DRAWN BY TCS DATE

CHECKED BY HT DATE

MILHOUSE ENGINEERING & CONSTRUCTION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. xx-xx-xxxx

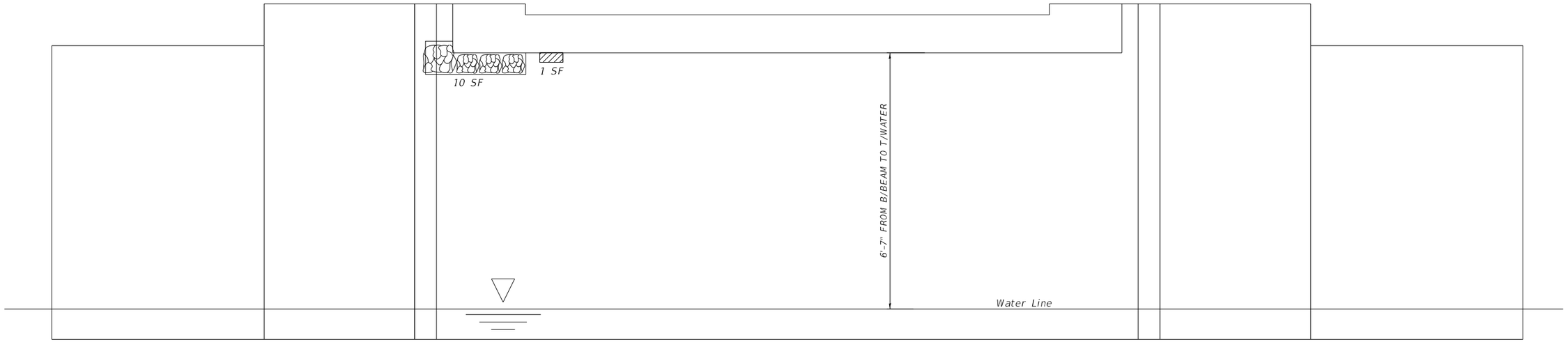
xxx-xxxx ROHRSSEN ROAD PHASE I
BOTTOM OF DECK

SHT NO. 02

DRAWING NO. ____ OF ____

ATTACHMENT E

Substructure Condition Surveys



NORTH ABUTMENT & WING WALLS

LEGEND

- CRACK≤ 1/16" (L.F.)
- CRACK> 1/16" (L.F.)
- DELAMINATION (S.F.)
- SPALL (S.F.)
- SPALL W/ EXPOSED REINF. (S.F.)
- MAP CRACKING (S.F.)

DRAWN BY TCS DATE

CHECKED BY HT DATE

MILHOUSE ENGINEERING & CONSTRUCTION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	DATE	DESCRIPTION

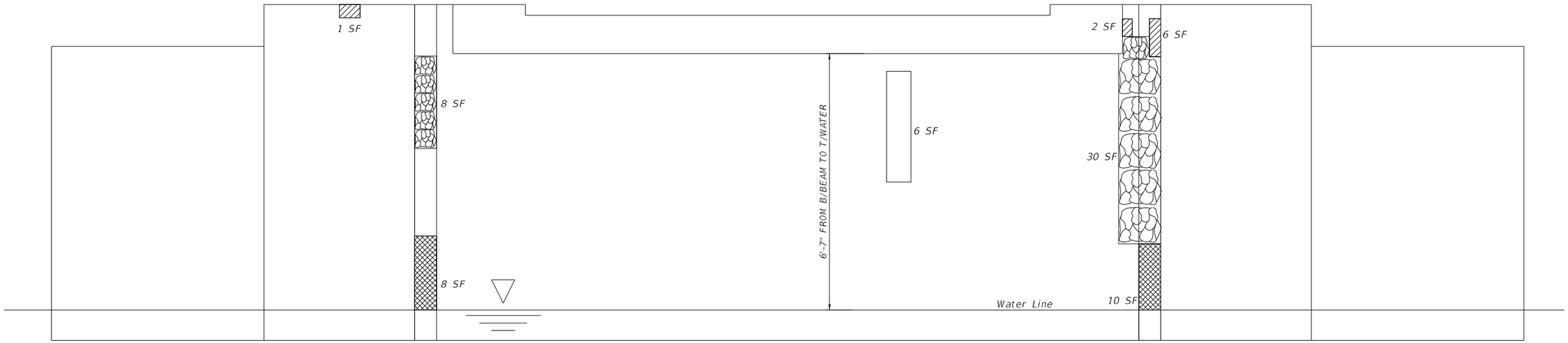
CONTRACT NO. xx-xx-xxxx

xxx-xxxx ROHRSSEN ROAD PHASE I
NORTH ABUTMENT & WING WALLS

SHT NO. 02

DRAWING NO. ____ OF

P:\2021\18030-00 - CDOT\H Preliminary Engineering Services_*2028-1823JA\18030-11 - Task Order_*11 Rohrssen Road Phase I Scoping\3 Technical Documents\3.2 Field Note Sketches\DGN files\INSPECTION NOTES.dgn



SOUTH ABUTMENT & WING WALLS

LEGEND

- CRACK≤ 1/16" (L.F.)
- CRACK> 1/16" (L.F.)
- DELAMINATION (S.F.)
- SPALL (S.F.)
- SPALL W/ EXPOSED REINF. (S.F.)
- MAP CRACKING (S.F.)

DRAWN BY TCS DATE

CHECKED BY HT DATE

MILHOUSE ENGINEERING & CONSTRUCTION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. xx-xx-xxxx

xxx-xxxx ROHRSSEN ROAD PHASE I
SOUTH ABUTMENT & WING WALLS

SHT NO. 02

DRAWING NO. ___ OF ...

P:\2021\1030-00 - CDOTH Preliminary Engineering Services_*2020-18231A\1030-11 - Task Order_*11 Rohrssen Road Phase I Scoping\3 Technical Documents\3.2 Field Note Sketches\DGN files\INSPECTION NOTES.dgn

ATTACHMENT F

Cost Estimate

ALTERNATIVE 1 - COST ESTIMATE

Rohrssen Road over Poplar Creek

SN 016-3047

PAY ITEM NO.	ITEM	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL COST
50101500	Removal of Existing Superstructures	EACH	1.0	$ 48,000.00	$ 48,000.00
50300255	Concrete Superstructures	CU YD	103.0	$ 2,500.00	$ 257,500.00
50300260	Bridge Deck Grooving	SQ YD	144.0	$ 15.00	$ 2,160.00
50300300	Protective Coat	SQ YD	38.0	$ 2.50	$ 95.00
50400505	PPC Deck Beams (27" Depth)	SQ FT	1856.0	$ 83.00	$ 154,048.00
50800205	Reinforcement Bars, Epoxy Coated	POUND	15450.0	$ 1.50	$ 23,175.00
50800530	Mechanical Splicers	EACH	168.0	$ 150.00	$ 25,200.00
50900105	Aluminum Railing, Type L	FT	120.0	$ 160.00	$ 19,200.00
51500100	Name Plates	EACH	1.0	$ 700.00	$ 700.00
58700300	Concrete Sealer	SQ YD	49.0	$ 4.00	$ 196.00
X5030305	Concrete Wearing Surface	SQ YD	144.0	$ 100.00	$ 14,400.00
Z0012754	Structural Repair of Coincrete (Depth Equal to or Less Thank 5 Inches)	SQ FT	53.0	$ 300.00	$ 15,900.00
Z0012755	Structural Repair of Coincrete (Depth Greater Than 5 Inches)	SQ FT	8.0	$ 400.00	$ 3,200.00
67100100	Mobilization - 6%	L SUM	1	$ 33,826.44	$ 33,826.44
				SubTotal Amount of Base Bid	$ 597,600.44
				35% Contingency	$ 209,160.00
				Total Amount of Base Bid	$ 806,760.44
				Total Amount of Base Bid (rounded to nearest $1000)	**$ 807,000.00**

ALTERNATIVE 2 - COST ESTIMATE

Rohrssen Road over Poplar Creek

SN 016-3047

PAY ITEM NO.	ITEM	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL COST
20300100	Channel Excavation	CU YD	113.0	$ 50.00	$ 5,650.00
28100109	Stone RipRap (Class A5)	SQ YD	339.0	$ 50.00	$ 16,950.00
28200200	Filter Fabric	SQ YD	339.0	$ 4.00	$ 1,356.00
50101500	Removal of Existing Superstructures	EACH	1.0	$ 48,000.00	$ 48,000.00
50102400	Concrete Removal	CU YD	8.6	$ 2,000.00	$ 17,250.00
50200300	Cofferdam Excavation	CU YD	40.0	$ 65.00	$ 2,600.00
50201101	Cofferdam Excavation (Type 1) (Location 1)	EACH	1.0	$ 20,000.00	$ 20,000.00
50201121	Cofferdam Excavation (Type 1) (Location 2)	EACH	1.0	$ 20,000.00	$ 20,000.00
50300225	Concrete Structures	CU YD	21.0	$ 1,200.00	$ 25,200.00
50300255	Concrete Superstructures	CU YD	103.0	$ 2,500.00	$ 257,500.00
50301350	Concrete Superstructures (Approach Slab)	CU YD	177.8	$ 2,500.00	$ 444,500.00
50300260	Bridge Deck Grooving	SQ YD	192.0	$ 15.00	$ 2,880.00
50300300	Protective Coat	SQ YD	43.0	$ 2.50	$ 107.50
50400505	PPC Deck Beams (27" Depth)	SQ FT	1856.0	$ 83.00	$ 154,048.00
50800205	Reinforcement Bars, Epoxy Coated	POUND	18600.0	$ 1.50	$ 27,900.00
50800530	Mechanical Splicers	EACH	168.0	$ 150.00	$ 25,200.00
50900105	Aluminum Railing, Type L	FT	120.0	$ 160.00	$ 19,200.00

ALTERNATIVE 2 - COST ESTIMATE

Rohrssen Road over Poplar Creek

SN 016-3047

PAY ITEM NO.	ITEM	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL COST
51500100	Name Plates	EACH	1.0	$ 700.00	$ 700.00
58600101	Granular Backfill for Structures	CU YD	20	$ 60.00	$ 1,200.00
58700300	Concrete Sealer	SQ YD	126	$ 4.00	$ 504.00
59100100	Geocomposite Wall Drain	SQ YD	10	$ 30.00	$ 300.00
X5030305	Concrete Wearing Surface	SQ YD	192.0	$ 100.00	$ 19,200.00
Z0012754	Structural Repair of Coincrete (Depth Equal to or Less Thank 5 Inches)	SQ FT	53.0	$ 300.00	$ 15,900.00
Z0012755	Structural Repair of Coincrete (Depth Greater Than 5 Inches)	SQ FT	8.0	$ 400.00	$ 3,200.00
Z0046304	Pipe Underdrains for Structures, 4"	FT	6.0	$ 35.00	$ 210.00
67100100	Mobilization - 6%	L SUM	1	$ 67,773.33	$ 67,773.33
			SubTotal Amount of Base Bid		$ 1,197,328.83
			35% Contingency		$ 419,070.00
			Total Amount of Base Bid		$ 1,616,398.83
	Total Amount of Base Bid (rounded to nearest $1000)				**$ 1,616,000.00**

ALTERNATIVE 3 - COST ESTIMATE

Rohrssen Road over Poplar Creek

SN 016-3047

PAY ITEM NO.	ITEM	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL COST
20300100	Channel Excavation	CU YD	113.0	$ 50.00	$ 5,650.00
28100109	Stone RipRap (Class A5)	SQ YD	339.0	$ 50.00	$ 16,950.00
28200200	Filter Fabric	SQ YD	339.0	$ 4.00	$ 1,356.00
50100100	Removal of Existing Structures	EACH	1.0	$ 124,800.00	$ 124,800.00
50200100	Structure Excavation	CU YD	53.3	$ 70.00	$ 3,733.33
50300225	Concrete Structures	CU YD	33.0	$ 1,200.00	$ 39,600.00
50300255	Concrete Superstructures	CU YD	115.0	$ 2,500.00	$ 287,500.00
50301350	Concrete Superstructures (Approach Slab)	CU YD	177.8	$ 2,500.00	$ 444,500.00
50300260	Bridge Deck Grooving	SQ YD	214.0	$ 15.00	$ 3,210.00
50300300	Protective Coat	SQ YD	43.0	$ 2.50	$ 107.50
50400505	PPC Deck Beams (27" Depth)	SQ FT	1856.0	$ 83.00	$ 154,048.00
50800205	Reinforcement Bars, Epoxy Coated	POUND	22200.0	$ 1.50	$ 33,300.00
50900105	Aluminum Railing, Type L	FT	120.0	$ 160.00	$ 19,200.00
51201900	Furnishing Steel Piles HP14X89	FT	936	$ 83.00	$ 77,688.00
51202305	Driving Piles	FT	936	$ 1.00	$ 936.00
51203900	Test Pile Steel HP14X89	EACH	1	$ 6,000.00	$ 6,000.00

ALTERNATIVE 3 - COST ESTIMATE

Rohrssen Road over Poplar Creek

SN 016-3047

PAY ITEM NO.	ITEM	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL COST
51204650	Pile Shoes	EACH	18.0	$ 100.00	$ 1,800.00
51500100	Name Plates	EACH	1.0	$ 700.00	$ 700.00
58600101	Granular Backfill for Structures	CU YD	63.0	$ 60.00	$ 3,780.00
58700300	Concrete Sealer	SQ YD	126.0	$ 4.00	$ 504.00
59100100	Geocomposite Wall Drain	SQ YD	41	$ 30.00	$ 1,230.00
X5030305	Concrete Wearing Surface	SQ YD	214	$ 100.00	$ 21,400.00
Z0046304	Pipe Underdrains for Structures, 4"	FT	70	$ 35.00	$ 2,450.00
67100100	Mobilization - 6%	L SUM	1	$ 75,026.57	$ 75,026.57
			SubTotal Amount of Base Bid		$ 1,325,469.40
			35% Contingency		$ 463,910.00
			Total Amount of Base Bid		$ 1,789,379.40
	Total Amount of Base Bid (rounded to nearest $1000)				**$ 1,789,000.00**

ALTERNATIVE 4 - COST ESTIMATE

Rohrssen Road over Poplar Creek

SN 016-3047

PAY ITEM NO.	ITEM	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL COST
20300100	Channel Excavation	CU YD	113.0	$ 50.00	$ 5,650.00
28100109	Stone RipRap (Class A5)	SQ YD	339.0	$ 50.00	$ 16,950.00
28200200	Filter Fabric	SQ YD	339.0	$ 4.00	$ 1,356.00
50100100	Removal of Existing Structures	EACH	1.0	$ 124,800.00	$ 124,800.00
50200100	Structure Excavation	CU YD	53.3	$ 70.00	$ 3,733.33
50300225	Concrete Structures	CU YD	68.0	$ 1,200.00	$ 81,600.00
50300255	Concrete Superstructures	CU YD	165.0	$ 2,500.00	$ 412,500.00
50301350	Concrete Superstructures (Approach Slab)	CU YD	177.8	$ 2,500.00	$ 444,500.00
50300260	Bridge Deck Grooving	SQ YD	214.0	$ 15.00	$ 3,210.00
50300300	Protective Coat	SQ YD	43.0	$ 2.50	$ 107.50
50500105	Furnishing and Erecting Structural Steel	L SUM	1.0	$ 192,000.00	$ 192,000.00
50800205	Reinforcement Bars, Epoxy Coated	POUND	34950.0	$ 1.50	$ 52,425.00
50500505	Stud Shear Connectors	EACH	1440.0	$ 7.00	$ 10,080.00
52100520	Anchor Bolts	EACH	24.0	$ 120.00	$ 2,880.00
50900105	Aluminum Railing, Type L	FT	120.0	$ 160.00	$ 19,200.00

ALTERNATIVE 4 - COST ESTIMATE

Rohrssen Road over Poplar Creek

SN 016-3047

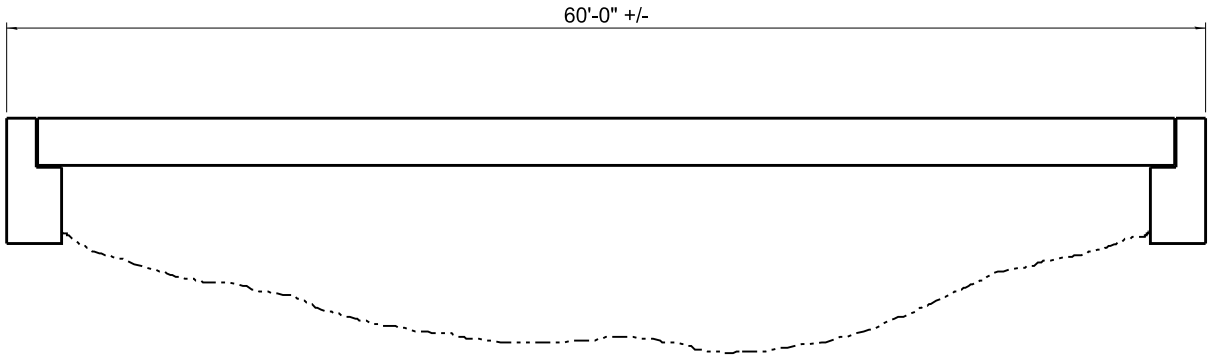
PAY ITEM NO.	ITEM	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL COST
51201900	Furnishing Steel Piles HP14X89	FT	936.0	$ 83.00	$ 77,688.00
51202305	Driving Piles	FT	936.0	$ 1.00	$ 936.00
51203900	Test Pile Steel HP14X89	EACH	1	$ 6,000.00	$ 6,000.00
51204650	Pile Shoes	EACH	18	$ 100.00	$ 1,800.00
51500100	Name Plates	EACH	1	$ 700.00	$ 700.00
58600101	Granular Backfill for Structures	CU YD	63.0	$ 60.00	$ 3,780.00
58700300	Concrete Sealer	SQ YD	126.0	$ 4.00	$ 504.00
59100100	Geocomposite Wall Drain	SQ YD	41.0	$ 30.00	$ 1,230.00
X5030305	Concrete Wearing Surface	SQ YD	214.0	$ 100.00	$ 21,400.00
Z0046304	Pipe Underdrains for Structures, 4"	FT	70	$ 35.00	$ 2,450.00
67100100	Mobilization - 6%	L SUM	1	$ 88,909.79	$ 88,909.79
			SubTotal Amount of Base Bid		$ 1,576,389.62
			35% Contingency		$ 551,740.00
			Total Amount of Base Bid		$ 2,128,129.62
	Total Amount of Base Bid (rounded to nearest $1000)				**$ 2,128,000.00**

ATTACHMENT G

Proposed Structure Sketch

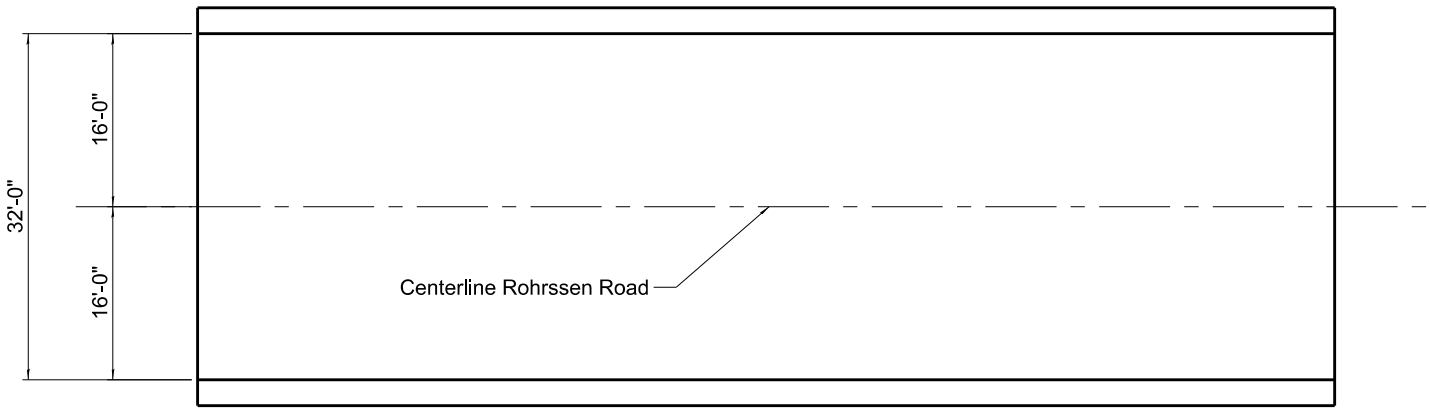
MILHOUSE SM

PROPOSED STRUCTURE SKETCH S.N. 016-3047

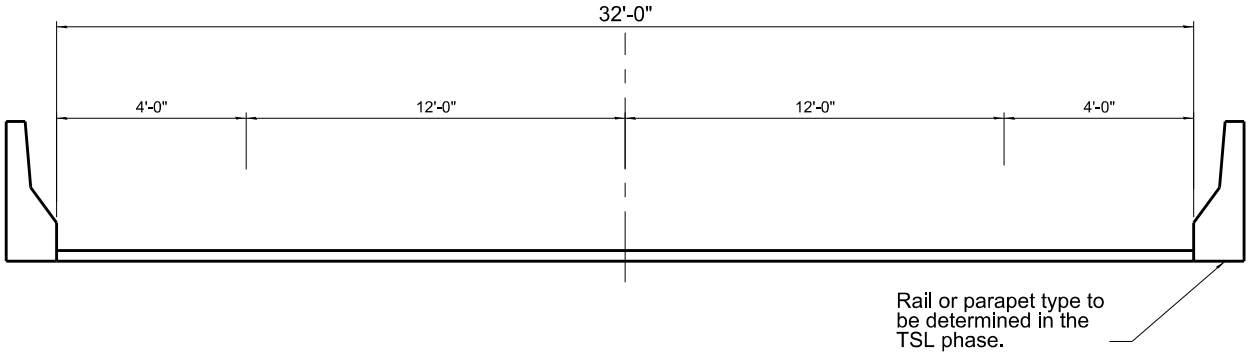


ELEVATION PROPOSED STRUCTURE

Notes: The number and location of piers, profile grade and bridge length are subject to refinement in the TS&L plan phase. The superstructure type, beam spacing and rail type will be determined during the TS&L plan phase.



PLAN PROPOSED STRUCTURE



CROSS SECTION PROPOSED STRUCTURE

ATTACHMENT H

Structure Photos



Photo 1: Top of deck, general view, looking South.



Photo 2: Top of deck, general view, looking North.



Photo 3: Top of deck, open longitudinal crack in wearing surface, looking South, typ.



Photo 4: Top of deck, open longitudinal crack in wearing surface, looking Southeast, typ.



Photo 5: Top of deck, Northwest corner, spall and cracking in wearing surface.



Photo 6: Top of deck, cracking in wearing surface at North end.



Photo 7: West parapet, interior face, general view.



Photo 8: East parapet, interior face, general view.



Photo 9: West parapet, exterior face, small spalls at sidewalk level, with pop-out and rust staining.



Photo 10: Bridge plates at West parapet.



Photo 11: North joint, deterioration, spalling, bituminous patches.



Photo 12: North joint, deterioration, spalling, bituminous patches at center of bridge.



Photo 13: South joint, deterioration, spalling, bituminous patches.



Photo 14: South joint, deterioration, spalling, bituminous patches.



Photo 15: Beam 1, spall with severed strands at midspan.

ATTACHMENT I

Hey and Associates, Inc. Memorandum

Hey and Associates, Inc.
Engineering, Ecology and Landscape Architecture

Memorandum

TO:	John McNelis (CCDOTH)	Proj. No. 22-0073
FROM:	Anna Culcasi, P.E., CFM (Hey and Associates) Patrick Lach, P.E., CFM (Hey and Associates)	
DATE:	June 21, 2022	
RE:	Rohrssen Road Bridge	

Introduction

At the request of Cook County DOTH, Hey has prepared this memorandum to provide information for the Rohrssen Road Bridge with respect to the FEMA floodplain elevations and IDOT Local Roads and Streets design requirements.

Survey Data

Hey reviewed the survey for the Rohrssen Road bridge that was performed in 2009 as part of the Poplar Creek DWP for MWRD. The survey showed the low chord of the bridge at elevation 756.05.

FEMA FIS Data

The FEMA effective FIS (Effective) is dated as revised on September 10, 2021. FEMA is in the process of mapping a newer flood study for Poplar Creek and has released a preliminary FIS dated September 22, 2021 (Preliminary). There is a significant increase in flow and water surface elevations in the preliminary study.

Below is a comparison of the discharges between the two studies for Poplar Creek at Rohrssen Road.

Table 1. FEMA Discharges for Poplar Creek at Rohrssen Road (cfs)

	10-yr	25-yr	50-yr	100-yr	500-yr
Effective	918	NA	1,145	1,700	2,363
Preliminary	1,213	1,884	2,491	3,050	5,313

Below is a comparison of the profile elevations between the two studies for Poplar Creek at Rohrssen Road.

Table 2. FEMA Water Surface Elevation for Poplar Creek at Rohrssen Road

	10-yr	25-yr	50-yr	100-yr	500-yr
Effective	753.2	NA	754.4	754.8	755.6
Preliminary	754.5	755.7	756.3	758.2	760.4

The log-log interpolation method was used to approximate the flow for the 30-year storm event. Below is a comparison of the discharges including the 30-year storm event.

Table 3. Discharges for Poplar Creek at Rohrssen Road (cfs)

	10-yr	25-yr	30-yr	50-yr	100-yr	500-yr
Effective	918	NA	1,208	1,145	1,700	2,363
Preliminary	1,213	1,884	2,120	2,491	3,050	5,313

The log-log interpolation method was used to approximate the water surface elevation for the 30-year storm event. Below is a comparison of the elevations including the 30-year storm event.

Table 4. Water Surface Elevation for Poplar Creek at Rohrssen Road

	10-yr	25-yr	30-yr	50-yr	100-yr	500-yr
Effective	753.2	NA	754.0	754.4	754.8	755.6
Preliminary	754.5	755.7	756.0	756.3	758.2	760.4

IDOT Clearance Requirements

The Rohrssen Road Bridge is considered an urban structure rather than a rural structure based on the Census Bureau designation map. For an Urban Collector/Local Streets Bridge the IDOT Local Roads and Streets Manual requires the 30-year storm event as the Minimum Design Flood Frequency. For all scenarios, the IDOT Local Roads and Streets Manual requires one (1) foot of clearance from the low chord of the bridge to the 30-year Design High-Water Elevation. (Reference Figure 36-5C). Any proposed clearance less than 1-ft must be accompanied by a request for a design exception. The ADT for this bridge is 3,000 and therefore the design criteria would be the same even it if was designated as rural.

Results

The Low Chord of the existing structure is at elevation 756.05. Below is the clearance provided above the 30-year design storm event, per the IDOT Local Roads and Streets Manual.

Table 5. Clearance for Poplar Creek at Rohrssen Road (30 year)

	Low Chord Elevation	30-year WSEL	Clearance (ft)
Effective	756.05	754.0	2.05
Preliminary	756.05	756.0	0.05

If the effective FIS is used for the design criteria, the Rohrssen Road bridge has adequate clearance to meet the design criteria in the IDOT Local Roads and Streets Manual. If the preliminary FIS data is used, then the Rohrssen Road bridge does not have adequate clearance above the 30-year design storm event.

The preliminary FIS and FIRM maps indicate that the bridge may be a source of structural damage to several homes. If that is the case then the requirements of IDNR-OWR Part 3708 will need to be met, which require the reduction of the water surface elevation to 0.1 feet above the natural water surface elevation, which would likely involve a much large bridge opening. If meeting this requirement is not

feasible, then an analysis documenting why it is not feasible would need to be submitted. Documentation could include impacts to Section 4(f) land, roadway profile changes, compensatory storage, tree removal, property acquisition, structure buyouts, and other impacts and considerations. Alternatively, CCDOTH may wish to approach IDOT to reclassify the project such that is it not considered a reconstruction and therefore not be subject to the clearance requirements or Part 3708.

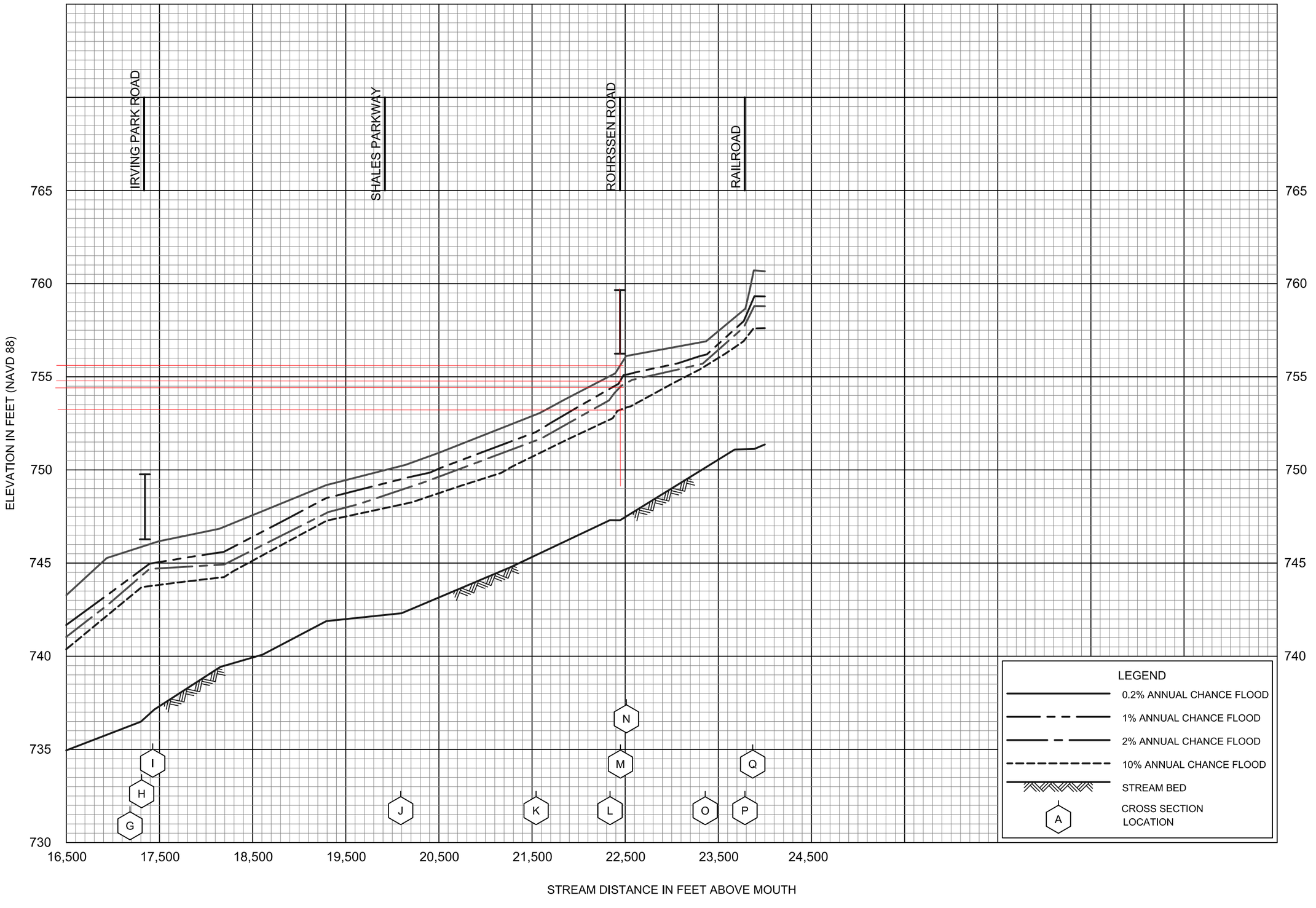
Appendix A

FEMA Effective FIS Data

Table 9: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10-Percent Annual Chance	4-Percent Annual Chance	2-Percent Annual Chance	1-Percent Annual Chance	0.2-Percent Annual Chance
North Navy Ditch	Just downstream of Soo Line Railroad	3.2	230	*	383	431	508
North Tributary to Tinley Creek	At 88th Avenue	0.4	*	*	*	84	*
Oak Lawn Ditch	At confluence with Stony Creek (West)	3.4	383	*	585	680	920
Oak Lawn Ditch	At Edison Avenue	3.0	330	*	510	590	800
Oak Lawn Ditch	At Kostner Avenue	1.3	159	*	243	282	383
Park Creek	At Interstate Route 57	1.2	79	*	121	139	181
Plainfield Road Ditch	At mouth at Flag Creek	1.1	197	*	310	367	510
Plainfield Road Ditch	At County Line Road	1.0	141	*	223	262	365
Plum Creek	At Steger Road	34.8	1,152	*	1,594	1,800	2,370
Poplar Creek	At the mouth	42.3	1,085	*	1,709	2,010	2,794
Poplar Creek	Upstream of the confluence of Lord's Park Tributary	38.7	923	*	1,454	1,710	2,377
Poplar Creek	At Irving Park Road	36.5	918	*	1,445	1,700	2,363
Poplar Creek	At Golf Road, approximately 31,800 feet above confluence with Fox River	24.5	675	*	1,063	1,250	1,738
Poplar Creek	At Bartlett Road	23.2	678	*	1,067	1,255	1,744
Poplar Creek	At Higgins Road	5.8	243	*	382	450	625
Poplar Creek	At Algonquin Road	3.1	166	*	261	307	427

*Data not available



FLOOD PROFILES

POPLAR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

COOK COUNTY, IL

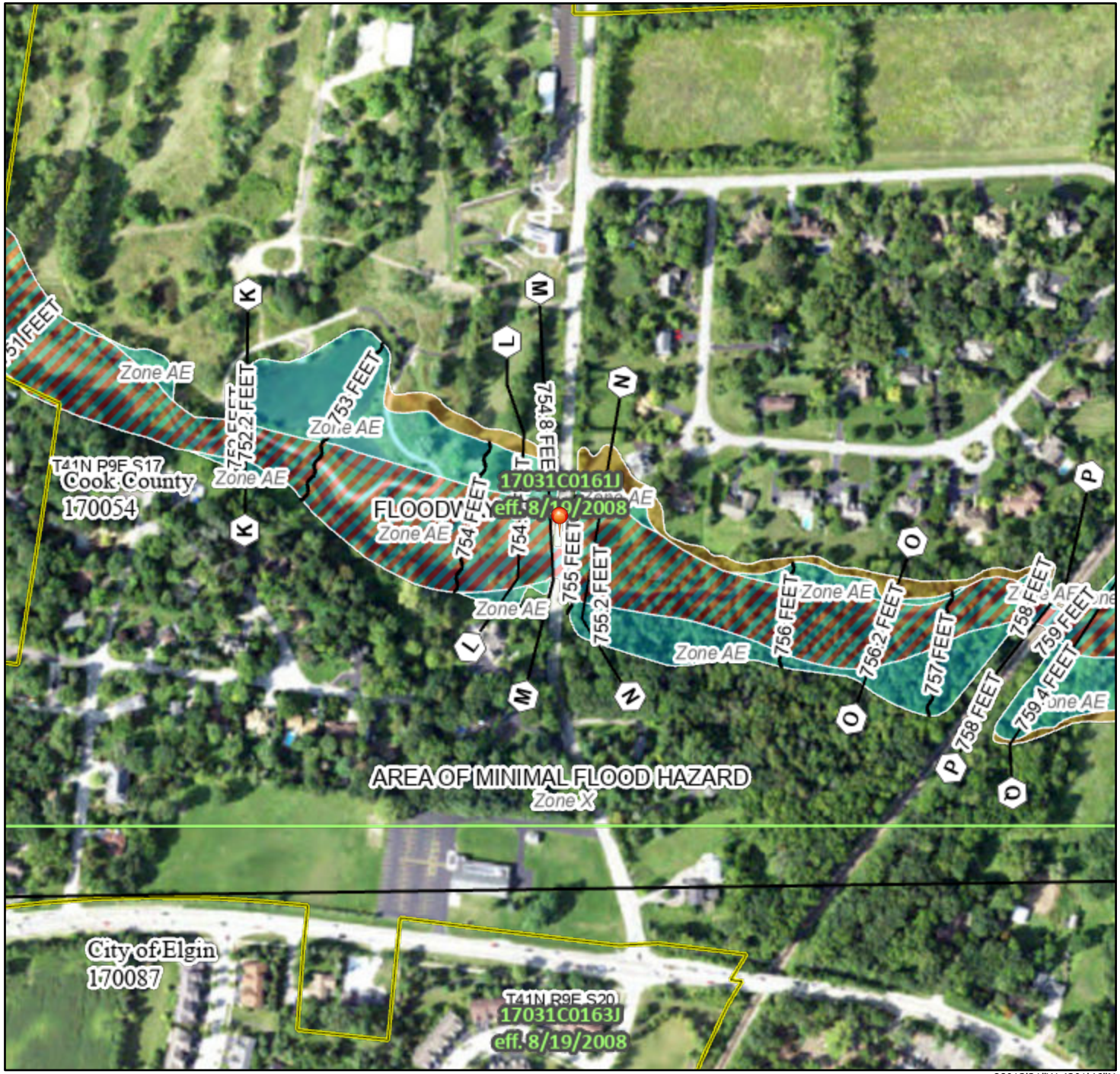
AND INCORPORATED AREAS

267P

National Flood Hazard Layer FIRMette

FEMA

88°14'8"W 42°2'13"N



88°13'31"W 42°1'46"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/21/2022 at 1:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix B

FEMA Preliminary FIS Data

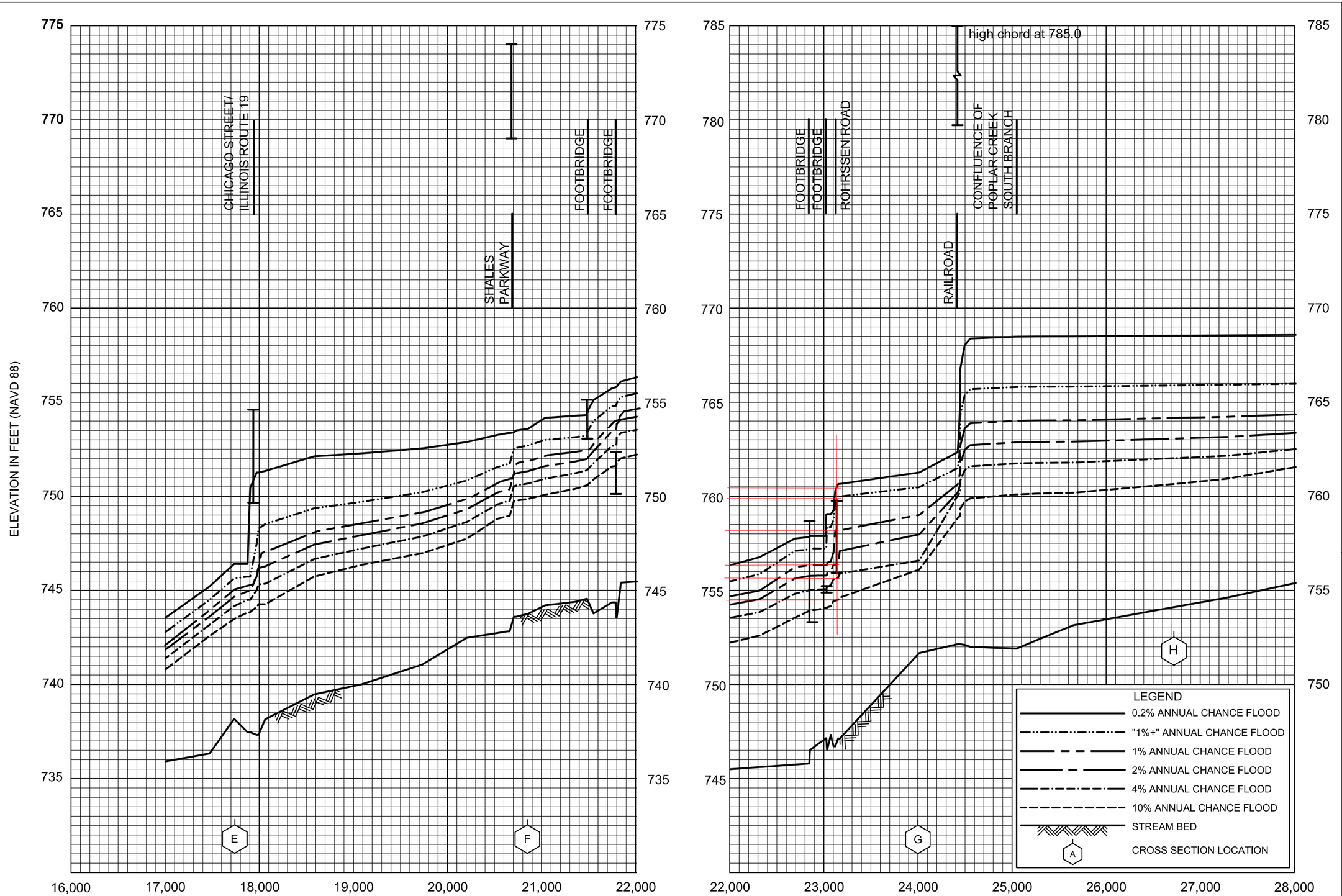
Table 9: Summary of Discharges (continued)

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10-Percent Annual Chance	4-Percent Annual Chance	2-Percent Annual Chance	1-Percent Annual Chance	0.2-Percent Annual Chance
Oak Lawn Ditch	At confluence with Stony Creek (West)	3.4	383	*	585	680	920
Oak Lawn Ditch	At Edison Avenue	3.0	330	*	510	590	800
Oak Lawn Ditch	At Kostner Avenue	1.3	159	*	243	282	383
Park Creek	At Interstate Route 57	1.2	79	*	121	139	181
Plainfield Road Ditch	At mouth at Flag Creek	1.1	197	*	310	367	510
Plainfield Road Ditch	At County Line Road	1.0	141	*	223	262	365
Plum Creek	At Steger Road	34.8	1,152	*	1,594	1,800	2,370
Poplar Creek	At confluence with Fox River [4]	44.1	1,305	1,898	2,563	3,295	4,509
Poplar Creek	Approximately 1,500 feet downstream of Bluff City Boulevard	39.9	1,258	1,823	2,509	3,175	4,353
Poplar Creek	Just upstream of confluence of Poplar Creek Lord's Park Tributary	35.2	1,104 [5]	1,397 [5]	1,465 [5]	1,513 [5]	1,860 [5]
Poplar Creek	Just upstream of divergence of Poplar Creek Lord's Park Overflow	35.2	1,213	1,884	2,491	3,050	5,313

*Data not available

[4] Discharge location is in Kane County

[5] Discharge on Poplar Creek decreases downstream of Poplar Creek Lord's Park Overflow



FLOOD PROFILES

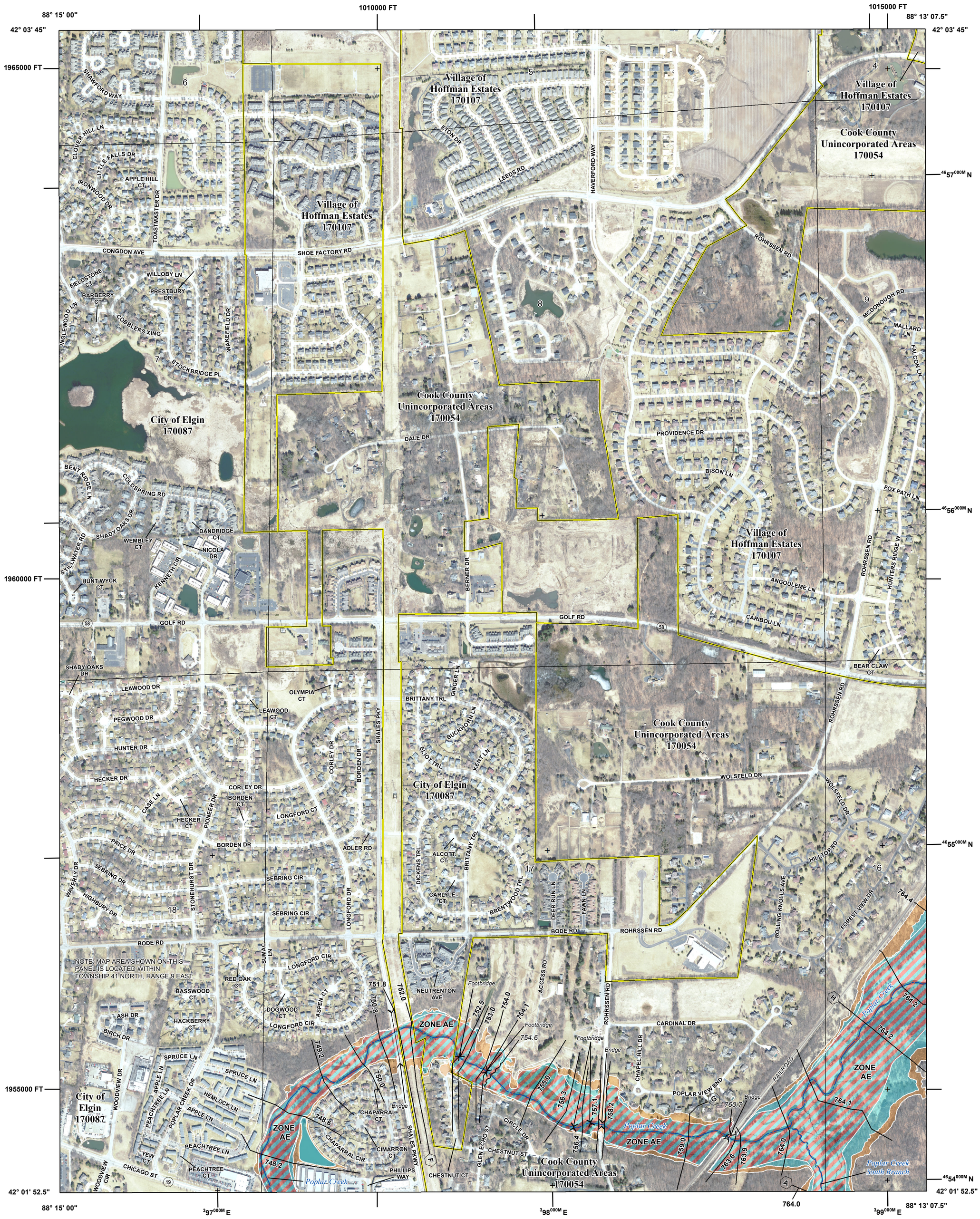
POPLAR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

COOK COUNTY, IL

AND INCORPORATED AREAS

267P



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Dam, Jetty, or Weir
- Levee, Dike or Floodwall

OTHER FEATURES
- A 718.7 / 717.5 Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
- 12 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 512 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Mapping and Insurance eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the Cook County Board of Commissioners. This information was derived from digital orthoimagery at a spatial resolution of 0.5 foot from aerial photography dated 2019.

ILLINOIS
Illinois State Water Survey
PRAIRIE RESEARCH INSTITUTE

SCALE

N

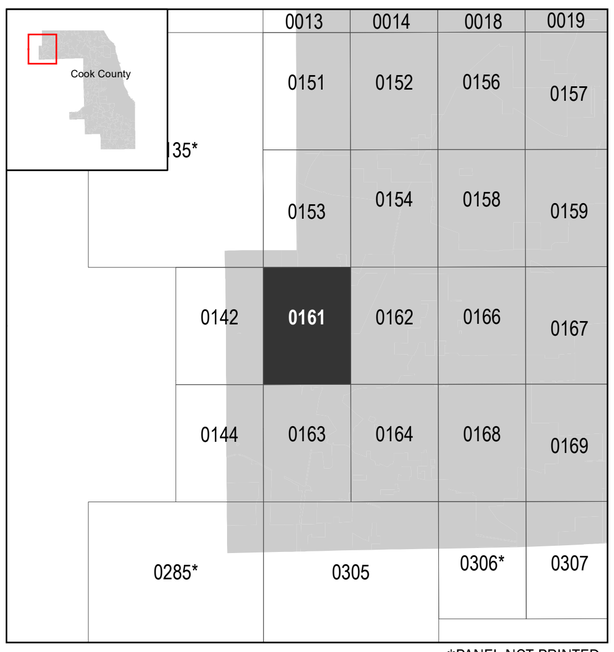
Map Projection:
State Plane Illinois East; FIPS 1201; North American Datum 1983 HARN; Transverse Mercator Projection; Vertical Datum: NAVD88

1 inch = 500 feet 1:6,000

0 500 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



*PANEL NOT PRINTED

FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS
and Incorporated Areas

PANEL 161 OF 832

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
COOK COUNTY	170054	0161	K
ELGIN, CITY OF	170087	0161	K
HOFFMAN ESTATES, VILLAGE OF	170107	0161	K

PRELIMINARY
9/22/2021

VERSION NUMBER
2.6.3.6

MAP NUMBER
17031C0161K

MAP REVISED

Appendix C

2010 Census Urbanized Area Reference Map

2010 CENSUS - URBANIZED AREA REFERENCE MAP: Chicago, IL--IN

LEGEND

SYMBOL DESCRIPTION	SYMBOL	LABEL STYLE
International		CANADA
Federal American Indian Reservation		L'ANSE RES 1880
Off-Reservation Trust Land		T1880
Urbanized Area		Dover, DE 24580
Urban Cluster		*Tooele, VT 88057*
State (or statistically equivalent entity)		NEW YORK 36
County (or statistically equivalent entity)		ERIE 029
Minor Civil Division (MCD) [1,2]		Bristol town 07485
Consolidated City		MILFORD 47500
Incorporated Place [1,3]		Davis 18100
Census Designated Place (CDP) [3]		*Incline Village 35100*

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
Interstate	55	Water Body	Pleasant Lake
U.S. Highway	2	Military	Fort Belvoir
State Highway	4	Outside Subject Area	
Other Road	Marsh Ln		
Railroad	Southern RR		
Perennial Stream	Tumbling Cr		
Intermittent Stream	Piney Cr		

Where international, state, county, and/or MCD boundaries coincide, the map shows the boundary symbol for only the highest-ranking of these boundaries.

1 A '*' following an MCD name denotes a false MCD. A '°' following a place name indicates that a false MCD exists with the same name and FIPS code as the place; the false MCD label is not shown.

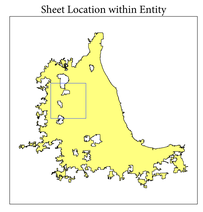
2 MCD boundaries are shown in the following states in which some or all MCDs function as general-purpose governmental units: Connecticut, Illinois, Indiana, Kansas, Maine, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, and Wisconsin. (Note that Illinois and Nebraska have some counties covered by nongovernmental precincts and Missouri has most counties covered by nongovernmental townships.)

3 Place label color corresponds to the place fill color.
Label colors: Davis Davis Davis Davis Davis

SUBJECT AREA COUNTIES ON MAP SHEET
17031 Cook
17043 DuPage
17089 Kane

Rohrssen Road Bridge over Poplar Creek

Sheet Location within Entity



All legal boundaries and names are as of January 1, 2010. Urban areas are based on results from the 2010 Decennial Census. The boundaries shown on this map are for Census Bureau statistical data collection and tabulation purposes only; their depiction and designation for statistical purposes does not constitute a determination of jurisdictional authority or rights of ownership or entitlement.

Geographic Vintage: 2010 Census (reference date: January 1, 2010)
Data Source: U.S. Census Bureau's MAF/TIGER database (TAB10)
Map Created by Geography Division: March 11, 2012

U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. Census Bureau

Projection: Albers Equal Area Conic
Datum: NAD 83
Spheroid: GRS 80
1st Standard Parallel: 37 53 35
2nd Standard Parallel: 41 35 07
Central Meridian: -89 18 43
Latitude of Projection's Origin: 36 58 12
False Easting: 0
False Northing: 0

0 1 2 3 4 5 Kilometers
0 0.6 1.2 1.8 2.4 3 Miles
The plotted map scale is 1:40000

Key to Sheets

2	3	4
5	6	7
9	10	11

PARENT SHEET 6

Total Sheets: 18
- Index Sheets: 1
- Parent Sheets: 17

UA NAME: Chicago, IL--IN
UA CODE: 16264
ENTITY TYPE: Urbanized Area (UA)
ST: Illinois (17), Indiana (18)

2010 CENSUS UA REF MAP (PARENT)
231016264006

Appendix D

IDOT Local Roads and Streets Manual

Exhibit 36-5C: Design Criteria for New or Reconstructed Urban Collector/Local Streets Bridges

Classification		Urban Two-Way Collector		Urban One-Way Collector		Urban Local	
Highway Type		TWS-2	TWS-2	OWS-2	OWS-2	TWS-2	TWS-2
Approach Roadway Criteria		See Figure 32-2F		See Figure 32-2G		See Figure 32-2H	
Design Traffic Volumes		Two-Way ADT		One-Way ADT		Two-Way ADT	
		<5000	≥5000	<5000	≥5000	<1000	1000-5000
Clear Roadway Bridge Widths (Face-to-face of Parapets or Curbs)[2][3]		Approach Roadway Width (but not less than existing roadway width) or Face-to-Face of Curb as Specified in Chapter 32					
Minimum Width of Bridges (Face-to-Face of Parapets or Curbs) Allowed to Remain in Place[4]		Approach Roadway Width or Face-to-Face of Curb					
Minimum Design Flood Frequency		30 year					
Minimum Clearance Above Design High-Water Elevation[5]		1′					
Design Live Load	New	HS-20					
	Remain in Place[7]	HS-15					
Vertical Clearance for Structures Over Highways[6]	New	See Figure 36-4I					
	Remain in Place	14′					
Horizontal Clearance for Structures Over Highways		See Figure 36-4I					
Vertical Clearance for Pedestrian or Bicycle Structures Over Highways		17’-3”					
Vertical and Horizontal Clearance for Structures Over Railroads		See Figures 36-4J and 36-4K					

TWS = Two-Way Street OWS = One-Way Street

DESIGN CRITERIA FOR NEW OR RECONSTRUCTED[1] URBAN COLLECTOR/LOCAL STREETS BRIDGES

Figure 36-5C (US Customary)

HARD COPIES UNCONTROLLED

Appendix E

Interpolation Calculations

Log-Log Analysis for Rohrssen Road Bridge 30-year Discharge (FEMA Effective Discharges)

Company: Hey and Associates
Project No.: 22-0073
Client: CCDOTH
Performed By: AMC Date: 4/8/2022
Checked By: Date:

	10yr	50yr	100yr	500yr
Return Period	10	50	100	500
Value for b b =-ln(-ln(1-1/Return))	2.3	3.9	4.6	6.2

10yr	50yr	100yr	500 yr
918.0	1145.0	1700.0	2363.0

	30yr
Return Period	30
Value for b	3.4
	1208.3

Log-Log Analysis for Rohrssen Road Bridge 30-year Discharge (FEMA Preliminary Discharges)

Company: Hey and Associates
Project No.: 22-0073
Client: CCDOTH
Performed By: AMC Date: 4/8/2022
Checked By: Date:

	10yr	25yr	50yr	100yr	500yr
Return Period	10	25	50	100	500
Value for b b =-ln(-ln(1-1/Return))	2.3	3.2	3.9	4.6	6.2

10yr	25yr	50yr	100yr	500 yr
1,213	1,884	2,491	3,050	5,313

	30yr
Return Period	30
Value for b	3.4
	2120.8

Log-Log Analysis for Rohrssen Road Bridge 30-year WSEL (FEMA Effective Elevation)

Company: Hey and Associates
Project No. 22-0073
Client: CCDOTH
Performed AMC Date: 4/8/2022
Checked By: Date:

	10yr	50yr	100yr	500yr
Return Period	10	50	100	500
Value for b b =-ln(-ln(1-1/Return))	2.3	3.9	4.6	6.2

10yr	50yr	100yr	500 yr
753.2	754.4	754.8	755.6

	30yr
Return Period	30
Value for b	3.4
	754.0

Log-Log Analysis for Rohrssen Road Bridge 30-year WSEL (FEMA Preliminary Elevation)

Company: Hey and Associates
Project No. 22-0073
Client: CCDOTH
Performed AMC Date: 4/8/2022
Checked By: Date:

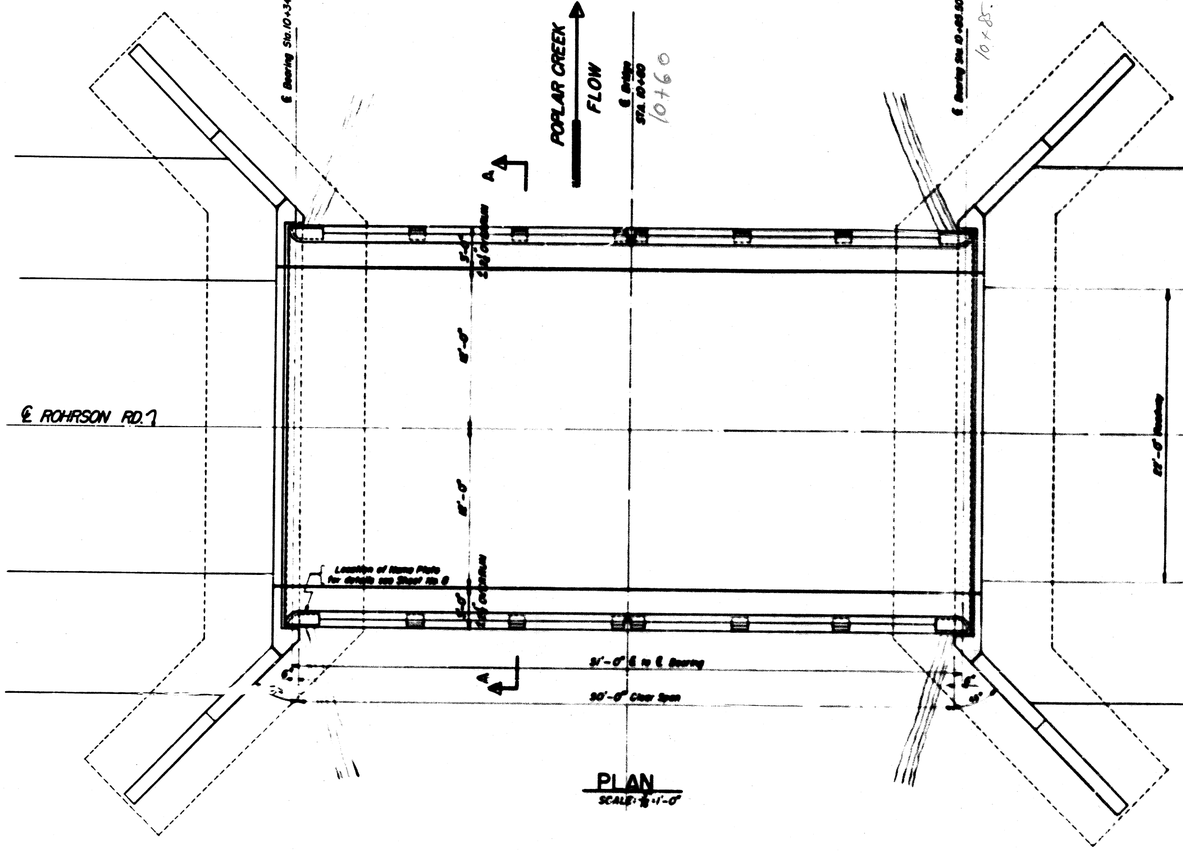
	10yr	25yr	50yr	100yr	500yr
Return Period	10	25	50	100	500
Value for b b =-ln(-ln(1-1/Return))	2.3	3.2	3.9	4.6	6.2

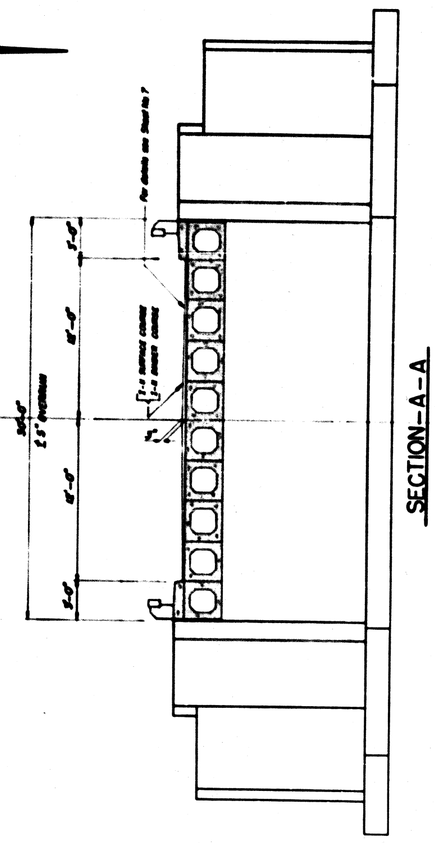
10yr	25yr	50yr	100yr	500 yr
754.5	755.7	756.3	758.2	760.4

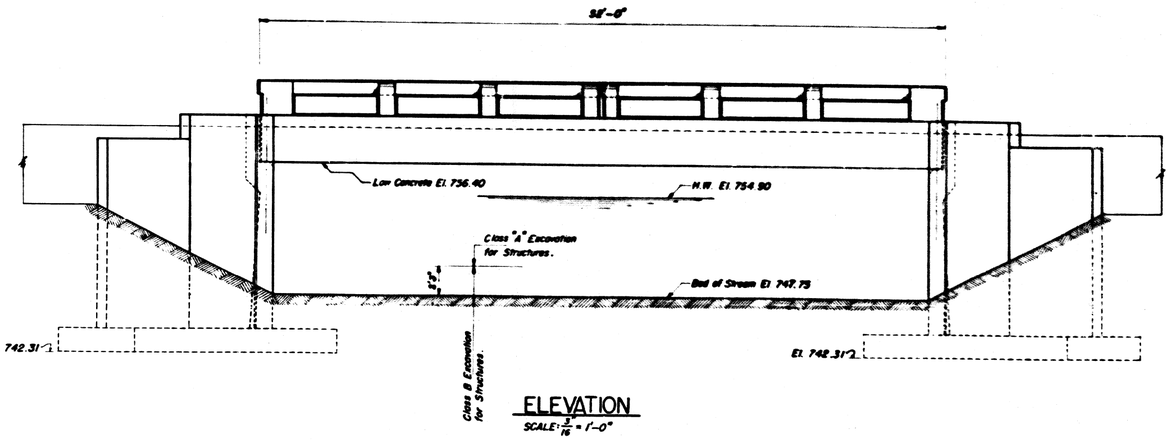
	30yr
Return Period	30
Value for b	3.4
	756.0

ATTACHMENT J

Abbreviated Existing Plans







GENERAL NOTES:

1. SPECIFICATIONS. *A.A.S.H.O. Standard Specifications for Highway Bridges, 1953 and Criteria for Prestressed Concrete Bridges, Bureau of Public Roads, 1954. (See Special Provisions, re: Prestressed Concrete.)*
2. CONCRETE REINFORCEMENT. *Except as noted, all reinforcing steel bars shall conform to A.S.T.M. Specification A 305.*
3. M.D. STEEL REINFORCEMENT BARS *shall be deformed bars of intermediate grade conforming to A.S.T.M. Specifications A15 – 54 T.*
4. STRUCTURAL STEEL. *This item shall be of carbon steel and shall conform to A.S.T.M. Specifications A7 – 55 T and Article 8A1.3 of the Standard Specifications for Road and Bridge Construction adopted January 2, 1948, specifications amended to date. Structural Steel transverse tensioning rods, as aforesaid, shall have threads cut to the Coarse - Thread Series Class 2A.*
5. PRETENSIONING STEEL. *Individual tendons in all prestressed sections shall consist of seven-wire cable strands which have a nominal diameter of ½" and a minimum ultimate strength of 250,000 psi. An initial tensile force of 24,000 lbs. shall be applied to each strand in all beams.*
6. CAST - IN - PLACE CONCRETE. *This item shall be of Class "A" Concrete throughout, except as noted on the plans and in the special provisions for this contract with a minimum 28 day Compressive strength of 3,500 psi. The air entraining agent shall be approved by the Engineer.*
7. HANDRAIL. *This item is noted on Sheet No. 6.*
8. PRECAST PRETENSIONED CONCRETE. *All prestressed concrete shall have the fine aggregate, coarse aggregate, and Cement ratios properly proportioned so as to obtain a minimum compressive strength of 5,000 psi. at the age of 28 days. The minimum compressive strength of Concrete at the Transfer of prestress shall be 4,000 psi.*
9. LATERAL TENSIONING. *When deck units are in place, prior to grouting longitudinal keys, the transverse rods shall be given preliminary tightening to pull the Deck units together. Final tightening shall be done by loosening the nut, then giving the nut two full turns from a hand - tight position, to develop a stress of 20,000 psi of the bolts's stress area. This requires a wrenching torque of about 1,050 ft.- lbs. The tensioning rods are not required to be grouted.*
10. HANDLING PRETENSIONED DECK UNITS. *When deck units are handled, they shall be lifted by the devices provided in the top at the ends of the units.*
11. RUBBER WATER SEAL and PREMOULDED JOINT FILLER. *The cost of rubber water seal, copper nuts, and premoulded Joint Filler shall be included in the Contract bid price per cubic yard of Class "A" Concrete. The Contractor shall adequately support, brace and protect the Seal and Joint Filler during construction, so that the Seal does not become bent, torn or distorted. The Contractors method of supporting bracing and protecting the Rubber Water Seal and Premoulded Joint Filler, shall be approved by the Engineer.*
12. WATERPROOFING. *The backs of Abutments and Wing Walls shall be waterproofed from the top of wall down to the top of the footing, as outlined in Article 5.1.20 of the Standard Specifications. The cost of waterproofing shall be included in the Contract unit price bid per cubic yard of Class "A" Concrete.*
13. BRIDGE SEATS. *The Bridge Seats shall be constructed level and to exact elevations shown. If a bush hammer or grinding is necessary, this work shall be done at no additional cost.*
14. EXPOSED EDGES. *The Edges shall be chamfered as noted.*
15. REINFORCEMENT BARS *shall be delivered tagged and handled in conformance with the supplemental specifications. Three sets of bar details shall be submitted to the Cook County Highway for approval.*
16. WELDED WIRE FABRIC *shall comply with the Specifications for welded steel wire fabric for concrete reinforcement A.S.T.M. Specifications A 185 – 37.*

DIVISION OF WATERWAYS
STATE OF ILLINOIS
WATERWAY PERMIT I.P. NO. 2124
ISSUED ON 9-17-57

****DESIGN DATA**

LOADING	H20-S16-44
EARTH PRESSURE - equivalent fluid	40 @ l='
STRUCTURAL STEEL	18,000 @ l="
• REINFORCEMENT BARS	20,000 @ l="
• CONCRETE (40% Earth Pressure)	1,200 @ l="
• CONCRETE (40% " ")	900 @ l="

• *for Class "A" Concrete only.*
•• *for Precast Prestressed Prefabricated Concrete Beams See also Special Provisions*

NOTE
Wearing surface (average 2½") 18 @ l=' included.

REVISIONS

DATE	BY	DESCRIPTION

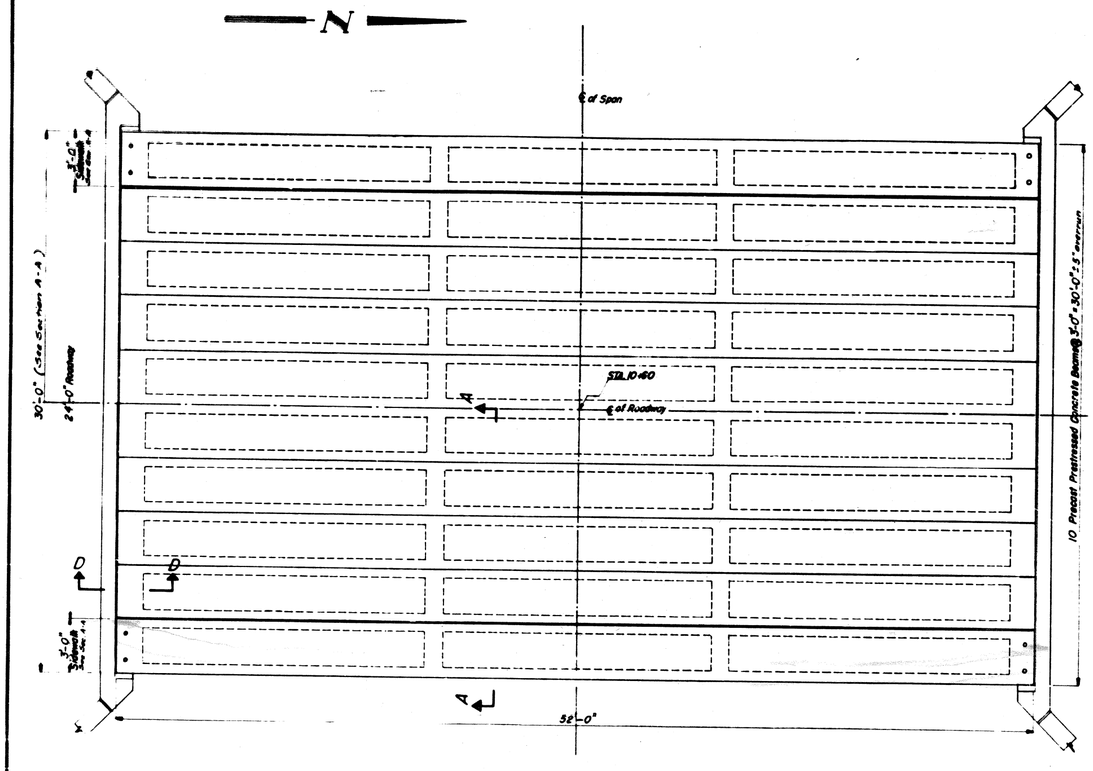
DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
DANIEL RYAN — WILLIAM J. [illegible]

GENERAL PLAN AND ELEVATION
ROHRSON ROAD BRIDGE
OVER POPLAR CREEK

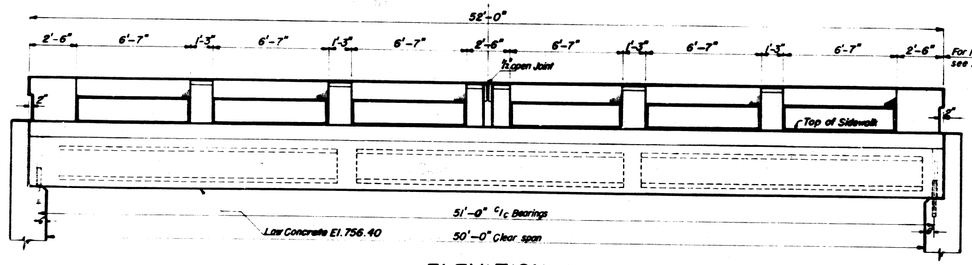
COMPUTED B.R. RIMAN — SECTION 074-0101
DRAWN M.PILAT — SCALE AS SHOWN
CHECKED F.N.J. — APPROVED [signature]

Edward D. Stark — June 9 1958

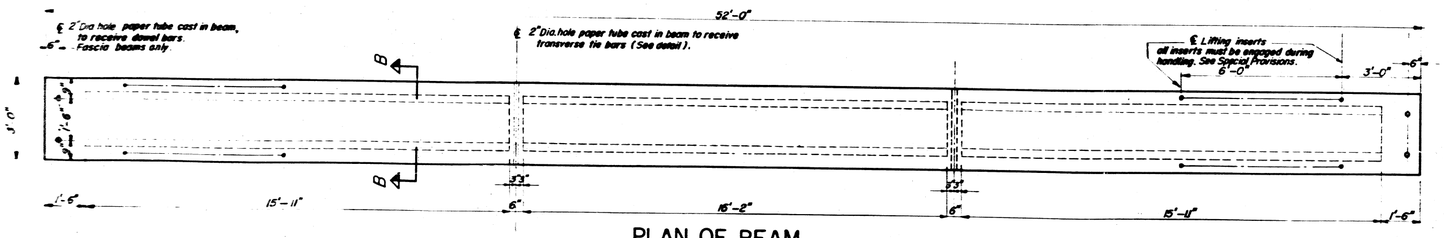
Section No.	Fiscal Year	Sheet No.	Total Sheets	Drawing No.
074	1958	4	11.	



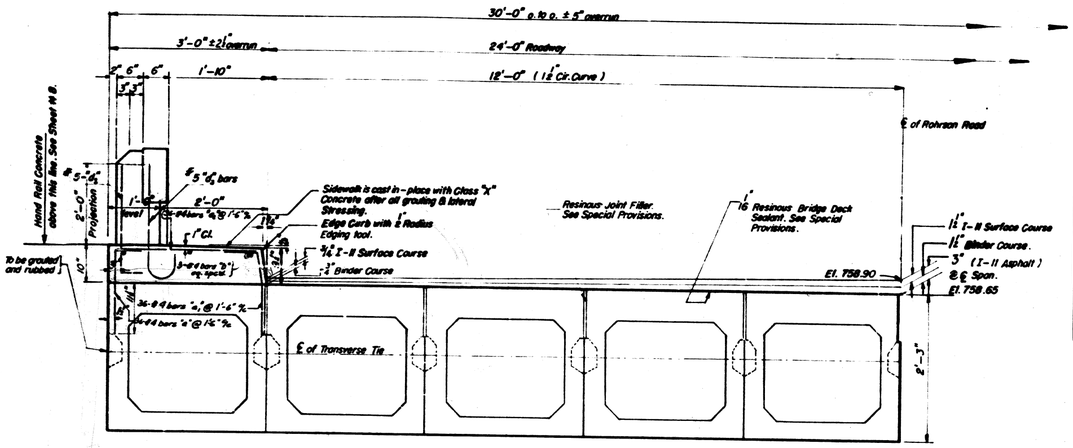
PLAN
SCALE: 1/4" = 1'-0"



ELEVATION
SCALE: 1/4" = 1'-0"



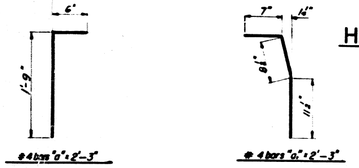
PLAN OF BEAM
SCALE 3/8 = 1'-0"

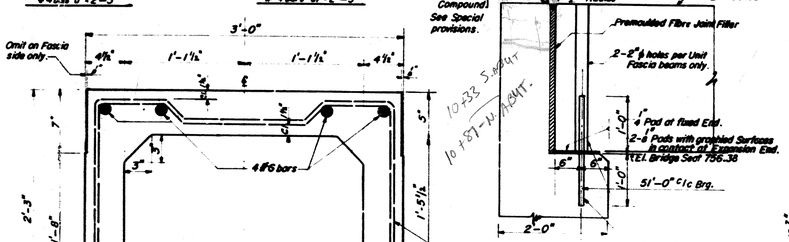


HALF SECTION A-A
SCALE: 3/4" = 1'-0"

NOTE: Bituminous Surfacing is to cover the Top of the Abutment backwall and it is to follow the crown of surfacing on the Bridge Deck.

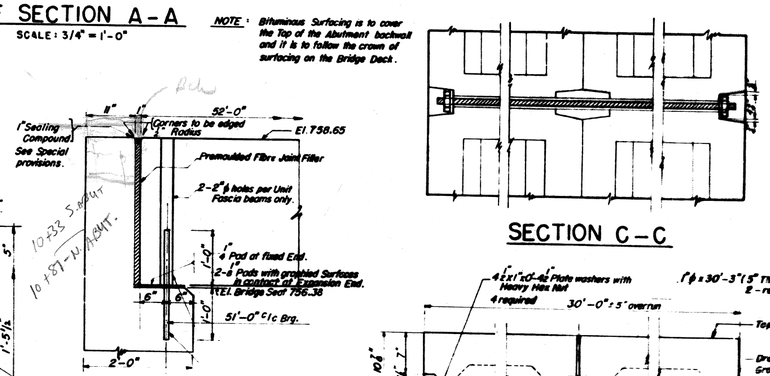
BILL OF MATERIAL STRUCTURE:				
BAR	NO.	SIZE	LENGTH	TYPE
d_2	36	5	3'-0"	
d_3	32	5	3'-6"	
a	72	4	2'-3"	
b	72	4	2'-3"	
g	72	4	2'-8"	
g'	72	4	2'-8"	
Prestressed Concrete Beams		10	Each	
Reinforcement Bars		790	Lbs	
Class "A" Concrete		9.3	Cu yds	
Bituminous Concrete Binder Course		8.9	Tons	
Bituminous Concrete Surface Course Fine Dense-Graded Aggregate Type Subclass I-II		9.1	Tons	
Bituminous Materials (Prime Coat)		14	Gals	





Note: Bars S, S1, S2 and the 4#6 bars shown in Section B-B are to be of mild Steel reinforcement. See Gen. Note Sheet No. 4.

SECTION B-B
SCALE: 1 1/2" = 1'-0"

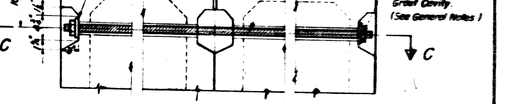


D-D

1" ϕ x 24" dowel bars. After Beams have been erected drill holes in abut. Fill holes in beams with bitumen at expansion end and Cement Grout at fixed end.

Cost to be included in Unit price bid per each for Pretensioned Prestressed Concrete Beam.

SECTION C-C

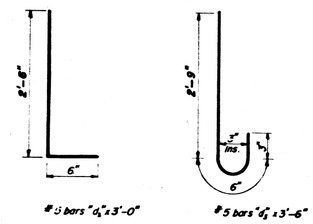


SECTION AT TRANSVERSE TIE
SCALE 1" = 1'-0"

Note

The cost of furnishing and assembling transverse ties, is included in the Unit price bid each for Pretensioned Prestressed Concrete Beam.

Cost of Prefabricated bearing pad to be included in Unit Price bid, each for Pretensioned Prestressed Concrete Beam.



DETAIL OF BARS

REVISIONS		
DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS
DANIEL RYAN — WILLIAM J. SCHITTINGER

DETAIL OF SUPERSTRUCTURE
ROHRSON ROAD BRIDGE
OVER POPLAR CREEK

COMPUTED	B.B. RIMAN	JOB	074-0101 N.E.W.
DRAWN	M. PILAT	SCALE	AS SHOWN
CHECKED	R.N.L. - S.S.	APPROVED	

Index Map Sheet No.	Photo Ref.	Sheet No.	Total Sheets	Drawing No.
074	1958	7.	11.	

ROADWAY DESIGN MEMORANDUM

PREPARED FOR:

AGENCY:	**COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS**
ROUTE:	**ROHRSSEN ROAD**
COUNTY:	**COOK**
TASK ORDER:	**WORK ORDER #11**
LOCATION:	**ROHRSSEN ROAD OVER POPLAR CREEKK**

PREPARD BY: MILHOUSE ENGINEERING & CONSTRUCTION INC.
333 SOUTH WABASH STREET, SUITE 2901
CHICAGO, IL 60604

DATE SUBMITTED: February 3rd, 2023

MILHOUSE

TABLE OF CONTENTS

EXISTING ROADWAY CONDITIONS/PROPOSED IMPROVEMENT	3
TYPICAL SECTIONS	4-7
PROPOSED PLAN & PROFILE SHEET	8
COST ESTIMATE	9
DESIGN REFERENCES	10-14

The purpose of this memorandum is to analyze and present the proposed geometrics for Rohrssen Road to provide for a raise in the roadway profile at Poplar Creek and evaluate the improvements required to ensure conformance with the criteria within the IDOT Local Roads and Streets Manual.

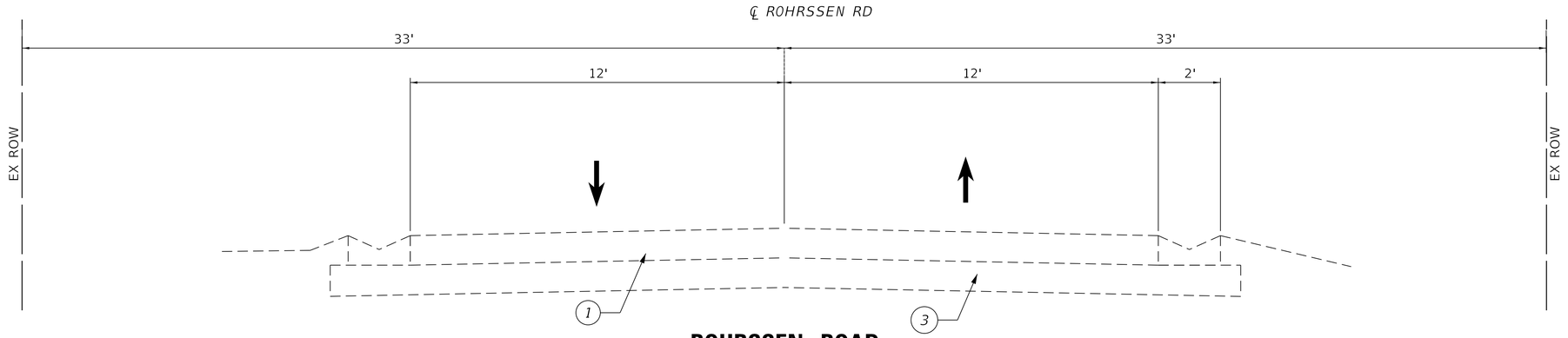
EXISTING ROADWAY CONDITIONS:

Rohrssen Road is located in the City of Elgin in Cook County. Rohrssen Road is classified as a Minor Collector. The overall land use, within our study area, along Rohrssen Road is residential with a posted speed of 30 mph with infrequent entrances and can be categorized as an urban roadway. The existing ADT in 2018 along Rohrssen Road is 3,000 vehicles per day (vpd), based on IDOT's GIS website gettingaroundillinois.com. Rohrssen Road is a two-lane roadway and is comprised of one 12-foot-wide lane in each direction with varying width shoulders, a bridge over Poplar creek, and guardrail connecting to the bridge parapet in all four quadrants. There are no sidewalks or multi-use paths within project limits.

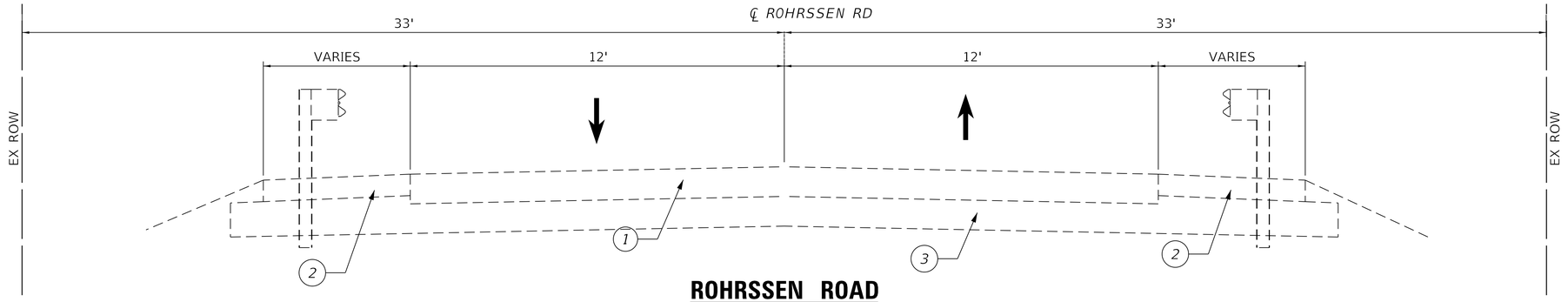
PROPOSED IMPROVEMENT:

Proposed improvements along Rohrssen Road include the reconstruction of the existing bridge to accommodate the profile raise to provide the required clearance from the low chord of the bridge to the 30-year Design High-Water Elevation, based on a previous study performed by Hey and Associates Inc., above Popular Creek and subsequently the reconstruction of approximately 900 feet of Rohrssen Road to allow for a vertical alignment transition to meet the proposed structure. Based on the 30 mph posted speed limit, a design speed of 35 mph was utilized for design purposes along with the criteria included in the design references (Appendix A, Alignment Criteria for Urban Collectors / Local Streets) to transition the vertical alignment. The points at which the proposed profile intersects with the existing centerline profile the existing grades were maintained to avoid introducing a need for another vertical curve, these points were analyzed and are below the 0.60% differential as noted in the attached criteria (Appendix A, Curve Lengths). The proposed cross section maintains two 12-foot lanes with proposed curb and gutter up to proposed shoulder locations and guardrail and 4ft shoulders leading up to the proposed bridge. For locations with proposed shoulders a 6:1 taper (Appendix A, Shoulder Widening for Type 1 Guardrail Terminals) was utilized. The existing horizontal alignment will be maintained. New guardrail segments shall meet IDOT barrier warrant analysis requirements and will be installed in all four quadrants.

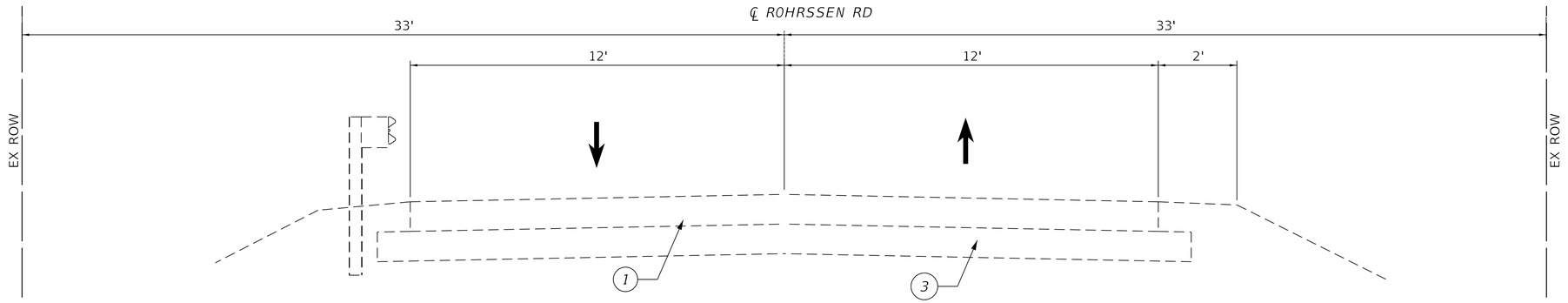
Proposed theoretical grading has been analyzed with this improvement. To minimize the overall impacts to ROW within the area the proposed front slopes used for this analysis were 3:1 and 2:1. Since the 2:1 slope is considered a critical front slope a barrier is warranted, refer to BLRS section 35-2.03(c). Barrier currently exists throughout the sections a 2:1 slope was utilized, our proposed improvement is not proposing new locations of barrier. Refer to section 35-3.04 of the BLRS for embankments requiring roadside barriers.



ROHRSSEN ROAD
EXISTING TYPICAL SECTION
STA. 6+50 TO STA. 8+80



ROHRSSEN ROAD
EXISTING TYPICAL SECTION
STA. 8+80 TO STA 10+34
STA. 10+86 TO STA. 12+10



ROHRSSEN ROAD
EXISTING TYPICAL SECTION
STA. 12+10 TO STA. 15+50

LEGEND

1. EXISTING PAVEMENT
2. EXISTING SHOULDER
3. EXISTING AGGREGATE SUBGRADE

$FILE_DATE_TIME$

MILHOUSE

COUNTY HIGHWAY:
FISCAL YEAR:
SECTION:

COUNTY OF COOK
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS

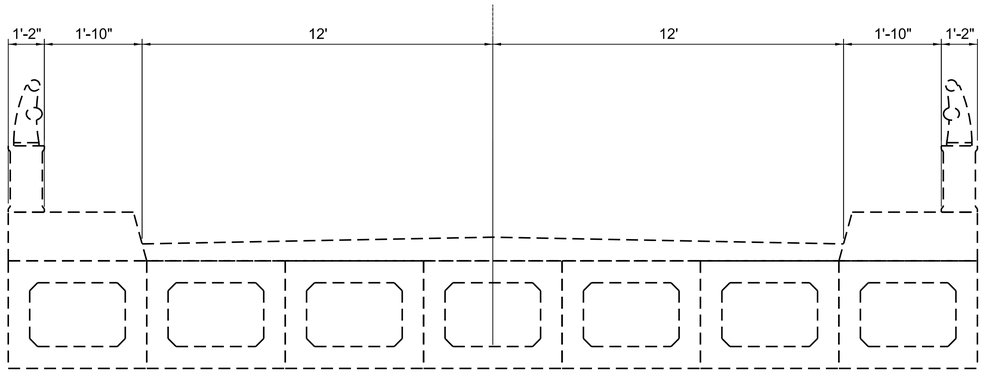
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REVISIONS	DATE

ROHRSSEN ROAD GEOMETRICS STUDY

EXISTING TYPICAL CROSS SECTIONS

SCALE: NTS SHEET

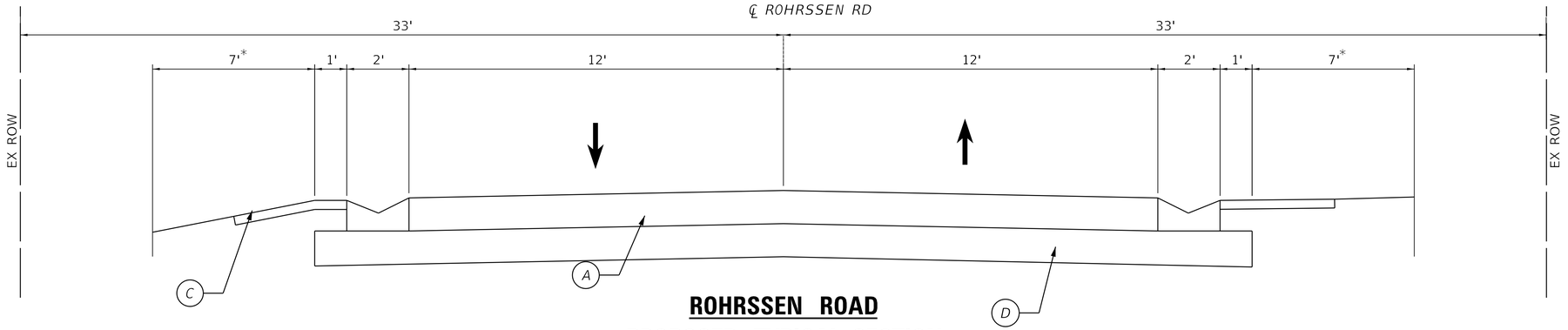


ROHRSSEN ROAD OVER BRIDGE
EXISTING TYPICAL SECTION

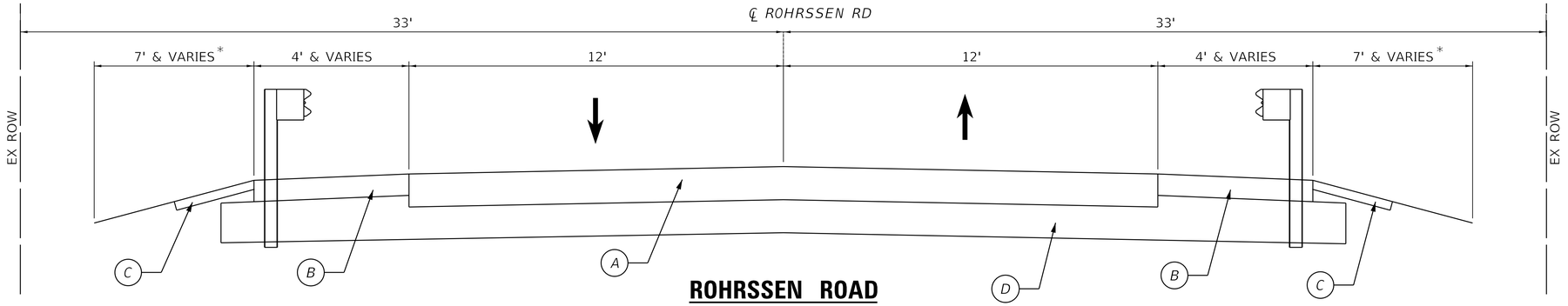
STA. 10+34 TO STA. 10+86

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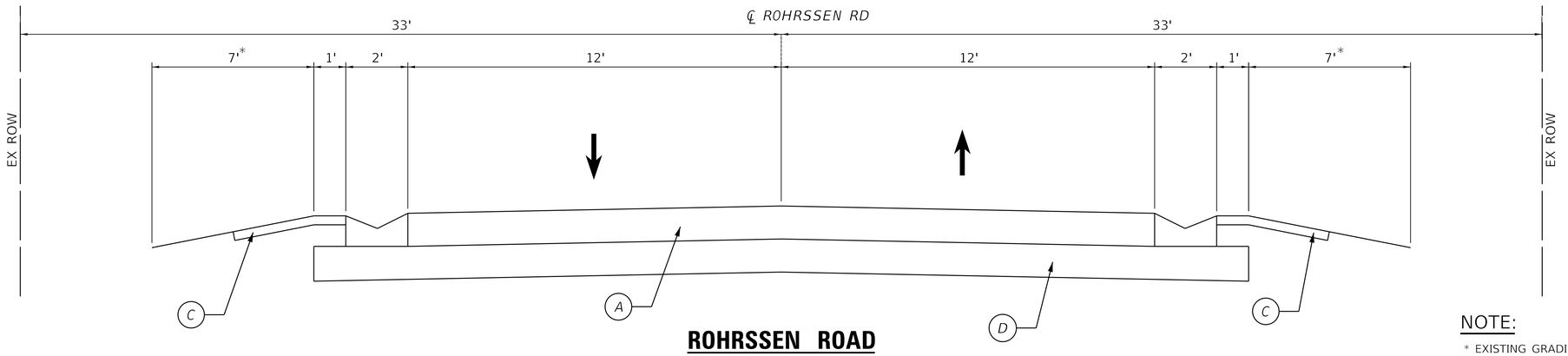
MILHOUSE	COUNTY HIGHWAY:	COUNTY OF COOK DEPARTMENT OF TRANSPORTATION AND HIGHWAYS	COMPUTED: NE DRAWN: ML CHECKED: CH	REVISIONS / DATE	ROHRSSEN ROAD GEOMETRICS STUDY EXISTING TYPICAL CROSS SECTIONS	SCALE: NTS SHEET
	FISCAL YEAR:					
	SECTION:					



ROHRSSEN ROAD
PROPOSED TYPICAL SECTION
STA. 6+50 TO STA. 8+52



ROHRSSEN ROAD
PROPOSED TYPICAL SECTION
STA. 8+52 TO STA. 10+34
STA. 10+86 TO STA. 12+37



ROHRSSEN ROAD
PROPOSED TYPICAL SECTION
STA. 12+37 TO STA. 15+50

LEGEND

- (A) *PROPOSED PAVEMENT*
- (B) *PROPOSED SHOULDER*
- (C) *PROPOSED TOPSOIL*
- (D) *PROPOSED AGGREGATE SUBGRADE*

NOTE:

* EXISTING GRADING LIMITS SHALL BE ESTABLISHED BASED ON EXISTING GROUND ELEVATION

$FILE_DATE_TIME$

MILHOUSE

COUNTY HIGHWAY:
FISCAL YEAR:
SECTION:

COUNTY OF COOK
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS

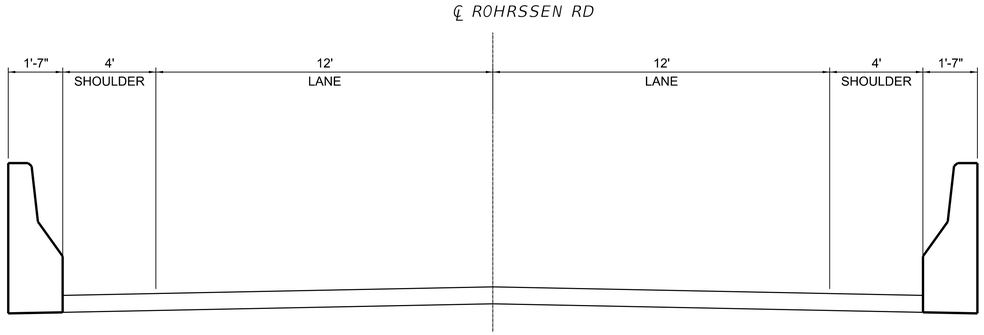
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REVISIONS	DATE

ROHRSSEN ROAD GEOMETRICS STUDY

PROPOSED TYPICAL CROSS SECTIONS

SCALE: NTS SHEET



ROHRSSEN ROAD OVER BRIDGE
PROPOSED TYPICAL SECTION

STA. 10+30 TO STA. 10+90

NOTES:

REFER TO ROHRSSEN ROAD OVER POPLAR CREEK BRIDGE CONDITION REPORT FOR STRUCTURE DEPTH AND TYPE RECOMMENDATIONS.

$FILE_DATE_TIME$

MILHOUSE

COUNTY HIGHWAY:
FISCAL YEAR:
SECTION:

COUNTY OF COOK
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS

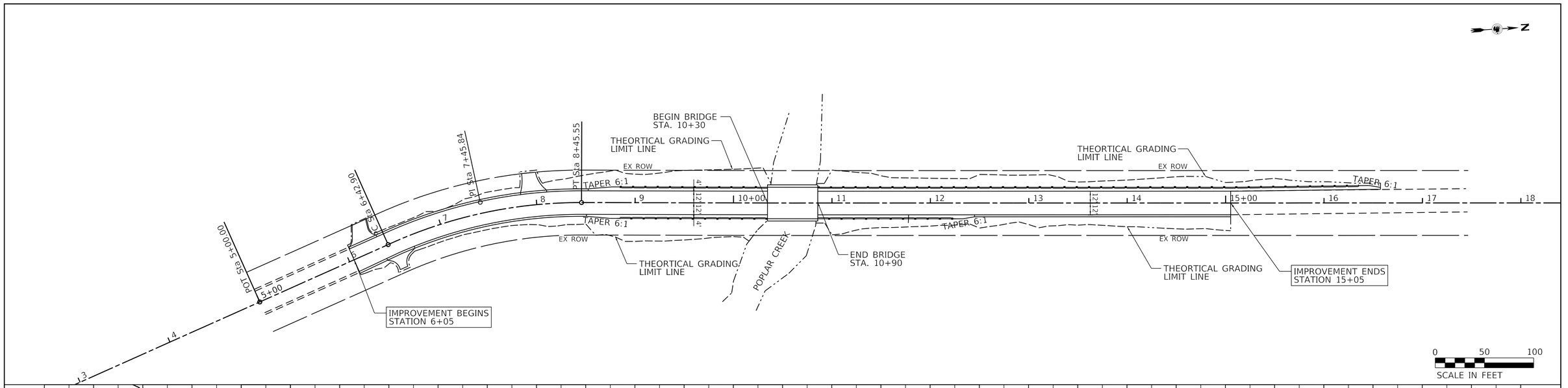
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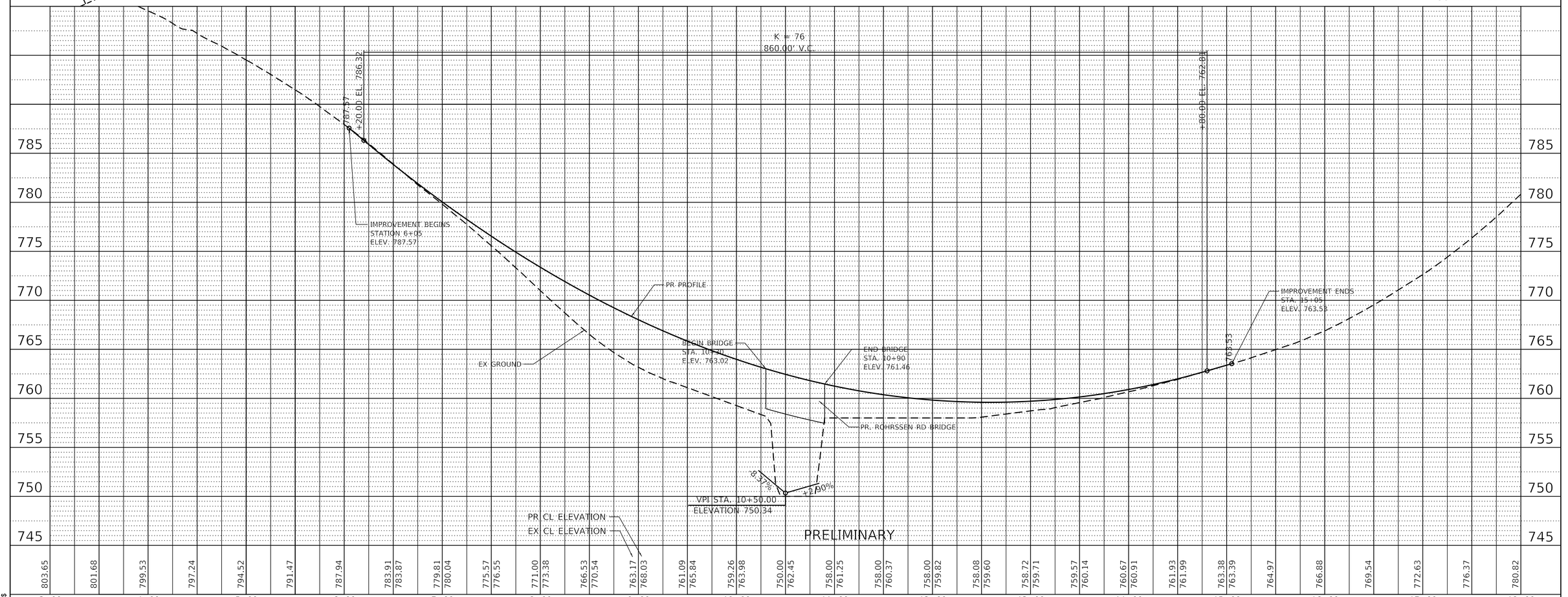
REVISIONS	DATE

ROHRSSEN ROAD GEOMETRICS STUDY

PROPOSED TYPICAL CROSS SECTIONS

SCALE: NTS SHEET





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MILHOUSE

COUNTY HIGHWAY:
FISCAL YEAR:
SECTION:

COUNTY OF COOK
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS

COMPUTED: NE
DRAWN: ML
CHECKED: CH

REVISIONS	DATE

ROHRSSEN ROAD GEOMETRICS STUDY

PLAN AND PROFILE

SCALE: 1"=50' SHEET

COST ESTIMATE
ROADWAY RECONSTRUCTION ONLY
Rohrssen Road over Poplar Creek

PAY ITEM NO.	ITEM	UNIT OF MEASURE	QUANTITY	UNIT PRICE	TOTAL COST
20200100	EARTH EXCAVATION	CU YD	182	$ 50.00	$ 9,100.00
20400800	FURNISHED EXCAVATION	CU YD	1702	$ 30.00	$ 51,060.00
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1980	$ 10.00	$ 19,800.00
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3059	$ 23.00	$ 70,357.00
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7090	$ 1.91	$ 13,541.90
40600370	LONGITUDINAL JOINT SEALANT	FOOT	850	$ 2.40	$ 2,040.00
40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SQ YD	2267	$ 80.00	$ 181,360.00
44000100	PAVEMENT REMOVAL	SQ YD	2350	$ 25.00	$ 58,750.00
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	100	$ 22.00	$ 2,200.00
44000400	GUTTER REMOVAL	FOOT	535	$ 20.00	$ 10,700.00
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	480	$ 65.00	$ 31,200.00
60602500	CONCRETE GUTTER, TYPE A	FOOT	754	$ 45.00	$ 33,930.00
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	838	$ 40.00	$ 33,520.00
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4	$ 2,000.00	$ 8,000.00
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	$ 4,200.00	$ 16,800.00
63200310	GUARDRAIL REMOVAL	FOOT	975	$ 8.00	$ 7,800.00
67100100	MOBILIZATION	LS	1	$ 110,160.00	$ 110,160.00
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LS	1	$ 91,800.00	$ 91,800.00
Z0004522	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SQ YD	100	$ 50.00	$ 5,000.00
			SubTotal Amount of Base Bid		$ 757,118.90
			35% Contingency		$ 264,991.62
			Total Amount of Base Bid		$ 1,022,110.52
	Total Amount of Base Bid (rounded to nearest $1000)				**$ 1,023,000.00**

APPENDIX A

DESIGN REFERENCES

BLRS Manual/IDOT Standards

Design Element			Manual Section	Design Volume (ADT)		
				ADT < 1000	1000 - 5000	ADT > 5000
Design Controls	Highway Type		---	TWS-2 / OWS-2		
	Design Forecast Year		27-6.02	Current		20 Years
	Design Speed *		27-5.02	30 mph (1)	30 mph	
	Level of Service (LOS) *		27-6.04	D		
Cross Section Elements	Surface Width *	Number of Travel Lanes	31-1.02	2		
		Travel Lane *	31-1.01	Minimum 10'	Minimum 11'	Minimum 12' (2)
		Travel Lane (Shared with Bicycles)	42-3.02	See Section 42-3.02		
		Parking Lane (3)	31-1.04	Minimum 8'		
		Auxiliary Lane	31-1.03	10'	Desired 11' Minimum 10'	Desired 12' Minimum 10'
	Cross Slope	Travel Lane (Minimum) *	31-1.08	1.5% - 2.0%		
		Auxiliary Lanes		(4)		
	Outside Curb and Gutter Type		31-1.07	B-6.12, B-6.18, or B-6.24 CC&G (5)		
	Sidewalk Width		31-2.02	Desired 5' / Minimum 4'		
	Obstruction Free Zone * (6)		35-2	1.5'		
Roadway Slopes	Side Slope (7) (Maximum)	Cut Section (Curbed)	31-2.03	---		
		Rock Cut		---		
		Fill Section (Curbed)		---		

* Controlling design criteria (see Section 27-7).

ADT = Average Daily Traffic / TWS = Two-Way Street / OWS = One-Way Street

GEOMETRIC DESIGN CRITERIA FOR URBAN LOCAL STREETS
(New Construction/Reconstruction)

Figure 32-2l (US Customary)

Footnotes:

(1) Design Speed. A 20 mph (30 km/h) design speed may be used where the posted speed limit is 20 mph.

(2) Surface Width. The minimum surface width is 30 ft (9.0 m) face-of-curb to face-of-curb.

(3) Parking Lane. The minimum width of the parking lane is 8 ft (2.4 m) and includes the gutter width.

(4) Cross Slope. Use 2.0% minimum for lanes away from the crown.

(5) Curb and Gutter. Under restricted conditions, the gutter width adjacent to the edge of an 11 ft (3.3 m) turn lane may be eliminated. A shallow gutter may be used in place of CC&G.

(6) Obstruction-Free Zone. Distance is measured from the face of the curb. Hazards behind curbs should be located outside of the clear zone shown for uncurbed roadways as discussed in Section 35-2.02(f).

(7) Side Slopes. Side slopes are determined on a case-by-case basis considering roadside development and right-of-way restrictions.

GEOMETRIC DESIGN CRITERIA FOR URBAN LOCAL STREETS
(New Construction/Reconstruction)

Footnotes for Figure 32-2l

Design Element		Manual Section	Design Speed					
			20 mph	25 mph	30 mph	35 mph	40 mph	45 mph
Stopping Sight Distance (SSD) *		28-1	115'	155'	200'	250'	305'	360'
Intersection Sight Distance * (1)		28-3	225'	280'	335'	390'	445'	500'
Minimum Radii *	e_{max} = 4% (Low speed)	29-4.03	86'	154'	250'	371'	533'	711'
Minimum Radii w/ Normal Crown (Low speed)			105'	194'	324'	495'	736'	1000'
Maximum Superelevation Rate * (2)		29-3.01	4%					
Superelevation Transition Length (3)	e_{max} = 4% (Low speed)	29-4.04	74'	71'	89'	95'	99'	107'
Vertical Curvature (K-values based on SSD) *	Crest	30-2.01	7	12	19	29	44	61
	Sag	30-2.02	17	26	37	49	64	79
Maximum Grade * (4)	Level	30-1.02	9%					8%
	Rolling		12%		11%	10%		9%
Minimum Grade		30-1.03	Desirable 0.5% / Minimum 0.3% (with Curb and Gutter)					

* Controlling design criteria (see Section 27-7).

(1) Intersection Sight Distance. Table values are for passenger cars at a stop-controlled intersection on a level grade based on the design speed of the major road. Increase these values 10% for grades > 3.0% on the minor road.

(2) Superelevation Rate. For reconstruction projects, existing horizontal curves may remain in place with a superelevation rate up to 6.0%.

(3) Superelevation Transition Length. Superelevation transition rates will vary according to design speed, radii, and superelevation rates. Table values are based on the minimum radii for the given design speed, maximum superelevation rate, 11 ft travel lanes, and a 1.5% cross slope for the normal crown section.

(4) Maximum Grade.

a. Collectors. Grades 1.0% to 2.0% steeper may be used on low-volume collectors and on grades less than 500 ft in length.

b. Local. Grades on local residential streets should be less than 15.0%.

ALIGNMENT CRITERIA FOR URBAN COLLECTORS / LOCAL STREETS

Figure 32-3C (US Customary)

30-2.01(b) Curve Lengths

The following discusses the application of K-values:

1. Vertical Point of Intersection (PVI). For crest vertical curves, it is acceptable to use an angle point (i.e., no vertical curve) for an algebraic difference of grade (Δ) of 0.6% or less.

35-2.03(c) Critical Front Slope

A critical front slope is one on which a vehicle is likely to overturn. Front slopes steeper than 1V:3H are critical (Figure 35-2C(c)). If a front slope steeper than 1V:3H begins closer to the through traveled way than the suggested clear-zone distance for that specific roadway, a barrier might be warranted if the slope cannot readily be flattened. See Section 35-3.

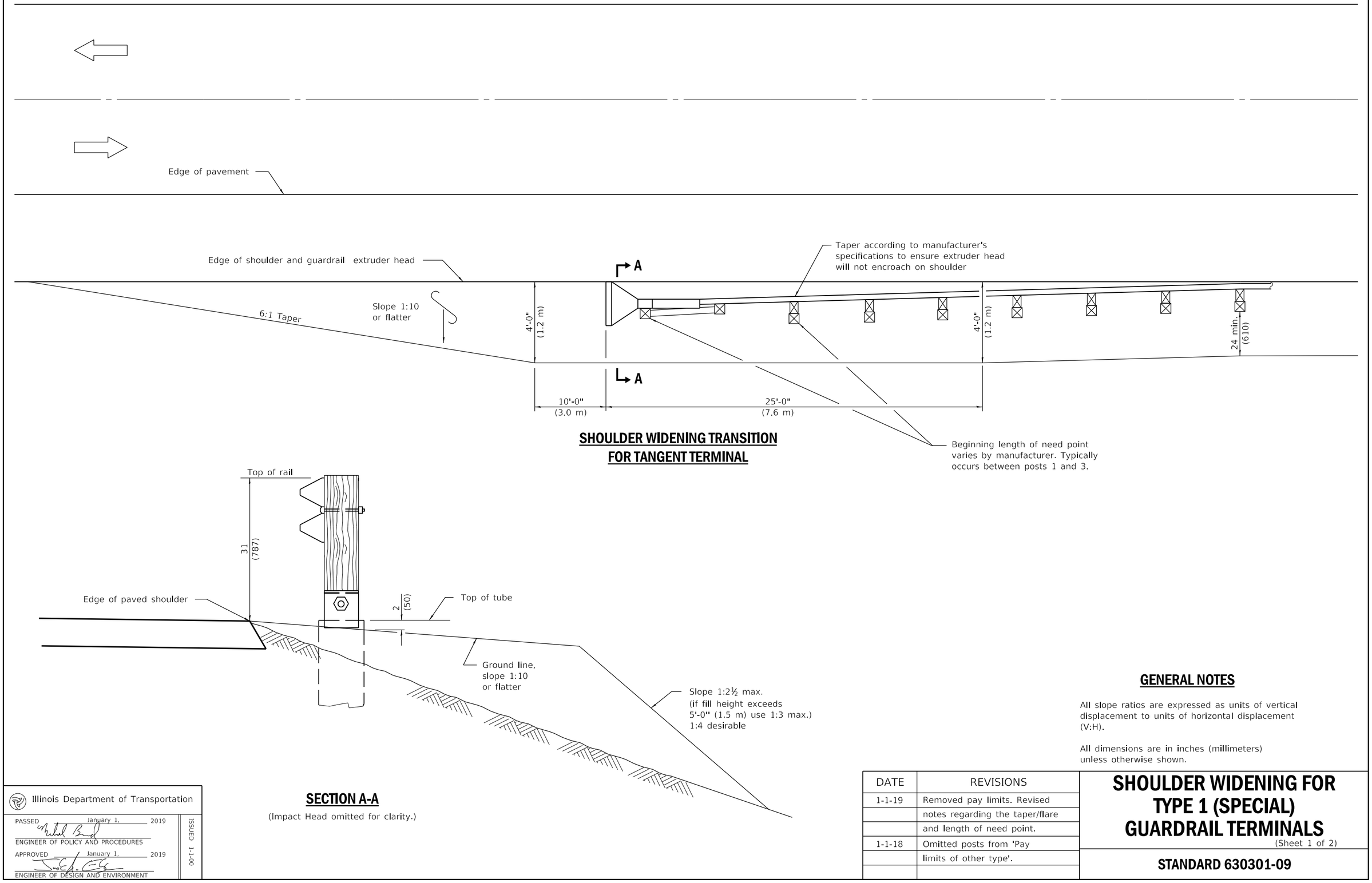
35-3.04 Embankments

A roadside barrier is not required when the roadway embankment has a parallel front slope of 1V:3H or flatter. A barrier is also not required if the ADT is under 400. However, a roadside barrier may be needed because of other hazards located on the slope. A barrier will be provided when the fill heights exceed the values in Figure 35-3A for slopes steeper than 1V:3H.

Embankment Slope	Design ADT 400-1500	Design ADT Over 1500
1V:2H	10 ft (3 m)	6 ft (1.8 m)
1V:2.5H	20 ft (6 m)	9 ft (2.7 m)

EMBANKMENT FILL HEIGHTS REQUIRING ROADSIDE BARRIERS

Figure 35-3A



SHOULDER WIDENING TRANSITION FOR TANGENT TERMINAL

SECTION A-A

(Impact Head omitted for clarity.)

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-00

DATE	REVISIONS
1-1-19	Removed pay limits. Revised
	notes regarding the taper/flare
	and length of need point.
1-1-18	Omitted posts from 'Pay
	limits of other type'.

SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

(Sheet 1 of 2)

STANDARD 630301-09

APPENDIX 3: HANOVER TOWNSHIP PROFESSIONAL SERVICES AGREEMENT

Provided for reference. Do not complete at this time. Agreement will need to be executed by selected consultant.

HANOVER TOWNSHIP
PROFESSIONAL SERVICES AGREEMENT

This Professional Services Agreement ("Agreement") is entered into this _____ day of _____, 2025, between, _____ ("Design Professional"), and Hanover Township ("Township") (collectively, the "Parties").

IN CONSIDERATION OF the recitals and the mutual covenants and agreements set forth in this Agreement, the Parties hereby agree as follows:

1. Understanding of Project. The project is to consist of Phase I Engineering Services for the Rohrssen Road Bridge Replacement Project in Hanover Township, Cook County, Illinois ("Project"), as more fully described in Design Professional's Proposal ("Proposal"), attached hereto as "Exhibit A." In the event of any conflict between the terms and conditions of this Agreement and the Proposal, the most stringent and demanding requirements shall control.

2. Representations of Design Professional. Design Professional represents that it is financially solvent, has the necessary financial resources, and is sufficiently experienced and competent to perform and complete the services ("Services") set forth in the Proposal in a manner consistent with the standards of professional practice by recognized firms providing services of a similar nature.

3. Scope of Services. Design Professional shall perform and complete the Services pursuant to the terms and conditions of this Agreement.

4. Commencement; Time of Performance. Design Professional shall commence the Services immediately upon receipt of written notice from Township that this Agreement has been fully executed by the Parties ("Commencement Date"). Design Professional shall diligently and continuously prosecute the Services in accordance with the Proposal until the completion of the Project or until the termination of this Agreement by Township, but in no event later than the date that is _____ days after the Commencement Date ("Time of Performance"). Township may modify the Time of Performance at any time upon fifteen (15) days prior written notice to Design Professional.

5. Reporting. Design Professional shall regularly report to the Township Administrator, or his designee, regarding the progress of the Services during the term of this Agreement.

6. Compensation and Method of Payment.

A. Contract Sum. The total amount paid by Township to Design Professional for the Services pursuant to this Agreement shall not exceed $_____ ("Contract Sum"). No claim for additional compensation shall be valid unless made in accordance with Sections 6(D) or 6(E) of this Agreement.

B. Invoices and Payment. Design Professional shall submit invoices in an approved format to Township for costs incurred by Design Professional in performing the Services. The amount billed in each invoice for the Services shall be based solely upon the fixed fees and/or rates set forth in the Proposal. The final pay request by Design Professional shall include, without limitation: (i) all final waivers of lien; and (ii) all final certified payrolls, as required. Township shall

pay invoice amounts to Design Professional in accordance with the Illinois Local Government Prompt Payment Act, 50 ILCS 505/2 *et seq*.

C. Records. Design Professional shall maintain records showing actual time devoted and costs incurred and shall permit Township to inspect and audit all data and records of Design Professional for work done pursuant to this Agreement. The records shall be made available to Township at reasonable times during the term of this Agreement and for one year after the termination of this Agreement.

D. Claim in Addition to Contract Sum. Design Professional shall provide written notice to Township of any claim for additional compensation as a result of action taken by Township, within fifteen (15) days after the occurrence of such action. Design Professional acknowledges and agrees that: (a) the provision of such written notice shall not be deemed or interpreted as entitling Design Professional to any additional compensation; and (b) any changes in the Contract Sum shall be valid only upon written amendment pursuant to Section 24(A) of this Agreement. Regardless of the decision of Township relative to a claim submitted by Design Professional, Design Professional shall proceed with all of the work required to complete the Services under this Agreement, as determined by Township, without interruption.

E. Additional Services. Design Professional acknowledges and agrees that Township shall not be liable for any costs incurred by Design Professional in connection with any services provided by Design Professional that are outside the scope of this Agreement ("Additional Services"), regardless of whether such Additional Services are requested or directed by Township, except upon the prior written consent of Township.

F. Taxes, Benefits, and Royalties. Each payment by Township to Design Professional includes all applicable federal, state, and local taxes of every kind and nature applicable to the Services, as well as all taxes, contributions, and premiums for unemployment insurance, old age or retirement benefits, pensions, annuities, or similar benefits, and all costs, royalties, and fees arising from the use on, or the incorporation into, the Services of patented or copyrighted equipment, materials, supplies, tools, appliances, devices, processes, or inventions, and Design Professional waives and releases all claims or rights to additional compensation by reason of the payment of any such tax, contribution, premium, cost, royalty, or fee.

G. Final Acceptance. The Services, or, if the Services are to be performed in separate phases, each phase of the Services, shall be considered complete on the date of final written acceptance by Township of the Services or each phase of the Services, as the case may be, which acceptance shall not be unreasonably withheld or delayed.

7. <u>Personnel; Subcontractors</u>.

A. Key Project Personnel. The Key Project Personnel identified in the Proposal shall be primarily responsible for carrying out the Services on behalf of Design Professional. The Key Project Personnel shall not be changed without Township's prior written approval.

B. Availability of Personnel. Design Professional shall provide all personnel necessary to complete the Services including, without limitation, any Key Project Personnel identified in this Agreement. Design Professional shall notify Township as soon as practicable prior to terminating the employment of, reassigning, or receiving notice of the resignation of, any Key Project Personnel. Design Professional shall have no claim for damages and shall not bill Township for additional time and materials charges as the result of any portion of the Services

which must be duplicated or redone due to such termination or for any delay or extension of the Time of Performance as a result of any such termination, reassignment, or resignation.

C. Approval and Use of Subcontractors. Design Professional shall perform the Services with its own personnel and under the management, supervision, and control of its own organization, unless otherwise approved in advance by Township in writing. All subcontractors used by Design Professional shall be acceptable to, and approved in advance by, Township. Township's approval of any subcontractor shall not relieve Design Professional of full responsibility and liability for the provision, performance, and completion of the Services as required by this Agreement. All Services performed under any subcontract shall be subject to all of the provisions of this Agreement in the same manner as if performed by employees of Design Professional. For purposes of this Agreement, the term "Design Professional" shall be deemed also to refer to all subcontractors of Design Professional, and every subcontract shall include a provision binding the subcontractor to all provisions of this Agreement.

D. Removal of Personnel and Subcontractors. If any personnel or subcontractor fails to perform the Services in a manner satisfactory to Township and consistent with commonly accepted professional practices, Design Professional shall immediately upon notice from Township remove and replace such personnel or subcontractor. Design Professional shall have no claim for damages, for compensation in excess of the amount contained in this Agreement, or for a delay or extension of the Time of Performance as a result of any such removal or replacement of personnel or subcontractors by Township.

8. <u>Confidential Information</u>.

A. Confidential Information. The term "Confidential Information" shall mean information in the possession or under the control of Township relating to the technical, business, or corporate affairs of Township; Township property; user information, including, but not limited to, information pertaining to usage of Township's computer system and/or obtained from server logs or other records of electronic or machine-readable form; and the existence of, and terms and conditions of, this Agreement. The term "Confidential Information" shall not include information that can be demonstrated: (1) to have been rightfully in the possession of Design Professional from a source other than Township prior to the time of disclosure of such information to Design Professional ("Time of Disclosure"); (2) to have been in the public domain prior to the Time of Disclosure; (3) to have become part of the public domain after the Time of Disclosure by a publication or by any other means except an unauthorized act or omission or breach of this Agreement on the part of Design Professional; or (4) to have been supplied to Design Professional after the Time of Disclosure without restriction by a third party who is under no obligation to Township to maintain such information in confidence.

B. No Disclosure of Confidential Information by Design Professional. Design Professional acknowledges that it shall, in performing the Services for Township under this Agreement, have access, or be directly or indirectly exposed, to Confidential Information. Design Professional shall hold confidential all Confidential Information and shall not disclose or use such Confidential Information without the express prior written consent of Township. Design Professional shall use reasonable measures at least as strict as those Design Professional uses to protect its own confidential information. Such measures shall include, without limitation, requiring employees and subcontractors of Design Professional to execute a non-disclosure agreement before obtaining access to Confidential Information.

9. Standard of Services, Indemnification, and Insurance.

A. Representation and Certification of Services. Design Professional represents and certifies that the Services shall be performed in accordance with the standards of professional practice, care, skill, and diligence practiced by recognized members of Design Professional's profession in performing services of a similar nature in existence at the Time of Performance. The representations and certifications expressed shall be in addition to any other representations and certifications expressed in this Agreement, or expressed or implied by law, which are hereby reserved unto Township.

B. Indemnification. Design Professional agrees to waive any and all rights of contribution against Township and shall indemnify, defend, and hold harmless Township, the Township Supervisor and Board of Trustees, and their respective officials, officers, employees, volunteers, agents, representatives, successors, and assigns (individually, an "Indemnified Party" and, collectively, the "Indemnified Parties"), from and against any and all claims, lawsuits, actions, causes of action, demands, injuries, deaths, damages, losses, penalties, fines, obligations, liabilities, judgments, liens, lien rights, expenses, costs, and fees, including, but not limited to, attorneys' fees and expenses, court costs, settlement judgments, prejudgment interest, and post-judgment interest (collectively, "Claims"), which arise out of or in any way relate to the following: (a) Design Professional's performance of, or failure to perform, the Services, the Additional Services, or any part thereof; (b) the actual or alleged acts, errors, or omissions of Design Professional or its officials, officers, employees, volunteers, agents, representatives, contractors or subcontractors of any tier, successors, or assigns, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable (collectively, "Design Professional's Agents"); (c) Design Professional's breach of any of its obligations under, or Design Professional's default of, any provision of this Agreement, including, but not limited to, the representations and certifications set forth in Section 9(A) of this Agreement, infringement of any patent, trademark, or copyright, or violation of any Laws (defined below); except to the extent it has been finally adjudicated by a court of competent jurisdiction, evidenced by a final non-appealable order, that the Claim was caused by the negligence of an Indemnified Party. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation to indemnify, defend, or hold harmless which would otherwise exist as to any party or person under this Agreement

In the event an Indemnified Party is subject to any Claim, Design Professional shall, at its sole cost and expense, appear, defend, and pay any and all judgment, expenses, costs, and fees, including, but not limited to, attorneys' fees and expenses and court costs, arising therefrom or incurred in connection therewith. The obligations in this paragraph are binding on Design Professional without regard to whether or not such Claim is alleged to have been caused in whole or in part by the act, omission, or negligence of any Indemnified Party. The Indemnified Parties shall have the right to retain their own counsel in connection with such Claim, without relieving Design Professional of its obligations under this Section 9(B). Design Professional shall also assume the investigation, defense, and expense of all such Claims, or, in the event that an Indemnified Parties assumed the investigation or defense of any Claim, Design Professional shall indemnify such Indemnified Parties for all related costs as they are incurred. Any settlement must be made only with the prior written consent of an Indemnified Party if the settlement requires any action on the part of that Indemnified Party.

The indemnification and defense obligations in this Agreement shall not be limited by any insurance protection required of Design Professional herein or otherwise provided by Design Professional. To the extent permitted by law, Design Professional waives any limits to the amount

of its obligations to defend, indemnify, hold harmless, or contribute to any sums due under any Claims, including any Claim by any employee of Design Professional, that may be subject to the Workers Compensation Act, 820 ILCS 305/1 *et seq*., or any other related law or judicial decision, such as *Kotecki v. Cyclops Welding Corporation*, 146 Ill. 2d 155 (1991). Township, however, does not waive any limits it may have on its liability under the Worker's Compensation Act, the Illinois Pension Code, any other statute, or any judicial decision. Nothing in this Section 9(B) shall be construed to represent an express and/or implied waiver of any common law or statutory privileges, immunities, protections, or defenses granted or otherwise available to Township as to any liability whatsoever, and all such privileges and immunities are expressly reserved. The indemnification and defense obligations in this Agreement shall survive the expiration and/or termination of this Agreement.

C. Insurance.

i. Required Coverages. Design Professional shall procure and maintain for the duration of the Services and Additional Services insurance Workers' Compensation and Employers Liability Insurance, Commercial General Liability Insurance, and Automobile Insurance in the types and in the amounts of not less than as follows:

Workers Compensation and Employees Liability Insurance:

State:	Statutory
Federal:	Statutory
Employer's Liability:	$500,000.00 per accident
	$500,000.00 disease, policy limit
	$500,000.00 disease, each employee

Commercial General Liability Insurance ("CGL"):

$2,000,000.00	General Aggregate per Project
$1,000,000.00	Products Completed Operations Aggregate
$1,000,000.00	Each Occurrence

CGL insurance shall cover liability arising from the Services and Additional Services, including activities performed by or on behalf of Design Professional; premises owned, leased, or used by Design Professional; operations; administration of the work; independent contractors; subcontractors; vendors and suppliers; products-completed operations; personal injury and advertising injury; and liability assumed under an insured contract (including the tort liability of another assumed in a business contract). There shall be no endorsement or modification of the CGL insurance limiting the scope of coverage for liability arising from explosion, collapse, or underground property damage.

Commercial Automobile Liability Insurance ("CAL"):

Property Damage:	$1,000,000.00 per occurrence
Bodily Injury:	$1,000,000.00 per person
	$1,000,000.00 per accident

CAL insurance shall cover liability arising out of "Any Auto" including owned, hired, and non-owned autos. If necessary, the policy shall be endorsed to cover liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

Professional Liability Insurance:

$2,000,000.00 Per wrongful act or failure to perform professional services

When Professional Liability Insurance policies are renewed or replaced, the policy retroactive date must coincide with, or precede, the start of services on the Agreement. A claims-made policy which is not renewed or replaced must have an extended reporting period of two (2) years.

Umbrella Excess Liability:

$1,000,000.00 Over Primary Insurance Limit

ii. Additional Insured. The required insurance coverages, with the exception of Workers Compensation, shall name Hanover Township, the Hanover Township Supervisor and Board of Trustees, and their respective officers, elected and appointed officials, employees, volunteers, agents, successors, and/or assigns (collectively, the "Additional Insured") as insured. These insurance coverages shall be primary and non-contributory with respect to any other insurance or self-insurance afforded to the Additional Insured and shall not require exhaustion of any other coverage or tender of any claim or action to any other insurer providing coverage to any of the Additional Insured. The coverage shall contain no special limitations on the scope of protection afforded to the Additional Insured, or any of them. If Design Professional maintains broader coverage and/or higher limits than the minimums shown above, the Additional Insured requires and should be entitled to the broader coverage and/or higher limits maintained by Design Professional. Any endorsement or policy provision which limits contractual liabilities shall be deleted in its entirety. If the Additional Insured have not been included as an insured under the Commercial General Liability, Commercial Auto Liability, and Umbrella Excess Liability Insurance coverages required herein, Design Professional waives all rights against each Additional Insured, for recovery of damages arising out of or related to the Services or Additional Services.

iii. Acceptability of Insurers. Insurance shall be provided by insurance companies licensed to do business in the State of Illinois with a policy holder rating of not less than A and a financial rating of not less than VII in the latest edition of Best Insurance Guide. Upon written request from the Township Administrator, Design Professional must supply certified copies of the requested insurance policies within ten (10) days.

iv. Evidence of Insurance. Prior to beginning work, Design Professional shall furnish Township with a certificate(s) of insurance and applicable policy endorsement(s), including, but not limited to, all additional insured endorsements required herein, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above. All certificates shall provide for thirty (30) days' written notice to Township prior to the cancellation or material change of any insurance referred to therein. Written notice to Township shall be by certified mail, return receipt requested. Failure of Township to demand such certificate, endorsement, or other evidence of full compliance with these insurance requirements or failure of Township to identify a deficiency from evidence that is provided shall not be construed as a waiver of Design Professional's obligation to maintain such insurance. Township shall have the right, but not the obligation, of prohibiting Design Professional or any subcontractor of any tier from entering Township properties until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by Township. Failure to maintain the required insurance may result in termination of this Agreement at the option of Township. With respect to insurance maintained after final payment in compliance with a

requirement above, an additional certificate(s) evidencing such coverage shall be promptly provided to Township whenever requested.

v. Cross-Liability Coverage. If Design Professional's liability policies do not contain the standard ISO separation of insureds provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.

vi. Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to Township. At the option of Township, Design Professional may be asked to eliminate such deductibles or self-insured retentions as respects the Additional Insured or required to procure a bond guaranteeing payment of losses and other related costs, including, but not limited to, investigations, claim administration, and defense expenses.

vii. No Waiver of Subrogation Rights. Township shall not, in any manner, be deemed or intended to have waived any right of subrogation which either it and/or its insurance carrier and/or risk pool provider, risk management agency, and/or insurance company providing excess coverage on behalf of the any of them may have against any Design Professional, for any property injury, death, or other damage caused by Design Professional and/or any of its subcontractors of any tier, or any of their respective employees, agents, consultants, officers, directors, limited or general partners, and/or otherwise arising out of the Services or Additional Services.

viii. Failure to Comply with Insurance Reporting Provisions. All insurance required of Design Professional shall provide that any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Additional Insured, or any of them.

ix. Insurance Requirements Cannot Be Waived. Under no circumstances shall Township and/or any of the Additional Insured be deemed to have waived any of the insurance requirements herein by any action or omission, including, but not limited to: (a) allowing any work to commence by Design Professional before receipt of Certificates of Insurance; (b) failing to review any Certificates of Insurance received; (c) Failing to advise Design Professional that any Certificate of Insurance fails to contain all the required insurance provisions, or is otherwise deficient in any manner; and/or (d) issuing any payment without receipt of a sworn certification from Design Professional stating that all the required insurance is in force. Design Professional agrees that the obligation to provide the insurance required herein is solely its responsibility and that this is a requirement which cannot be waived by any conduct, action, inaction or omission by Township and/or any of the other Additional Insured.

x. Liability of Design Professional not Limited by Insurance. Nothing herein contained in these insurance requirements is to be construed as limiting the liability of Design Professional and/or its respective insurance carriers. Township and the Additional Insureds do not, in any way, represent that the coverages or limits of insurance specified is sufficient or adequate to protect the Additional Insured, or any of them, Design Professional, or any subcontractor's interest or liabilities, but are merely minimums. Any obligation of Design Professional to purchase insurance shall not, in any way, limit their obligations to the Additional Insured in the event that the Additional Insured, or any of them, should suffer an injury or loss in excess of the amount recovered through insurance, or any loss or portion of the loss which is not covered by Design Professional’s insurance.

xi. Notice of Personal Injury or Property Damage. Design Professional shall notify Township, in writing, of any actual or possible claim for personal injury or property damage relating

to the work, or of any occurrence which might give rise to such a claim, promptly upon obtaining first knowledge of same.

xii. *Subcontractors.* Design Professional shall cause each subcontractor employed by Design Professional to purchase and maintain insurance of not less than the types and amounts specified above. When requested by Township, Design Professional shall furnish copies of certificates of insurance evidencing coverage for each subcontractor.

D. No Personal Liability. No elected or appointed official or employee of Township shall be personally liable, in law or in contract, to Design Professional as the result of the execution of this Agreement.

E. Mutual Waiver. To the fullest extent permitted by law, Design Professional and Township waive against each other and the other's officials, officers, employees, volunteers, agents, representatives, successors, and assigns any and all claims for or entitlement to special, incidental, indirect, or consequential damages arising out of, resulting from, or in any way related to this Agreement.

10. Relationship of the Parties. It is understood, acknowledged, and agreed by the Parties that the relationship of Design Professional to Township arising out of this Agreement shall be that of an independent contractor. Neither Design Professional, nor any employee or agent of Design Professional, is an employee, partner, joint venturer, and/or agent of Township, and, therefore, is not entitled to any benefits provided to employees of Township. Design Professional has no authority to employ/retain any person as an employee or agent for or on behalf of Township for any purpose. Neither Design Professional nor any person engaging in any work or services related to this Agreement at the request or with the actual or implied consent of Design Professional may represent himself to others as an employee of Township. Should any person indicate to Design Professional or any employee or agent of Design Professional by written or oral communication, course of dealing or otherwise, that such person believes Design Professional to be an employee or agent of Township, Design Professional shall use its best efforts to correct such belief. In ordering or accepting delivery of or paying for any goods or services, Design Professional shall do so in Design Professional's own business.

11. Conflict of Interest. Design Professional represents and certifies that, to the best of its knowledge: (1) no elected or appointed Township official, employee, or agent has a personal financial interest in the business of Design Professional or in this Agreement or has personally received payment or other consideration for this Agreement; (2) as of the date of this Agreement, neither Design Professional nor any person employed or associated with Design Professional has any interest that would conflict in any manner or degree with the performance of the obligations under this Agreement; and (3) neither Design Professional nor any person employed by or associated with Design Professional shall at any time during the term of this Agreement obtain or acquire any interest that would conflict in any manner or degree with the performance of the obligations under this Agreement.

12. No Collusion. Design Professional represents and certifies that Design Professional is not barred from contracting with a unit of state or local government as a result of: (1) a delinquency in the payment of any tax administered by the Illinois Department of Revenue, unless Design Professional is contesting, in accordance with the procedures established by the appropriate revenue act, its liability for the tax or the amount of the tax, as set forth in Section 11-42.1-1 *et seq.* of the Illinois Municipal Code, 65 ILCS 5/11- 42.1-1 *et seq.*; or (2) a violation of either Section 33E-3 or Section 33E-4 of Article 33E of the Criminal Code of 1961, 720 ILCS

5/33E-1 *et seq.* Design Professional represents that the only persons, firms, or corporations interested in this Agreement as principals are those disclosed to Township prior to the execution of this Agreement, and that this Agreement is made without collusion with any other person, firm, or corporation. If at any time it shall be found that Design Professional has, in procuring this Agreement, colluded with any other person, firm, or corporation, then Design Professional shall be liable to Township for all loss or damage that Township may suffer, and this Agreement shall, at Township's option, be null and void.

13. Compliance with Laws. Design Professional shall give all notices, pay all fees, and take all other action that may be necessary to ensure that the Services are provided, performed, and completed in accordance with all required governmental permits, licenses, or other approvals and authorizations that may be required in connection with providing, performing, and completing the Services, and with all applicable federal, state, and local laws, statutes, ordinances, codes, regulations, rules, orders and decrees (collectively, the "Laws"), including, without limitation: any applicable prevailing wage laws; the Fair Labor Standards Act; any statutes regarding qualification to do business; any statutes requiring preference to laborers of specified classes; any statutes prohibiting discrimination because of, or requiring affirmative action based on, race, creed, color, national origin, age, sex, or other prohibited classification, including, without limitation, the Americans with Disabilities Act of 1990, 42 U.S.C. §§ 12101 *et seq.*, and the Illinois Human Rights Act, 775 ILCS 5/1-101 *et seq*.; and any conditions of any federal, state, or local grant received by Township or Design Professional with respect to this Agreement, the Services, and/or the Project. Every provision of law required by law to be inserted into this Agreement shall be deemed to be inserted herein. In the event of any conflict and/or inconsistencies between any of the Laws, the most stringent Laws shall be controlling and applicable to this Agreement and the Services.

14. Illinois Human Rights Act. Pursuant to Section 2-105 of the Illinois Human Rights Act, 775 ILCS 5/1-101 *et seq*., ("IHRA"), every party to a public contract shall have written sexual harassment policies that include, at a minimum, the following information:

(1) The illegality of sexual harassment;
(2) The definition of sexual harassment under State law;
(3) A description of sexual harassment, utilizing examples;
(4) The vendor's internal complaint process, including penalties;
(5) The legal recourse, investigative, and complaint process available through the Illinois Department of Human Rights ("Department") and the Illinois Human Rights Commission ("Commission");
(6) Directions on how to contact the Department and the Commission; and
(7) Protection against retaliation as provided by Section 6-101 and 6-101.5 of the IHRA.

Design Professional understands, represents, and warrants to the Township that Design Professional and its subcontractors, if any, are and shall remain for the entirety of the Project in compliance with Section 2-105 of the IHRA. A violation of Section 2-105 of the IHRA is cause for the immediate termination of this Agreement. However, any forbearance or delay by the Township in canceling this Agreement shall not be construed as, and does not constitute, the Township's consent to such violation and a waiver of any rights the Township may have, including without limitation, termination of this Agreement.

15. Illinois Prevailing Wage Act. All laborers, mechanics, and other workers employed by Design Professional and by any subcontractor(s) performing the Services, the Additional Services, or any part thereof shall be paid wages (*i.e.*, hourly cash wages plus fringe

benefits) at rates not less than those required under the Illinois Prevailing Wage Act ("Act"), 820 ILCS 130/01 *et seq*. ("Prevailing Wages"). Design Professional and all subcontractor(s) shall comply with all regulations issued pursuant to the Act and other applicable federal, state, and local laws and regulations pertaining to labor standards with the most stringent laws and regulations controlling. Design Professional agrees and stipulates that the prevailing rate of wages are revised by the Illinois Department of Labor and are available on the Illinois Department of Labor's official website. Design Professional shall notify immediately in writing all its subcontractors of all changes in the schedule of Prevailing Wages. Design Professional shall include in each of its subcontracts a written stipulation that not less than the Prevailing Wages shall be paid to all laborers, mechanics, and other workers performing the Services, the Additional Services, or any part thereof under this Agreement and shall require each of its subcontractors of every tier to include said stipulation regarding payment of Prevailing Wages.

Any increase in costs to Design Professional due to changes in the Prevailing Wages or labor law during the term of any contract and/or sub-contract of any tier shall be at the expense of Design Professional and not at the expense of Township. Design Professional shall be solely responsible to maintain accurate records as required by applicable federal and state law, with the most stringent requirements controlling, and shall be solely liable for paying the difference between Prevailing Wages and any wages actually received by laborers, mechanics, or other workers performing the Services, the Additional Services, or any part thereof and for ensuring strict compliance with the requirements of the above mentioned Act, including, but not limited to, providing certified payrolls to Township in accordance with said applicable laws.

16. Illinois Freedom of Information Act. Design Professional agrees to maintain, without charge to Township, all records, and documents for projects of Township in compliance with the Freedom of Information Act ("FOIA"), 5 ILCS 140/1 *et seq*. In addition, Design Professional shall produce records which are responsive to a request received by Township under FOIA, so that Township may provide records to those requesting them within the time frames required. If additional time is necessary to compile records in response to a request, then Design Professional shall so notify Township, and, if possible, Township shall request an extension so as to comply with FOIA. In the event Township is found to have not complied with FOIA due to Design Professional's failure to produce documents or otherwise appropriately respond to a request under FOIA, Design Professional shall indemnify, defend, and hold harmless the Indemnified Parties from and against any and all Claims that may arise, or be alleged to have arisen, out of or in connection with such failure, and pay all amounts determined to be due, including, but not limited to, fines, costs, attorneys' fees and penalties.

17. Termination. Notwithstanding any other provision hereof, Township may terminate this Agreement at any time upon fifteen (15) days written notice to Design Professional. In the event that this Agreement is so terminated, Design Professional shall be paid for Services actually performed and reimbursable expenses actually incurred, if any, prior to termination, not exceeding the value of the Services completed, which shall be determined on the basis of the fixed fees and/or rates set forth in the Proposal.

18. Default. If it should appear at any time that Design Professional has failed or refused to prosecute, or has delayed in the prosecution of, the Services with diligence at a rate that assures completion of the Services or the Additional Services in full compliance with the requirements of this Agreement, or has otherwise failed, refused, or delayed to perform or satisfy the Services, the Additional Services, or any other requirement of this Agreement ("Event of Default"), and fails to cure any such Event of Default within ten (10) business days after Design Professional's receipt of written notice of such Event of Default by Township, then Township shall

have the right, without prejudice to any other remedies provided by law or equity, to pursue any one or more of the following remedies:

A. Cure by Design Professional. Township may require Design Professional, within a reasonable time, to complete or correct all or any part of the Services or the Additional Services that are the subject of the Event of Default; and to take any or all other action necessary to bring Design Professional and the Services into compliance with this Agreement.

B. Termination of Agreement by Township. Township may terminate this Agreement without liability for further payment of amounts due or to become due under this Agreement after the effective date of termination.

C. Withholding of Payment by Township. Township may withhold from any payment, whether or not previously approved, or may recover from Design Professional, any and all costs, including attorneys' fees and administrative expenses, incurred by Township as the result of any Event of Default by Design Professional or as a result of actions taken by Township in response to any Event of Default by Design Professional.

19. No Additional Obligation. Design Professional and Township acknowledge and agree that Township is under no obligation under this Agreement or otherwise to negotiate or enter into any other or additional contracts or agreements with Design Professional or with any vendor solicited or recommended by Design Professional.

20. Township Board Authority. Notwithstanding any provision of this Agreement, any negotiations or agreements with, or representations by Design Professional to, vendors shall be subject to the approval of the Township Supervisor and Board of Trustees. For purposes of this Section 20, "vendors" shall mean entities engaged in subcontracts for the provision of additional services directly to Township. Township shall not be liable to any vendor or third party for any agreements made by Design Professional without the knowledge and approval of the Township Supervisor and Board of Trustees.

21. Mutual Cooperation. Township agrees to cooperate with Design Professional in the performance of the Services, including meeting with Design Professional and providing Design Professional with such non-confidential information that Township may have that may be relevant and helpful to Design Professional's performance of the Services. Design Professional agrees to cooperate with Township in the performance and completion of the Services, the Additional Services, and with any other consultants engaged by Township.

22. Ownership. Designs, drawings, plans, specifications, photos, reports, information, observations, calculations, notes, and any other documents, data, or information, in any form, prepared, collected, or received from Township by Design Professional in connection with any or all of the Services to be performed under this Agreement ("Documents") shall be and remain the exclusive property of Township. At Township's request, or upon termination of this Agreement, Design Professional shall promptly deliver the Documents to Township.

23. Dispute Resolution. In the event any dispute shall arise with respect to any matter related to or arising out of this Agreement, the Parties shall use their best efforts to resolve the dispute through an informal dispute resolution process, to include, but not limited to mediation. In the event that the Parties are unable to resolve the dispute informally within thirty (30) days, both Parties agree to waive their right to a jury trial and agree that either party may elect to have the matter resolved by binding arbitration before a neutral arbitrator to be agreed upon by both

Parties. In the event that both Parties are unable to agree upon a third-party neutral arbitrator, the matter will be submitted by the Parties to a mutually determined neutral arbitration firm. In the event the Parties are unable to mutually agree upon a neutral arbitration firm, the matter will be submitted by the Parties to the American Arbitration Association. The decision of the arbitrator shall be final and not appealable and subject to enforcement as a judgment under the Illinois Code of Civil Procedure. All rules of procedure, discovery, and evidence as set forth in the rules adopted by the American Arbitration Association, at the time that arbitration is required, shall be applicable to the proceedings, except to the extent those rules conflict with the requirements of applicable Illinois law. Any arbitration pursuant to this Agreement shall take place in Cook County, Illinois. Each party shall be responsible for its own costs and expenses related to the arbitration, including, but not limited to, attorneys' fees, but the costs of the arbitration shall be shared equally by both Parties. This dispute resolution provision shall survive any termination of this Agreement.

24. General Terms and Conditions.

A. Entire Agreement. This Agreement constitutes the full and complete agreement between Design Professional and Client and supersedes all prior agreements and negotiations between them, whether written or oral, relating to the subject matter of this Agreement. This Agreement may be amended, added to, superseded, or waived only if both parties specifically define in writing an official amendment of this Agreement.

B. Assignment. This Agreement may not be assigned by Township or Design Professional without the express written permission of the other party. This Agreement shall be binding upon and inure to the benefit of any permitted assigns.

C. Notice. Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be deemed served: (a) when delivered by Federal Express or similar overnight courier service to that Party's address set forth below during the hours of 9:00 a.m. and 5:00 p.m. C.S.T., Monday through Friday, excluding federal holidays ("Business Hours"); (b) when mailed to any other person designated by that Party in writing to receive such notice, via certified mail, return receipt requested, postage prepaid; or (c) when transmitted via fax sent during Business Hours. In the event fax notice is transmitted during non-Business Hours, the effective date and time of notice is the first hour of the first business day after transmission. Notice shall be given to the following:

If to Design Professional:

_____
_____
_____
Attention: _____

With a copy to:

_____
_____
_____
Attention: _____

If to Township:

Hanover Township
250 S. IL Route 59
Bartlett, Illinois 60103
Attention: James Barr, Township Administrator

With a copy to:

Airdo Werwas, LLC
111 E. Wacker Drive, Suite 500
Chicago, IL 60601
Attention: Michael A. Airdo

D. Third-Party Beneficiary. This Agreement is entered into solely for the benefit of the parties hereto, and nothing herein is intended, either expressly or impliedly, to provide any right or benefit of any kind whatsoever to any person or entity who is not a party to this Agreement, or to acknowledge, establish, or impose any legal duty or obligation to any third party. No claim as a third-party beneficiary under this Agreement by any person or entity shall be made or be valid against Township.

E. Survival. All express representations, waivers, indemnifications, and limitations of liability included in this Agreement will survive its completion or termination for any reason.

F. Severability. Any provision or part of the Agreement held to be void or unenforceable under the Laws or Regulations shall be deemed stricken, and all remaining provisions shall continue to be deemed binding upon the Client and Design Professional, who agree that the Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

G. Time. Time is of the essence in the performance of all terms and provisions of this Agreement.

H. Calendar Days and Time. Unless otherwise provided in this Agreement, any reference in this Agreement to "day" or "days" shall mean calendar days and not business days. If the date for giving of any notice required to be given, or the performance of any obligation, under this Agreement falls on a Saturday, Sunday, or federal holiday, then the notice or obligation may be given or performed on the next business day after that Saturday, Sunday, or federal holiday.

I. Governing Law. This Agreement shall be construed, governed, and enforced according to the laws of the State of Illinois.

J. Authority to Execute. Township hereby warrants and represents to Design Professional that the persons executing this Agreement on its behalf have been properly authorized to do so by the Township Supervisor and Board of Trustees. Design Professional hereby warrants and represents to Township that the persons executing this Agreement on its behalf have the full and complete right, power, and authority to enter into this Agreement and to agree to the terms, provisions, and conditions set forth in this Agreement and that all legal actions needed to authorize the execution, delivery, and performance of this Agreement have been taken.

K. Waiver. Neither Township nor Design Professional shall be under any obligation to exercise any of the rights granted to them in this Agreement, except as it shall determine to be in its best interest from time-to-time. The failure of Township or Design Professional to exercise at any time any such rights shall not be deemed or construed as a waiver of that right, nor shall the failure void or affect Township's or Design Professional's right to enforce such rights or any other rights.

L. Consents. Unless otherwise provided in this Agreement, whenever the consent, permission, authorization, approval, acknowledgement, or similar indication of assent of any party to this Agreement, or of any duly authorized officer, employee, agent, or representative of any party to this Agreement, is required in this Agreement, the consent, permission, authorization, approval, acknowledgement, or similar indication of assent shall be in writing.

M. Grammatical Usage and Construction. In construing this Agreement, pronouns include all genders, and the plural includes the singular and vice versa.

N. Interpretation. This Agreement shall be construed without regard to the identity of the party who drafted the various provisions of this Agreement. Moreover, each and every provision of this Agreement shall be construed as though all Parties to this Agreement participated equally in the drafting of this Agreement. As a result of the foregoing, any rule or construction that a document is to be construed against the drafting party shall not be applicable to this Agreement.

O. Headings. The headings, titles, and captions in this Agreement have been inserted only for convenience and in no way define, limit, extend, or describe the scope or intent of this Agreement.

P. Exhibits. Exhibits A through ___ attached to this Agreement are, by this reference, incorporated in and made a part of this Agreement. In the event of a conflict between an Exhibit and the text of this Agreement, the text of this Agreement shall control.

Q. Rights Cumulative. Unless expressly provided to the contrary in this Agreement, each and every one of the rights, remedies, and benefits provided by this Agreement shall be cumulative and shall not be exclusive of any other rights, remedies, and benefits allowed by law.

R. Counterpart Execution. This Agreement may be executed in several counterparts, each of which, when executed, shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

S. No Waiver of Immunities or Privileges. Nothing herein shall be construed as an express and/or implied waiver of any common law and/or statutory immunities and/or privileges of Hanover Township, and/or its officials, officers, employees, volunteers and/or agents.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date set forth above.

HANOVER TOWNSHIP	**DESIGN PROFESSIONAL**
_____	_____
Township Supervisor	_____
Date:_____	Date:_____
ATTEST:	ATTEST:
_____	_____
Township Clerk	_____

EXHIBIT A

DESIGN PROFESSIONAL'S PROPOSAL

[TO BE PREPARED BY DESIGN PROFESSIONAL AND ACCEPTABLE TO TOWNSHIP]

[SHALL INCLUDE SCHEDULE]

APPENDIX 4: IDOT ENGINEERING SERVICES AGREEMENT

Provided for reference. Do not complete at this time. Agreement will need to be executed by selected consultant.

Illinois Department of Transportation

Local Public Agency
Engineering Services Agreement

Using Federal Funds? ☒ Yes ☐ No

Agreement For: Federal PE

Agreement Type: Original

LOCAL PUBLIC AGENCY

Local Public Agency | County | Section Number | Job Number

Project Number | Contact Name | Phone Number | Email

SECTION PROVISIONS

Local Street/Road Name | Key Route | Length | Structure Number

Location Termini

Add Location | Remove Location

Project Description

Engineering Funding ☒ Federal ☒ MFT/TBP ☐ State ☐ Other

Anticipated Construction Funding ☒ Federal ☒ MFT/TBP ☐ State ☐ Other

AGREEMENT FOR

☒ Phase I - Preliminary Engineering ☐ Phase II - Design Engineering

CONSULTANT

Prime Consultant (Firm) Name | Contact Name | Phone Number | Email

Address | City | State | Zip Code

THIS AGREEMENT IS MADE between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Project funding allotted to the LPA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT," will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Since the services contemplated under the AGREEMENT are professional in nature, it is understood that the ENGINEER, acting as an individual, partnership, firm or legal entity, qualifies for professional status and will be governed by professional ethics in its relationship to the LPA and the DEPARTMENT. The LPA acknowledges the professional and ethical status of the ENGINEER by entering into an AGREEMENT on the basis of its qualifications and experience and determining its compensation by mutually satisfactory negotiations.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director, Office of Highways Project Implementation, Regional Engineer, Department of Transportation
Resident Construction Supervisor	Authorized representative of the LPA in immediate charge of the engineering details of the construction PROJECT
In Responsible Charge	A full time LPA employee authorized to administer inherently governmental PROJECT activities
Contractor	Company or Companies to which the construction contract was awarded

AGREEMENT EXHIBITS

The following EXHIBITS are attached hereto and made a part of hereof this AGREEMENT:

☒ EXHIBIT A: Scope of Services

☒ EXHIBIT B: Project Schedule

☒ EXHIBIT C: Qualification Based Selection (QBS) Checklist

☒ EXHIBIT D: Cost Estimate of Consultant Services (CESCS) Worksheet (BLR 05513 or BLR 05514)

☐ _____

☐ _____

☐ _____

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the Scope of Services presented in EXHIBIT A for the LPA in connection with the proposed improvements herein before described.
2. The Classifications of the employees used in the work shall be consistent with the employee classifications and estimated staff hours. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
3. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections required as a result of the ENGINEER'S error, omissions or negligent acts without additional compensation. Acceptance of work by the LPA or DEPARTMENT will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or the responsibility for clarifying ambiguities.
4. That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
5. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
6. To invoice the LPA for Preliminary and/or Design Engineering: The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. To submit a completed BLR 05613, Engineering Payment Report, to the DEPARTMENT within three months of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement. The form shall be submitted with the final invoice.
8. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of United States Department of Transportation (US DOT) assisted contract. Failure by the Engineer to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LPA deems appropriate.
9. That none of the services to be furnished by the ENGINEER shall be sublet assigned or transferred to any other party or parties without written consent of the LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
10. For Preliminary Engineering Contracts:
    (a) To attend meetings and visit the site of the proposed improvement when requested to do so by representatives of the LPA or the DEPARTMENT, as defined in Exhibit A (Scope of Services).
    (b) That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by the ENGINEER and affix the ENGINEER's professional seal when such seal is required by law. Such endorsements must be made by a person, duly licensed or registered in the appropriate category by the Department of Professional Regulation of the State of Illinois. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the DEPARTMENT.
    (c) That the ENGINEER is qualified technically and is thoroughly conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated in Exhibit A (Scope of Services).
11. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See DIRECT COST tab in BLR 05513 or BLR 05514).

II. THE LPA AGREES,

1. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the following:
    (a) Professional Services Selection Act (50 ILCS 510), The Brooks Act (40 USC 11), and the Procurement, Management, and Administration of Engineering, and Design Related Services (23 CFR part 172). Exhibit C is required to be completed with this AGREEMENT.
2. To furnish the ENGINEER all presently available survey data, plans, specifications, and project information.

3. To pay the ENGINEER:
   (a) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
   (b) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and DEPARTMENT a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.
4. To pay the ENGINEER as compensation for all services rendered in accordance with the AGREEMENT on the basis of the following compensation method as discussed in 5-5.10 of the BLR Manual.

   Method of Compensation:

☐ Lump Sum

☐ Specific Rate

☒ Cost plus Fixed Fee:

Fixed

Total Compensation = DL + DC + OH + FF

Where:

DL is the total Direct Labor,
DC is the total Direct Cost,
OH is the firm's overhead rate applied to their DL and
FF is the Fixed Fee.

Where FF = (0.33 + R) DL + %SubDL, where R is the advertised Complexity Factor and %SubDL is 10% profit allowed on the direct labor of the subconsultants.

The Fixed Fee cannot exceed 15% of the DL + OH.

5. The recipient shall not discriminate on the basis of race, color, national original or sex in the award and performance of any US DOT assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by US DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this AGREEMENT. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C 3801 et seq.).

III. IT IS MUTUALLY AGREED,

1. No work shall be commenced by the ENGINEER prior to issuance by the IDOT of a written Notice to Proceed.
2. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General, and the DEPARTMENT: the Federal Highways Administration (FHWA) or any authorized representative of the federal government, and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
3. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARMTENT, and their officers, agents, and employees from all suits, claims, actions or damage liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

   The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.
4. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such material becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.
5. In the event that the DEPARMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this

   AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred as a result

of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.

6. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.

7. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and have harmless the LPA, the DEPARTMENT, and their officers, employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

8. The ENGINEER and LPA certify that their respective firm or agency:

   (a) has not employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
   (b) has not agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
   (c) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
   (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
   (e) has not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property,
   (f) are not presently indicated for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph e and
   (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State or local) terminated for cause or default.

   Where the ENGINEER or LPA is unable to certify to any of the above statements in this certification, an explanation shall be attached to this AGREEMENT.

9. In the event of delays due to unforeseeable causes beyond the control of and without fault or negligence of the ENGINEER no claim for damages shall be made by either party. Termination of the AGREEMENT or adjustment of the fee for the remaining services may be requested by either party if the overall delay from the unforeseen causes prevents completion of the work within six months after the specified completion date. Examples of unforeseen causes include but are not limited to: acts of God or a public enemy; act of the LPA, DEPARTMENT, or other approving party not resulting from the ENGINEER's unacceptable services; fire; strikes; and floods.

   If delays occur due to any cause preventing compliance with the PROJECT SCHEDULE, the ENGINEER shall apply in writing to the LPA for an extension of time. If approved, the PROJECT SCHEDULE shall be revised accordingly.

10. This certification is required by the Drug Free Workplace Act (30 ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the DEPARTMENT unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to suspension of contract on grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the DEPARTMENT for at least one (1) year but not more than (5) years.

    For the purpose of this certification, "grantee" or "Contractor" means a corporation, partnership or an entity with twenty-five (25) or more employees at the time of issuing the grant or a department, division or other unit thereof, directly responsible for the specific performance under contract or grant of $5,000 or more from the DEPARTMENT, as defined the Act.

    The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

    (a) Publishing a statement:

        (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.

        (2) Specifying actions that will be taken against employees for violations of such prohibition.

        (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
            (a) abide by the terms of the statement; and
            (b) notify the employer of any criminal drug statue conviction for a violation occurring int he workplace no later than (5) days after such conviction.

    (b) Establishing a drug free awareness program to inform employees about:

        (1) The dangers of drug abuse in the workplace;
        (2) The grantee's or contractor's policy of maintain a drug free workplace;

(3) Any available drug counseling, rehabilitation and employee assistance program; and
(4) The penalties that may be imposed upon an employee for drug violations.

(c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.

(d) Notifying the contracting, or granting agency within ten (10) days after receiving notice under part (b) of paragraph (3) of subsection (a) above from an employee or otherwise, receiving actual notice of such conviction.

(e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.

Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act, the ENGINEER, LPA and the Department agree to meet the PROJECT SCHEDULE outlined in EXHIBIT B. Time is of the essence on this project and the ENGINEER's ability to meet the PROJECT SCHEDULE will be a factor in the LPA selecting the ENGINEER for future project. The ENGINEER will submit progress reports with each invoice showing work that was completed during the last reporting period and work they expect to accomplish during the following period.

11. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).

12. For Preliminary Engineering Contracts:

(a) That tracing, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA or to the DEPARTMENT, without restriction or limitation as to their use. Any re-use of these documents without the ENGINEER involvement shall be at the LPA's sole risk and will not impose liability upon the ENGINEER.

(b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.

AGREEMENT SUMMARY

Prime Consultant (Firm) Name	TIN/FEIN/SS Number	Agreement Amount

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
	Subconsultant Total	
	Prime Consultant Total	
	Total for all work	

AGREEMENT SIGNATURES

Executed by the LPA:

The Local Public Agency Type of Local Public Agency

Attest:

By (Signature & Date)

By (Signature & Date)

Name of Local Public Agency Local Public Agency Type Clerk

Title

(SEAL)

Executed by the ENGINEER:

Attest: Prime Consultant (Firm) Name

By (Signature & Date)

By (Signature & Date)

Title

Title

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number

To perform or be responsible for the performance of the engineering services for the LPA, in connection with the PROJECT herein before described and enumerated below

EXHIBIT A
SCOPE OF SERVICES

FOR FEDERAL PARTICIPATION PROJECTS

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number

EXHIBIT B
PROJECT SCHEDULE

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number

Exhibit C
Qualification Based Selection (QBS) Checklist

The LPA must complete Exhibit D. If the value meets or will exceed the threshold in 50 ILCS 510, QBS requirements must be followed. Under the threshold, QBS requirements do not apply. The threshold is adjusted annually. If the value is under the threshold with federal funds being used, federal small purchase guidelines must be followed.

☐ Form Not Applicable (engineering services less than the threshold)

Items 1-13 are required when using federal funds and QBS process is applicable. Items 14-16 are required when using State funds and the QBS process is applicable.

		No	Yes
1	Do the written QBS policies and procedures discuss the initial administration (procurement, management and administration) concerning engineering and design related consultant services?	☐	☐
2	Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06 (e) of the BLRS Manual?	☐	☐
3	Was the scope of services for this project clearly defined?	☐	☐
4	Was public notice given for this project?	☐	☐
5	Do the written QBS policies and procedures cover conflicts of interest?	☐	☐
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	☐	☐
7	Do the written QBS policies and procedures discuss the methods of evaluation?	☐	☐

Project Criteria	Weighting

8	Do the written QBS policies and procedures discuss the method of selection?	☐	☐

Selection committee (titles) for this project

Top three consultants ranked for this project in order	
1	
2	
3	

9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	☐	☐
10	Were negotiations for this project performed in accordance with federal requirements.	☐	☐
11	Were acceptable costs for this project verified?	☐	☐
12	Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval?	☐	☐
13	Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)?	☐	☐
14	QBS according to State requirements used?	☐	☐
15	Existing relationship used in lieu of QBS process?	☐	☐
16	LPA is a home rule community (Exempt from QBS).	☐	☐

Instructions for BLR 05530 - Page 1 of 3

Form instructions are not to be submitted with the form

This form shall be used for a Local Public Agency (LPA) to enter into an agreement with an Engineering firm in connection with a project funded with Federal, State, and/or Motor Fuel Tax (MFT) funds. Based on the selection of type of engineering agreement and funding type, the form will change. For more information refer to the Bureau of Local Roads and Streets Manual (BLRS) Chapter 5. For signature requirements refer to Chapter 2, Section 3.05(b) of the BLRS manual.

This form can also be used for structure inspections.

When filing out this form electronically, once a field is initially completed, fields requiring the same information will be auto-populated.

Using Federal Funds?	The user must select yes or no. Based on the selection, a drop-down menu will appear. The language of the form changes based on the selection. Selecting yes indicates federal funds will be used to fund all or a portion of the engineering for this phase of this project. Selecting no indicates no federal funds will be used to fund any engineering for this phase of the project.
Agreement For	If yes was selected for using Federal Funds, select Federal PE or Federal CE from the drop-down. If no was selected for using Federal Funds, select MFT PE, MFT CE, or MFT PE-CE.
Agreement Type	From the drop down, select the type of agreement, types to choose from are: Original or Supplemental
Number	If the agreement is for a supplemental, insert the number of the supplemental using number 1 for the first supplemental, and increase the numbering as the supplementals increase.

Local Public Agency

Local Public Agency	Insert the name of the LPA. This field value is used to populate the LPA name in the Agreement Signatures and the Exhibit pages.
County	Insert the name of the county in which the LPA is located.
Section Number	Insert the section number applied to this project without dashes, dashes are automatically inserted.
Job Number	Insert the job number assigned for the project, if applicable.
Project Number	Insert the project number assigned for this project, if applicable.
Contact Name	Insert the name of the LPA contact for this project.
Phone Number	Insert the phone for the LPA contact listed to the left without dashes.
Email	Insert the email for the LPA contact listed to the left.

Section Provisions

Location	Use the add location button to add additional locations, if needed, for up to a total of five locations. If there are more than five locations, use various.
Local Street/Road Name	Insert the local street/road name.
Key Route	Insert the key route of the street/road listed to the left, if applicable.
Length	Insert the length in miles as it pertains to the location listed to the left. For a structure insert 0.01.
Structure Number	Insert the existing structure number(s) for this project.
Location Termini	Insert the beginning and ending termini as it pertains to this location for this project.
Add Location	Use this button to add additional location.
Remove Location	Use this button to remove a location added in error. Please note that at least one location is required.
Project Description	Insert a description of the work to be accomplished by this project.
Engineering Funding	Check all boxes that apply, if type other is checked, insert the type of other funding in the box following "other." The form will change based on the box(es) checked.
Anticipated Construction Funding	Check all boxes that apply, if type other is checked, insert the type of other funding in the box following "other."

Agreement For	Select the check box for the type of engineering the agreement is for. Phase I for Preliminary Engineering, Phase II for Design Engineering, Phase III for Construction Engineering. When Federal Funds are used, Phase I and Phase II can be selected when the agreement is for Federal PE. When Federal CE is selected, only Phase III can be selected. For MFT, the Phases can be selected based on the original selection at the top of the form for the agreement type.
Consultant	
Primary Consultant (Firm) Name	Insert the name of the primary consultant firm that will be executing this agreement. This field value is used to populate the consultant name in the Agreement Summary, Agreement Signatures and the Exhibit pages.
Contact Name	Insert the name of the contact for the firm listed to the left.
Phone Number	Insert the phone number for the contact listed to the left, without dashes.
Email	Insert the email of the contact listed to the left.
Address	Insert the address of the firm listed to the left.
City	Insert the city of the firm listed to the left.
State	Insert the state of the firm listed to the left.
Zip Code	Insert the zip code of the firm listed to the left.
Agreement Exhibits	Check all that apply, for boxes checked that do not have a description, insert the name of the exhibit.
Exhibit A	Insert the scope of services covered by this agreement/ project. This exhibit is required.
Exhibit B	Insert the project schedule that applies to this agreement/ project. This exhibit is required.
Exhibit C	Qualification Based Selection (QBS) Checklist process must be followed when the value of engineering will meet and/or exceed the threshold in 50 ILCS 510. If the process does not apply, check the form not applicable checkbox on the top of the exhibit page. If the process applies and using federal funds, complete items 1 through 13. If the process applies and using state funds, complete items 14 through 16.
Exhibit D	Cost Plus Estimate of Consultant Services (CECS) Worksheet (BLR 05513 or BLR 05514). If the method of compensation was checked (under LPA Agrees item 4) as Cost Plus Fixed Fee (Anniversary Raise or Fixed Raise) in the agreement, then this exhibit is required and the correct BLR form: BLR 05514 for Fixed Raise or BLR 05513 for Anniversary Raise.
Exhibit	Use the remaining boxes and lines to add additional exhibits as needed.
LPA Agrees	
Method of Compensation	Select the method of compensation for this agreement by checking the applicable box. If Percent is checked (this is only available when agreement is for MFT funds.), insert in the box the applicable percentage. If Lump Sum is checked, complete the box after lump sum showing the lump sum compensation amount. For agreements funded with federal funds the lump sum shall be determined by using the Cost Plus Fixed Fee formula. If Specific Rate is checked, insert the specific rate in the box. The specific rate cannot exceed $150,000. For a federal project this is limited to testing services only. If Cost Plus Fixed Fee is checked, select the type of raise the agreement will use: Anniversary or Fixed. If this method is selected, BLR 05513 or BLR 05514 must be included in the exhibits.

Agreement Summary

Prime Consultant (Firm) Name	Field populated from the Prime Consultant (Firm) Name entered on the first pages of the agreement.
TIN/FEIN/SS	Insert the Prime Consultant's Taxpayer Identification Number (TIN), Federal Employer Identification Number (FEIN) or Social Security Number (SS).
Agreement Amount	Insert the maximum agreement amount.
Subconsultant(s)	As applicable, insert the name of each subconsultant engaged in this agreement/ project. Subconsultants are defined as any firm that is required to complete a Cost Estimate of Consultant Services (CECS) Worksheet.
TIN/FEIN/SS	Insert the Subconsultant's Taxpayer Identification Number (TIN), Federal Employer Identification Number (FEIN) or Social Security Number (SS).
Agreement Amount	Insert the maximum agreement amount for the subconsultant listed to the left.
Add Subconsultant	If additional lines are needed for additional subconsultants, insert lines as needed and complete the required information.
Subconsultant Total	This field is automatically completed, it is the sum of all the agreement amounts for all subconsultants listed.
Prime Total	This field is automatically completed, it is the amount of the prime consultant fee as listed above.
Total for All	This field is automatically completed, it is the sum of the subconsultant and the prime total.

Agreement Signatures

Executed by LPA

Local Public Agency Type	From the drop down, select the type of LPA. Types to choose from are: City, County, Town, or Village.
Local Public Agency	Field populated from the Local Public Agency entered on the first pages of the agreement.
By	The LPA clerk will sign here.
By	The LPA official authorized to sign this agreement will sign and date here.
Seal of LPA	The LPA will seal the document here.
Title	Insert the title of the LPA official who signed above.

Executed by the Engineer

Prime Consultant (Firm) Name	Field populated from the Prime Consultant (Firm) Name entered on first pages of the agreement.
By	The person(s) authorized to sign this agreement from the engineering firm will sign and date here.
Title	Insert the title of the person signing above.

For Agreement using MFT or State Funds only:

Regional Engineer	Upon approval the Regional Engineer will sign and date here.

A minimum of four (4) signed originals must be submitted to the Regional Engineer's District office.

Following approval, distribution will be as follows:

Central Office (only for Projects using State and/or Federal Funds)

District

Engineer (Municipal, Consultant or County)

Local Public Agency Clerk

APPENDIX 5: COST ESTIMATE FOR CONSULTANT SERVICES (CECS) FORM (EXHIBIT D OF IDOT ENGINEERING SERVICES AGREEMENT)

Provided for reference. Do not complete at this time. CECS will need to be completed by selected consultant.

Illinois Department of Transportation

EXHIBIT D

COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number

Prime Consultant (Firm) Name	Prepared By	Date

Consultant / Subconsultant Name	Job Number

Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM		MONTHS	OVERHEAD RATE	
START DATE			COMPLEXITY FACTOR	
RAISE DATE			% OF RAISE	2.00%
END DATE				

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract

The total escalation = 0.00%

Local Public Agency	County	Section Number

Consultant / Subconsultant Name	Job Number

PAYROLL RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	0.00%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE

Local Public Agency	County	Section Number

Consultant / Subconsultant Name	Job Number

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
Total	**0.00**	**0.00**

NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Local Public Agency	County	Section Number

Consultant / Subconsultant Name	Job Number

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project.

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			$0.00
Vehicle Owned or Leased	$32.50/half day (4 hours or less) or $65/full day			$0.00
Vehicle Rental	Actual Cost (Up to $55/day)			$0.00
Tolls	Actual Cost			$0.00
Parking	Actual Cost			$0.00
Overtime	Premium portion (Submit supporting documentation)			$0.00
Shift Differential	Actual Cost (Based on firm's policy)			$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			$0.00
Project Specific Insurance	Actual Cost			$0.00
Monuments (Permanent)	Actual Cost			$0.00
Photo Processing	Actual Cost			$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			$0.00
CADD	Actual Cost (Max $15/hour)			$0.00
Web Site	Actual Cost (Submit supporting documentation)			$0.00
Advertisements	Actual Cost (Submit supporting documentation)			$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			$0.00
Recording Fees	Actual Cost			$0.00
Transcriptions (specific to project)	Actual Cost			$0.00
Courthouse Fees	Actual Cost			$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Testing of Soil Samples	Actual Cost			$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
				$0.00
				$0.00
				$0.00
				$0.00
			TOTAL DIRECT COSTS:	**$0.00**

Local Public Agency

County

Section Number

Consultant / Subconsultant Name

Job Number

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 0.00%

COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
			-	-	-		-	
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Subconsultant DL							$0.00	
Direct Costs Total ===>	$0.00						**$0.00**	
TOTALS		0	-	-	-	-	-	0.00%

0

Local Public Agency

County

Section Number

Consultant / Subconsultant Name

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES																	
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
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TOTALS		0.0	0%	$0.00	0.0	0.00%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00

Local Public Agency

County

Section Number

Consultant / Subconsultant Name

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES																		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
TOTALS		0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00

Local Public Agency

County

Section Number

Consultant / Subconsultant Name

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 3 **OF** 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES																		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
TOTALS		0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00

Local Public Agency

County

Section Number

Consultant / Subconsultant Name

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
TOTALS		0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00

Local Public Agency

County

Section Number

Consultant / Subconsultant Name

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES																	
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
TOTALS		0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00

Instructions for BLR 05514

Form instructions are not to be submitted with the form

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

This form shall be used as and exhibit with BLR 05530, Local Public Agency Engineering Services Agreement, when Cost Plus Fixed is selected as the method of compensation with the raise date selected by the user. For more information, refer to the Bureau of Local Roads and Streets Manual (BLRS) Chapter 5.

Fields completed on one tab that are required on other tabs are automatically populated based on the entry on the first tab.

ESCALATION TAB

Local Public Agency	Insert the name of the Local Public Agency (LPA).
County	Insert the county name in which the LPA is located.
Section Number	Insert the section number associated with this project.
Prime Consultant (Firm) Name	Insert the name of the prime consultant for this agreement.
Prepared By	Insert the name of the person who prepared this document.
Date	Insert the date the document was prepared.
Consultant / Subconsultant Name	Insert the name of the consultant or subconsultant exhibit is for. This is the name that will be displayed at the top of all the other sheets.
Job Number	Insert the job number(s) for associated with this project.
Remarks	Insert remarks and/or comments associated with this project or associated
Payroll Escalation Table	
Contract Term	Insert the contract term in months.
Overhead Rate	Insert the IDOT approved overhead rate in place at the time of this agreement.
Start Date	Insert the start date of this agreement.
Complexity Factor	Insert the complexity factor assigned to this project. A complexity factor is assigned to the project, not to the LPA.
Raise Date	Insert the initial raise date.
% of Raise	No entry necessary,this is set at two percent.
End Date	No entry necessary, this field is automatically calculated based on the start date and contract term.
Escalation Per Year	No entry necessary, all fields are automatically calculated based on contract term, start date, and raise date.

RATES TAB

Local Public Agency	This field is automatically completed based on entries on the Escalation Tab.
County	This field is automatically completed based on entries on the Escalation Tab.
Section Number	This field is automatically completed based on entries on the Escalation Tab.
Consultant / Subconsultant Name	This field is automatically completed based on entries on the Escalation Tab.
Job Number	This field is automatically completed based on entries on the Escalation Tab.
Maximum Payroll Rate	This is the maximum payroll rate allowable on this agreement.
Escalation Factor	This field is automatically completed based on entries on the Escalation Tab.
Classification	List each payroll classification who will work on this project, on a separate line.
IDOT Payroll Rates on File	Enter the IDOT approved rate for the classification listed to the left.
Calculated Rate	No entry necessary, this field is automatically completed based on the approved rate times the escalation factor.

SUBS TAB

Local Public Agency	This field is automatically completed based on entries on the Escalation Tab.
County	This field is automatically completed based on entries on the Escalation Tab.
Section Number	This field is automatically completed based on entries on the Escalation Tab.
Consultant / Subconsultant Name	This field is automatically completed based on entries on the Escalation Tab.
Job Number	This field is automatically completed based on entries on the Escalation Tab.
Name	List subconsultants that will be used on this project, using a separate line

Form instructions are not to be submitted with the form
for each.

Direct Labor Total	Insert the direct labor for the consultant listed to the left.
Contribution to Prime Consultant	No entry necessary, this field is automatically completed. It is the Direct Labor Total times 10%.

DIRECT COSTS TAB

Local Public Agency	This field is automatically completed based on entries on the Escalation Tab.
County	This field is automatically completed based on entries on the Escalation Tab.
Section Number	This field is automatically completed based on entries on the Escalation Tab.
Consultant / Subconsultant Name	This field is automatically completed based on entries on the Escalation Tab.
Job Number	This field is automatically completed based on entries on the Escalation Tab.
Item & Allowable	List ALL direct costs required for this project. Those not listed on the form will NOT be eligible for reimbursement by the LPA on this project.
Quanity & Contract Rate	Enter Quantity AND Contract Rate. Total is automatically calculated.

COST EST TAB

Local Public Agency	This field is automatically completed based on entries on the Escalation Tab.
County	This field is automatically completed based on entries on the Escalation Tab.
Section Number	This field is automatically completed based on entries on the Escalation Tab.
Consultant / Subconsultant Name	This field is automatically completed based on entries on the Escalation Tab.
Job Number	This field is automatically completed based on entries on the Escalation Tab.
Overhead Rate	This field is automatically completed based on entries on the Escalation Tab.
Complexity Factor	This field is automatically completed based on entries on the Escalation Tab.
Task	Insert the tasks required for this project, use a separate line for each task.
Staff hours	No entry necessary, this is automatically completed based on entries under the AVG tabs for each task. It will be the total hours for all payroll classifications for the task listed to the left.
Payroll	No entry necessary, this is automatically completed based on entries under the AVG tabs for each task. It will be the total payroll for the task listed to the left.
Overhead & Fringe Benefits	No entry necessary, this is automatically completed based on payroll listed to the left times the overhead rate.
Direct Costs	Insert the amount of direct costs for the task listed to the left.
Fixed Fee	No entry necessary, this is automatically completed based the lessor of minimum of the payroll plus the overhead and fringe benefits times fifteen percent, or 0.33 plus the complexity factor times .
Services by Others	Insert the amount of services by others for the task listed to the left.
Total	No entry necessary, this is the total of the payroll, overhead & fringe benefits, direct costs, fixed fee and services by others.
% of Grand Total	No entry necessary, this is the % of the grand total for the task listed to the left.
Subconsultant DL	This field is automatically completed based on the information completed on the SUB tab.
Totals	Totals fields are automatically completed based on the entries in the column above.

AVG 1 - AVG 5 TABs

Local Public Agency	This field is automatically completed based on entries on the Escalation Tab.
County	This field is automatically completed based on entries on the Escalation Tab.
Section Number	This field is automatically completed based on entries on the Escalation Tab.
Consultant / Subconsultant Name	This field is automatically completed based on entries on the Escalation Tab.
Job Number	This field is automatically completed based on entries on the Escalation Tab.
Payroll Classification	This field is automatically completed based on entries on the Rates Tab.
Avg Hourly Rates	This field is automatically completed based on entries on the Rates Tab for the classification listed to the left, no payroll classification listed to the left.
Total Project Rates:	
Hours	This is the total hours based on entries under each task for the payroll

Instructions for BLR 05514

Form instructions are not to be submitted with the form

	entry is necessary.
% Part.	No entry is necessary, this is the percent of participation for the payroll classification listed to the left, of the total project.
Wgtd Avg	No entry is necessary, this is the weighted average for the payroll classification listed to the left.
Task	Each task will automatically be completed based on task entries on the COST EST tab.
Hours	Enter the number of hours the payroll classification listed to the left will perform for the task listed above.
% Part.	No entry necessary, this is the percent of participation for the payroll classification listed to the left for the task listed above.
Wgtd Avg	No entry necessary, this is the weighted average for the payroll classification listed to the left for the task above.
Totals	No entry necessary, this is the sum of the column above.