ADAMS COUNTY PROFESSIONAL SERVICE AGREEMENT FOR E. 88TH AVE OVER LOCAL DRAINAGE ENGINEERING DESIGN CONSULTING SERVICES

THIS AGREEMENT ("Agreement") is made this 22 day of 2018, by and between the Adams County Board of County Commissioners, located at 4430 South Adams County Parkway, Brighton, Colorado 80601, hereinafter referred to as the "County," and Alfred Benesch & Company, located at 7979 E. Tufts Ave, Suite 800, Denver, CO 80237 hereinafter referred to as the "Contractor." The County and the Contractor may be collectively referred to herein as the "Parties."

The County and the Contractor, for the consideration herein set forth, agree as follows:

1. SERVICES OF THE CONTRACTOR:

- 1.1. All work shall be in accordance with the attached RFP 2018.634 and the Contractor's response to the RFP 2018.634 / E. 88TH Ave Over Local Drainage Engineering Services attached hereto as Exhibit A, and incorporated herein by reference. Should there be any discrepancy between Exhibit A and this Agreement the terms and conditions of this Agreement shall prevail.
- 1.2. Emergency Services: In the event the Adams County Board of County Commissioners declares an emergency, the County may request additional services (of the type described in this Agreement or otherwise within the expertise of the Contractor) to be performed by the Contractor. If the County requests such additional services, the Contractor shall provide such services in a timely fashion given the nature of the emergency, pursuant to the terms of this Agreement. Unless otherwise agreed to in writing by the parties, the Contractor shall bill for such services at the rates provided for in this Agreement.
- 2. <u>RESPONSIBILITIES OF THE COUNTY:</u> The County shall provide information as necessary or requested by the Contractor to enable the Contractor's performance under this Agreement.

3. **TERM**:

- 3.1. <u>Term of Agreement:</u> The Term of this Agreement shall be through and including March 31, 2019.
- 4. <u>PAYMENT AND FEE SCHEDULE:</u> The County shall pay the Contractor for services furnished under this Agreement, and the Contractor shall accept as full payment for those services, the NOT TO EXCEED sum of: Ninety-nine Thousand Eight Hundred Sixty Dollars (\$99,860.00).
 - 4.1. Payment pursuant to this Agreement, whether in full or in part, is subject to and contingent upon the continuing availability of County funds for the purposes hereof. In the event that funds become unavailable, as determined by the County, the County may immediately terminate this Agreement or amend it accordingly.

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5. INDEPENDENT CONTRACTOR: In providing services under this Agreement, the Contractor acts as an independent contractor and not as an employed of the County. The Contractor shall be solely and entirely responsible for his/her acts and the acts of his/her employees, agents, servants, and subcontractors during the term and performance of this Agreement. No employee, agent, servant, or subcontractor of the Contractor shall be deemed to be an employee, agent, or servant of the County because of the performance of any services or work under this Agreement. The Contractor, at its expense, shall procure and maintain workers' compensation insurance as required by law. Pursuant to the Workers' Compensation Act § 8-40-202(2)(b)(IV), C.R.S., as amended, the Contractor understands that it and its employees and servants are not entitled to workers' compensation benefits from the County. The Contractor further understands that it is solely obligated for the payment of federal and state income tax on any moneys earned pursuant to this Agreement.

6. NONDISCRIMINATION:

- 6.1. The Contractor shall not discriminate against any employee or qualified applicant for employment because of age, race, color, religion, marital status, disability, sex, or national origin. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices provided by the local public agency setting forth the provisions of this nondiscrimination clause. Adams County is an equal opportunity employer.
 - 6.1.1. The Contractor will cause the foregoing provisions to be inserted in all subcontracts for any work covered by this Agreement so that such provisions will be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.
- 7. INDEMNIFICATION: The Contractor agrees to indemnify and hold harmless the County, its officers, agents, and employees for, from, and against any and all claims, suits, expenses, damages, or other liabilities, including reasonable attorney fees and court costs, arising out of damage or injury to persons, entities, or property, caused or sustained by any person(s) as a result of the Contractor's performance or failure to perform pursuant to the terms of this Agreement or as a result of any subcontractors' performance or failure to perform pursuant to the terms of this Agreement.
- 8. <u>INSURANCE:</u> The Contractor agrees to maintain insurance of the following types and amounts:
 - 8.1. <u>Commercial General Liability Insurance:</u> to include products liability, completed operations, contractual, broad form property damage and personal injury.

8.1.1. Each Occurrence:

\$1,000,000

8.1.2. General Aggregate:

\$2,000,000

8.2. <u>Comprehensive Automobile Liability Insurance:</u> to include all motor vehicles owned, hired, leased, or borrowed.

8.2.1. Bodily Injury/Property Damage: \$1,000,000

\$1,000,000 (each accident)

8.2.2. Personal Injury Protection:

Per Colorado Statutes

8.3. Workers' Compensation Insurance:

Per Colorado Statutes

8.4. <u>Professional Liability Insurance</u>: to include coverage for damages or claims for damages arising out of the rendering, or failure to render, any professional services, as applicable.

8.4.1. Each Occurrence:

\$1,000,000

- 8.4.2. This insurance requirement applies only to the Contractors who are performing services under this Agreement as professionals licensed under the laws of the State of Colorado, such as physicians, lawyers, engineers, nurses, mental health providers, and any other licensed professionals.
- 8.5. Adams County as "Additional Insured": The Contractor's commercial general liability, and comprehensive automobile liability, insurance policies and/or certificates of insurance shall be issued to include Adams County as an "additional insured" and shall include the following provisions:
 - 8.5.1. Underwriters shall have no right of recovery or subrogation against the County, it being the intent of the parties that the insurance policies so affected shall protect both parties and be primary coverage for any and all losses resulting from the actions or negligence of the Contractor.
 - 8.5.2. The insurance companies issuing the policy or policies shall have no recourse against the County for payment of any premiums due or for any assessments under any form of any policy.
 - 8.5.3. Any and all deductibles contained in any insurance policy shall be assumed by and at the sole risk of the Contractor.
- 8.6. <u>Licensed Insurers:</u> All insurers of the Contractor must be licensed or approved to do business in the State of Colorado. Upon failure of the Contractor to furnish, deliver and/or maintain such insurance as provided herein, this Agreement, at the election of the County, may be immediately declared suspended, discontinued, or terminated. Failure of the Contractor in obtaining and/or maintaining any required insurance shall not relieve the Contractor from any liability under this Agreement, nor shall the insurance requirements be construed to conflict with the obligations of the Contractor concerning indemnification.

- 8.7. Endorsement: Each insurance policy herein required shall be endorsed to state that coverage shall not be suspended, voided, or canceled without thirty (30) days prior written notice by certified mail, return receipt requested, to the County.
- 8.8. <u>Proof of Insurance:</u> At any time during the term of this Agreement, the County may require the Contractor to provide proof of the insurance coverage or policies required under this Agreement.

9. DAMAGES ARISING FROM BREACH OF PERFORMANCE OBLIGATIONS

9.1. Notwithstanding anything else set forth in this Agreement, if Contractor fails to comply with all terms of this contract, including but not limited to, its obligation to perform its work in a workmanlike manner in accordance with all codes, plans, specifications and industry standards, Contractor shall be liable to County for all damages arising from the breach, including but not limited to, all attorney fees, costs and other damages.

10. WARRANTY:

10.1. The Contractor warrants and guarantees to the County that all work, equipment, and materials furnished under the Agreement are free from defects in workmanship and materials for a period of one year after final acceptance by the County. The Contractor further warrants and guarantees that the plans and specifications incorporated herein are free of fault and defect sufficient for Contractor to warrant the finished product after completion date. Should the Contractor fail to proceed promptly in accordance with this guarantee, the County may have such work performed at the expense of the Contractor. This section does not relieve the Contractor from liability for defects that become known after one year.

11. TERMINATION:

- 11.1. For Cause: If, through any cause, the Contractor fails to fulfill its obligations under this Agreement in a timely and proper manner, or if the Contractor violates any of the covenants, conditions, or stipulations of this Agreement, the County shall thereupon have the right to immediately terminate this Agreement, upon giving written notice to the Contractor of such termination and specifying the effective date thereof.
- 11.2. For Convenience: The County may terminate this Agreement at any time by giving written notice as specified herein to the other party, which notice shall be given at least thirty (30) days prior to the effective date of the termination. If this Agreement is terminated by the County, the Contractor will be paid an amount that bears the same ratio to the total compensation as the services actually performed bear to the total services the Contractor was to perform under this Agreement, less payments previously made to the Contractor under this Agreement.

12. MUTUAL UNDERSTANDINGS:

- 12.1. <u>Jurisdiction and Venue</u>: The laws of the State of Colorado shall govern as to the interpretation, validity, and effect of this Agreement. The parties agree that jurisdiction and venue for any disputes arising under this Agreement shall be with Adams County, Colorado.
- 12.2. Compliance with Laws: During the performance of this Agreement, the Contractor agrees to strictly adhere to all applicable federal, state, and local laws, rules and regulations, including all licensing and permit requirements. The parties hereto aver that they are familiar with § 18-8-301, et seq., C.R.S. (Bribery and Corrupt Influences), as amended, and § 18-8-401, et seq., C.R.S. (Abuse of Public Office), as amended, , the Clean Air Act (42 U.S.C. 7401-7671q), and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended, and that no violation of such provisions are present. The Contractor warrants that it is in compliance with the residency requirements in §§ 8-17.5-101, et seq., C.R.S. Without limiting the generality of the foregoing, the Contractor expressly agrees to comply with the privacy and security requirements of the Health Insurance Portability and Accountability Act of 1996 (HIPAA).
- 12.3. OSHA: The Contractor shall comply with the requirements of the Occupational Safety and Health Act (OSHA) and shall review and comply with the County's safety regulations while on any County property. Failure to comply with any applicable federal, state or local law, rule, or regulation shall give the County the right to terminate this agreement for cause.
- 12.4. <u>Record Retention:</u> The Contractor shall maintain records and documentation of the services provided under this Agreement, including fiscal records, and shall retain the records for a period of three (3) years from the date this Agreement is terminated. Said records and documents shall be subject at all reasonable times to inspection, review, or audit by authorized Federal, State, or County personnel.
- 12.5. <u>Assignability:</u> Neither this Agreement, nor any rights hereunder, in whole or in part, shall be assignable or otherwise transferable by the Contractor without the prior written consent of the County.
- 12.6. <u>Waiver:</u> Waiver of strict performance or the breach of any provision of this Agreement shall not be deemed a waiver, nor shall it prejudice the waiving party's right to require strict performance of the same provision, or any other provision in the future, unless such waiver has rendered future performance commercially impossible.
- 12.7. <u>Force Majeure:</u> Neither party shall be liable for any delay or failure to perform its obligations hereunder to the extent that such delay or failure is caused by a force or event beyond the control of such party including, without limitation, war, embargoes, strikes, governmental restrictions, riots, fires, floods, earthquakes, or other acts of God.

- 12.8. <u>Notice:</u> Any notices given under this Agreement are deemed to have been received and to be effective:
 - 1) Three (3) days after the same shall have been mailed by certified mail, return receipt requested;
 - 2) Immediately upon hand delivery; or
 - 3) Immediately upon receipt of confirmation that an E-mail was received. For the purposes of this Agreement, any and all notices shall be addressed to the contacts listed below:

Department: Adams County Public Works

Contact: Mark McDonald

Address: 4430 S. Adams County Parkway

City, State, Zip: Brighton, CO 80601

Phone: 720.523.6809

E-mail: mmcdonald@adcogov.org

Department: Adams County Purchasing Contact: Shannon E. Sprague, CPPB

Address: 4430 South Adams County Parkway City, State, Zip: Brighton, Colorado 80601

Phone: 720.523.6052

E-mail: ssprague@adcogov.org

Department: Adams County Attorney's Office Address: 4430 South Adams County Parkway City, State, Zip: Brighton, Colorado 80601

Phone: 720.523.6116

Contractor: Alfred Benesch & Company

Contact: Daniel J. Bechtold, PE

Address: 7979 E. Tufts Ave, Suite 800 City, State, Zip: Denver, CO 80237

Phone: 303.771.6868

E-mail: dbechtold@bensch.com

- 12.9. <u>Integration of Understanding:</u> This Agreement contains the entire understanding of the parties hereto and neither it, nor the rights and obligations hereunder, may be changed, modified, or waived except by an instrument in writing that is signed by the parties hereto.
- 12.10. <u>Severability:</u> If any provision of this Agreement is determined to be unenforceable or invalid for any reason, the remainder of this Agreement shall remain in effect, unless otherwise terminated in accordance with the terms contained herein.
- 12.11. <u>Authorization:</u> Each party represents and warrants that it has the power and ability to enter into this Agreement, to grant the rights granted herein, and to perform the duties and obligations herein described.

12.12. Confidentiality: All documentation related to this Agreement will become the property of Adams County. All documentation maintained or kept by Adams County shall be subject to the Colorado Open Records Act, C.R.S. 24-72-201 et seq. ("CORA"). The County does not guarantee the confidentiality of any records.

13. AMENDMENTS, CHANGE ORDERS OR EXTENSIONS:

- 13.1. Amendments or Change Orders: The County may, from time to time, require changes in the scope of the services of the Contractor to be performed herein including, but not limited to, additional instructions, additional work, and the omission of work previously ordered. The Contractor shall be compensated for all authorized changes in services, pursuant to the applicable provision in the Solicitation, or, if no provision exists, pursuant to the terms of the Amendment or Change Order.
- 13.2. <u>Extensions:</u> The County may, upon mutual written agreement by the parties, extend the time of completion of services to be performed by the Contractor.
- 14. COMPLIANCE WITH C.R.S. § 8-17.5-101, ET. SEQ. AS AMENDED 5/13/08: Pursuant to Colorado Revised Statute (C.R.S.), § 8-17.5-101, et. seq., as amended May 13, 2008, the Contractor shall meet the following requirements prior to signing this Agreement (public contract for service) and for the duration thereof:
 - 14.1. The Contractor shall certify participation in the E-Verify Program (the electronic employment verification program that is authorized in 8 U.S.C. § 1324a and jointly administered by the United States Department of Homeland Security and the Social Security Administration, or its successor program) or the Department Program (the employment verification program established by the Colorado Department of Labor and Employment pursuant to C.R.S. § 8-17.5-102(5)) on the attached certification.
 - 14.2. The Contractor shall not knowingly employ or contract with an illegal alien to perform work under this public contract for services.
 - 14.3. The Contractor shall not enter into a contract with a subcontractor that fails to certify to the Contractor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this public contract for services.
 - 14.4. At the time of signing this public contract for services, the Contractor has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this public contract for services through participation in either the E-Verify Program or the Department Program.
 - 14.5. The Contractor shall not use either the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while this public contract for services is being performed.

- 14.6. If the Contractor obtains actual knowledge that a subcontractor performing work under this public contract for services knowingly employs or contracts with an illegal alien, the Contractor shall: notify the subcontractor and the County within three (3) days that the Contractor has actual knowledge that the subcontractor is employing or contracting with an illegal alien; and terminate the subcontract with the subcontractor if within three days of receiving the notice required pursuant to the previous paragraph, the subcontractor does not stop employing or contracting with the illegal alien; except that the Contractor shall not terminate the contract with the subcontractor if during such three (3) days the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an illegal alien.
- 14.7. Contractor shall comply with any reasonable requests by the Department of Labor and Employment (the Department) made in the course of an investigation that the Department is undertaking pursuant to the authority established in C.R.S. § 8-17.5-102(5).
- 14.8. If Contractor violates this Section, of this Agreement, the County may terminate this Agreement for breach of contract. If the Agreement is so terminated, the Contractor shall be liable for actual and consequential damages to the County.

REMAINDER OF THIS PAGE LEFT BLANK INTENTIONALLY

IN WITNESS WHEREOF, the Parties have caused their names to be affixed hereto: **County Manager** Alfred Benesch & Company Attest: Stan Martin, Clerk and Recorder Approved as to Form: NOTARIZATION OF CONTRACTOR'S SIGNATURE: COUNTY OF DENVER STATE OF COLORADO)SS. Signed and sworn to before me this 16 day of ___ October by WILLIAM H. EPP **DEBORAH A RISCH** NOTARY PUBLIC - STATE OF COLORADO Sebonah A. Risch Notary Identification #20124000487 My Commission Expires 05/23/2020

05 23 2020

My commission expires on: __

CONTRACTOR'S CERTIFICATION OF COMPLIANCE

Pursuant to Colorado Revised Statute, § 8-17.5-101, et.seq., as amended 5/13/08, as a prerequisite to entering into a contract for services with Adams County, Colorado, the undersigned Contractor hereby certifies that at the time of this certification, Contractor does not knowingly employ or contract with an illegal alien who will perform work under the attached contract for services and that the Contractor will participate in the E-Verify Program or Department program, as those terms are defined in C.R.S. § 8-17.5-101, et. seq. in order to confirm the employment eligibility of all employees who are newly hired for employment to perform work under the attached contract for services.

CONTRACTOR:

Alfred	Benesch	500	10	-16-18	
Company Name		Date			

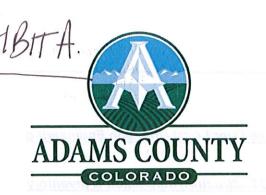
Signature

William H. Epp Name (Print or Type)

Title

Note: Registration for the E-Verify Program can be completed at: https://www.vis-dhs.com\employerregistration.

It is recommended that employers review the sample "memorandum of understanding" available at the website prior to registering



Adams County Finance Department Purchasing Division 4430 South Adams County Parkway Brighton, Colorado 80601

2018.634 - E. 88th Ave Over Local Drainage Engineering Design Services PROPOSAL COVER SHEET

RFP Issue Date: RFP Number: RFP Title:

8/15/2018 RFP-SS-2018.634

E. 88TH AVE OVER LOCAL DRAINAGE ENGINEERING

DESIGN SERVICES

RFP Questions Due: Proposal will be received until: 8/29/2018 400 PM MT 9/6/2018

2:00 PM MT, Our Clock

Emailed to the Contract Specialist Listed Below

For additional information please contact:

Shannon E. Sprague, CPPB, Contract Specialist II

720-523-6052

Email Address: ssprague@adcogov.org

If any of the documents listed above are missing from this package, contact Adams County Purchasing. If you require additional information, call the Purchasing Division contact person.

The undersigned hereby affirms that (1) he/she is a duly authorized agent of the Surveyor, (2) he/she has read all terms and conditions and technical specifications which were made available in conjunction with this solicitation and fully understands and accepts them unless specific variations have been expressly listed in his/her Proposal, (3) the Proposal is being submitted on behalf of the Surveyor in accordance with any terms and conditions set forth in this Solicitation, and (4) the Surveyor will accept any awards made to it as a result of the Proposal submitted herein for a minimum of 120 calendar days following the date of submission.

PRINT OR TYPE YOUR INFORMATION

Name of Surveyor:				Fax:	
Address:		City/State:		Zip:	
Contact Person:	2	Title:		Phone:	· ·
Authorized Represe	ntative's Signature:			Phone:	.d
Printed Name:		Title:	Te under all	Date:	
Email Address:	Stor Joseph Conte	gallar Rafe	0)""	alla aoileach	
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A. Scope of Services:

- Attachment A. Scope of Work: <u>E. 88th Ave Over Local Drainage Engineering</u> <u>Design Services</u>
- 2. Attachment B. Routine Inspection CDOT: Structure Inspection & Inventory Report
- I. Objective:

PROVIDE DESIGN SERVICES FOR REHABILIATION OF STRUCTURE NO. ADA088-27.5N131 / E. 88th AVENUE OVER LOCAL DRAINAGE

a. Adams County is seeking engineering design and construction document preparation services for the rehabilitation of Structure No. ADA088-27.5N131, the existing bridge carrying E. 88th Avenue over a local drainage, located approximately 0.58 mile west of Manilla Road, (6.5 miles west of Highway 79). This project, (including design and construction), will be paid for with Adams County approved funds.

II. Fee:

- ◆ Design engineering work shall be itemized to capture all service hours and hourly fees per firm position service level into logical tasks, and their associated fees. Task descriptions shall be written to clearly define the complete project.
- Provide estimated hours per task.

III. PRICING FORM SAMPLE: 2018.634

1. PROPOSAL ITEMS FOR EVALUATION – PROPOSER MUST SUBMIT AN ITEMIZED PRICING SHEET BY LOGICAL TASK WITH AN OVERALL TOTAL PROJECT AMOUNT.

Pricing Itemized Sheet - Sample

Task	Task Description:	Position	Total Task	Average Cost	Overall Total
No.		Titles	Project Hours	per Hour	Cost of
					Project Task
1.	- QLX		618/63/10	\$	\$
2.				\$	\$
3.	Short		-shiT	\$	\$
4.				\$	\$
5.				\$	\$
6.	Alon			\$	\$
	II Total Design Fee	Amount :			

- 1. Pricing submittal must include all Professional Wage Hourly Rates per Position Title:
 - Position Title

°Regular Rate

Overtime Rate

2. Any and all additional expenses beyond the itemized logistical tasks that may occur shall be submitted as an itemized wage rate sheet for evaluation consideration.

ADAMS COUNTY, COLORADO DESIGN SERVICES FOR REHABILIATION OF STRUCTURE NO. ADA088-27.5N131 E. 88TH AVENUE OVER LOCAL DRAINAGE

Attachment A. - SCOPE OF WORK

Adams County is seeking engineering design and construction document preparation services for the rehabilitation of Structure No. ADA088-27.5N131, the existing bridge carrying E. 88th Avenue over a local drainage, located approximately 0.58 mile west of Manilla Road, (6.5 miles west of Highway 79). This project, (including design and construction), will be paid for with Adams County approved funds.

The existing single-span bridge is approximately 51 feet long by 48 feet wide, with two (2) 12-foot travel lanes and two (2) 12-foot shoulders; superstructure consists of W33x130 painted steel girders with diaphragms supporting a corrugated steel bridge plank and asphalt deck system, and side-mount w-beam bridge railings; substructure consists of H-pile bent abutments with corrugated steel bridge plank backwalls and wingwalls. Due to advanced rust, corrosion, and section loss throughout, the existing deck is in Poor Condition and the superstructure is in Serious Condition, specifically both exterior girders. The bridge received an Essential Repair Finding (ERF) during the latest biennial inspection, and subsequently, the County has closed both bridge shoulders (over both exterior bays) to traffic. The latest bridge inspection report, dated Dec. 11, 2017, is provided with this scope of work for reference.

The County would ideally like to accomplish the following to rehabilitate the bridge:

- Fully replace the deck with an eight 8 inch concrete slab made composite with the steel girders, three 3 inch asphalt overlay on a waterproofing membrane and Type 3 bridge rails. (Actual replacement deck system and details to be determined by structural analysis and evaluation.)
- 2. Fully replace both exterior steel girders.
- 3. Repair, strengthen, or replace individual interior steel girders and diaphragms, or replace all steel girders and framing, as required based on a detailed structure condition evaluation and analysis.
- Clean and repaint all existing exposed structure steel intended to remain, (superstructure and substructure)
- 5. Modify upper abutment backwalls and wingwalls only as needed to coordinate with the superstructure rehabilitation. Otherwise, maintain and reuse the existing substructure unchanged, except for possible minor modifications to structure steel, such as repairs, strengthening, stiffeners, etc., as might be identified during the design phase.
- 6. Define a new longitudinal profile for the roadway, (60 mph design speed), and mill and overlay the existing pavement over a length as needed to tie into the new bridge deck. Full depth pavement replacement shall be limited to only what is needed at each end of the bridge and shall at least match the original pavement thickness.

Adams County, Colorado Design Services for Rehabilitation of Structure No. ADA088-27.5N131 E. 88th Avenue over Local Drainage

- 7. Provide new approach guardrail systems extending from all four (4) corners of the bridge, based on length of need or as otherwise directed by the County.
- 8. Regrade the dry channel under the bridge and possibly add armoring or protection to control future erosion under normal conditions, based on engineering judgment and as directed by the County. (This is not intended to be full scour mitigation.)

The final extent of the rehabilitation project and the exact details for individual subjects will have to be determined and developed based on a combination of engineering analysis, evaluation, cost estimating, and judgment during the design phase. The Consultant will work closely with the County Project Manager to complete all phases of the project and perform all work necessary to efficiently achieve the design and construction documents that best meet the County's needs.

Design work and construction documents shall be in accordance with all pertinent AASHTO, CDOT, County, and MUTCD manuals, specifications, and standards, (current editions), and other documents as directed by the County Project Manager. Construction documents shall be prepared based on standard CDOT formats, except as otherwise directed by the County Project Manager. The project should follow the CDOT FIR, FOR, and Final Construction Documents approach for progress submittals and reviews, except as otherwise directed by the County Project Manager.

Due to budget constraints and the desire to move to construction as soon as possible in 2019, the County requests that the Consultant perform the project on an aggressive schedule to complete as much of the work as possible before the end of the 2018 calendar year. To help expedite the project, the County would be open to a modified approach that would allow the design work for the bridge and roadway to be performed on separate, but parallel schedules, as much as possible between the project kickoff and the FOR submittal. It is already understood the new deck has to fit on the existing structure and the new profile has to adjust to the new deck. Therefore, it would be fine with the County if the evaluation and preliminary design for the bridge could be completed, submitted, and reviewed while the topographic survey work and early roadway design work are still being performed. The preliminary design for the roadway, including proposed alignments, typical section, guardrail layouts, etc., could be submitted and reviewed at a later date while the final design and detailing work for the bridge is underway. The bridge and roadway designs need to coordinate, but maybe not wait on each other in the early and intermediate parts of the project.

Consultant services that are needed for this project include, but are not limited to, the following:

- Civil/Roadway Engineering Horizontal and vertical roadway alignments; typical cross sections; roadway/pavement/miscellaneous details; approach guardrail systems; paving striping; construction traffic control (evaluate full detour versus one-lane alternating with traffic signals); existing utilities, (identify through locates or communications with companies, show locations, and determine and resolve conflicts); channel grading; permanent erosion control; stormwater management plan; roadway design memo; etc.
- Structural/Bridge Engineering Structure condition evaluation; structural analysis; removal of parts of present structure; structural steel girders and framing; reinforced concrete deck; paint structural steel; bridge rails; bridge deck elevations; basic structure selection report; evaluate staged construction; etc.

Adams County, Colorado

Design Services for Rehabilitation of Structure No. ADA088-27.5N131

- E. 88th Avenue over Local Drainage
 - Surveying Administer access permits; topographic site survey (tied to current County datum and State Plane Coordinate System) and base drawing by Civil 3D software; establish project benchmark and control points from Section Corners; right of way research and locating; develop legal descriptions and exhibits for 1 permanent right of way acquisition and up to 3 temporary easements, (CDOT Right of Way Plans are not required); staking of local project control points, right of way, and temporary easements, (during later site trips as needed); etc.
 - Construction Document Preparation Plans prepared with Civil 3D/AutoCAD; project specifications consisting of 200 through 700 series project special provisions and standard special provisions, (100 series special provisions will be the County's responsibility); construction cost estimates (preliminary and final); quantity calculations;

The County assumes the plans will approximately include the following sheets or subjects; (list provided for reference only; some subjects may require more than one sheet):

Title Sheet	Roadway Plan and Profile	Removal Details			
Standard Plans List	Channel Grading	Abutment and Wingwall Details			
General Notes	Stormwater Management Plan	Steel Girder Details			
Typical Sections	Striping Plan	Superstructure Details			
Summary of Approx. Quantities	Construction Traffic Control	Bridge Rail Details			
Tabulations	Bridge General Information	Bridge Deck Elevations			
Details	Bridge General Layout				
Survey Control / Geometric Plan	Construction Layout				

I. Services that are excluded from this scope of work include:

- No hydrologic or hydraulic analysis; no scour analysis or design of scour countermeasures
- No geotechnical investigation
- No environmental studies
- No utility potholing
- No public meetings
- No bid phase or construction support services

II. Project Deliverables include:

- Plans for Construction, PDF version and all AutoCAD DWG and supporting files
- PE stamped and signed Plans for Construction
- Project Specifications, PDF and DOCX versions
- Final Construction Cost Estimate, PDF version
- · Design Reports or Memos, PDF version
- Quantity Calculations, PDF version
- Design Calculations for all subjects, (combined hand calculations and computer outputs), PDF version

Adams County, Colorado Design Services for Rehabilitation of Structure No. ADA088-27.5N131 E. 88th Avenue over Local Drainage

Proposal Submittal Requirements

The County is soliciting proposals from the on-call Structural (Bridge) Engineering Consultant List. Therefore, the Prime Consultant's qualifications have been accepted previously and are not required again. The Consultant's proposal submittal shall include the following:

- 1. Cover Letter Address letter to Shannon E. Sprague, CPPB, Adams County Contract Specialist; express your interest in the project; list any subconsultants for the project and briefly provide their qualifications; certify that the information and data submitted is true and complete to the best knowledge of the individual signing the letter; name, phone number, and email address of the individual to contact regarding the submitted proposal; clearly identify the project name and RFP number in the subject line; the County requires an original signature signed in ink by the authorized principal, partner, or officer of the firm
- 2. Project Approach four (4) pages maximum) State your understanding of and proposed approach to the project; identify and briefly discuss your thoughts about the project's most significant issues; provide any recommendations you may have for how to expedite the design work to both complete as much as possible before the end of 2018 and complete the entire project as soon as possible.
- 3. Project Schedule Provide your proposed design schedule, from NTP through submittal of Final (100%) Construction Documents; assume two (2) weeks from submittal to review meeting for each FIR and FOR review.
- 4. Cost of Services Provide a Total Design Fee and a detailed breakdown of the man hours and costs by tasks, including for any subconsultants; assume attendance at five (5) meetings to be held at the Adams County Government Center, (Kick-Off, separate bridge FIR and roadway FIR, combined FOR, and 1 miscellaneous), and one (1) meeting at the bridge site; show any billable expenses, such as mileage allowance; provide billing rate sheets for prime consultant and any subconsultants.

Page 4 of 4

Highway Number (ON) 5D: 00000 V Mile Post (ON) 11: 0.000 mi

Bridge Key: ADA	388-27.5N131	Inspection Date: 12	2/11/2017 5	Sufficiency Rating: 45.6	SD
NBI Reporting ID:	ADA088-27.5N131	Main Mat/Desgn 43A/B:	3 02	Bridge Cost 94:	\$0
Rgn/Sect 2E/2M:	1:15	Appr Mat/Desgn 44A/B:	0 0	Roadway Cost 95:	\$0
ran Region 2T:	02	Main Spans Unit 45:	1	Total Cost 96:	\$0
ounty Code 3:	001	Approach Spans 46:	0	Year of Cost Estimate 97:	1980
DAMS		Horiz Clr 47:	47.40 ft	Brdr Brdg Code/% 98A/B:	- 2 0
lace Code 4:	00000	Max Span 48:	48.0 ft	Border Bridge Number 99:	
on-city		Str Length 49:	50,7 ft	Defense Highway 100:	0
Rte.(On/Under) 5A:	i 1	Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Parallel Structure 101:	N
igning Prefix 5B:	4	Width Curb to Curb 51:	47.40 ft	Direction of Traffic 102:	2
evel of Service 5C:	1	Width Out to Out 52:	48.0 ft	Temporary Structure 103:	_
	. 0		2434	Highway Systems 104:	0
Direction Suffix 5E:	•	Deck Area: Min Clr Ovr Brdg 53:	99.99	Fed Lands Hiway 105:	0
eature Intersected 6:		_	N	Year Reconstructed 106:	Ü
OCAL DRAINAGE		Min Undrolf Ref 54A:	0.0 ft		.6
acitity Carried 7:		Min Undercir 54B:	0,0 it ∴N	Deck Type 107: Wearing Surface 108A:	6
8TH AVENUE		Min Lat Clrnce Ref R 55A: Min Lat Undrclr R 55B:	.0.0 ft	•	0
ilias Str No.8A:			0.0 ft	Membrane 108B:	0
		Min Lat Undrolr L 56: Deck 58:	4	Deck Protection 108C:	15.00 %
rll Str No. 8P; I/A		Super 59:	. 3	Truck ADT 109:	. 0
		Sub 60:	5	Trk Net 110: Pier Protection 111:	1
ocation 9:	III A DD		8		Y
.5 MI WEST OF MANI	99,99	Channel/Protection 61:	N	NBIS Length 112: Scour Critical 113:	8
Max Clr 10:	0	Culvert 62:	1 LF Load Facto	·	N
BaseHiway Net12:	0000000000	Oprtng Rtg Method 63:	45.7	Scour Watch 113M: Future ADT 114:	1,517
rsinvRout 13A:		Operating Rating 64:	40.1	Year of Future ADT 115:	2033
rssubRout No13B:	00 39d 51' 17.20"	Operating Factor 64:	: Table I conferm	•	SSM
atitude 16:	104d 32' 16.01"	Inv Rtng Method 65:	1 LF Load Facto	**	00
ongitude 17:	4 mi	Inventory Rating 66:	27.4	CDOT Constr Type 120B:	00
Detour Length 19:	13	Inventory Factor 66:		Inspection Indic 122A:	·
Foll Facility 20:	.02	Asph/Fill Thick 66T:	, 8.0 in	Inspection Trip 122AA:	Unknown
Custodian 21:	02	Str. Evaluation 67:	5. 3	Scheduling Status 122B:	_
Owner 22:	02	Deck Geometry 68:	9	Maintenance Patrol 123:	0
Functional Class 26:	1983	Undrcir Vert/Hor 69:	N	Expansion Dev/Type 124:	0
∕ear Built 27: ₌anes On 28A:	2	Posting 70:	5 At/Above Lega	Brdg Rail Type/Mod 125A/B:	XX 0
	1, 2	Waterway Adequacy 71:	8	Posting Trucks 129A/B/C:	0.0 0.0 0
Lanes Under 28B:	i 852	Approach Alignment 72:	i] 8	Str Rating Date 130:	02/04/2008
ADT 29:	2013	Type Of Work 75A:	-2	Special Equip 133:	0.00
Year of ADT 30:		Work Done By 75B:		Vert Clr N/E 134A/B/C:	X -1.00 -1.0
Design Load 31:	5 MS 18 (HS 20) 23.00 ft	Length of Improvment 76:		Vert Clr S/W 135A/B/C:	X -1.00 -1.0
Apr Rdwy Width 32:	0	Insp Team Indicator 90B:		Vertical Clr Date:	01/01/1901
Median 33:	0.0	Inspector Name 90C:	1	: Weight Limit Color 139:	0, White
Skew 34:	0	Frequency 91:	12 months	Str Billing Type:	118
Structure Flared 35:				Userkey 1, Insp System:	OFFSYS
Sfty Rail 36a/b/c/d:		FC Frequency 92A:	*:	•	Central FY EV
Rail ht36h:	·28,0 in	UW Frequency 92B:		Userkey 4, Insp Sched:	ooman i ev
Hist Signif 37:	5	SI Frequency (Pin) 92C:	:	Userkey 5, UW Sched:	i
Posting status 41:	Α	FC Inspection Date 93A:	:	Userkey 6, Pin Sched:	
Service on/un 42A/B:	1 5	UW Inspection Date 93B: SI Date (Pin) 93C:		Userkey 7, 113 Doc Date: Inspection Key:	wusw
				Inconcion Value	

Structure ID: ADA088-27.5N131

LA_SIA

Highway Number (ON) 5D: 00000 V Mile Post (ON) 11: 0.000 mi

Element Inspection Repor	
	ı

Elm/Env	December 2	Unit	Talal Ob.	0/ :- 4	Ob. Ct 1	% in 2	Qty, St. 2	% in 3	Qty, St, 3	% in 4	Qty. St. 4
30/1	Description Steel Deck - Orthotropic	sq.ft	Total Qty 2434	% in 1	Qty, St. 1	14%	342	47%	1142	39%	950
30/1	Steel Deck - Offilotropic		ting and heavy co.			1		1			
			ting and fleavy co. I with girder top fla		-						
			at various location	-							
		•	el edge plate alon	_		•	=				
			of deck, Deflection	_	•		-	_	•		
		•	2/9/2018), Quanti								
510/1	Wearing Surfaces		2434	99%	2404	1%	30	0%	0	0%	0
<u> </u>	Treating Garages		sphalt overlay bety								
			edge of deck wher					ao mg	o ong., marpin,	, w.og	
2220/	1 Crack (Wearing Surface)	sq.ft	30	0%	lo .	100%	30	0%	ō	0%	0
3220/	Torack (vvearing Surface)	sq.n	90	078		10070	30	1070			
		-									
515/1	Steel Protective Coating	sq.ft	2434	0%	0	14%	342	47%	1142	39%	950
	passor recours country		rotective coating a								·
			rotecting coating t								
			County on 2/12/2				•				
			eviewed by an En	•	-				· · · · · · · · · · · · · · · ·		
3440/	1 Eff (Stl Protect Coat)	sq.ft	2434	0%	0	14%	342	47%	1142	39%	950
	- 1 (·				l
		-									
1000/1	Corrosion	sq.ft	2434	0%	0	14%	342	47%	1142	39%	950
			· · · · · · · · · · · · · · · · · · ·				•		•		
		_									
					_		-				
107/1	Steel Opn Girder/Beam	ft	507	0%	0	46%	232	41%	210	13%	65
107/1	Steel Opn Girder/Beam		507 R4 rusting and mo				<u> </u>				65
107/1	Steel Opn Girder/Beam	R3 to I		derate to	neavy laminar i	rusting at I	ottom 8 inches	s and top (inches of gird	er web	65
107/1	Steel Opn Girder/Beam	R3 to I and at	R4 rusting and mo	derate to of top and	neavy laminar i bottom flanges	rusting at to s of exterio	oottom 8 inches or girders A and	s and top 6	inches of gird R2 rusting at va	er web irious	65
107/1	Steel Opn Girder/Beam	R3 to I and at locatio rusting	R4 rusting and mo various locations ins of interior girde at most end diapl	derate to of top and rs, Paint f hragms, T	neavy laminar r bottom flanges ading and peel op flange of Gi	rusting at I s of exterior ing at varion rders A an	oottom 8 inches or girders A and ous locations o d J exhibit hea	s and top 6 d I. R1 to F f all girder vy lamina	inches of gird R2 rusting at va s throughout. F r rusting, R3-R	er web irious R2 to R4 4 rusting,	65
107/1	Steel Opn Girder/Beam	R3 to I and at locatio rusting and up	R4 rusting and mo various locations of interior girde at most end diaple to 1/4 inch ± sectors.	derate to of top and rs, Paint f hragms, T tion loss, f	neavy laminar i bottom flanges ading and peel op flange of Gi ull length. Top	rusting at the soft exterior of exterior of the soft exterior of the sof	pottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar	s and top 6 d I. R1 to F f all girder vy lamina nd E-J with	S inches of gird R2 rusting at va s throughout. F rusting, R3-Ra heavy lamina	er web irious R2 to R4 4 rusting,	65
107/1	Steel Opn Girder/Beam	R3 to I and at locatio rusting and up	R4 rusting and mo various locations ins of interior girde at most end diapl	derate to of top and rs, Paint f hragms, T tion loss, f	neavy laminar i bottom flanges ading and peel op flange of Gi ull length. Top	rusting at the soft exterior of exterior of the soft exterior of the sof	pottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar	s and top 6 d I. R1 to F f all girder vy lamina nd E-J with	S inches of gird R2 rusting at va s throughout. F rusting, R3-Ra heavy lamina	er web irious R2 to R4 4 rusting,	65
107/1	Steel Opn Girder/Beam	R3 to I and at locatio rusting and up rusting	R4 rusting and mo various locations of interior girde at most end diaple to 1/4 inch ± sectors.	derate to of top and rs. Paint f hragms. T tion loss, f nd up to 1	neavy laminar i bottom flanges ading and peel op flange of Gi ull length. Top /4 inch ± sectio	rusting at to s of exterior ing at varior rders A and flanges of on loss near	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at	s and top 6 d I. R1 to F f all girder: vy laminai nd E-J with Girders A	inches of gird 22 rusting at va s throughout. F rusting, R3-R4 heavy lamina -C and G-J nea	er web irious R2 to R4 4 rusting, r ar A2,	65
107/1	Steel Opn Girder/Beam	R3 to I and at locatio rusting and up rusting Severa chosel	R4 rusting and mo various locations on of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, all locations (2 footen to remove the he	derate to of top and rs, Paint f hragms, T tion loss, f nd up to 1 8 inches t eavy lamin	neavy laminar i bottom flanges ading and peel op flange of Gi ull length. Top /4 inch ± section from A2, 10 feel ar rusting that	rusting at the soft exterior of exterior of the soft exterior of the sof	ortiom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 incl	s and top 6 I. R1 to F f all girder: vy laminal nd E-J with Girders A he east of	inches of gird R2 rusting at va s throughout. F rusting, R3-Ra heavy lamina -C and G-J nea mid-span) wer girder web. TI	er web arious R2 to R4 4 rusting, r ar A2. e	65
107/1	Steel Opn Girder/Beam	R3 to I and at location rusting and up rusting Severa choses	R4 rusting and mo various locations on of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, all locations (2 footen to remove the heed a 1 inch diameters.	derate to of top and rs, Paint f hragms, T tion loss, f nd up to 1 8 inches t eavy lamin	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that ition, 18 inch x	rusting at the soft exterior of exterior of an officers of the soft exterior of the soft exte	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 incl foration, and a	s and top 6 I. R1 to F f all girders vy laminal d E-J with Girders A he east of hes of the 3 inch dias	binches of gird R2 rusting at va s throughout. F rusting, R3-R4 heavy lamina -C and G-J nea mid-span) wer girder web. TI meter perforati	er web arious R2 to R4 4 rusting, r ar A2. e	65
107/1	Steel Opn Girder/Beam	R3 to I and at locatio rusting and up rusting Severa choses reveal respec	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the heled a 1 inch diametatively. Girders A at the control of the co	derate to of top and rs. Paint f hragms. T tion loss, f and up to 1 8 inches i eavy lamin ter perfora and J have	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 fee ar rusting that ition, 18 inch x areas of web w	rusting at the soft exterior of at various A and flanges of on loss near the from A2, is typical of 2 inch per with up to	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 inci foration, and a	s and top 6 I. R1 to F f all girder vy laminal nd E-J with Girders A he east of hes of the 3 inch dia loss, not a	inches of gird R2 rusting at vasting at vasting, R3-R4 heavy lamina -C and G-J neamid-span) wer girder web. Timeter perforations,	er web prious R2 to R4 4 rusting, r ar A2. e e nis	65
107/1	Steel Opn Girder/Beam	R3 to I and at location rusting and up rusting Severa chosen reveal respectively.	R4 rusting and mo various locations of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, all locations (2 footen to remove the heed a 1 inch diametatively. Girders A all aminar rust has be	derate to lof top and rs. Paint f hragms. T tion loss, f nd up to 1 8 inches reavy laminter perforand J have been remo	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that ition, 18 inch x areas of web weed. See photographic points and the section of the section	rusting at the soft exterior of a transfer of the soft exterior of the s	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 incl foration, and a 40% ± section cts described h	s and top 6 d I. R1 to F f all girder vy laminai nd E-J with Girders A he east of hes of the 3 inch dia loss, not a lerein. An	inches of gird R2 rusting at vas s throughout. For rusting, R3-Rain heavy lamina- -C and G-J near mid-span) wer girder web. TI meter perforations, ERF letter was	er web arious R2 to R4 4 rusting, r ar A2. e anis on	65
107/1	Steel Opn Girder/Beam	R3 to I and at locatio rusting and up rusting Severa chosel reveal respective to Ada	R4 rusting and mo various locations of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the heled a 1 inch diamentatively. Girders A at laminar rust has terms County on 2/1	derate to lof top and rs. Paint f hragms. T ion loss, f and up to 1 8 inches leavy lamin der perforand J have been remo 2/2018 (d.	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that ition, 18 inch x areas of web weed. See photographic points and the section of the section	rusting at the soft exterior of a various Annual of the soft exterior A2, is typical of a various for defe	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 incl foration, and a 40% ± section cts described h	s and top 6 d I. R1 to F f all girder vy laminai nd E-J with Girders A he east of hes of the 3 inch dia loss, not a lerein. An	inches of gird R2 rusting at vas s throughout. For rusting, R3-Rain heavy lamina- -C and G-J near mid-span) wer girder web. TI meter perforations, ERF letter was	er web arious R2 to R4 4 rusting, r ar A2. e anis on	65
107/1		R3 to I and at location rusting and up rusting Severa chosel reveal respective to Ada review	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, all locations (2 foot in to remove the bed a 1 inch diametrively. Girders A at laminar rust has been to the county on 2/1 and by an Enginee	derate to of top and rs. Paint fragms. T ion loss, find up to 1 8 inches eavy lamin der perforand J have been remo 2/2018 (dar in 2017.	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 fee ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at the soft exterior of exterior o	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to the bottom 8 incliforation, and a 40% ± section cts described in CS4 for the content of the	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a terein. An	inches of gird R2 rusting at va s throughout. F rusting, R3-R- heavy lamina -C and G-J nea mid-span) wer girder web. TI meter perforati t perforations, ERF letter was lefect has beer	er web trious R2 to R4 4 rusting, r ar A2. e ahis on	
515/1	Steel Opn Girder/Beam	R3 to I and at locatio rusting and up rusting Severa chosel reveal respective to Ada	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, all locations (2 foot in to remove the bed a 1 inch diametrively. Girders A at laminar rust has been to the county on 2/1 and by an Enginee	derate to of top and rs. Paint fragms. T ion loss, find up to 1 8 inches eavy lamin der perforand J have been remo 2/2018 (dar in 2017.	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that ition, 18 inch x areas of web weed. See photographic points and the section of the section	rusting at the soft exterior of exterior o	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to the bottom 8 incliforation, and a 40% ± section cts described in CS4 for the content of the	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a terein. An	inches of gird R2 rusting at va s throughout. F rusting, R3-R- heavy lamina -C and G-J nea mid-span) wer girder web. TI meter perforati t perforations, ERF letter was lefect has beer	er web arious R2 to R4 4 rusting, r ar A2. e anis on	65
		R3 to I and at locatio rusting and up rusting Severa chosel reveal respect to Ada review sq.ft Steel p	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the heled a 1 inch diametrively. Girders A at laminar rust has the County on 2/1 and by an Enginee 507	derate to of top and rs. Paint f hragms. T ion loss, f nd up to 1 8 inches e avy lamin der perforand J have been remo 2/2018 (d. r in 2017.	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variance of exterior at variance of exterior at the sound of t	pottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 incl foration, and a 40% ± section cts described h on CS4 for the c	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 inch dia loss, not a lerein. An corrosion of	inches of gird R2 rusting at vasting at vasting, R3-R4 heavy laminal -C and G-J neamid-span) wer girder web. Timeter perforations, ERF letter was lefect has beer	er web trious R2 to R4 4 rusting, r ar A2. e nis on sent	
		R3 to land at location rusting and up rusting Severa chosel respect to Adareview sq.ft Steel p steel p	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the help to 1/4 inch diametricity (2 for the control of the control	derate to of top and rs. Paint for agms. Taion loss, find up to 1 8 inches is avy lamin der perforand J have been remo 2/2018 (dar in 2017.	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variance of exterior and to so of exterior at the solution of the solution o	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 incl foration, and a 40% ± section cts described h n CS4 for the c 232 bstantially effect as of R4 rustin	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a lerein. An corrosion of	inches of gird R2 rusting at vas s throughout. For rusting, R3-R-on heavy laminan-C and G-J nea mid-span) wer girder web. The meter perforations, ERF letter was defect has been 210 eas of R3 rustifled. ERF letter	er web trious R2 to R4 4 rusting, r ar A2. e nis on sent 1 13% ng, the sent to	
		R3 to land at location rusting and up rusting Severa chosel respect to Adareview sq.ft Steel p steel p	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the heled a 1 inch diametrively. Girders A at laminar rust has the County on 2/1 and by an Enginee 507	derate to of top and rs. Paint for agms. Taion loss, find up to 1 8 inches is avy lamin der perforand J have been remo 2/2018 (dar in 2017.	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variance of exterior and to so of exterior at the solution of the solution o	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 incl foration, and a 40% ± section cts described h n CS4 for the c 232 bstantially effect as of R4 rustin	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a lerein. An corrosion of	inches of gird R2 rusting at vas s throughout. For rusting, R3-R-on heavy laminan-C and G-J nea mid-span) wer girder web. The meter perforations, ERF letter was defect has been 210 eas of R3 rustifled. ERF letter	er web trious R2 to R4 4 rusting, r ar A2. e nis on sent 1 13% ng, the sent to	
515/1	Steel Protective Coating	R3 to land at location rusting and up rusting. Severa chosel respect to Adareview sq.ft Steel padding been rusting.	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the help to 1/4 inch diametricity (2 for the county on 2/1 inch diametricity (3 for the county on 2/1 inch diametricity (4 for the county on 2/1 inch diametricity (5 for the county on 2/1 inch diametricity (5 for the county on 2/12/2 inch diametricity (6 for the county on 2/12/2 inch dia	derate to of top and rs. Paint for agms. Taion loss, fond up to 1 8 inches is avy lamin der perforand J have been remo 2/2018 (dar in 2017. 10% at areas on as limited gineer in 2018 (date gineer in 2018)	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variaters A and flanges of on loss near the from A2, as typical of 2 inch per with up to os for defe Quantity if 46% sting is su and in are uantity in the solution of the following and the solution of the	pottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti an bottom 8 inci foration, and a 40% ± section cts described h n CS4 for the c	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a lerein. An corrosion of	inches of gird rusting at vast throughout. For rusting, R3-R-in heavy laminal-C and G-J near mid-span) wer girder web. To meter perforations, ERF letter was defect has been so f R3 rustified. ERF letter ve coating defear	er web trious R2 to R4 4 rusting, r ar A2. e his on sent 1 13% ng, the sent to cct has	65
515/1		R3 to land at location rusting and up rusting Severa chosel respect to Adareview sq.ft Steel paddings.	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± seed, R3-R4 rusting, a al locations (2 foot in to remove the heled a 1 inch diamentively. Girders A alaminar rust has the County on 2/1 yed by an Enginee 507 protective coating or otecting coating to seed a 1/12/2/2 seed by an Enginee 507 protecting coating to 2/12/2 seed by an Enginee 507 protecting coating to 2/12/2 seed by an 2/12	derate to of top and rs. Paint for agms. Taion loss, fond up to 1 8 inches eavy lamin der perforand J have been remo 2/2018 (dar in 2017.	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variance of exterior and to so of exterior at the solution of the solution o	oottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 incl foration, and a 40% ± section cts described h n CS4 for the c 232 bstantially effect as of R4 rustin	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a lerein. An corrosion of	inches of gird R2 rusting at vas s throughout. For rusting, R3-R-on heavy laminan-C and G-J nea mid-span) wer girder web. The meter perforations, ERF letter was defect has been 210 eas of R3 rustifled. ERF letter	er web trious R2 to R4 4 rusting, r ar A2. e nis on sent 1 13% ng, the sent to	
515/1	Steel Protective Coating	R3 to land at location rusting and up rusting. Severa chosel respect to Adareview sq.ft Steel padding been rusting.	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the help to 1/4 inch diametricity (2 for the county on 2/1 inch diametricity (3 for the county on 2/1 inch diametricity (4 for the county on 2/1 inch diametricity (5 for the county on 2/1 inch diametricity (5 for the county on 2/12/2 inch diametricity (6 for the county on 2/12/2 inch dia	derate to of top and rs. Paint for agms. Taion loss, fond up to 1 8 inches is avy lamin der perforand J have been remo 2/2018 (dar in 2017. 10% at areas on as limited gineer in 2018 (date gineer in 2018)	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variaters A and flanges of on loss near the from A2, as typical of 2 inch per with up to os for defe Quantity if 46% sting is su and in are uantity in the solution of the following and the solution of the	pottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti an bottom 8 inci foration, and a 40% ± section cts described h n CS4 for the c	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a lerein. An corrosion of	inches of gird rusting at vast throughout. For rusting, R3-R-in heavy laminal-C and G-J near mid-span) wer girder web. To meter perforations, ERF letter was defect has been so f R3 rustified. ERF letter ve coating defear	er web trious R2 to R4 4 rusting, r ar A2. e his on sent 1 13% ng, the sent to cct has	65
515/1	Steel Protective Coating	R3 to I and at locatio rusting and up rusting Severa chosen reveal respecto Ada review sq.ft Steel p Adams been r	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the help to 1/4 inch diametricity (2 for the county on 2/1 inch diametricity (3 for the county on 2/1 inch diametricity (4 for the county on 2/1 inch diametricity (5 for the county on 2/1 inch diametricity (5 for the county on 2/12/2 inch diametricity (6 for the county on 2/12/2 inch dia	derate to of top and rs. Paint for agms. Taion loss, fond up to 1 8 inches is avy lamin der perforand J have been remo 2/2018 (dar in 2017. 10% at areas on as limited gineer in 2018 (date gineer in 2018)	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variaters A and flanges of on loss near the from A2, as typical of 2 inch per with up to os for defe Quantity if 46% sting is su and in are uantity in the solution of the following and the solution of the	pottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti an bottom 8 inci foration, and a 40% ± section cts described h n CS4 for the c	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a lerein. An corrosion of	inches of gird rusting at vast throughout. For rusting, R3-R-in heavy laminal-C and G-J near mid-span) wer girder web. To meter perforations, ERF letter was defect has been so f R3 rustified. ERF letter ve coating defear	er web trious R2 to R4 4 rusting, r ar A2. e his on sent 1 13% ng, the sent to cct has	65
<u>515/1</u> <u>3440/</u>	Steel Protective Coating	R3 to land at location rusting and up rusting Severa chosel respect to Adareview sq.ft Steel padams been r	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sectors, R3-R4 rusting, at locations (2 foot in to remove the help of a 1 inch diametricity. Girders A atlaminar rust has been a 1 ms County on 2/1 and by an Engineer 507 protective coating coating to section to 2/12/2 reviewed by an Engineer 155	derate to of top and rs. Paint fragms. Taion loss, find up to 1 8 inches eavy lamin der perforand J have been remo 2/2018 (dar in 2017. 0% at areas on as limited 2018 (date gineer in 2 0%	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variaters A and flanges of on loss near the from A2, as typical of 2 inch per with up to os for defe Quantity if 46% sting is su and in are uantity in 446%	bottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti on bottom 8 inci- foration, and a 40% ± section cts described h n CS4 for the co 232 betantially effer as of R4 rustin CS4 for the ster	s and top 6 d I. R1 to F f ell girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a lerein. An corrosion of 41% title. In ar g it has fai el protectiv	Sinches of gird R2 rusting at vasting at vast in throughout. For rusting, R3-R-in heavy laminary and G-J near mid-span) were girder web. The meter perforations, ERF letter was defect has been well as of R3 rusting defect. The coating defeas of R4 rusting defeas	er web trious 12 to R4 4 rusting, fr ar A2. e his on 13% ng, the sent to cct has	65
515/1	Steel Protective Coating	R3 to I and at locatio rusting and up rusting Severa chosen reveal respecto Ada review sq.ft Steel p Adams been r	R4 rusting and mo various locations ins of interior girde at most end diaple to 1/4 inch ± sector, R3-R4 rusting, at locations (2 foot in to remove the help to 1/4 inch diametricity (2 for the county on 2/1 inch diametricity (3 for the county on 2/1 inch diametricity (4 for the county on 2/1 inch diametricity (5 for the county on 2/1 inch diametricity (5 for the county on 2/12/2 inch diametricity (6 for the county on 2/12/2 inch dia	derate to of top and rs. Paint for agms. Taion loss, fond up to 1 8 inches is avy lamin der perforand J have been remo 2/2018 (dar in 2017. 10% at areas on as limited gineer in 2018 (date gineer in 2018)	neavy laminar in bottom flanges ading and peel op flange of Gi ull length. Top 1/4 inch ± section A2, 10 feel ar rusting that it tion, 18 inch x areas of web aved. See photo ated 2/9/2018).	rusting at to so of extericing at variaters A and flanges of on loss near the from A2, as typical of 2 inch per with up to os for defe Quantity if 46% sting is su and in are uantity in the solution of the following and the solution of the	pottom 8 inches or girders A and ous locations o d J exhibit hea Girders A-C ar ar A1. Same at and 5 feet to ti an bottom 8 inci foration, and a 40% ± section cts described h n CS4 for the c	s and top 6 d I. R1 to F f all girder vy laminar d E-J with Girders A he east of hes of the 3 Inch dia loss, not a lerein. An corrosion of	inches of gird rusting at vast throughout. For rusting, R3-R-in heavy laminal-C and G-J near mid-span) wer girder web. To meter perforations, ERF letter was defect has been so f R3 rustified. ERF letter ve coating defear	er web trious R2 to R4 4 rusting, r ar A2. e his on sent 1 13% ng, the sent to cct has	65

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

	tructure inspection						Too	0%	To	0%	10
202/1	Steel Column		20 1 rust at all piles.	0%	0	100%	20	1078	10	. 1078	
		Lightix	i tust at all piles.								
515/1	Steel Protective Coating		20	0%	0	100%	20	0%	0	0%	Ö
		Steel pr	rotective coating	at areas o	f R1 rusting is	substantia	lly effective.				
	vilencous L. LO. II.	16		100/	To	100%	2	0%	10	0%	10 -
3440	0/1 Eff (Stl Protect Coat)		2	0%	0	100%	12	1070	10	10%	
		-									
1000/1	Corrosion	each	20	0%	0	100%	20	0%	0	0%	0
		-									
0404	lou at the count	14	96	10%	To	50%	T48	50%	48	0%	0
219/1	Sti Abutment	-	R1 to R2 rusting								17
			ugated panels be			. 20			J	***	
			• • • • • • • • • • • • • • • • • • • •								
515/1	Steel Protective Coating	sq.ft		0%	0	50%	48	50%	48	0%	0
		Steel p	rotective coating	at areas o	f R1 rusting is	substantia	illy effective an	d areas o	f R2-R3 rusting	ı has	
			effectiveness. Pa	aint on ab	utment backwa	ill betweer	n girders has ar	eas of pe	eling, bubbling	and	
244	OM E# (CH Protect Coot)	cracket ft	d paint. 29	0%	10	50%	15	50%	15	0%	0
3440	0/1 Eff (Sti Protect Coat)	-		U70	.10	0070		1007	1.*	13.5	
		-									
1000/1	1 Corrosion	ft	96	0%	0	50%	48	50%	48	0%	0
		_									
231/1	Steel Pier Cap	ft	96	0%	To	50%	48	50%	48	0%	0
231/1	Greet Fiel Oab		R2 rusting through					erate to h	eavy pack rust	and	
			of heavy soil build								
											-1
515/1	Steel Protective Coating		96	0%	0	50%	48	50%	48	0%	0
			protective coating	at areas o	of R1 rusting is	substantia	ally effective an	d areas c	r R2-R3 rusting	j nas	
		limited	effectiveness.								
344	0/1 Eff (Sti Protect Coat)	ft	29	0%	10	50%	15	50%	15	0%	0
<u> </u>	En jour rotour coup	<u>I:</u>									
	<u></u>				-1- 1-	Tuest	1.5	LEGAL	Tio	Low	<u> </u>
1000/	1 Corrosion	ft	96	0%	10	50%	48	50%	48	0%	0
		-									
311/1	Moveable Bearing	each	20	0%	0	80%	16	20%	4	0%	0
			R2 rusting at mos	t bearings	with heavy so	il/debris b	uilt up at all co	mers. R3	rusting at the e	xterior	
			igs, heaviest at A								
				T		Lacar	140	Locar	<u> </u>	I ooz	In .
515/1	1 Steel Protective Coating	sq.ft		0%	0	80%	16	20%		0%_	[0
			protective coating	at areas	ot R1 rusting is	substanti	any effective ar	nd areas (or KZ-K3 rustin	y nas	
		umited	l effectiveness.								
344	40/1 Eff (Stl Protect Coat)	each	2	0%	0	80%	1	20%	0	0%	0
L 04-	In fact total aget						•			-	_
		-									

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

1000/1	Corrosion	each 2	20	0%	0	80%	16	20%	4	0%	0
		_									
30/1	Metal Bridge Railing	ft	101	82%	83	18%	18	0%	ĺ0	0%	0
3071	inicial bridge ranning		ng at all posts. Mi						· · · · · · · · · · · · · · · · · · ·		
							,		т.	1	1:
515/1	Steel Protective Coating		101	82%	83	18%	18	0%	0	0%	0
		Steel pro	otective coating a	t areas of	R1 rusting is s	ubstantial	lly effective.				
3440/	1 Eff (Stl Protect Coat)	ft 3	31	82%	25	18%	5	0%	0	0%	0
	<u>.1 </u>			·	1			<u></u>			
		- I T	•		10	4000/	140	100/	In	100/	10
1000/1	Corrosion	ft 1	18	0%	0	100%	18	0%	0	0%	Į0
		_									
326/1	Bridge Wingwalls	(EA)	4	0%	0	100%	4	0%	0	0%	0
		Light R1	1 rusting at the pil	es and wi	ingwalls through	nout.					
	12	ten I		00/	10-	1000/	14	0%	To .	0%	О
1000/1	Corrosion	(EA)	+	0%	0	100%]4	0 %	Įv .	1070	10
		-									
501/1	Channel Cond		1	100%	1	0%	0	0%	0	0%	0
		Open fie	eld with mud and	grasses.	Heavy tumblew	eeds built	t up upstream,	downstrea	am, and under l	bridge.	
9504/1	BankCond	(EA)	1	100%	11	0%	10	0%	To	0%	0
130471	Ванксона	<u> </u>	eld/pasture with g		<u>'</u>	070	<u>1*</u>	1	15	1	<u> </u>
520/1	AppRdAlign		1	100%	1	0%	0	0%	0	0%	0
		Slash p	anels present at a	all (4) cori	ners of the bride	e near th	e abutments.				
0530/1	Approach Guardrail A	(EA)	1	100%	11	0%	To	0%	0	0%	0
777071	PAPPIOACII GUAIGIAII A		ch rails not long e								•
			· ·								
							4				
9600/1	Genl Remarks	(EA)		100%	1	0%	0	0%	0	0%	0
9600/1	Geni Remarks		1 013 Flood: 9/21/2		<u> </u>	•		0%	0	0%	0
9600/1	Geni Remarks	Sept. 20	013 Flood: 9/21/2	013, No s	significant scoul	observe	d.	0%	0	0%	0
9600/1	Geni Remarks	Sept. 20		013, No s	significant scoul	observe	d.	0%	0	0%	0
		Sept. 20	013 Flood: 9/21/2	013, No s	significant scoul	observe	d.	0%	0_	0%	0
	nce Activity Summary	Sept. 20	013 Flood: 9/21/2	013, No s	significant scoul	observe	d. 2018).			0%	0

Highway Number (ON) 5D: 00000 V Mile Post (ON) 11: 0.000 mi

12/11/2017 2018 **306.00 Bridge Rail-Replace URGENT: Install barriers to restrict traffic from shoulders on both sides of the bridge per recommendations in ERF letter sent 2/12/2018. 2018 12/11/2017 **353.05 Deck-Replace Replace metal decking, deck edge plate, and repave with waterproof membrane. 12/11/2017 2019 **398.00 Superstructure-Rehab Rehab or replace Girders A and J. 2019 12/11/2017 306.02 Approach Railing Install transitions, approach rails, and rail ends to meet current AASHTO/CDOT standards. 12/11/2017 2019 Bridge Rail-Upgrade 306.04 Install bridge rail to meet current AASHTO/CDOT standards. 12/11/2017 2019 Misc-Paint ID 355.02 Clean, prime and paint girders, abutments, pile caps and bearings. 12/11/2017 2019 357.00 Bearings-Clean Assemblies/Paint

Clean soil/debris from all bearings and rehab as necessary.

Highway Number (ON) 5D: 00000 V Mile Post (ON) 11: 0.000 mi

Bridge Notes							
Inventory Route is west to east.	***	-					
South side is upstream.							
Superstructure is named Girder A through J from	north to south.						
Substructure is numbered Abutment 1 through A	butment 2 from west to east.		<u></u>				
Inspection Notes							
Date: 12/11/2017							
Time: 2:00 PM							
Temp: 55 degrees							
Weather: Sunny/Light Breeze							
Inspectors: JAZ/ES							
ERF letter sent to Adams County on 2/12/2018 (dated 2/9/2018).						
	•	_					
Scope:							
✓ NBI ✓ Element ☐ Underwate	er	☐ Other	Type: Regular NBI				
Team Leader Inspection Check-off:							
FCM's	ra v	Vertical Clearance					
_							
Posting Signs	Пэ	Stream Bed Profile					
☐ Essential Repair Verification							
Inspection Team: <u>SAN ENGINEERING</u>							
Inspection Date: <u>12/11/2017</u>							
·	-	Inspector: Eduardo San					
	_	Inspector (Team Leader)	: JEREMY ZEID				





Control of the Contro

Roadway Looking East



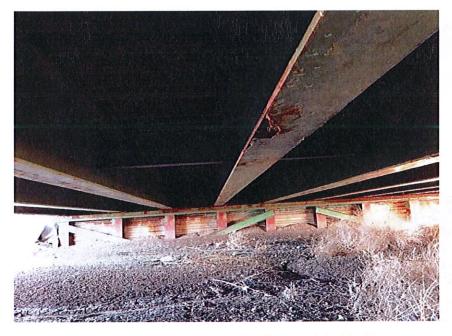
View 2

View 1

Elevation from Upstream Looking North

STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





General View of Superstructure from Underneath Looking East



View 4

Upstream Channel Looking South

STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





View 5

Downstream Channel Looking North



View 6

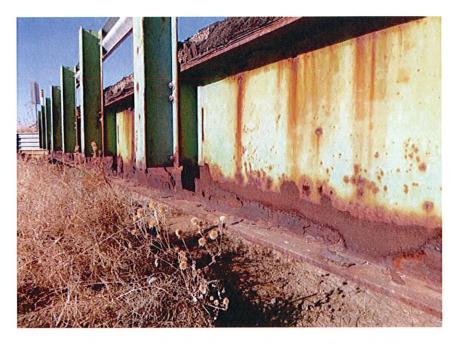
Cracking in Asphalt at Locations of South Side Deteriorated Deck Edge Plate

STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





Approximate 11'-6" Shoulder on Bridge South Side - North Side Similar



View 8

South Side of Girder J with Heavy R3-R4 Rusting - Girder A Similar

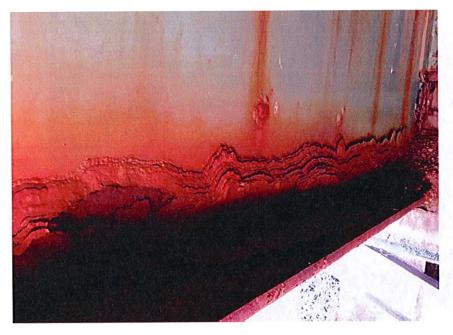
STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





View 9

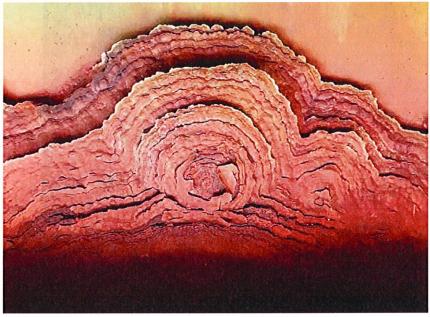
North Side of Girder J with Heavy R3-R4 Rusting - Girder A Similar



View 10

Heavy Laminar Rusting at Bottom of Girder J Web - Girder A Similar





Heavy Laminar Rusting at Bottom of Girder J Web - Girder A Similar



View 11

Heavy Laminar Rusting and 1" Diameter Perforation at Bottom of Girder J Web 2'-8" From Abutment 2

STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





Heavy Laminar Rusting and 18" x 2" Perforation at Bottom of Girder J Web 10'-0" from Abutment 2

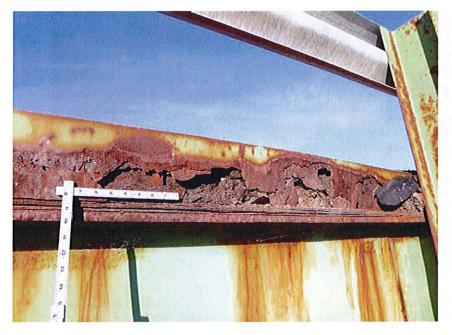


View 14

Heavy Laminar Rusting and 3" Diameter Perforation at Bottom of Girder J Web 5'-0" East of Mid-Span

STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





View 15

Heavy R4 Rusting and Perforations of South Side Deck Edge Plate - North Side Similar

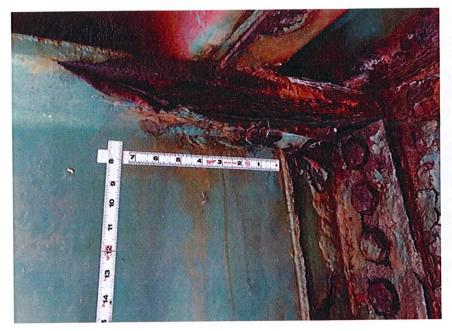


View 16

Heavy Laminar Rusting at Top Flange of Girder J - Girder A Similar

STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





View 17

Laminar Rusting at Top Flange of Girder J at Abutment 2 - Typical Multiple Locations



View 18

End Diaphragm and Bearing Area Corrosion of Girder J at Abutment 2 - Typical Multiple Locations

STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





Soil/Debris up to 9" High on Bearing Seat of Girder J at Abutment 1 - Typical Multiple Locations



View 20

R3-R4 Rusting of Deck in Bay I - Typical Bays A, B, and J (1)

STRUCTURE NO.: ADA088-27.5N131 CITY - Non-City, COUNTY - Adams County





View 21

R3-R4 Rusting of Deck in Bay I - Typical Bays A, B, and J (2)



View 22

R3-R4 Rusting of Deck in Bay I - Typical Bays A, B, and J (3)

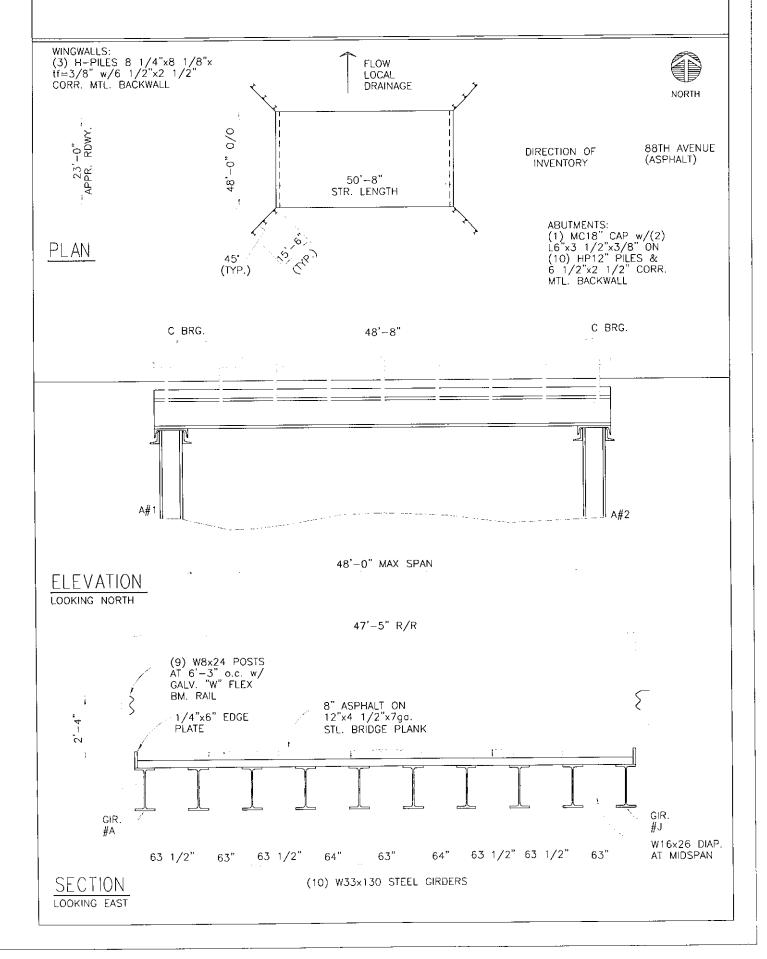


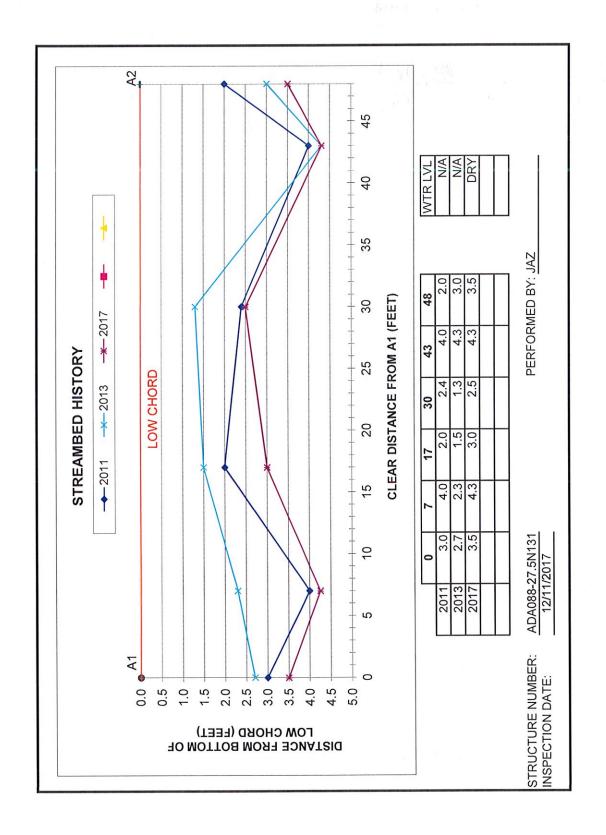


Turned Down Approach Rail End Treatments - Typical All Corners

View 23

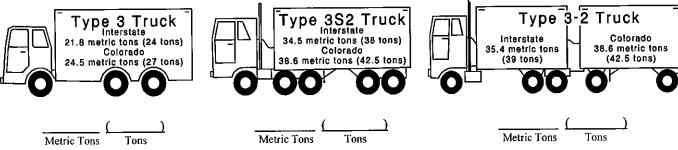
ADAØ88-27.5N131





COLORADO DEPARTMENT OF TRANSPORTATION	Structure # A DA 088-27.5N131 Abbr. Str. #				
LOAD FACTOR RATING SUMMARY					
Rated Using:	Road or Street # 88 TH AVENUE				
Asphalt Thickness: 205 mm (8 in.)	Batch I.D.				
[X] Colorado Legal Loads	Structure Type SSM				
[] Interstate Legal Loads	Parallel Structure # N/A				

Structural Member	DEC	K	GIRDER			_		
	Metric Tons	(Tons)	Metric Tons	(Tons)	Metric Tons	(Tons)	Metric Tons	(Tons)
Inventory MS 18 (HS20)	24.8	(27.4)	26.6	(29.4)				
Operating MS 18 (HS20)	41.4	(45.7)	44.5	(49.1)	4444			
	-		 		, 			_
Type 3 Truck								·
Type 3S2 Truck		<u>-</u> .			ļ			
Type 3-2 Truck						·		<u>-</u>
Permit Truck								



Comments:

8" asphalt above corrugations on 4 1/4" x 12" x 7 gage corrugated metal deck, $F_y = 50,000$ psi. Section reduced 25% due to rust.

Girder rated is interior W33x130, spanning 48'-8", spaced at 5'-3 3/4", $F_y = 33,000$ psi. Section reduced 10% due to rust.

NO POSTING REQUIRED

Rated By: Cem Ayan	Date: 2/05/08	Checked By: Jason Triplett	Date: 2/06/08
INSPECTED BUT SHORT ELLIOTT HEN		By:	Date:

ESSENTIAL REPAIR FINDING - ADA088-27.5N131

ESSENTIAL REPAIR FINDING MEMO

TO:

Mr. Mark McDonald, PE, SE Sr. Bridge Engineer, Public Works, Adams County

Adams County 4430 South Adams County Parkway

1st Floor, Suite W2000B Brighton, CO 80601 DATE:

February 09, 2018

FROM:

Jeremy Zeid, PE

Inspection Team Leader

San Engineering, LLC 1150 W. Littleton Blvd, Suite 200

Littleton, CO 80120

Essential Repair Finding - ADA088-27.5N131

Essential Repair Findings (ERF's) are existing conditions which require repairs to ensure the safe and continued service of a structure. The documentation below identifies an ERF found during a recent bridge inspection.

Structure Number: ADA088-27.5N131
Inspection Date: December 11, 2017

Facility Carried: 88th Avenue

Feature Intersected: Local Drainage

ERF Color Code Classification: Orange (See definition at end of letter)

Structure Description: ADA088-27.5N131 is a single span structure which consists of an asphalt wearing surface on steel stringers with corrugated metal flooring, and founded on steel piles with corrugated metal abutment wall lagging. The 10 girders vary in spacing from 63" to 64" inches. The south edge of deck is approximately 11'-6 from the edge of the eastbound travel lane. The north exterior girder, Girder A, is approximately 11'-9" from the edge of the westbound travel lane. The approach roadway width is approximately 23'-0"; however, the face of rail to face of rail width on the bridge is approximately 47'-5".

Findings

The exterior girders (Girders A and J) have heavy R3 to R4 rusting along the entire length of the girder on both sides of the lower 6"-8" of the girder web with heavy laminar rusting. Girder J is

ESSENTIAL REPAIR FINDING - ADA088-27.5N131



markedly worse than Girder A. This laminar rust varies, averaging approximately 0.5" in thickness. At the time of inspection, the interior (north) side of Girder J had more substantial laminar rusting built up.

The top flange and top several inches of the girder web of the exterior girders also have heavy R3 rusting with laminar rust. Again, Girder J is markedly worse than Girder A. The laminar rust is present along various areas along the length of the girder on both sides of the web, heaviest at the girder ends, on the exterior face of the girder near the heavily corroded deck edge angle, and at locations in contact with the corrugated metal deck above. Similar to the bottom flange, the laminar rust varies in thickness, with a maximum of approximately 0.5" in thickness.

At the time of the inspection, several small areas were selectively chosen to remove the laminar rust to aid in determining the extent of the corrosion and section loss. When the flaking laminar rust was removed, perforations in the girder web were revealed. A 1" diameter perforation was exposed at 2'-8" from the east end, an 18" x 2" perforation was exposed at 10'-0" from the east end, and a 3" diameter perforation was exposed at 5'-0" to the east from mid-span.

In areas where it could be measured, the section loss of the girder webs was approximately 1/8" to 3/16" at the lower 8" of the web. The top flanges have approximately 1/8" section loss.

Furthermore, heavy R3 to R4 rusting of the corrugated decking in the 2 exterior bays is present. R2 to R3 rusting exists at the joints at various locations throughout the remaining interior bays. The north deck edge plate has R2 to R3 rusting along the entire length, while the south deck edge plate has R3 to R4 rusting with large perforations along the entire length.

Without a full and proper cleaning of the girders, the full extent of the section loss and potential for additional perforations can only be assumed at the time of inspection. The observed conditions could potentially significantly reduce the strength and effectiveness of the exterior girders and two exterior bays of decking on both sides of the bridge. It should be noted that, when vehicles pull over on the shoulders of the bridge, the exterior girders will receive direct live load distribution.

Recommendations

In the short term, it is recommended that the travel way of this structure be restricted to the two existing lanes by use of traffic barriers preventing vehicles from driving on the shoulders. These traffic barriers should be placed such that the inside face of barrier is 10'-0" minimum from the edge of deck. The barrier should be significant enough that the traveling public cannot move them, such as concrete Jersey barriers or similar. Adequate signage, taper of the barriers and attenuators should be provided adhering to all applicable AASHTO/CDOT standards. In the

San Engineering LLC Civil and Structural Engineering

ESSENTIAL REPAIR FINDING - ADA088-27.5N131

long term, the exterior girders, the two exterior bays (at a minimum) of corrugated decking, and deck edge angles should be removed and replaced.

Please let me know if you have any questions or if I can provide any additional information regarding this inspection.

Regards,

Jeremy Zeid, PE Inspection Team Leader Phone: 303-953-9014, ext. 112 jeremy@sanstructural.com Attachments:

- Definitions of Color Code Classification
- Photos

Classification and Prioritization

When identifying a needed repair as essential, the Bridge Inspection Program Manager will classify the repair based on the appropriate time frame for addressing the problem as follows:

Orange	Accomplish repairs within the timeframe specified by the memo or within 30 days maximum.
Yellow	Recommend accomplishing repairs within the next 90 days.
Green	Recommend accomplishing repairs within the next year or as funding allows.
Blue	Monitoring by maintenance in lieu of repairs. The type and frequency of monitoring as specified by the repair notice.

ESSENTIAL REPAIR FINDING - ADA088-27.5N131



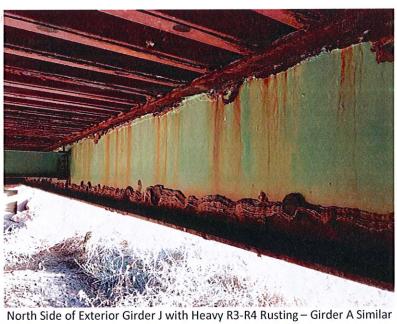


11.5' Eastbound Shoulder on South Side, Looking West – Westbound on North Side Similar



South Side of Exterior Girder J with Heavy R3-R4 Rusting – Girder A Similar





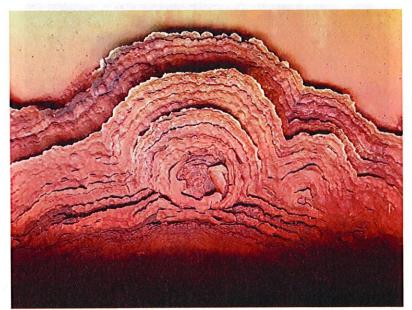


Heavy Laminar Rust at Bottom of Web of Exterior Girder J – Girder A Similar





Heavy Laminar Rust at Bottom of Web of Exterior Girder J - Girder A Similar

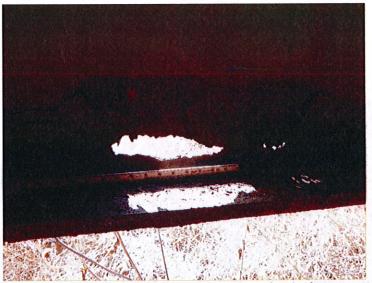


Heavy Laminar Rust at Bottom of Web of Exterior Girder J – Girder A Similar





Heavy Laminar Rust and 1" Diameter Perforation at Bottom of Web of Exterior Girder J 2'-8" from Abutment 2



Heavy Laminar Rust and 18" x 2" Perforation at Bottom of Web of Exterior Girder J 10'-0" from Abutment 2





Heavy Laminar Rust and 3" Diameter Perforation at Bottom of Web of Exterior Girder J 5'-0" to the East of Mid-Span



Heavy Laminar Rust at Top Flange of Exterior Girder J – Girder A Similar





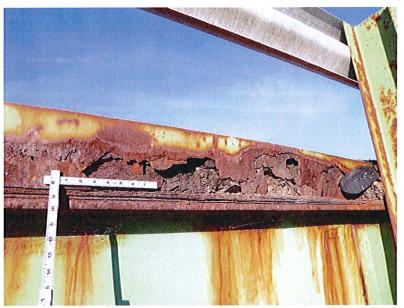
Heavy R3-R4 Rusting of Corrugated Deck in Exterior Bay I – Bays A, B, and H Similar



Heavy R3-R4 Rusting of Corrugated Deck in Exterior Bay I – Bays A, B, and H Similar







Heavy R3-R4 Rusting and Perforations of Deck Edge Angle on South Side – North Side Similar

	\	

Benesch Proposal

E. 88th Ave. Over Local Drainage Engineering Design Services

Structure No.: ADA088-27.5N131 RFP Number: RFP-SS-2018.634

PREPARED FOR

Adams County

September 2018



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Project Approach	3
Project Schedule	6
Cost of Services	7



Hudson Road over Coyote Run Creek - City of Aurora





Alfred Benesch & Company 7979 E. Tufts Ave., Suite 800 Denver, CO 80237 www.benesch.com P 303-771-6868 F 303-741-6745

September 6, 2018

Adams County Finance Department Purchasing Division 4430 South Adams County Parkway Brighton, CO 80601

Attn: Shannon E. Sprague, CPPB

Adams County Contract Specialist

Subject: E. 88th Ave. over Local Drainage Engineering Design Services - RFP-SS-2018.634

Dear Ms. Sprague and Selection Committee;

Alfred Benesch & Company (Benesch) is very pleased to submit this proposal for engineering services for the rehabilitation of the 88th Avenue Bridge over Local Drainage (ADA088-27.5N131). Benesch has completed many rehabilitation projects for clients throughout Colorado. We have also inspected many bridges in Adams County. We have demonstrated our ability to successfully complete bridge projects for a wide variety of structure types and types of deterioration including the following:

- Hudson Road over Coyote Run Creek, City of Aurora (rehabilitation)
- Woodmen Road Bridge Rehabilitation, City of Colorado Springs (Rehabilitation)
- Myers Gulch Road over Bear Creek, Jefferson County (rehabilitation)

The Hudson Road project is very similar in scope to this Adams County project. Hudson Road was completed early this summer. Since the project was recently completed, the important lessons learned are still fresh in our minds and will benefit the County's project accordingly.

To address some of the special concerns presented by this project, we have asked one other firm to join our team and address a specific technical area. Our team and their respective areas of responsibility are as follows:

- <u>Benesch</u> Project Management, Bridge Rehabilitation Design, Roadway Design
- Farnsworth Group, Inc. Surveying, Right of Way

Benesch has worked with this consultant on a number of projects and we have a well-established working relationships with them.

Our proposed Project Manager is Daniel Bechtold, P.E. Dan has over 28 years of bridge engineering experience, all of it at Benesch/LONCO. Dan has been our Project Manager and lead bridge engineer



for many projects throughout Colorado. Dan's experience on projects such as these makes him an excellent choice for this project.

We hope the attached proposal demonstrates that we are the best team for this project. We give Adams County our full commitment to this project and look forward to working with you again. The information and data submitted is true and complete to our best knowledge. Please call if you have any questions.

Sincerely,

William H. Epp, PE

Will &1 Epp

Senior Vice President and Colorado Division Manager

(303) 771-6868

wepp@benesch.com

Daniel Bechtolel

Daniel J. Bechtold, PE

Project Manager

(303) 771-6868

dbechtold@benesch.com



Alfred Benesch & Company 7979 E. Tufts Ave., Suite 800 Denver, CO 80237 www.benesch.com P 303-771-6868 F 303-741-6745

PROJECT APPROACH:

Project Understanding:

The existing bridge has a steel stringer with asphalt filled corrugated metal deck superstructure. As is typical with these type of structures, poor drainage characteristics have caused substantial deterioration to the existing metal deck as well as the exterior (fascia) girders. The bridge is listed as Structurally Deficient in the current bridge inspection report and has been issued an Essential Repair Finding (ERF). The County has closed both bridge shoulders to traffic. The County wants to replace the existing deck (with a composite concrete deck) and the exterior girders, at a minimum.

Schedule is a mission critical element of this project. Benesch will incorporate a Schematic Design Phase as a way to accelerate the design development. The schematic phase will allow the project to commence prior to collecting the project survey. Our familiarity with this type of bridge and project will also assist us in moving the project forward rapidly.

Schematic Design

Benesch will initiate a field inspection of the existing bridge shortly after notice-to-proceed (NTP) and the Kick-off meeting. We will verify the existing conditions as reported in the bridge inspection report as well as document the conditions that will impact the design. With field measurements and the bridge inspection report, we will begin to develop a concept level study of how to rehabilitate the structure. We will also review the available options for construction phase traffic control. These options include a full closure (with off-site detour) and phased construction (potentially using a single lane with alternating traffic). It is assumed that existing right-of-way limits will preclude an on-site (shoefly) detour approach to construction phase traffic control. We will submit a letter report with supporting 11"x17" exhibits to document our results from the concept study. This concept study will be submitted to the County for review.

Preliminary Design (FIR):

By the start of the preliminary design phase, we will have our design survey. With this survey an alignment will be set to best tie into the existing roadway. After the horizontal alignment has been set, design for the vertical alignment will commence. One challenging aspect of developing the roadway profile on a rehabilitation project is the need to match the existing conditions (top of girder elevations). We have recently completed a very similar project, so we are very familiar with this process. The roadway typical section will also be developed and discussed with the County. Two cross sections will be required; one for the typical roadway section and one for the significantly wider bridge section. A transition between these two sections will be shown in the roadway plan.

A structure type selection report will not be necessary, since it is assumed the County wants to install a composite concrete deck. The existing exterior girders will be removed and replaced. Welded shear studs will be attached to the top flanges of the new and existing girders. It is assumed that the new composite deck will raise the capacity (load rating) of the bridge. We will provide a preliminary rating and report the new capacity in the preliminary report. At this point in the project, a separate bridge FIR meeting can be held.

Traffic phasing plans will be developed from the concept studied in the schematic design phase. We will submit a preliminary design package, which will include most of the roadway drawings. The existing Right-of-Way (ROW) will be determined, but CDOT style ROW plans will not be provided. We will make a preliminary recommendation of easements that may be required for construction. A preliminary level opinion of construction cost will be developed. The preliminary roadway design will be submitted for review.

We will attend a Field Inspection Review (FIR) meeting to discuss the roadway design with the County. After we received comments on the preliminary submittal, we will proceed to final design.

88th Avenue Bridge Rehabilitation Page | 2



Final Design (FOR):

The final design of the roadway will include guardrail configuration, signing and striping, and a stormwater management plan. All required sheets will be started and substantially complete (90% or more complete). We will download and assemble CDOT standard special provisions and prepare project special provisions (technical specifications) that apply to our work. Other specifications (boiler plate) necessary to bid the project to contractors are not included in our work and we assume they will be prepared by the County.

Bridge design documents will be advanced to at least 90% complete. The bridge design will be coordinated with the phased construction plan (if phased construction is used). All anticipated repairs will be included for review by the County.

We assume the following drawings will be required and will produce them during the final design phase.

Final Design Phase Drawing List:

- 1. Title Sheet
- 2. Standard Plans List
- 3. General Notes
- 4. Typical Sections
- 5. Summary of Approximate Quantities (2 sheets)
- 6. Tabulations
- 7. Survey Tabulation Sheet
- 8. Land Survey Control Diagram
- 9. Plan and Profile Sheet
- 10. Channel Grading
- 11. Traffic Control Plan
- 12. Traffic Control Notes
- 13. Phasing/Work Zone Sheet
- 14. Stormwater Management Plan (2 Sheets)
- 15. Erosion Control Plan
- 16. Striping Plan
- 17. Bridge General Information
- 18. Bridge General Layout
- 19. Construction Layout
- 20. Abutment and Wingwall Details
- 21. Steel Girder Details
- 22. Superstructure Details
- 23. Deck Reinforcing Plan
- 24. Bridge Rail Type 10M
- 25. Bridge Rail Details
- 26. Bridge Deck Elevations

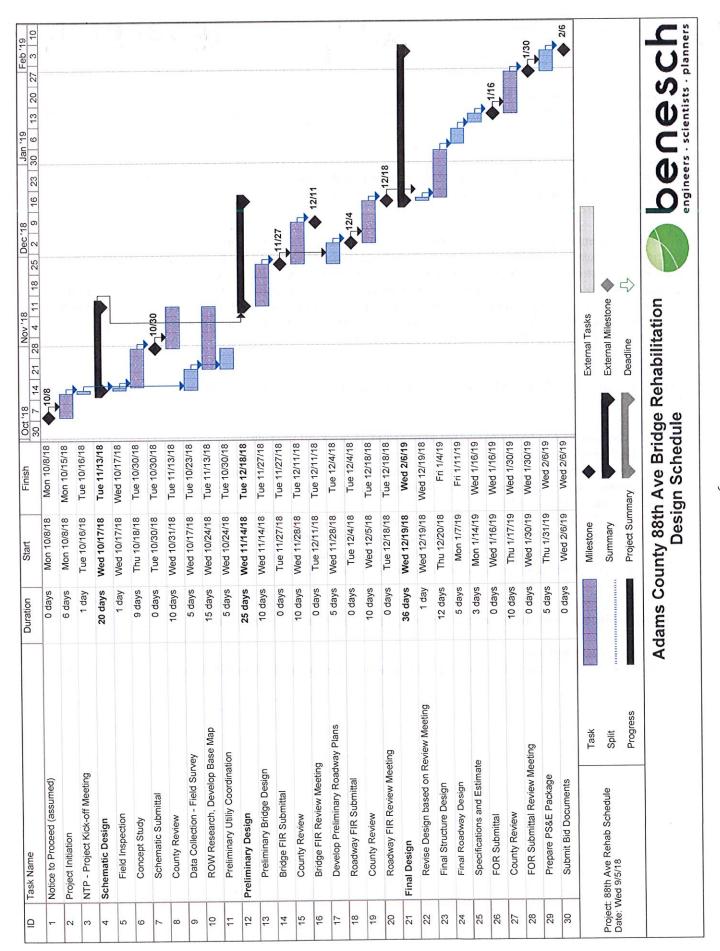
Minor variations on the naming and number of the drawings produced are likely, but this list is given to demonstrate the overall level of effort. We will submit these drawings and specification for review at about a 90% level of completion. We will attend the Final Office Review (FOR) meeting. When comments have been received from the County, we will proceed to preparing the For Bid Documents.

For Bid Documents:

We will make drawing or specification changes as required to accommodate review comments received from the County.

Assumptions:

The following assumptions are included in this project approach. If these assumptions do not meet the goals of the County, please let us know so that the scope can be modified.



88th Avenue Bridge Rehabilitation Page | 3



We assume that acquisition of ROW (permanent or temporary) is not included in the scope of work. Our work will include construction easements (3 parcels maximum) and one legal description for a permanent acquisition, if necessary.

Excluded Items:

Hydrologic and hydraulic analysis, scour analysis and design of scour countermeasures are excluded. Geotechnical investigations are excluded. No substructure modifications or significant deficiencies are anticipated that would require a report.

Since environmental studies are excluded, it is assumed that the County will either provide the 404 permit or has determined that there are no Waters of the U.S. or jurisdictional Wetlands within the project site. Similarly, we assume that the County has determined that there are no Threatened or Endangered Species in the project site. Normally, our environmental subconsultant would conduct the historic resources survey. Given that the structure is less than 50 years old, our proposal is based on the assumption that coordination with the Colorado State Historic Preservation officer (SHPO) will not be required. Finally, our proposal is based on the assumption that air quality, noise, paleontology, archeology, Section 4(f) and Section 6(f) are excluded as well.

Schedule:

Our preliminary schedule for performing this work is attached. The schedule for major milestones is shown below.

- Schematic Design Submittal Two weeks from the Kick-off meeting.
- Preliminary Design Submittal We can provide our preliminary bridge design drawing in about two
 weeks from receiving comments on our schematic design. We can submit our roadway design, assuming
 no unusual difficulties are encountered in obtaining right of entry to private property, within about a week
 after the bridge submittal.
- Final Design Submittal We can provided our final design drawings and specifications in about four weeks from the time we receive review comments on our preliminary submittal.
- Construction Documents Submittal We can provide our "For Construction" set of drawings within about one week of receiving review comments on our final design.

Bid Phase Services:

We have not included bid phase services, however, these could be added if requested.

Construction Phase Services:

We have not included construction phase services, however, these could be added if requested.

88th Avenue Bridge Rehabilitation

Adams County



9/6/2018

Hourly Rate	Position	Employee
\$181.00	Manager In Charge (MIC)	Steven C. Banks
\$181.00	Project Manager (PM)	Daniel Bechtold
\$128.00	Project Engineer (PE)	
\$147.00	Hydraulic Project Eng (PE)	
\$97.00	Design Engineer (DE)	
\$87.00	CAD Drafter (CAD)	uities Sheets
\$66.00	Clerical	C. 220 G TOUR

Task	, a	Но	urs by Er	nployee		A SAME OF SAME	Expenses	Total
	MIC	PM	PE	DE	CAD	Clerical		* p = 1 1 1 1 1 1 1 1 1 1
SCHEMATIC DESIGN								
Data Collection / Kickoff	0	2	0	4	0	0	\$0.00	\$750.00
Field Inspection	0	6	0	6	0	0	\$29.00	\$1,697.00
Concept Study	0	40	0	40	0	0	\$0.00	\$11,120.00
Prepare Schematic Submittal	0	2	0	2	0	1	\$0.00	\$622.00
Survey Field Work	0	1	0	0	0	0	\$2,600	\$2,781.00
Survey Office Work	0	0	0	0	0	0	\$6,100	\$6,100.00
Review Meeting	3	3	0	0	0	0	\$15.00	\$1,101.00
Preliminary Design Hours	3	54	0	52	0	1		
					Sch	ematic D	esign Fee	\$24,171.00
PRELIMINARY DESIGN								
Roadway Design - Alignment	0	8	20	0	0	0	\$0.00	\$4,008.00
Roadway Design - Profile	0	12	8	0	0	0	\$0.00	\$3,196.00
Stormwater Management Plan	0	8	8	0	0	0	\$0.00	\$2,472.00
Preliminary Bridge Design	0	20	0	16	0	0	\$0.00	\$5,172.00
Preliminary Utility Coordination	0	2	0	12	0	0	\$0.00	\$1,526.00
Preliminary ROW and Easements	0	8	0	0	0	0	\$1,000	\$2,448.00
Opinion of Probable Const. Cost	0	4	0	0	0	0	\$0.00	\$724.00
Quality Control Review	4	0	0	0	0	0	\$0.00	\$724.00
Prepare FIR Submittal	0	4	0	0	0	1	\$0.00	\$790.00
FIR Review Meeting	3	3	0	0	0	0	\$18.00	\$1,104.00
Preliminary Design Hours	7	69	36	28	0	1		
					Preli	minary I	Design Fee	\$22,164.00

88th Avenue Bridge Rehabilitation

Adams County



Task		Н	ours by E	mployee	81050	W S	Expenses	Total
8 .w %	MIC	PM	PE	DE	CAD	Clerical		
FINAL DESIGN								
Cover Sheet	0	4	0	2	0	0	\$0.00	\$918.00
Standards Plans List	0	2	0	2	0	0	\$0.00	\$556.00
General Notes Sheet	0	2	4	2	0	0	\$0.00	\$1,068.00
Typical Sections Sheet	0	2	4	0	0	0	\$0.00	\$874.00
Summary of App. Quantities Sheets	0	4	8	8	0	0	\$0.00	\$2,524.00
Tabulations Sheet	0	2	4	0	0	0	\$0.00	\$874.00
Survey Tabulation Sheet	0	0	0	2	0	0	\$0.00	\$194.00
Land Survey Control Diagram	0	2	0	0	0	0	\$500	\$862.00
ROW/Easements	0	4	8	0	0	0	\$2,600	\$4,348.00
Plan and Profile Sheet	0	4	8	0	0	0	\$0.00	\$1,748.00
Channel Grading	0	2	8	0	0	0	\$0.00	\$1,386.00
Traffic Control / Phasing Sheets	0	16	8	0	0	0	\$0.00	\$3,920.00
SWMP Plans	0	4	8	0	0	0	\$0.00	\$1,748.00
Erosion Control Plans	0	4	8	0	0	0	\$0.00	\$1,748.00
Signing and Striping Plan	0	0	4	2	0	0	\$0.00	\$706.00
Bridge General Information	0	2	0	2	0	0	\$0.00	\$556.00
Bridge General Layout	0	12	0	16	0	0	\$0.00	\$3,724.00
Construction Layout	0	8	0	8	0	0	\$0.00	\$2,224.00
Bridge Removals Plan	0	4	0	8	0	0	\$0.00	\$1,500.00
Abutment Modification Details	0	8	0	8	0	0	\$0.00	\$2,224.00
Girder Modification Details	0	8	0	16	0	0	\$0.00	\$3,000.00
Superstructure Details	0	8	0	16	0	0	\$0.00	\$3,000.00
Bridge Rail Sheet (2 sheets)	0	4	0	2	0	0	\$0.00	\$918.00
Bridge Deck Geometry	0	2	0	12	0	0	\$0.00	\$1,526.00
Roadway Approaches	0	2	0	4	0	0	\$0.00	\$750.00
Project / Standard Spec. Provisions	0	8	0	4	0	0	\$0.00	\$1,836.00
Opinion of Probable Cost	0	8	8	4	0	0	\$0.00	\$2,860.00
Quality Control Review	4	0	4	0	0	0	\$0.00	\$1,236.00
Appraisal Staking	0	2	0	0	0	0	\$1,400	\$1,762.00
FOR Review Meeting	3	3	0	0	0	0	\$15.00	\$1,101.00
Revise Dwgs and Submit Bid Docs	0	2	0	8	8	0	\$0.00	\$1,834.00
Final Design Hours	7	133	84	126	8	0		

Final Design Fee \$53,525.00

Total Project Fee \$99,860

Survey Subconsultant Fee (included in total project fee)

\$14,200.00

OFFICE OF THE SECRETARY OF STATE OF THE STATE OF COLORADO

CERTIFICATE OF FACT OF GOOD STANDING

I, Wayne W. Williams, as the Secretary of State of the State of Colorado, hereby certify that, according to the records of this office,

Alfred Benesch & Company

, has complied with all is an entity formed or registered under the law of Illinois applicable requirements of this office, and is in good standing with this office. This entity has been assigned entity identification number 20091563996.

This certificate reflects facts established or disclosed by documents delivered to this office on paper through 09/14/2018 that have been posted, and by documents delivered to this office electronically through 09/17/2018 @ 14:08:57.

I have affixed hereto the Great Seal of the State of Colorado and duly generated, executed, and issued this official certificate at Denver, Colorado on 09/17/2018 @ 14:08:57 in accordance with applicable law. This certificate is assigned Confirmation Number 11120037



Secretary of State of the State of Colorado

Notice: A certificate issued electronically from the Colorado Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Validate a Certificate page of the Secretary of State's Web site, http://www.sos.state.co.us/biz/CertificateSearchCriteria.do entering the certificate's confirmation number displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate. For more information, visit our Web site, http://www.sos.state.co.us/ click "Businesses, trademarks, trade names" and select "Frequently Asked Questions."

		,	



REVISION NUMBER:

VSANTOSUOSSO

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 09/27/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Ames & Gough	PHONE (AJC, No, Ext): (617) 328-6555 FAX (AJC, No):(617) 328	8-6888
859 Willard Street Suite 320	E-MAIL ADDRESS: boston@amesgough.com	
Quincy, MA 02169	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: Travelers Indemnity Co. of America A++, XV 28	5666
INSURED	INSURER B : Travelers Property Casualty Company of America 25	
		5623
Alfred Benesch & Company 35 West Wacker Drive, Suite 3300	INSURER D : Berkshire Hathaway Specialty Insurance Company 22	2276
Chicago, IL 60601-5927	INSURER E :	
	INSURER F:	

CERTIFICATE NUMBER: COVERAGES THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

	(CLUSIONS AND CONDITIONS OF SUCH			POLICY EEE	POLICY EVA		
INSR LTR	TYPE OF INSURANCE	ADDL S	SUBR POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	(MM/DD/YYYY)	LIMIT	
A	X COMMERCIAL GENERAL LIABILITY					EACH OCCURRENCE	s 1,000,000
	CLAIMS-MADE X OCCUR	$ \mathbf{x} $	630-0D870755	05/31/2018	05/31/2019	DAMAGE TO RENTED PREMISES (Ea occurrence)	s 1,000,000
	92 11110 111102 [22]	^				MED EXP (Any one person)	s 10,000
1						PERSONAL & ADV INJURY	s 1,000,000
						GENERAL AGGREGATE	2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						2,000,000
	POLICY X PRO: X LOC				İ	PRODUCTS - COMP/OP AGG	\$ 2,000,000
	OTHER:						\$
В	AUTOMOBILE LIABILITY					COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
	X ANY AUTO	$ \mathbf{x} $	BA-1E721939	05/31/2018	05/31/2019	BODILY INJURY (Per person)	\$
	OWNED SCHEDULED AUTOS ONLY AUTOS	^	i		i	BODILY INJURY (Per accident)	\$
		¦		ļ		PROPERTY DAMAGE (Per accident)	s
	X HIRED ONLY X NON-OWNED					(i di dodidani)	s
		Ļ.			<u> </u>	-	3
	UMBRELLA LIAB OCCUR				İ	EACH OCCURRENCE	\$
	EXCESS LIAB CLAIMS-MADE					AGGREGATE	\$
	DED RETENTIONS	1					s
C	WORKERS COMPENSATION					X PER OTH-	_
-	AND EMPLOYERS' LIABILITY Y/N		UB-5K723986	05/31/2018	05/31/2019	E.L. EACH ACCIDENT	s 1,000,000
	ANY PROPRIETOR/PARTNER/EXECUTIVE N	N/A				E.L. DISEASE - EA EMPLOYEE	1 000 000
	(Mandatory in NH)						1 000 000
	DESCRIPTION OF OPERATIONS below					E.L. DISEASE - POLICY LIMIT	<u> </u>
D	Professional Liab		47-EPP-305297-01	05/31/2018	05/31/2019	Per Claim	1,000,000
Ь			47-EPP-305297-01	05/31/2018	05/31/2019	Aggregate	2,000,000
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1				I			<u> </u>

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) RE: E. 88th Ave over Local Drainage Design Services Benesch Project #TBD (PM: Dan Bechtold)

Adams County shall be included as additional insured with respects to General and Auto Liability where required by written contract.

CERTIFICATE HOLDER	CANCELLATION	
Adams County Attn: Shannon Sprague, CPPB 4430 S Adams County Pkwy Ste C4000A Brighton, CO 80601	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.	
	Michael Herlicher	

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